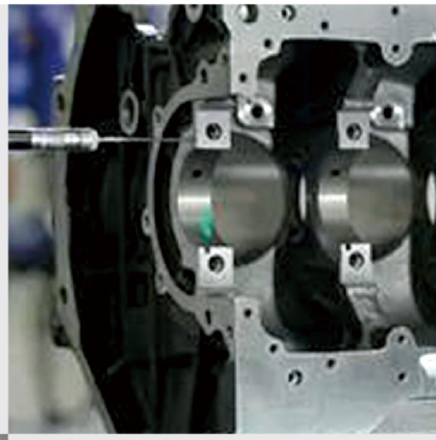
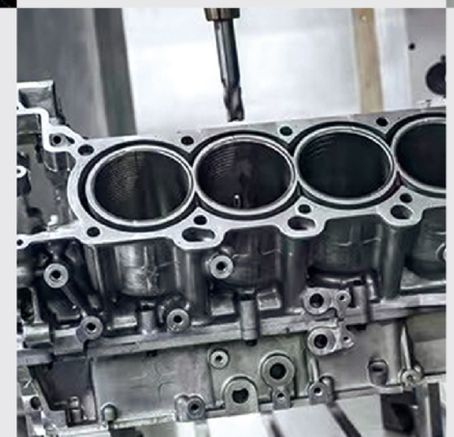
PALANTIR

MAIN CATALOGUE







PALANTIR

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Version: 202401

Precision Tools for Metal Cutting



PALANTIR

SECTION DIRECTORY

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02 TAPS 丝锥 P085-132

03 END MILLS 立铣刀 P133-136

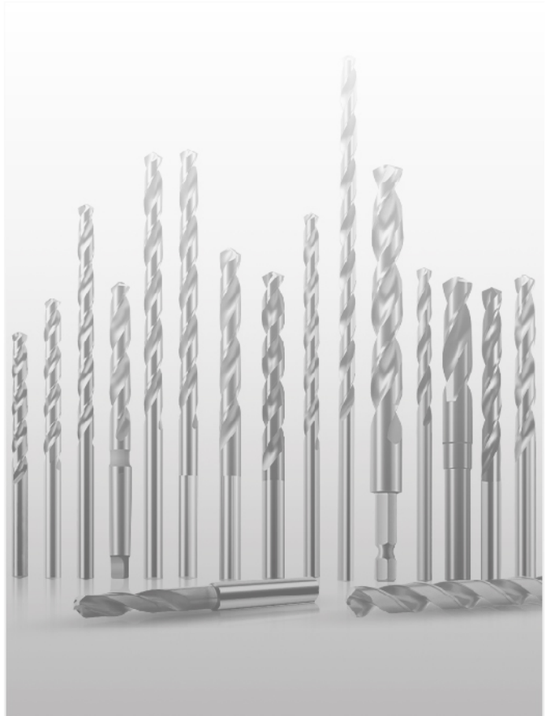
04 INDEXABLE CUTTING INSERTS 数控刀片 P137-230

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06 RECIPROCATING SAW BLADE 往复锯条 P237-242

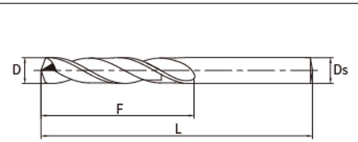
07 HACKSAW BLADES 手锯条 P243

TWIST DRILLS
钻头





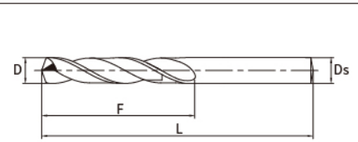
Twist Drills with straight shank, HSS, N, DIN1897



材质	Material	HSS
槽型	Type	N
切削方向	Cutting direction	R.H.
修磨横刃	Web thinning	Form C
顶角	Point angle	118°
表面处理	Surface	Black
精度	Tolerance	h8
系列号	List No.	1102

刃径	刃长	全长	柄径	SKU
D	F	L	Ds	
3.0	16	46	3.0	11020300
3.1	18	49	3.1	11020310
3.2	18	49	3.2	11020320
3.3	18	49	3.3	11020330
3.4	20	52	3.4	11020340
3.5	20	52	3.5	11020350
3.6	20	52	3.6	11020360
3.7	20	52	3.7	11020370
3.8	22	55	3.8	11020380
3.9	22	55	3.9	11020390
4.0	22	55	4.0	11020400
4.1	22	55	4.1	11020410
4.2	22	55	4.2	11020420
4.3	24	58	4.3	11020430
4.4	24	58	4.4	11020440
4.5	24	58	4.5	11020450
4.6	24	58	4.6	11020460
4.7	24	58	4.7	11020470
4.8	26	62	4.8	11020480
4.9	26	62	4.9	11020490
5.0	26	62	5.0	11020500
5.1	26	62	5.1	11020510
5.2	26	62	5.2	11020520
5.3	26	62	5.3	11020530
5.4	28	66	5.4	11020540
5.5	28	66	5.5	11020550
5.6	28	66	5.6	11020560
5.7	28	66	5.7	11020570
5.8	28	66	5.8	11020580
5.9	28	66	5.9	11020590

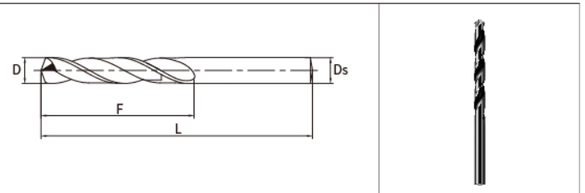
Twist Drills with straight shank, HSS, N, DIN1897



材质	Material	HSS
槽型	Type	N
切削方向	Cutting direction	R.H.
修磨横刃	Web thinning	Form C
顶角	Point angle	118°
表面处理	Surface	Black
精度	Tolerance	h8
系列号	List No.	1102

刃径	刃长	全长	柄径	SKU
D	F	L	Ds	
6.0	28	66	6.0	11020600
6.1	31	70	6.1	11020610
6.2	31	70	6.2	11020620
6.3	31	70	6.3	11020630
6.4	31	70	6.4	11020640
6.5	31	70	6.5	11020650
6.6	31	70	6.6	11020660
6.7	31	70	6.7	11020670
6.8	34	74	6.8	11020680
6.9	34	74	6.9	11020690
7.0	34	74	7.0	11020700
7.1	34	74	7.1	11020710
7.2	34	74	7.2	11020720
7.3	34	74	7.3	11020730
7.4	34	74	7.4	11020740
7.5	34	74	7.5	11020750
7.6	37	79	7.6	11020760
7.7	37	79	7.7	11020770
7.8	37	79	7.8	11020780
7.9	37	79	7.9	11020790
8.0	37	79	8.0	11020800
8.1	37	79	8.1	11020810
8.2	37	79	8.2	11020820
8.3	37	79	8.3	11020830
8.4	37	79	8.4	11020840
8.5	37	79	8.5	11020850
8.6	40	84	8.6	11020860
8.7	40	84	8.7	11020870
8.8	40	84	8.8	11020880
8.9	40	84	8.9	11020890

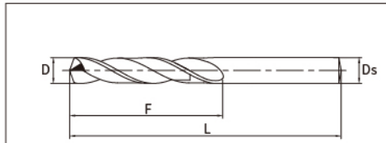
Twist Drills with straight shank, HSS, N, DIN1897



材质	Material	HSS
槽型	Type	N
切削方向	Cutting direction	R.H.
修磨横刃	Web thinning	Form C
顶角	Point angle	118°
表面处理	Surface	Black
精度	Tolerance	h8
系列号	List No.	1102

刃径	刃长	全长	柄径	SKU
D	F	L	Ds	
9.0	40	84	9.0	11020900
9.1	40	84	9.1	11020910
9.2	40	84	9.2	11020920
9.3	40	84	9.3	11020930
9.4	40	84	9.4	11020940
9.5	40	84	9.5	11020950
9.6	43	89	9.6	11020960
9.7	43	89	9.7	11020970
9.8	43	89	9.8	11020980
9.9	43	89	9.9	11020990
10.0	43	89	10.0	11021000
10.1	43	89	10.1	11021010
10.2	43	89	10.2	11021020
10.3	43	89	10.3	11021030
10.4	43	89	10.4	11021040
10.5	43	89	10.5	11021050
10.6	43	89	10.6	11021060
10.7	47	95	10.7	11021070
10.8	47	95	10.8	11021080
10.9	47	95	10.9	11021090
11.0	47	95	11.0	11021100
11.1	47	95	11.1	11021110
11.2	47	95	11.2	11021120
11.3	47	95	11.3	11021130
11.4	47	95	11.4	11021140
11.5	47	95	11.5	11021150
11.6	47	95	11.6	11021160
11.7	47	95	11.7	11021170
11.8	47	95	11.8	11021180
11.9	51	102	11.9	11021190

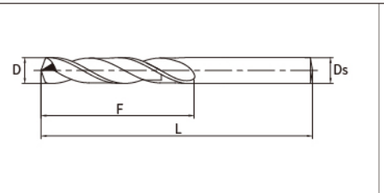
Twist Drills with straight shank, HSS, N, DIN1897



材质	Material	HSS
槽型	Type	N
切削方向	Cutting direction	R.H.
修磨横刃	Web thinning	Form C
顶角	Point angle	118°
表面处理	Surface	Black
精度	Tolerance	h8
系列号	List No.	1102

刃径	刃长	全长	柄径	SKU
D	F	L	Ds	
12.0	51	102	12.0	11021200
12.1	51	102	12.1	11021210
12.2	51	102	12.2	11021220
12.3	51	102	12.3	11021230
12.4	51	102	12.4	11021240
12.5	51	102	12.5	11021250
12.6	51	102	12.6	11021260
12.7	51	102	12.7	11021270
12.8	51	102	12.8	11021280
12.9	51	102	12.9	11021290
13.0	51	102	13.0	11021300
13.1	51	102	13.1	11021310
13.2	51	102	13.2	11021320
13.3	54	107	13.3	11021330
13.4	54	107	13.4	11021340
13.5	54	107	13.5	11021350
13.6	54	107	13.6	11021360
13.7	54	107	13.7	11021370
13.8	54	107	13.8	11021380
13.9	54	107	13.9	11021390
14.0	54	107	14.0	11021400
14.1	56	111	14.1	11021410
14.2	56	111	14.2	11021420
14.3	56	111	14.3	11021430
14.4	56	111	14.4	11021440
14.5	56	111	14.5	11021450
14.6	56	111	14.6	11021460
14.7	56	111	14.7	11021470
14.8	56	111	14.8	11021480
14.9	56	111	14.9	11021490

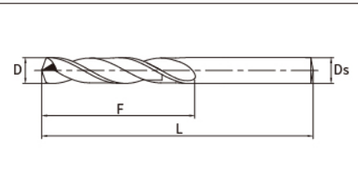
Twist Drills with straight shank, HSS, N, DIN1897



材质	Material	HSS
槽型	Type	N
切削方向	Cutting direction	R.H.
修磨横刃	Web thinning	Form C
顶角	Point angle	118°
表面处理	Surface	Black
精度	Tolerance	h8
系列号	List No.	1102

刃径	刃长	全长	柄径	SKU
D	F	L	Ds	
15.0	56	111	15.0	11021500
15.1	58	115	15.1	11021510
15.2	58	115	15.2	11021520
15.3	58	115	15.3	11021530
15.4	58	115	15.4	11021540
15.5	58	115	15.5	11021550
15.6	58	115	15.6	11021560
15.7	58	115	15.7	11021570
15.8	58	115	15.8	11021580
15.9	58	115	15.9	11021590
16.0	58	119	16.0	11021600
16.1	60	119	16.1	11021610
16.2	60	119	16.2	11021620
16.3	60	119	16.3	11021630
16.4	60	119	16.4	11021640
16.5	60	119	16.5	11021650
16.6	60	119	16.6	11021660
16.7	60	119	16.7	11021670
16.8	60	119	16.8	11021680
16.9	60	119	16.9	11021690
17.0	60	119	17.0	11021700
17.1	62	123	17.1	11021710
17.2	62	123	17.2	11021720
17.3	62	123	17.3	11021730
17.4	62	123	17.4	11021740
17.5	62	123	17.5	11021750
17.6	62	123	17.6	11021760
17.7	62	123	17.7	11021770
17.8	62	123	17.8	11021780
17.9	62	123	17.9	11021790

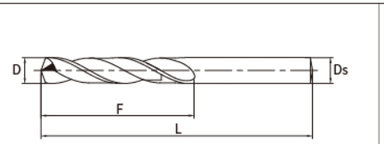
Twist Drills with straight shank, HSS, N, DIN1897



材质	Material	HSS
槽型	Type	N
切削方向	Cutting direction	R.H.
修磨横刃	Web thinning	Form C
顶角	Point angle	118°
表面处理	Surface	Black
精度	Tolerance	h8
系列号	List No.	1102

刃径	刃长	全长	柄径	SKU
D	F	L	Ds	
18.0	62	123	18.0	11021800
18.1	64	127	18.1	11021810
18.2	64	127	18.2	11021820
18.3	64	127	18.3	11021830
18.4	64	127	18.4	11021840
18.5	64	127	18.5	11021850
18.6	64	127	18.6	11021860
18.7	64	127	18.7	11021870
18.8	64	127	18.8	11021880
18.9	64	127	18.9	11021890
19.0	64	127	19.0	11021900
19.1	66	131	19.1	11021910
19.2	66	131	19.2	11021920
19.3	66	131	19.3	11021930
19.4	66	131	19.4	11021940
19.5	66	131	19.5	11021950
19.6	66	131	19.6	11021960
19.7	66	131	19.7	11021970
19.8	66	131	19.8	11021980
19.9	66	131	19.9	11021990
20.0	66	131	20.0	11022000

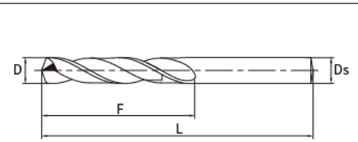
Twist Drills with straight shank, HSS,N, DIN1897, Double End



材质	Material	HSS
槽型	Type	N
切削方向	Cutting direction	R.H.
修磨横刃	Web thinning	Form C
顶角	Point angle	118°
表面处理	Surface	Black
精度	Tolerance	h8
系列号	List No.	1103

刃径	刃长	全长	柄径	SKU
D	F	L	Ds	
3.0	11	46	3.0	11030300
3.1	12	49	3.1	11030310
3.2	12	49	3.2	11030320
3.3	12	49	3.3	11030330
3.4	13	52	3.4	11030340
3.5	13	52	3.5	11030350
3.6	13	52	3.6	11030360
3.7	13	52	3.7	11030370
3.8	14	55	3.8	11030380
3.9	14	55	3.9	11030390
4.0	14	55	4.0	11030400
4.1	14	55	4.1	11030410
4.2	14	55	4.2	11030420
4.3	16	58	4.3	11030430
4.4	16	58	4.4	11030440
4.5	16	58	4.5	11030450
4.6	16	58	4.6	11030460
4.7	16	58	4.7	11030470
4.8	17	62	4.8	11030480
4.9	17	62	4.9	11030490
5.0	17	62	5.0	11030500
5.1	17	62	5.1	11030510
5.2	17	62	5.2	11030520
5.3	17	62	5.3	11030530
5.4	19	66	5.4	11030540
5.5	19	66	5.5	11030550
5.6	19	66	5.6	11030560
5.7	19	66	5.7	11030570
5.8	19	66	5.8	11030580
5.9	19	66	5.9	11030590

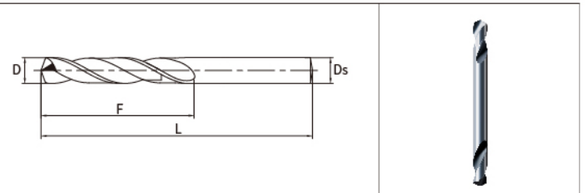
Twist Drills with straight shank, HSS,N, DIN1897, Double End



材质	Material	HSS
槽型	Type	N
切削方向	Cutting direction	R.H.
修磨横刃	Web thinning	Form C
顶角	Point angle	118°
表面处理	Surface	Black
精度	Tolerance	h8
系列号	List No.	1103

刃径	刃长	全长	柄径	SKU
D	F	L	Ds	
6.0	19	66	6.0	11030600
6.1	21	70	6.1	11030610
6.2	21	70	6.2	11030620
6.3	21	70	6.3	11030630
6.4	21	70	6.4	11030640
6.5	21	70	6.5	11030650
6.6	21	70	6.6	11030660
6.7	21	70	6.7	11030670
6.8	24	74	6.8	11030680
6.9	24	74	6.9	11030690
7.0	24	74	7.0	11030700
7.1	24	74	7.1	11030710
7.2	24	74	7.2	11030720
7.3	24	74	7.3	11030730
7.4	24	74	7.4	11030740
7.5	24	74	7.5	11030750
7.6	25	79	7.6	11030760
7.7	25	79	7.7	11030770
7.8	25	79	7.8	11030780
7.9	25	79	7.9	11030790
8.0	25	79	8.0	11030800
8.1	25	79	8.1	11030810
8.2	25	79	8.2	11030820
8.3	25	79	8.3	11030830
8.4	25	79	8.4	11030840
8.5	25	79	8.5	11030850
8.6	25	84	8.6	11030860
8.7	25	84	8.7	11030870
8.8	25	84	8.8	11030880
8.9	25	84	8.9	11030890

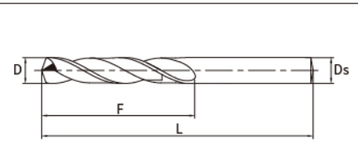
Twist Drills with straight shank, HSS, N, DIN1897, Double End



材质	Material	HSS
槽型	Type	N
切削方向	Cutting direction	R.H.
修磨横刃	Web thinning	Form C
顶角	Point angle	118°
表面处理	Surface	Black
精度	Tolerance	h8
系列号	List No.	1103

刃径	刃长	全长	柄径	SKU
D	F	L	Ds	
9.0	25	84	9.0	11030900
9.1	25	84	9.1	11030910
9.2	25	84	9.2	11030920
9.3	25	84	9.3	11030930
9.4	25	84	9.4	11030940
9.5	25	84	9.5	11030950
9.6	25	89	9.6	11030960
9.7	25	89	9.7	11030970
9.8	25	89	9.8	11030980
9.9	25	89	9.9	11030990
10.0	25	89	10.0	11031000

Twist Drills with straight shank, HSS,N, DIN1897, Welding Point Drill



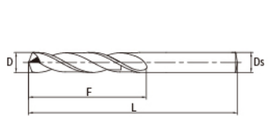


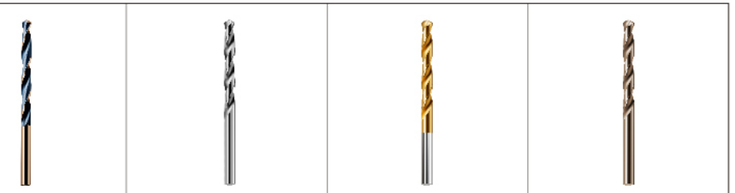


材质	Material	HSCo-5	HSCo-5
槽型	Type	N	N
切削方向	Cutting direction	R.H.	R.H.
修磨横刃	Web thinning	Form A	Form A
顶角	Point angle	180°	180°
表面处理	Surface	Bright	TiN
精度	Tolerance	h8	h8
系列号	List No.	1104	1105

刃径	刃长	全长	柄径	SKU	SKU
D	F	L	Ds		
6	28	66	6	11040600	11050600
8	37	79	8	11040800	11050800
10	43	89	10	11041000	11051000

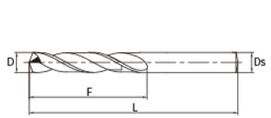
Twist Drills with straight shank, HSS/HSCo-5, jobber length, DIN338

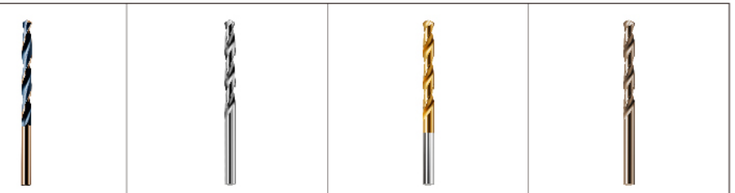




材质	Material		HSS	HSS	HSS	HSCo-5
槽型	Type		N-R.F.	N	N	N
切削方向	Cutting direction		R.H.	R.H.	R.H.	R.H.
修磨横刃	Web thinning		Normal	Form C ⩾1.5mm	Form C ⩾1.5mm	Form C ⩾1.5mm
顶角	Point angle		118°	118°	118°	135°
表面处理	Surface		Black&Brozen	Bright	TiN	Bronze
精度	Tolerance		h8	h8	h8	h8
系列号	List No.		1120	1121	1122	1123
刃径	刃长	全长	SKU	SKU	SKU	SKU
D	F	L				
0.5	6	22	—	11210050	11220050	11230050
0.6	7	24	—	11210060	11220060	11230060
0.7	9	28	—	11210070	11220070	11230070
0.8	10	30	—	11210080	11220080	11230080
0.9	11	32	—	11210090	11220090	11230090
1.0	12	34	—	11210100	11220100	11230100
1.1	14	36	—	11210110	11220110	11230110
1.2	16	38	—	11210120	11220120	11230120
1.3	16	38	—	11210130	11220130	11230130
1.4	18	40	—	11210140	11220140	11230140
1.5	18	40	—	11210150	11220150	11230150
1.6	20	43	—	11210160	11220160	11230160
1.7	20	43	—	11210170	11220170	11230170
1.8	22	46	—	11210180	11220180	11230180
1.9	22	46	—	11210190	11220190	11230190
2.0	24	49	—	11210200	11220200	11230200
2.1	24	49	—	11210210	11220210	11230210
2.2	27	53	—	11210220	11220220	11230220
2.3	27	53	—	11210230	11220230	11230230
2.4	30	57	—	11210240	11220240	11230240
2.5	30	57	—	11210250	11220250	11230250
2.6	30	57	—	11210260	11220260	11230260
2.7	33	61	—	11210270	11220270	11230270
2.8	33	61	—	11210280	11220280	11230280
2.9	33	61	—	11210290	11220290	11230290
3.0	33	61	11200300	11210300	11220300	11230300
3.1	36	65	11200310	11210310	11220310	11230310
3.2	36	65	11200320	11210320	11220320	11230320
3.3	36	65	11200330	11210330	11220330	11230330
3.4	39	70	11200340	11210340	11220340	11230340

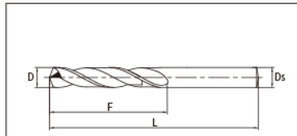
Twist Drills with straight shank, HSS/HSCo-5, jobber length, DIN338

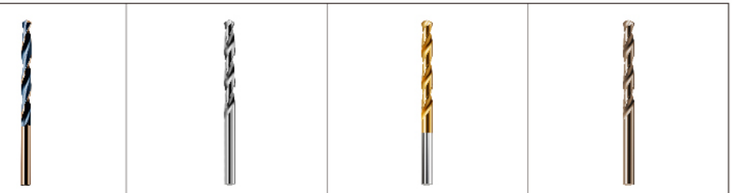




材质	Material		HSS	HSS	HSS	HSCo-5
槽型	Type		N-R.F.	N	N	N
切削方向	Cutting direction		R.H.	R.H.	R.H.	R.H.
修磨横刃	Web thinning		Normal	Form C ⩾1.5mm	Form C ⩾1.5mm	Form C ⩾1.5mm
顶角	Point angle		118°	118°	118°	135°
表面处理	Surface		Black&Brozen	Bright	TiN	Bronze
精度	Tolerance		h8	h8	h8	h8
系列号	List No.		1120	1121	1122	1123
刃径	刃长	全长	SKU	SKU	SKU	SKU
D	F	L				
3.5	39	70	11200350	11210350	11220350	11230350
3.6	39	70	11200360	11210360	11220360	11230360
3.7	39	70	11200370	11210370	11220370	11230370
3.8	43	75	11200380	11210380	11220380	11230380
3.9	43	75	11200390	11210390	11220390	11230390
4.0	43	75	11200400	11210400	11220400	11230400
4.1	43	75	11200410	11210410	11220410	11230410
4.2	43	75	11200420	11210420	11220420	11230420
4.3	47	80	11200430	11210430	11220430	11230430
4.4	47	80	11200440	11210440	11220440	11230440
4.5	47	80	11200450	11210450	11220450	11230450
4.6	47	80	11200460	11210460	11220460	11230460
4.7	47	80	11200470	11210470	11220470	11230470
4.8	52	86	11200480	11210480	11220480	11230480
4.9	52	86	11200490	11210490	11220490	11230490
5.0	52	86	11200500	11210500	11220500	11230500
5.1	52	86	11200510	11210510	11220510	11230510
5.2	52	86	11200520	11210520	11220520	11230520
5.3	52	86	11200530	11210530	11220530	11230530
5.4	57	93	11200540	11210540	11220540	11230540
5.5	57	93	11200550	11210550	11220550	11230550
5.6	57	93	11200560	11210560	11220560	11230560
5.7	57	93	11200570	11210570	11220570	11230570
5.8	57	93	11200580	11210580	11220580	11230580
5.9	57	93	11200590	11210590	11220590	11230590
6.0	57	93	11200600	11210600	11220600	11230600
6.1	63	101	11200610	11210610	11220610	11230610
6.2	63	101	11200620	11210620	11220620	11230620
6.3	63	101	11200630	11210630	11220630	11230630
6.4	63	101	11200640	11210640	11220640	11230640

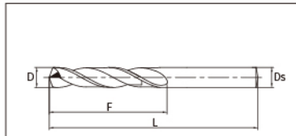
Twist Drills with straight shank, HSS/HSCo-5, jobber length, DIN338

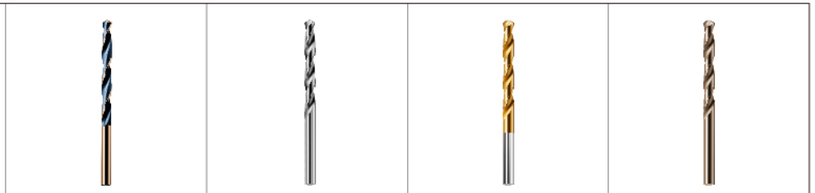




材质	Material		HSS	HSS	HSS	HSCo-5
槽型	Type		N-R.F.	N	N	N
切削方向	Cutting direction		R.H.	R.H.	R.H.	R.H.
修磨横刃	Web thinning		Normal	Form C ⩾1.5mm	Form C ⩾1.5mm	Form C ⩾1.5mm
顶角	Point angle		118°	118°	118°	135°
表面处理	Surface		Black&Brozen	Bright	TiN	Bronze
精度	Tolerance		h8	h8	h8	h8
系列号	List No.		1120	1121	1122	1123
刃径	刃长	全长	SKU	SKU	SKU	SKU
D	F	L				
6.5	63	101	11200650	11210650	11220650	11230650
6.6	63	101	11200660	11210660	11220660	11230660
6.7	63	101	11200670	11210670	11220670	11230670
6.8	69	109	11200680	11210680	11220680	11230680
6.9	69	109	11200690	11210690	11220690	11230690
7.0	69	109	11200700	11210700	11220700	11230700
7.1	69	109	11200710	11210710	11220710	11230710
7.2	69	109	11200720	11210720	11220720	11230720
7.3	69	109	11200730	11210730	11220730	11230730
7.4	69	109	11200740	11210740	11220740	11230740
7.5	69	109	11200750	11210750	11220750	11230750
7.6	75	117	11200760	11210760	11220760	11230760
7.7	75	117	11200770	11210770	11220770	11230770
7.8	75	117	11200780	11210780	11220780	11230780
7.9	75	117	11200790	11210790	11220790	11230790
8.0	75	117	11200800	11210800	11220800	11230800
8.1	75	117	11200810	11210810	11220810	11230810
8.2	75	117	11200820	11210820	11220820	11230820
8.3	75	117	11200830	11210830	11220830	11230830
8.4	75	117	11200840	11210840	11220840	11230840
8.5	75	117	11200850	11210850	11220850	11230850
8.6	81	125	11200860	11210860	11220860	11230860
8.7	81	125	11200870	11210870	11220870	11230870
8.8	81	125	11200880	11210880	11220880	11230880
8.9	81	125	11200890	11210890	11220890	11230890
9.0	81	125	11200900	11210900	11220900	11230900
9.1	81	125	11200910	11210910	11220910	11230910
9.2	81	125	11200920	11210920	11220920	11230920
9.3	81	125	11200930	11210930	11220930	11230930
9.4	81	125	11200940	11210940	11220940	11230940

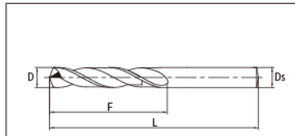
Twist Drills with straight shank, HSS/HSCo-5, jobber length, DIN338

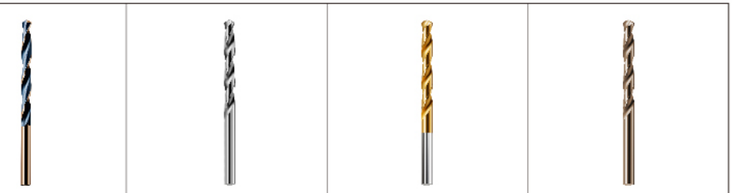




材质	Material		HSS	HSS	HSS	HSCo-5
槽型	Type		N-R.F.	N	N	N
切削方向	Cutting direction		R.H.	R.H.	R.H.	R.H.
修磨横刃	Web thinning		Normal	Form C ⩾1.5mm	Form C ⩾1.5mm	Form C ⩾1.5mm
顶角	Point angle		118°	118°	118°	135°
表面处理	Surface		Black&Brozen	Bright	TiN	Bronze
精度	Tolerance		h8	h8	h8	h8
系列号	List No.		1120	1121	1122	1123
刃径	刃长	全长	SKU	SKU	SKU	SKU
D	F	L				
9.5	81	125	11200950	11210950	11220950	11230950
9.6	87	133	11200960	11210960	11220960	11230960
9.7	87	133	11200970	11210970	11220970	11230970
9.8	87	133	11200980	11210980	11220980	11230980
9.9	87	133	11200990	11210990	11220990	11230990
10.0	87	133	11201000	11211000	11221000	11231000
10.1	87	133	11201010	11211010	11221010	11231010
10.2	87	133	11201020	11211020	11221020	11231020
10.3	87	133	11201030	11211030	11221030	11231030
10.4	87	133	11201040	11211040	11221040	11231040
10.5	87	133	11201050	11211050	11221050	11231050
10.6	87	133	11201060	11211060	11221060	11231060
10.7	94	142	11201070	11211070	11221070	11231070
10.8	94	142	11201080	11211080	11221080	11231080
10.9	94	142	11201090	11211090	11221090	11231090
11.0	94	142	11201100	11211100	11221100	11231100
11.1	94	142	11201110	11211110	11221110	11231110
11.2	94	142	11201120	11211120	11221120	11231120
11.3	94	142	11201130	11211130	11221130	11231130
11.4	57	142	11201140	11211140	11221140	11231140
11.5	94	142	11201150	11211150	11221150	11231150
11.6	94	142	11201160	11211160	11221160	11231160
11.7	94	142	11201170	11211170	11221170	11231170
11.8	94	142	11201180	11211180	11221180	11231180
11.9	101	151	11201190	11211190	11221190	11231190
12.0	101	151	11201200	11211200	11221200	11231200
12.1	101	151	11201210	11211210	11221210	11231210
12.2	101	151	11201220	11211220	11221220	11231220
12.3	101	151	11201230	11211230	11221230	11231230
12.4	101	151	11201240	11211240	11221240	11231240

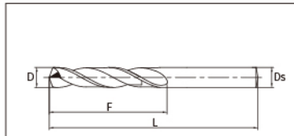
Twist Drills with straight shank, HSS/HSCo-5, jobber length, DIN338

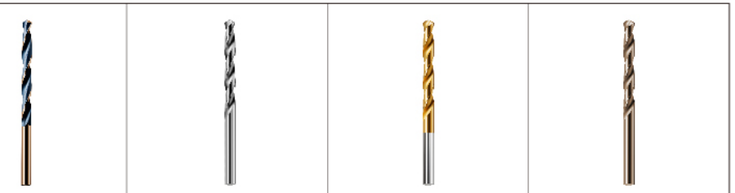




材质	Material		HSS	HSS	HSS	HSCo-5
槽型	Type		N-R.F.	N	N	N
切削方向	Cutting direction		R.H.	R.H.	R.H.	R.H.
修磨横刃	Web thinning		Normal	Form C ⩾1.5mm	Form C ⩾1.5mm	Form C ⩾1.5mm
顶角	Point angle		118°	118°	118°	135°
表面处理	Surface		Black&Brozen	Bright	TiN	Bronze
精度	Tolerance		h8	h8	h8	h8
系列号	List No.		1120	1121	1122	1123
刃径	刃长	全长	SKU	SKU	SKU	SKU
D	F	L				
12.5	101	151	11201250	11211250	11221250	11231250
12.6	101	151	11201260	11211260	11221260	11231260
12.7	101	151	11201270	11211270	11221270	11231270
12.8	101	151	11201280	11211280	11221280	11231280
12.9	101	151	11201290	11211290	11221290	11231290
13.0	101	151	11201300	11211300	11221300	11231300
13.1	101	151	11201310	11211310	11221310	11231310
13.2	101	151	11201320	11211320	11221320	11231320
13.3	108	160	11201330	11211330	11221330	11231330
13.4	108	160	11201340	11211340	11221340	11231340
13.5	108	160	11201350	11211350	11221350	11231350
13.6	108	160	11201360	11211360	11221360	11231360
13.7	108	160	11201370	11211370	11221370	11231370
13.8	108	160	11201380	11211380	11221380	11231380
13.9	108	160	11201390	11211390	11221390	11231390
14.0	108	160	11201400	11211400	11221400	11231400
14.1	114	169	11201410	11211410	11221410	11231410
14.2	114	169	11201420	11211420	11221420	11231420
14.3	114	169	11201430	11211430	11221430	11231430
14.4	114	169	11201440	11211440	11221440	11231440
14.5	114	169	11201450	11211450	11221450	11231450
14.6	114	169	11201460	11211460	11221460	11231460
14.7	114	169	11201470	11211470	11221470	11231470
14.8	114	169	11201480	11211480	11221480	11231480
14.9	114	169	11201490	11211490	11221490	11231490
15.0	114	169	11201500	11211500	11221500	11231500
15.1	120	178	11201510	11211510	11221510	11231510
15.2	120	178	11201520	11211520	11221520	11231520
15.3	120	178	11201530	11211530	11221530	11231530
15.4	120	178	11201540	11211540	11221540	11231540

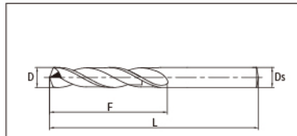
Twist Drills with straight shank, HSS/HSCo-5, jobber length, DIN338

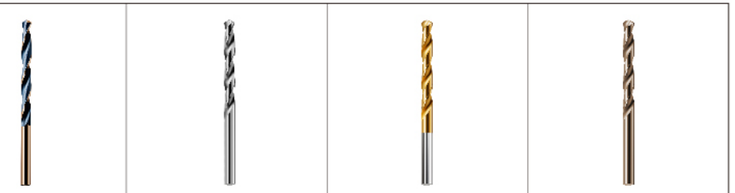




材质	Material		HSS	HSS	HSS	HSCo-5
槽型	Type		N-R.F.	N	N	N
切削方向	Cutting direction		R.H.	R.H.	R.H.	R.H.
修磨横刃	Web thinning		Normal	Form C ⩾1.5mm	Form C ⩾1.5mm	Form C ⩾1.5mm
顶角	Point angle		118°	118°	118°	135°
表面处理	Surface		Black&Brozen	Bright	TiN	Bronze
精度	Tolerance		h8	h8	h8	h8
系列号	List No.		1120	1121	1122	1123
刃径	刃长	全长	SKU	SKU	SKU	SKU
D	F	L				
15.5	120	178	11201550	11211550	11221550	11231550
15.6	120	178	11201560	11211560	11221560	11231560
15.7	120	178	11201570	11211570	11221570	11231570
15.8	120	178	11201580	11211580	11221580	11231580
15.9	120	178	11201590	11211590	11221590	11231590
16.0	120	178	11201600	11211600	11221600	11231600
16.1	125	184	11201610	11211610	11221610	11231610
16.2	125	184	11201620	11211620	11221620	11231620
16.3	125	184	11201630	11211630	11221630	11231630
16.4	125	184	11201640	11211640	11221640	11231640
16.5	125	184	11201650	11211650	11221650	11231650
16.6	125	184	11201660	11211660	11221660	11231660
16.7	125	184	11201670	11211670	11221670	11231670
16.8	125	184	11201680	11211680	11221680	11231680
16.9	125	184	11201690	11211690	11221690	11231690
17.0	125	184	11201700	11211700	11221700	11231700
17.1	130	191	11201710	11211710	11221710	11231710
17.2	130	191	11201720	11211720	11221720	11231720
17.3	130	191	11201730	11211730	11221730	11231730
17.4	130	191	11201740	11211740	11221740	11231740
17.5	130	191	11201750	11211750	11221750	11231750
17.6	130	191	11201760	11211760	11221760	11231760
17.7	130	191	11201770	11211770	11221770	11231770
17.8	130	191	11201780	11211780	11221780	11231780
17.9	130	191	11201790	11211790	11221790	11231790
18.0	130	191	11201800	11211800	11221800	11231800
18.1	135	198	11201810	11211810	11221810	11231810
18.2	135	198	11201820	11211820	11221820	11231820
18.3	135	198	11201830	11211830	11221830	11231830
18.4	135	198	11201840	11211840	11221840	11231840

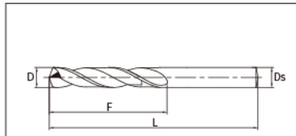
Twist Drills with straight shank, HSS/HSCo-5, jobber length, DIN338





材质	Material		HSS	HSS	HSS	HSCo-5
槽型	Type		N-R.F.	N	N	N
切削方向	Cutting direction		R.H.	R.H.	R.H.	R.H.
修磨横刃	Web thinning		Normal	Form C ⩾1.5mm	Form C ⩾1.5mm	Form C ⩾1.5mm
顶角	Point angle		118°	118°	118°	135°
表面处理	Surface		Black&Brozen	Bright	TiN	Bronze
精度	Tolerance		h8	h8	h8	h8
系列号	List No.		1120	1121	1122	1123
刃径	刃长	全长	SKU	SKU	SKU	SKU
D	F	L				
18.5	135	198	11201850	11211850	11221850	11231850
18.6	135	198	11201860	11211860	11221860	11231860
18.7	135	198	11201870	11211870	11221870	11231870
18.8	135	198	11201880	11211880	11221880	11231880
18.9	135	198	11201890	11211890	11221890	11231890
19.0	135	198	11201900	11211900	11221900	11231900
19.1	140	205	11201910	11211910	11221910	11231910
19.2	140	205	11201920	11211920	11221920	11231920
19.3	140	205	11201930	11211930	11221930	11231930
19.4	140	205	11201940	11211940	11221940	11231940
19.5	140	205	11201950	11211950	11221950	11231950
19.6	140	205	11201960	11211960	11221960	11231960
19.7	140	205	11201970	11211970	11221970	11231970
19.8	140	205	11201980	11211980	11221980	11231980
19.9	140	205	11201990	11211990	11221990	11231990
20.0	140	205	11202000	11212000	11222000	11232000

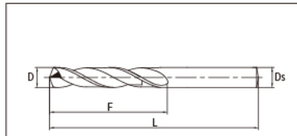
Twist Drills with straight shank, HSS/HSCo-5, jobber length, DIN338





材质	Material		HSS	HSS	HSCo-5
槽型	Type		SN	SN	SN
切削方向	Cutting direction		R.H.	R.H.	R.H.
修磨横刃	Web thinning		Form C	Form C	Form C
顶角	Point angle		130°	130°	130°
表面处理	Surface		Bright	TiN	Bronze
精度	Tolerance		h8	h8	h8
系列号	List No.		1124	1125	1126
刃径	刃长	全长	SKU	SKU	SKU
D	F	L			
2.5	30	57	11240250	11250250	11260250
2.6	30	57	11240260	11250260	11260260
2.7	33	61	11240270	11250270	11260270
2.8	33	61	11240280	11250280	11260280
2.9	33	61	11240290	11250290	11260290
3.0	33	61	11240300	11250300	11260300
3.1	36	65	11240310	11250310	11260310
3.2	36	65	11240320	11250320	11260320
3.3	36	65	11240330	11250330	11260330
3.4	39	70	11240340	11250340	11260340
3.5	39	70	11240350	11250350	11260350
3.6	39	70	11240360	11250360	11260360
3.7	39	70	11240370	11250370	11260370
3.8	43	75	11240380	11250380	11260380
3.9	43	75	11240390	11250390	11260390
4.0	43	75	11240400	11250400	11260400
4.1	43	75	11240410	11250410	11260410
4.2	43	75	11240420	11250420	11260420
4.3	47	80	11240430	11250430	11260430
4.4	47	80	11240440	11250440	11260440
4.5	47	80	11240450	11250450	11260450
4.6	47	80	11240460	11250460	11260460
4.7	47	80	11240470	11250470	11260470
4.8	52	86	11240480	11250480	11260480
4.9	52	86	11240490	11250490	11260490
5.0	52	86	11240500	11250500	11260500
5.1	52	86	11240510	11250510	11260510
5.2	52	86	11240520	11250520	11260520
5.3	52	86	11240530	11250530	11260530
5.4	57	93	11240540	11250540	11260540

Twist Drills with straight shank, HSS/HSCo-5, jobber length, DIN338



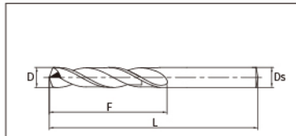






材质	Material		HSS	HSS	HSCo-5
槽型	Type		SN	SN	SN
切削方向	Cutting direction		R.H.	R.H.	R.H.
修磨横刃	Web thinning		Form C	Form C	Form C
顶角	Point angle		130°	130°	130°
表面处理	Surface		Bright	TiN	Bronze
精度	Tolerance		h8	h8	h8
系列号	List No.		1124	1125	1126
刃径	刃长	全长	SKU	SKU	SKU
D	F	L			
5.5	57	93	11240550	11250550	11260550
5.6	57	93	11240560	11250560	11260560
5.7	57	93	11240570	11250570	11260570
5.8	57	93	11240580	11250580	11260580
5.9	57	93	11240590	11250590	11260590
6.0	57	93	11240600	11250600	11260600
6.1	63	101	11240610	11250610	11260610
6.2	63	101	11240620	11250620	11260620
6.3	63	101	11240630	11250630	11260630
6.4	63	101	11240640	11250640	11260640
6.5	63	101	11240650	11250650	11260650
6.6	63	101	11240660	11250660	11260660
6.7	63	101	11240670	11250670	11260670
6.8	69	109	11240680	11250680	11260680
6.9	69	109	11240690	11250690	11260690
7.0	69	109	11240700	11250700	11260700
7.1	69	109	11240710	11250710	11260710
7.2	69	109	11240720	11250720	11260720
7.3	69	109	11240730	11250730	11260730
7.4	69	109	11240740	11250740	11260740
7.5	69	109	11240750	11250750	11260750
7.6	75	117	11240760	11250760	11260760
7.7	75	117	11240770	11250770	11260770
7.8	75	117	11240780	11250780	11260780
7.9	75	117	11240790	11250790	11260790
8.0	75	117	11240800	11250800	11260800
8.1	75	117	11240810	11250810	11260810
8.2	75	117	11240820	11250820	11260820
8.3	75	117	11240830	11250830	11260830
8.4	75	117	11240840	11250840	11260840

Twist Drills with straight shank, HSS/HSCo-5, jobber length, DIN338



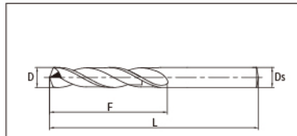






材质	Material		HSS	HSS	HSCo-5
槽型	Type		SN	SN	SN
切削方向	Cutting direction		R.H.	R.H.	R.H.
修磨横刃	Web thinning		Form C	Form C	Form C
顶角	Point angle		130°	130°	130°
表面处理	Surface		Bright	TiN	Bronze
精度	Tolerance		h8	h8	h8
系列号	List No.		1124	1125	1126
刃径	刃长	全长	SKU	SKU	SKU
D	F	L			
8.5	75	117	11240850	11250850	11260850
8.6	81	125	11240860	11250860	11260860
8.7	81	125	11240870	11250870	11260870
8.8	81	125	11240880	11250880	11260880
8.9	81	125	11240890	11250890	11260890
9.0	81	125	11240900	11250900	11260900
9.1	81	125	11240910	11250910	11260910
9.2	81	125	11240920	11250920	11260920
9.3	81	125	11240930	11250930	11260930
9.4	81	125	11240940	11250940	11260940
9.5	81	125	11240950	11250950	11260950
9.6	87	113	11240960	11250960	11260960
9.7	87	113	11240970	11250970	11260970
9.8	87	113	11240980	11250980	11260980
9.9	87	113	11240990	11250990	11260990
10.0	87	113	11241000	11251000	11261000
10.1	87	113	11241010	11251010	11261010
10.2	87	113	11241020	11251020	11261020
10.3	87	113	11241030	11251030	11261030
10.4	87	113	11241040	11251040	11261040
10.5	87	113	11241050	11251050	11261050
10.6	87	113	11241060	11251060	11261060
10.7	94	142	11241070	11251070	11261070
10.8	94	142	11241080	11251080	11261080
10.9	94	142	11241090	11251090	11261090
11.0	94	142	11241100	11251100	11261100
11.1	94	142	11241110	11251110	11261110
11.2	94	142	11241120	11251120	11261120
11.3	94	142	11241130	11251130	11261130
11.4	94	142	11241140	11251140	11261140

Twist Drills with straight shank, HSS/HSCo-5, jobber length, DIN338



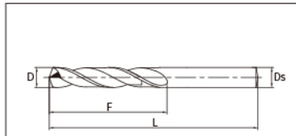






材质		Material	HSS	HSS	HSCo-5
槽型		Type	SN	SN	SN
切削方向		Cutting direction	R.H.	R.H.	R.H.
修磨横刃		Web thinning	Form C	Form C	Form C
顶角		Point angle	130°	130°	130°
表面处理		Surface	Bright	TiN	Bronze
精度		Tolerance	h8	h8	h8
系列号		List No.	1124	1125	1126
刃径	刃长	全长	SKU	SKU	SKU
D	F	L			
11.5	94	142	11241150	11251150	11261150
11.6	94	142	11241160	11251160	11261160
11.7	94	142	11241170	11251170	11261170
11.8	94	142	11241180	11251180	11261180
11.9	101	151	11241190	11251190	11261190
12.0	101	151	11241200	11251200	11261200
12.1	101	151	11241210	11251210	11261210
12.2	101	151	11241220	11251220	11261220
12.3	101	151	11241230	11251230	11261230
12.4	101	151	11241240	11251240	11261240
12.5	101	151	11241250	11251250	11261250
12.6	101	151	11241260	11251260	11261260
12.7	101	151	11241270	11251270	11261270
12.8	101	151	11241280	11251280	11261280
12.9	101	151	11241290	11251290	11261290
13.0	101	151	11241300	11251300	11261300

Twist Drills with straight shank, HSS, long series, DIN340



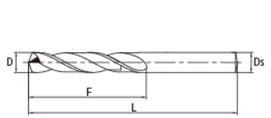






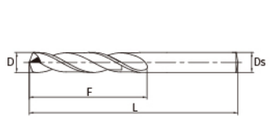
材质		Material	HSS	HSS	HSCo-5
槽型		Type	N	N	N
切削方向		Cutting direction	R.H.	R.H.	R.H.
修磨横刃		Web thinning	Form C ⩾1.5mm	Form C ⩾1.5mm	Form C ⩾1.5mm
顶角		Point angle	118°	118°	135°
表面处理		Surface	Bright	TiN	Bronze
精度		Tolerance	h8	h8	h8
系列号		List No.	1131	1132	1133
刃径	刃长	全长	SKU	SKU	SKU
D	F	L			
1.00	33	56	11310100	11320100	11330100
1.10	37	60	11310110	11320110	11330110
1.20	41	65	11310120	11320120	11330120
1.30	41	65	11310130	11320130	11330130
1.40	45	70	11310140	11320140	11330140
1.50	45	70	11310150	11320150	11330150
1.60	50	76	11310160	11320160	11330160
1.70	50	76	11310170	11320170	11330170
1.80	53	80	11310180	11320180	11330180
1.90	53	80	11310190	11320190	11330190
2.00	56	85	11310200	11320200	11330200
2.10	56	85	11310210	11320210	11330210
2.20	59	90	11310220	11320220	11330220
2.30	59	90	11310230	11320230	11330230
2.40	62	95	11310240	11320240	11330240
2.50	62	95	11311250	11321250	11331250
2.60	62	95	11311260	11321260	11331260
2.70	66	100	11311270	11321270	11331270
2.80	66	100	11311280	11321280	11321280
2.90	66	100	11311290	11321290	11331290
3.00	66	100	11311300	11321300	11331300
3.10	69	106	11311310	11321310	11331310
3.20	69	106	11311320	11321320	11331320
3.30	69	106	11311330	11321330	11331330
3.40	73	112	11311340	11321340	11331340
3.50	73	112	11311350	11321350	11331350
3.60	73	112	11311360	11321360	11331360
3.70	73	112	11311370	11321370	11331370
3.80	78	119	11311380	11321380	11331380
3.90	78	119	11311390	11321390	11331390

Twist Drills with straight shank, HSS, long series, DIN340



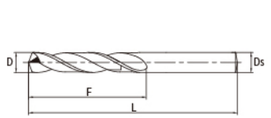
材质	Material		HSS	HSS	HSCo-5
槽型	Type		N	N	N
切削方向	Cutting direction		R.H.	R.H.	R.H.
修磨横刃	Web thinning		Form C ⩾1.5mm	Form C ⩾1.5mm	Form C ⩾1.5mm
顶角	Point angle		118°	118°	135°
表面处理	Surface		Bright	TiN	Bronze
精度	Tolerance		h8	h8	h8
系列号	List No.		1131	1132	1133
刃径	刃长	全长	SKU	SKU	SKU
D	F	L			
4.00	78	119	11310400	11320400	11330400
4.10	78	119	11310410	11320410	11330410
4.20	78	119	11310420	11320420	11330420
4.30	82	126	11310430	11320430	11330430
4.40	82	126	11310440	11320440	11330440
4.50	82	126	11310450	11320450	11330450
4.60	82	126	11310460	11320460	11330460
4.70	82	126	11310470	11320470	11330470
4.80	87	132	11310480	11320480	11330480
4.90	87	132	11310490	11320490	11330490
5.00	87	132	11310500	11320500	11330500
5.10	87	132	11310510	11320510	11330510
5.20	87	132	11310520	11320520	11330520
5.30	87	132	11310530	11320530	11330530
5.40	91	139	11310540	11320540	11330540
5.50	91	139	11311550	11321550	11331550
5.60	91	139	11311560	11321560	11331560
5.70	91	139	11311570	11321570	11331570
5.80	91	139	11311580	11321580	11331580
5.90	91	139	11311590	11321590	11331590
6.00	91	139	11311600	11321600	11331600
6.10	97	148	11311610	11321610	11331610
6.20	97	148	11311620	11321620	11331620
6.30	97	148	11311630	11321630	11331630
6.40	97	148	11311640	11321640	11331640
6.50	97	148	11311650	11321650	11331650
6.60	97	148	11311660	11321660	11331660
6.70	97	148	11311670	11321670	11331670
6.80	102	156	11311680	11321680	11331680
6.90	102	156	11311690	11321690	11331690

Twist Drills with straight shank, HSS, long series, DIN340



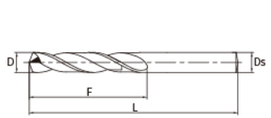
材质	Material		HSS	HSS	HSCo-5
槽型	Type		N	N	N
切削方向	Cutting direction		R.H.	R.H.	R.H.
修磨横刃	Web thinning		Form C ⩾1.5mm	Form C ⩾1.5mm	Form C ⩾1.5mm
顶角	Point angle		118°	118°	135°
表面处理	Surface		Bright	TiN	Bronze
精度	Tolerance		h8	h8	h8
系列号	List No.		1131	1132	1133
刃径	刃长	全长	SKU	SKU	SKU
D	F	L			
7.00	102	156	11310700	11320700	11330700
7.10	102	156	11310710	11320710	11330710
7.20	102	156	11310720	11320720	11330720
7.30	102	156	11310730	11320730	11330730
7.40	102	156	11310740	11320740	11330740
7.50	102	156	11310750	11320750	11330750
7.60	109	165	11310760	11320760	11330760
7.70	109	165	11310770	11320770	11330770
7.80	109	165	11310780	11320780	11330780
7.90	109	165	11310790	11320790	11330790
8.00	109	165	11310800	11320800	11330800
8.10	109	165	11310810	11320810	11330810
8.20	109	165	11310820	11320820	11330820
8.30	109	165	11310830	11320830	11330830
8.40	109	165	11310840	11320840	11330840
8.50	109	165	11311850	11321850	11331850
8.60	115	175	11311860	11321860	11331860
8.70	115	175	11311870	11321870	11331870
8.80	115	175	11311880	11321880	11331880
8.90	115	175	11311890	11321890	11331890
9.00	115	175	11311900	11321900	11331900
9.10	115	175	11311910	11321910	11331910
9.20	115	175	11311920	11321920	11331920
9.30	115	175	11311930	11321930	11331930
9.40	115	175	11311940	11321940	11331940
9.50	115	175	11311950	11321950	11331950
9.60	121	184	11311960	11321960	11331960
9.70	121	184	11311970	11321970	11331970
9.80	121	184	11311980	11321980	11331980
9.90	121	184	11311990	11321990	11331990

Twist Drills with straight shank, HSS, long series, DIN340



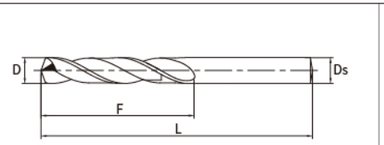
材质	Material		HSS	HSS	HSCo-5
槽型	Type		N	N	N
切削方向	Cutting direction		R.H.	R.H.	R.H.
修磨横刃	Web thinning		Form C ⩾1.5mm	Form C ⩾1.5mm	Form C ⩾1.5mm
顶角	Point angle		118°	118°	135°
表面处理	Surface		Bright	TiN	Bronze
精度	Tolerance		h8	h8	h8
系列号	List No.		1131	1132	1133
刃径	刃长	全长	SKU	SKU	SKU
D	F	L			
10.00	121	184	11311000	11321000	11331000
10.10	121	184	11311010	11321010	11331010
10.20	121	184	11311020	11321020	11331020
10.30	121	184	11311030	11321030	11331030
10.40	121	184	11311040	11321040	11331040
10.50	121	184	11311050	11321050	11331050
10.60	121	184	11311060	11321060	11331060
10.70	128	195	11311070	11321070	11331070
10.80	128	195	11311080	11321080	11331080
10.90	128	195	11311090	11321090	11331090
11.00	128	195	11311100	11321100	11331100
11.10	128	195	11311110	11321110	11331110
11.20	128	195	11311120	11321120	11331120
11.30	128	195	11311130	11321130	11331130
11.40	128	195	11311140	11321140	11331140
11.50	128	195	11311150	11321150	11331150
11.60	128	195	11311160	11321160	11331160
11.70	128	195	11311170	11321170	11331170
11.80	128	195	11311180	11321180	11331180
11.90	134	205	11311190	11321190	11331190
12.00	134	205	11311200	11321200	11331200
12.10	134	205	11311210	11321210	11331210
12.20	134	205	11311220	11321220	11331220
12.30	134	205	11311230	11321230	11331230
12.40	134	205	11311240	11321240	11331240
12.50	134	205	11311250	11321250	11331250
12.60	134	205	11311260	11321260	11331260
12.70	134	205	11311270	11321270	11331270
12.80	134	205	11311280	11321280	11331280
12.90	134	205	11311290	11321290	11331290

Twist Drills with straight shank, HSS, long series, DIN340



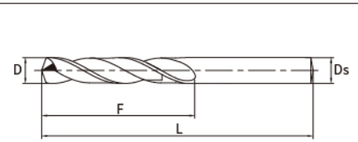
材质	Material		HSS	HSS	HSCo-5
槽型	Type		N	N	N
切削方向	Cutting direction		R.H.	R.H.	R.H.
修磨横刃	Web thinning		Form C ⩾1.5mm	Form C ⩾1.5mm	Form C ⩾1.5mm
顶角	Point angle		118°	118°	135°
表面处理	Surface		Bright	TiN	Bronze
精度	Tolerance		h8	h8	h8
系列号	List No.		1131	1132	1133
刃径	刃长	全长	SKU	SKU	SKU
D	F	L			
13.00	134	205	11311300	11321300	11331300
13.25	134	205	11311325	11321325	11331325
13.50	140	214	11311350	11321350	11331350
13.75	140	214	11311375	11321375	11331375
14.00	140	214	11311400	11321400	11331400
14.25	144	220	11311425	11321425	11331425
14.50	144	220	11311450	11321450	11331450
14.75	144	220	11311475	11321475	11331475
15.00	144	220	11311500	11321500	11331500
15.25	149	227	11311525	11321525	11331525
15.50	149	227	11311550	11321550	11331550
15.75	149	227	11311575	11321575	11331575
16.00	149	227	11311600	11321600	11331600
16.25	154	235	11311625	11321625	11331625
16.50	154	235	11311650	11321650	11331650
16.75	154	235	11311675	11321675	11331675
17.00	154	235	11311700	11321700	11331700
17.25	158	241	11311725	11321725	11331725
17.50	158	241	11311750	11321750	11331750
17.75	158	241	11311775	11321775	11331775
18.00	158	241	11311800	11321800	11331800
18.25	162	247	11311825	11321825	11331825
18.50	162	247	11311850	11321850	11331850
18.75	162	247	11311875	11321875	11331875
19.00	162	247	11311900	11321900	11331900
19.25	166	254	11311925	11321925	11331925
19.50	166	254	11311950	11321950	11331950
19.75	166	254	11311975	11321975	11331975
20.00	166	254	11312000	11322000	11332000

Twist Drills with taper shank, HSS/HSCo-5, DIN345



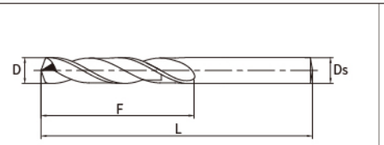
材质		Material		HSS	HSCo-5
槽型		Type		N	N
切削方向		Cutting direction		R.H.	R.H.
修磨横刃		Web thinning		Normal	Normal
顶角		Point angle		118°	118°
表面处理		Surface		Bright	Bronze
精度		Tolerance		h8	h8
系列号		List No.		1301	1302
刃径	刃长	全长	莫氏锥柄	SKU	SKU
D	F	L	MT		
10.00	87	168	1#	13011000	13021000
10.20	87	168	1#	13011020	13021020
10.50	87	168	1#	13011050	13021050
10.80	94	175	1#	13011080	13021080
11.00	94	175	1#	13011100	13021100
11.20	94	175	1#	13011120	13021120
11.50	94	175	1#	13011150	13021150
11.80	94	175	1#	13011180	13021180
12.00	101	182	1#	13011200	13021200
12.20	101	182	1#	13011220	13021220
12.50	101	182	1#	13011250	13021250
12.80	101	182	1#	13011280	13021280
13.00	101	182	1#	13011300	13021300
13.20	101	182	1#	13011320	13021320
13.50	108	189	1#	13011350	13021350
13.80	108	189	1#	13011380	13021380
14.00	108	189	1#	13011400	13021400
14.25	114	212	2#	13011425	13021425
14.50	114	212	2#	13011450	13021450
14.75	114	212	2#	13011475	13021475
15.00	114	212	2#	13011500	13021500
15.25	120	218	2#	13011525	13021525
15.40	120	218	2#	13011540	13021540
15.50	120	218	2#	13011550	13021550
15.75	120	218	2#	13011575	13021575
16.00	120	218	2#	13011600	13021600
16.25	125	223	2#	13011625	13021625
16.50	125	223	2#	13011650	13021650
16.75	125	223	2#	13011675	13021675
17.00	125	223	2#	13011700	13021700

Twist Drills with taper shank, HSS/HSCo-5, DIN345



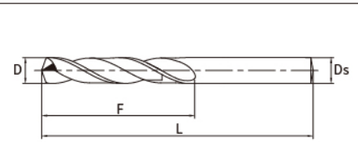
材质		Material		HSS	HSCo-5
槽型		Type		N	N
切削方向		Cutting direction		R.H.	R.H.
修磨横刃		Web thinning		Normal	Normal
顶角		Point angle		118°	118°
表面处理		Surface		Bright	Bronze
精度		Tolerance		h8	h8
系列号		List No.		1301	1302
刃径	刃长	全长	莫氏锥柄	SKU	SKU
D	F	L	MT		
17.25	130	228	2#	13011725	13021725
17.40	130	228	2#	13011740	13021740
17.50	130	228	2#	13011750	13021750
17.75	130	228	2#	13011775	13021775
18.00	130	228	2#	13011800	13021800
18.25	135	233	2#	13011825	13021825
18.50	135	233	2#	13011850	13021850
18.75	135	233	2#	13011875	13021875
19.00	135	233	2#	13011900	13021900
19.25	140	238	2#	13011925	13021925
19.40	140	238	2#	13011940	13021940
19.50	140	238	2#	13011950	13021950
19.75	140	238	2#	13011975	13021975
20.00	140	238	2#	13012000	13022000
20.25	145	243	2#	13012025	13022025
20.50	145	243	2#	13012050	13022050
20.75	145	243	2#	13012075	13022075
21.00	145	243	2#	13012100	13022100
21.25	150	248	2#	13012125	13022125
21.50	150	248	2#	13012150	13022150
21.75	150	248	2#	13012175	13022175
22.00	150	248	2#	13012200	13022200
22.25	150	248	2#	13012225	13022225
22.50	155	253	2#	13012250	13022250
22.75	155	253	2#	13012275	13022275
23.00	155	253	2#	13012300	13022300
23.25	155	276	3#	13012325	13022325
23.50	155	276	3#	13012350	13022350
23.75	160	281	3#	13012375	13022375
24.00	160	281	3#	13012400	13022400

Twist Drills with taper shank, HSS/HSCo-5, DIN345



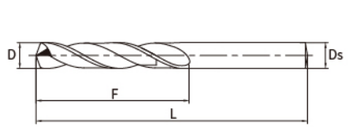
材质		Material		HSS	HSCo-5
槽型		Type		N	N
切削方向		Cutting direction		R.H.	R.H.
修磨横刃		Web thinning		Normal	Normal
顶角		Point angle		118°	118°
表面处理		Surface		Bright	Bronze
精度		Tolerance		h8	h8
系列号		List No.		1301	1302
刃径	刃长	全长	莫氏锥柄	SKU	SKU
D	F	L	MT		
24.25	160	281	3#	13012425	13022425
24.50	160	281	3#	13012450	13022450
24.75	160	281	3#	13012475	13022475
25.00	160	281	3#	13012500	13022500
25.25	165	286	3#	13012525	13022525
25.50	165	286	3#	13012550	13022550
25.75	165	286	3#	13012575	13022575
26.00	165	286	3#	13012600	13022600
26.25	165	286	3#	13012625	13022625
26.50	165	286	3#	13012650	13022650
26.75	170	291	3#	13012675	13022675
27.00	170	291	3#	13012700	13022700
27.25	170	291	3#	13012725	13022725
27.50	170	291	3#	13012750	13022750
27.75	170	291	3#	13012775	13022775
28.00	170	291	3#	13012800	13022800
28.25	175	296	3#	13012825	13022825
28.50	175	296	3#	13012850	13022850
28.75	175	296	3#	13012875	13022875
29.00	175	296	3#	13012900	13022900
29.25	175	296	3#	13012925	13022925
29.50	175	296	3#	13012950	13022950
29.75	175	296	3#	13012975	13022975
30.00	175	296	3#	13013000	13023000
30.25	180	301	3#	13013025	13023025
30.50	180	301	3#	13013050	13023050
30.75	180	301	3#	13013075	13023075
31.00	180	301	3#	13013100	13023100
31.25	180	301	3#	13013125	13023125
31.50	180	301	3#	13013150	13023150

Twist Drills with taper shank, HSS/HSCo-5, DIN345



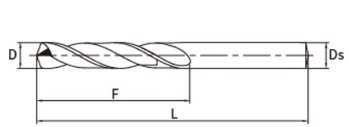
材质		Material		HSS	HSCo-5
槽型		Type		N	N
切削方向		Cutting direction		R.H.	R.H.
修磨横刃		Web thinning		Normal	Normal
顶角		Point angle		118°	118°
表面处理		Surface		Bright	Bronze
精度		Tolerance		h8	h8
系列号		List No.		1301	1302
刃径	刃长	全长	莫氏锥柄	SKU	SKU
D	F	L	MT		
31.75	185	306	3#	13013175	13023175
32.00	185	334	4#	13013200	13023200
32.50	185	334	4#	13013250	13023250
33.00	185	334	4#	13013300	13023300
33.50	185	334	4#	13013350	13023350
34.00	190	339	4#	13013400	13023400
34.50	190	339	4#	13013450	13023450
35.00	190	339	4#	13013500	13023500
35.50	190	339	4#	13013550	13023550
36.00	195	344	4#	13013600	13023600
36.50	195	344	4#	13013650	13023650
37.00	195	344	4#	13013700	13023700
37.50	195	344	4#	13013750	13023750
38.00	200	349	4#	13013800	13023800
38.50	200	349	4#	13013850	13023850
39.00	200	349	4#	13013900	13023900
39.50	200	349	4#	13013950	13023950
40.00	200	349	4#	13014000	13024000
40.50	205	354	4#	13014050	13024050
41.00	205	354	4#	13014100	13024100
41.50	205	354	4#	13014150	13024150
42.00	205	354	4#	13014200	13024200
42.50	205	354	4#	13014250	13024250
43.00	210	359	4#	13014300	13024300
43.50	210	359	4#	13014350	13024350
44.00	210	359	4#	13014400	13024400
44.50	210	359	4#	13014450	13024450
45.00	210	359	4#	13014500	13024500
45.50	215	364	4#	13014550	13024550
46.00	215	364	4#	13014600	13024600

Twist Drills with taper shank, HSS/HSCo-5, DIN345



材质		Material		HSS	HSCo-5
槽型		Type		N	N
切削方向		Cutting direction		R.H.	R.H.
修磨横刃		Web thinning		Normal	Normal
顶角		Point angle		118°	118°
表面处理		Surface		Bright	Bronze
精度		Tolerance		h8	h8
系列号		List No.		1301	1302
刃径	刃长	全长	莫氏锥柄	SKU	SKU
D	F	L	MT		
46.50	215	364	4#	13014650	13024650
47.00	215	364	4#	13014700	13024700
47.50	215	364	4#	13014750	13024750
48.00	220	369	4#	13014800	13024800
48.50	220	369	4#	13014850	13024850
49.00	220	369	4#	13014900	13024900
49.50	220	369	4#	13014950	13024950
50.00	220	369	4#	13015000	13025000
50.50	225	412	4#	13015050	13025050
51.00	225	412	5#	13015100	13025100
52.00	225	412	5#	13015200	13025200
53.00	225	412	5#	13015300	13025300
54.00	230	417	5#	13015400	13025400
55.00	230	417	5#	13015500	13025500
56.00	230	417	5#	13015600	13025600
57.00	235	422	5#	13015700	13025700
58.00	235	422	5#	13015800	13025800
59.00	235	422	5#	13015900	13025900
60.00	235	422	5#	13016000	13026000
61.00	240	427	5#	13016100	13026100
62.00	240	427	5#	13016200	13026200
63.00	240	427	5#	13016300	13026300
64.00	245	432	5#	13016400	13026400
65.00	245	432	5#	13016500	13026500
66.00	245	432	5#	13016600	13026600
67.00	245	432	5#	13016700	13026700
68.00	250	437	5#	13016800	13026800
69.00	250	437	5#	13016900	13026900
70.00	250	437	5#	13017000	13027000
71.00	250	437	5#	13017100	13027100

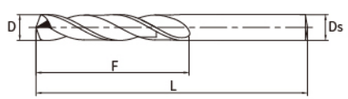
Twist Drills with taper shank, HSS/HSCo-5, DIN345



材质		Material		HSS	HSCo-5
槽型		Type		N	N
切削方向		Cutting direction		R.H.	R.H.
修磨横刃		Web thinning		Normal	Normal
顶角		Point angle		118°	118°
表面处理		Surface		Bright	Bronze
精度		Tolerance		h8	h8
系列号		List No.		1301	1302
刃径	刃长	全长	莫氏锥柄	SKU	SKU
D	F	L	MT		
72.00	255	442	5#	13017200	13027200
73.00	255	442	5#	13017300	13027300
74.00	255	442	5#	13017400	13027400
75.00	255	442	5#	13017500	13027500

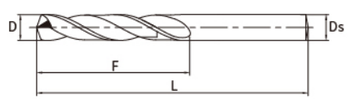
* D≤25.0mm, F.G.; D>25.0mm, Milling.;

Twist Drills with HEX shank, HSS/HSCo-5, Factory Standard



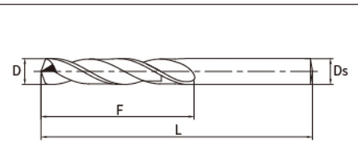
材质		Material		HSS	HSCo-5
槽型		Type		VA	VA
切削方向		Cutting direction		R.H.	R.H.
修磨横刃		Web thinning		Form C	Form C
顶角		Point angle		135°	135°
表面处理		Surface		TiN	Bronze
精度		Tolerance		h8	h8
系列号		List No.		1201	1202
刃径	刃长	全长	柄径	SKU	SKU
D	F	L	Ds		
2.0	15	52	6.35	12010200	12020200
2.5	20	58	6.35	12010250	12020250
3.0	31	68	6.35	12010300	12020300
3.2	35	71	6.35	12010320	12020320
3.3	38	74	6.35	12010330	12020330
3.4	38	74	6.35	12010340	12020340
3.5	38	74	6.35	12010350	12020350
3.8	43	77	6.35	12010380	12020380
4.0	45	80	6.35	12010400	12020400
4.2	48	84	6.35	12010420	12020420
4.5	48	87	6.35	12010450	12020450
4.8	52	91	6.35	12010480	12020480
5.0	54	94	6.35	12010500	12020500
5.2	54	97	6.35	12010520	12020520
5.5	54	97	6.35	12010550	12020550
6.0	58	100	6.35	12010600	12020600
6.5	61	104	6.35	12010650	12020650
6.8	65	107	6.35	12010680	12020680
7.0	67	110	6.35	12010700	12020700
7.5	71	113	6.35	12010750	12020750
8.0	74	116	6.35	12010800	12020800
8.5	81	124	6.35	12010850	12020850
9.0	83	127	6.35	12010900	12020900
9.5	87	130	6.35	12010950	12020950
10.0	90	133	6.35	12011000	12021000
10.5	97	140	6.35	12011050	12021050
11.0	100	143	6.35	12011100	12021100
11.5	103	146	6.35	12011150	12021150
12.0	108	150	6.35	12011200	12021200
12.5	109	153	6.35	12011250	12021250
13.0	112	156	6.35	12011300	12021300

Twist Drills with straight shank, 6”Aircraft Extension, HSS, ASME



材质		Material		HSS
槽型		Type		N
切削方向		Cutting direction		R.H.
修磨横刃		Web thinning		Form C
顶角		Point angle		118°
表面处理		Surface		Black
精度		Tolerance		h8
系列号		List No.		1140
刃径	刃长	全长	柄径	SKU
D	F	L	Ds	
1/8	41	152	1/8	11400108
9/64	44	152	9/64	11400964
5/32	51	152	5/32	11400532
11/64	54	152	11/64	11401164
3/16	59	152	3/16	11400316
13/64	62	152	13/64	11401364
7/32	64	152	7/32	11400732
15/64	67	152	15/64	11401564
1/4	70	152	1/4	11400104
17/64	73	152	17/64	11401764
9/32	75	152	9/32	11400932
19/64	78	152	19/64	11401964
5/16	81	152	5/16	11400516
21/64	84	152	21/64	11402164
11/32	87	152	11/32	11402164
23/64	89	152	23/64	11402364
3/8	92	152	3/8	11400308
25/64	95	152	25/64	11402564
13/32	98	152	13/32	11401332
27/64	100	152	27/64	11402764
7/16	103	152	7/16	11400716
29/64	106	152	29/64	11402964
15/32	110	152	15/32	11401532
31/64	111	152	31/64	11403164
1/2	114	152	1/2	11400102

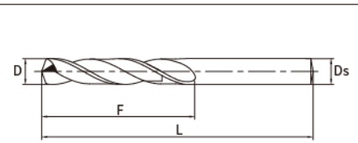
Twist Drills with reduced shank, HSS/HSCo-5, ASME





材质		Material		HSS	HSCo-5
槽型		Type		N	N
切削方向		Cutting direction		R.H.	R.H.
修磨横刃		Web thinning		Normal	Form C
顶角		Point angle		118°	135°
表面处理		Surface		Black	Bronze
精度		Tolerance		h8	h8
系列号		List No.		1401	1402
刃径	刃长	全长	柄径	SKU	SKU
D	F	L	Ds		
13.0	80	152	12.7	14011300	14021300
13.5	80	152	12.7	14011350	14021350
14.0	80	152	12.7	14011400	14021400
14.5	80	152	12.7	14011450	14021450
15.0	80	152	12.7	14011500	14021500
15.5	80	152	12.7	14011550	14021550
16.0	80	152	12.7	14011600	14021600
16.5	80	152	12.7	14011650	14021650
17.0	80	152	12.7	14011700	14021700
17.5	80	152	12.7	14011750	14021750
18.0	80	152	12.7	14011800	14021800
18.5	80	152	12.7	14011850	14021850
19.0	80	152	12.7	14011900	14021900
19.5	80	152	12.7	14011950	14021950
20.0	80	152	12.7	14012000	14022000
20.5	80	152	12.7	14012050	14022050
21.0	80	152	12.7	14012100	14022100
21.5	80	152	12.7	14012150	14022150
22.0	80	152	12.7	14012200	14022200
22.5	80	152	12.7	14012250	14022250
23.0	80	152	12.7	14012300	14022300
23.5	80	152	12.7	14012350	14022350
24.0	80	152	12.7	14012400	14022400
24.5	80	152	12.7	14012450	14022450
25.0	80	152	12.7	14012500	14022500
25.5	80	152	12.7	14012550	14022550
26.0	80	152	12.7	14012600	14022600
26.5	80	152	12.7	14012650	14022650
27.0	80	152	12.7	14012700	14022700
27.5	80	152	12.7	14012750	14022750

Twist Drills with reduced shank, HSS/HSCo-5, ASME

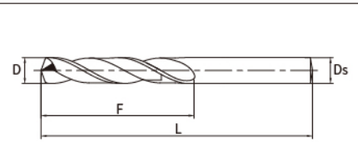




材质		Material		HSS	HSCo-5
槽型		Type		N	N
切削方向		Cutting direction		R.H.	R.H.
修磨横刃		Web thinning		Normal	Form C
顶角		Point angle		118°	135°
表面处理		Surface		Black	Bronze
精度		Tolerance		h8	h8
系列号		List No.		1401	1402
刃径	刃长	全长	柄径	SKU	SKU
D	F	L	Ds		
28.0	80	152	12.7	14012800	14022800
28.5	80	152	12.7	14012850	14022850
29.0	80	152	12.7	14012900	14022900
29.5	80	152	12.7	14012950	14022950
30.0	80	152	12.7	14013000	14023000

* D≤23.0mm, F.G.; D>23.0mm, Milling.;

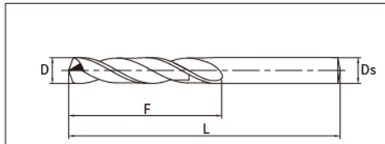
Twist Drills with straight shank, HSS/HSCo-5, extra long series, Factory standard



材质	Material	HSS	HSCo-5
槽型	Type	N	N
切削方向	Cutting direction	R.H.	R.H.
修磨横刃	Web thinning	Form C	Form C
顶角	Point angle	118°	135°
表面处理	Surface	Bright	Bronze
精度	Tolerance	h8	h8
系列号	List No.	1151	1155

刃径	刃长	全长	柄径	SKU	SKU
D	F	L	Ds		
3.0	100	150	3.0	11510300	11550300
3.1	100	150	3.1	11510310	11550310
3.2	100	150	3.2	11510320	11550320
3.3	100	150	3.3	11510330	11550330
3.4	100	150	3.4	11510340	11550340
3.5	100	150	3.5	11510350	11550350
3.6	100	150	3.6	11510360	11550360
3.7	100	150	3.7	11510370	11550370
3.8	100	150	3.8	11510380	11550380
3.9	100	150	3.9	11510390	11550390
4.0	100	150	4.0	11510400	11550400
4.1	100	150	4.1	11510410	11550410
4.2	100	150	4.2	11510420	11550420
4.3	100	150	4.3	11510430	11550430
4.4	100	150	4.4	11510440	11550440
4.5	100	150	4.5	11510450	11550450
4.6	100	150	4.6	11510460	11550460
4.7	100	150	4.7	11510470	11550470
4.8	100	150	4.8	11510480	11550480
4.9	100	150	4.9	11510490	11550490
5.0	100	150	5.0	11510500	11550500
5.1	100	150	5.1	11510510	11550510
5.2	100	150	5.2	11510520	11550520
5.3	100	150	5.3	11510530	11550530
5.4	100	150	5.4	11510540	11550540
5.5	100	150	5.5	11510550	11550550
5.6	100	150	5.6	11510560	11550560
5.7	100	150	5.7	11510570	11550570
5.8	100	150	5.8	11510580	11550580
5.9	100	150	5.9	11510590	11550590

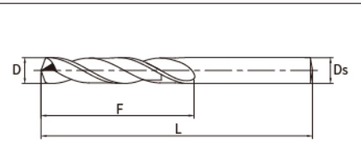
Twist Drills with straight shank, HSS/HSCo-5, extra long series, Factory standard



材质	Material	HSS	HSCo-5
槽型	Type	N	N
切削方向	Cutting direction	R.H.	R.H.
修磨横刃	Web thinning	Form C	Form C
顶角	Point angle	118°	135°
表面处理	Surface	Bright	Bronze
精度	Tolerance	h8	h8
系列号	List No.	1151	1155

刃径	刃长	全长	柄径	SKU	SKU
D	F	L	Ds		
6.0	100	150	6.0	11510600	11550600
6.1	100	150	6.1	11510610	11550610
6.2	100	150	6.2	11510620	11550620
6.3	100	150	6.3	11510630	11550630
6.4	100	150	6.4	11510640	11550640
6.5	100	150	6.5	11510650	11550650
6.6	100	150	6.6	11510660	11550660
6.7	100	150	6.7	11510670	11550670
6.8	100	150	6.8	11510680	11550680
6.9	100	150	6.9	11510690	11550690
7.0	100	150	7.0	11510700	11550700
7.1	100	150	7.1	11510710	11550710
7.2	100	150	7.2	11510720	11550720
7.3	100	150	7.3	11510730	11550730
7.4	100	150	7.4	11510740	11550740
7.5	100	150	7.5	11510750	11550750
7.6	100	150	7.6	11510760	11550760
7.7	100	150	7.7	11510770	11550770
7.8	100	150	7.8	11510780	11550780
7.9	100	150	7.9	11510790	11550790
8.0	100	150	8.0	11510800	11550800
8.1	100	150	8.1	11510810	11550810
8.2	100	150	8.2	11510820	11550820
8.3	100	150	8.3	11510830	11550830
8.4	100	150	8.4	11510840	11550840
8.5	100	150	8.5	11510850	11550850
8.6	100	150	8.6	11510860	11550860
8.7	100	150	8.7	11510870	11550870
8.8	100	150	8.8	11510880	11550880
8.9	100	150	8.9	11510890	11550890

Twist Drills with straight shank, HSS/HSCo-5, extra long series, Factory standard

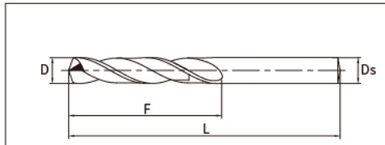






材质		Material		HSS	HSCo-5
槽型		Type		N	N
切削方向		Cutting direction		R.H.	R.H.
修磨横刃		Web thinning		Form C	Form C
顶角		Point angle		118°	135°
表面处理		Surface		Bright	Bronze
精度		Tolerance		h8	h8
系列号		List No.		1151	1155
刃径	刃长	全长	柄径	SKU	SKU
D	F	L	Ds		
9.0	100	150	9.0	11510900	11550900
9.1	100	150	9.1	11510910	11550910
9.2	100	150	9.2	11510920	11550920
9.3	100	150	9.3	11510930	11550930
9.4	100	150	9.4	11510940	11550940
9.5	100	150	9.5	11510950	11550950
9.6	100	150	9.6	11510960	11550960
9.7	100	150	9.7	11510970	11550970
9.8	100	150	9.8	11510980	11550980
9.9	100	150	9.9	11510990	11550990
10.0	100	150	10.0	11511000	11551000
10.1	100	150	10.1	11511010	11551010
10.2	100	150	10.2	11511020	11551020
10.3	100	150	10.3	11511030	11551030
10.4	100	150	10.4	11511040	11551040
10.5	100	150	10.5	11511050	11551050
10.6	100	150	10.6	11511060	11551060
10.7	100	150	10.7	11511070	11551070
10.8	100	150	10.8	11511080	11551080
10.9	100	150	10.9	11511090	11551090
11.0	100	150	11.0	11511100	11551100
11.1	100	150	11.1	11511110	11551110
11.2	100	150	11.2	11511120	11551120
11.3	100	150	11.3	11511130	11551130
11.4	100	150	11.4	11511140	11551140
11.5	100	150	11.5	11511150	11551150
11.6	100	150	11.6	11511160	11551160
11.7	100	150	11.7	11511170	11551170
11.8	100	150	11.8	11511180	11551180
11.9	100	150	11.9	11511190	11551190

Twist Drills with straight shank, HSS/HSCo-5, extra long series, Factory standard

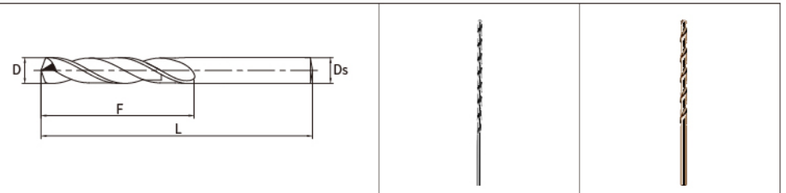






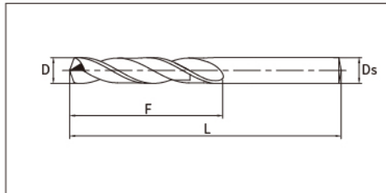
材质		Material		HSS	HSCo-5
槽型		Type		N	N
切削方向		Cutting direction		R.H.	R.H.
修磨横刃		Web thinning		Form C	Form C
顶角		Point angle		118°	135°
表面处理		Surface		Bright	Bronze
精度		Tolerance		h8	h8
系列号		List No.		1151	1155
刃径	刃长	全长	柄径	SKU	SKU
D	F	L	Ds		
12.0	100	150	12.0	11511200	11551200
12.1	100	150	12.1	11511210	11551210
12.2	100	150	12.2	11511220	11551220
12.3	100	150	12.3	11511230	11551230
12.4	100	150	12.4	11511240	11551240
12.5	100	150	12.5	11511250	11551250
12.6	100	150	12.6	11511260	11551260
12.7	100	150	12.7	11511270	11551270
12.8	100	150	12.8	11511280	11551280
12.9	100	150	12.9	11511290	11551290
13.0	100	150	13.0	11511300	11551300

Twist Drills with straight shank, HSS/HSCo-5, extra long series, Factory standard



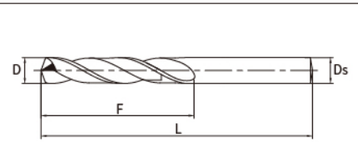
材质	Material			HSS	HSCo-5
槽型	Type			N	N
切削方向	Cutting direction			R.H.	R.H.
修磨横刃	Web thinning			Form C	Form C
顶角	Point angle			118°	135°
表面处理	Surface			Bright	Bronze
精度	Tolerance			h8	h8
系列号	List No.			1152	1156
刃径	刃长	全长	柄径	SKU	SKU
D	F	L	Ds		
3.0	140	200	3.0	11520300	11550300
3.1	140	200	3.1	11520310	11550310
3.2	140	200	3.2	11520320	11550320
3.3	140	200	3.3	11520330	11550330
3.4	140	200	3.4	11520340	11550340
3.5	140	200	3.5	11520350	11550350
3.6	140	200	3.6	11520360	11550360
3.7	140	200	3.7	11520370	11550370
3.8	140	200	3.8	11520380	11550380
3.9	140	200	3.9	11520390	11550390
4.0	140	200	4.0	11520400	11550400
4.1	140	200	4.1	11520410	11550410
4.2	140	200	4.2	11520420	11550420
4.3	140	200	4.3	11520430	11550430
4.4	140	200	4.4	11520440	11550440
4.5	140	200	4.5	11520450	11550450
4.6	140	200	4.6	11520460	11550460
4.7	140	200	4.7	11520470	11550470
4.8	140	200	4.8	11520480	11550480
4.9	140	200	4.9	11520490	11550490
5.0	140	200	5.0	11520500	11550500
5.1	140	200	5.1	11520510	11550510
5.2	140	200	5.2	11520520	11550520
5.3	140	200	5.3	11520530	11550530
5.4	140	200	5.4	11520540	11550540
5.5	140	200	5.5	11520550	11550550
5.6	140	200	5.6	11520560	11550560
5.7	140	200	5.7	11520570	11550570
5.8	140	200	5.8	11520580	11550580
5.9	140	200	5.9	11520590	11550590

Twist Drills with straight shank, HSS/HSCo-5, extra long series, Factory standard



材质	Material			HSS	HSCo-5
槽型	Type			N	N
切削方向	Cutting direction			R.H.	R.H.
修磨横刃	Web thinning			Form C	Form C
顶角	Point angle			118°	135°
表面处理	Surface			Bright	Bronze
精度	Tolerance			h8	h8
系列号	List No.			1152	1156
刃径	刃长	全长	柄径	SKU	SKU
D	F	L	Ds		
6.0	140	200	6.0	11520600	11560600
6.1	140	200	6.1	11520610	11560610
6.2	140	200	6.2	11520620	11560620
6.3	140	200	6.3	11520630	11560630
6.4	140	200	6.4	11520640	11560640
6.5	140	200	6.5	11520650	11560650
6.6	140	200	6.6	11520660	11560660
6.7	140	200	6.7	11520670	11560670
6.8	140	200	6.8	11520680	11560680
6.9	140	200	6.9	11520690	11560690
7.0	140	200	7.0	11520700	11560700
7.1	140	200	7.1	11520710	11560710
7.2	140	200	7.2	11520720	11560720
7.3	140	200	7.3	11520730	11560730
7.4	140	200	7.4	11520740	11560740
7.5	140	200	7.5	11520750	11560750
7.6	140	200	7.6	11520760	11560760
7.7	140	200	7.7	11520770	11560770
7.8	140	200	7.8	11520780	11560780
7.9	140	200	7.9	11520790	11560790
8.0	140	200	8.0	11520800	11560800
8.1	140	200	8.1	11520810	11560810
8.2	140	200	8.2	11520820	11560820
8.3	140	200	8.3	11520830	11560830
8.4	140	200	8.4	11520840	11560840
8.5	140	200	8.5	11520850	11560850
8.6	140	200	8.6	11520860	11560860
8.7	140	200	8.7	11520870	11560870
8.8	140	200	8.8	11520880	11560880
8.9	140	200	8.9	11520890	11560890

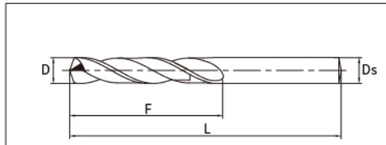
Twist Drills with straight shank, HSS/HSCo-5, extra long series, Factory standard



材质	Material	HSS	HSCo-5
槽型	Type	N	N
切削方向	Cutting direction	R.H.	R.H.
修磨横刃	Web thinning	Form C	Form C
顶角	Point angle	118°	135°
表面处理	Surface	Bright	Bronze
精度	Tolerance	h8	h8
系列号	List No.	1152	1156

刃径	刃长	全长	柄径	SKU	SKU
D	F	L	Ds		
9.0	140	200	9.0	11520900	11560900
9.1	140	200	9.1	11520910	11560910
9.2	140	200	9.2	11520920	11560920
9.3	140	200	9.3	11520930	11560930
9.4	140	200	9.4	11520940	11560940
9.5	140	200	9.5	11520950	11560950
9.6	140	200	9.6	11520960	11560960
9.7	140	200	9.7	11520970	11560970
9.8	140	200	9.8	11520980	11560980
9.9	140	200	9.9	11520990	11560990
10.0	140	200	10.0	11521000	11561000
10.1	140	200	10.1	11521010	11561010
10.2	140	200	10.2	11521020	11561020
10.3	140	200	10.3	11521030	11561030
10.4	140	200	10.4	11521040	11561040
10.5	140	200	10.5	11521050	11561050
10.6	140	200	10.6	11521060	11561060
10.7	140	200	10.7	11521070	11561070
10.8	140	200	10.8	11521080	11561080
10.9	140	200	10.9	11521090	11561090
11.0	140	200	11.0	11521100	11561100
11.1	140	200	11.1	11521110	11561110
11.2	140	200	11.2	11521120	11561120
11.3	140	200	11.3	11521130	11561130
11.4	140	200	11.4	11521140	11561140
11.5	140	200	11.5	11521150	11561150
11.6	140	200	11.6	11521160	11561160
11.7	140	200	11.7	11521170	11561170
11.8	140	200	11.8	11521180	11561180
11.9	140	200	11.9	11521190	11561190

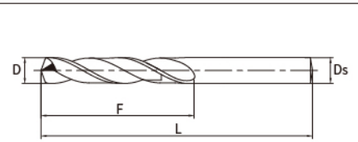
Twist Drills with straight shank, HSS/HSCo-5, extra long series, Factory standard



材质	Material	HSS	HSCo-5
槽型	Type	N	N
切削方向	Cutting direction	R.H.	R.H.
修磨横刃	Web thinning	Form C	Form C
顶角	Point angle	118°	135°
表面处理	Surface	Bright	Bronze
精度	Tolerance	h8	h8
系列号	List No.	1152	1156

刃径	刃长	全长	柄径	SKU	SKU
D	F	L	Ds		
12.0	140	200	12.0	11521200	11561200
12.1	140	200	12.1	11521210	11561210
12.2	140	200	12.2	11521220	11561220
12.3	140	200	12.3	11521230	11561230
12.4	140	200	12.4	11521240	11561240
12.5	140	200	12.5	11521250	11561250
12.6	140	200	12.6	11521260	11561260
12.7	140	200	12.7	11521270	11561270
12.8	140	200	12.8	11521280	11561280
12.9	140	200	12.9	11521290	11561290
13.0	140	200	13.0	11521300	11561300

Twist Drills with straight shank, HSS/HSCo-5, extra long series, Factory standard

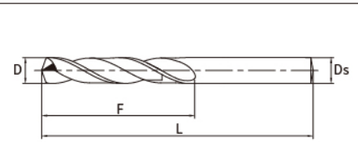






材质		Material		HSS	HSCo-5
槽型		Type		N	N
切削方向		Cutting direction		R.H.	R.H.
修磨横刃		Web thinning		Form C	Form C
顶角		Point angle		118°	135°
表面处理		Surface		Bright	Bronze
精度		Tolerance		h8	h8
系列号		List No.		1153	1157
刃径	刃长	全长	柄径	SKU	SKU
D	F	L	Ds		
3.0	170	250	3.0	11530300	11570300
3.1	170	250	3.1	11530310	11570310
3.2	170	250	3.2	11530320	11570320
3.3	170	250	3.3	11530330	11570330
3.4	170	250	3.4	11530340	11570340
3.5	170	250	3.5	11530350	11570350
3.6	170	250	3.6	11530360	11570360
3.7	170	250	3.7	11530370	11570370
3.8	170	250	3.8	11530380	11570380
3.9	170	250	3.9	11530390	11570390
4.0	170	250	4.0	11530400	11570400
4.1	170	250	4.1	11530410	11570410
4.2	170	250	4.2	11530420	11570420
4.3	170	250	4.3	11530430	11570430
4.4	170	250	4.4	11530440	11570440
4.5	170	250	4.5	11530450	11570450
4.6	170	250	4.6	11530460	11570460
4.7	170	250	4.7	11530470	11570470
4.8	170	250	4.8	11530480	11570480
4.9	170	250	4.9	11530490	11570490
5.0	170	250	5.0	11530500	11570500
5.1	170	250	5.1	11530510	11570510
5.2	170	250	5.2	11530520	11570520
5.3	170	250	5.3	11530530	11570530
5.4	170	250	5.4	11530540	11570540
5.5	170	250	5.5	11530550	11570550
5.6	170	250	5.6	11530560	11570560
5.7	170	250	5.7	11530570	11570570
5.8	170	250	5.8	11530580	11570580
5.9	170	250	5.9	11530590	11570590

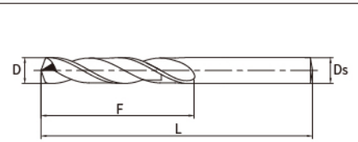
Twist Drills with straight shank, HSS/HSCo-5, extra long series, Factory standard

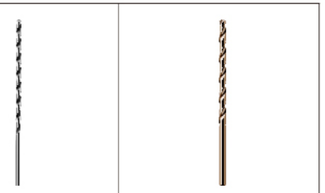




材质		Material		HSS	HSCo-5
槽型		Type		N	N
切削方向		Cutting direction		R.H.	R.H.
修磨横刃		Web thinning		Form C	Form C
顶角		Point angle		118°	135°
表面处理		Surface		Bright	Bronze
精度		Tolerance		h8	h8
系列号		List No.		1153	1157
刃径	刃长	全长	柄径	SKU	SKU
D	F	L	Ds		
6.0	170	250	6.0	11530600	11570600
6.1	170	250	6.1	11530610	11570610
6.2	170	250	6.2	11530620	11570620
6.3	170	250	6.3	11530630	11570630
6.4	170	250	6.4	11530640	11570640
6.5	170	250	6.5	11530650	11570650
6.6	170	250	6.6	11530660	11570660
6.7	170	250	6.7	11530670	11570670
6.8	170	250	6.8	11530680	11570680
6.9	170	250	6.9	11530690	11570690
7.0	170	250	7.0	11530700	11570700
7.1	170	250	7.1	11530710	11570710
7.2	170	250	7.2	11530720	11570720
7.3	170	250	7.3	11530730	11570730
7.4	170	250	7.4	11530740	11570740
7.5	170	250	7.5	11530750	11570750
7.6	170	250	7.6	11530760	11570760
7.7	170	250	7.7	11530770	11570770
7.8	170	250	7.8	11530780	11570780
7.9	170	250	7.9	11530790	11570790
8.0	170	250	8.0	11530800	11570800
8.1	170	250	8.1	11530810	11570810
8.2	170	250	8.2	11530820	11570820
8.3	170	250	8.3	11530830	11570830
8.4	170	250	8.4	11530840	11570840
8.5	170	250	8.5	11530850	11570850
8.6	170	250	8.6	11530860	11570860
8.7	170	250	8.7	11530870	11570870
8.8	170	250	8.8	11530880	11570880
8.9	170	250	8.9	11530890	11570890

Twist Drills with straight shank, HSS/HSCo-5, extra long series, Factory standard

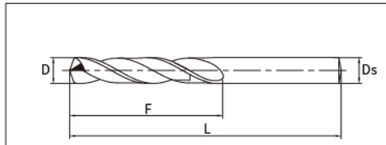




材质	Material	HSS	HSCo-5
槽型	Type	N	N
切削方向	Cutting direction	R.H.	R.H.
修磨横刃	Web thinning	Form C	Form C
顶角	Point angle	118°	135°
表面处理	Surface	Bright	Bronze
精度	Tolerance	h8	h8
系列号	List No.	1153	1157

刃径	刃长	全长	柄径	SKU	SKU
D	F	L	Ds		
9.0	170	250	9.0	11530900	11570900
9.1	170	250	9.1	11530910	11570910
9.2	170	250	9.2	11530920	11570920
9.3	170	250	9.3	11530930	11570930
9.4	170	250	9.4	11530940	11570940
9.5	170	250	9.5	11530950	11570950
9.6	170	250	9.6	11530960	11570960
9.7	170	250	9.7	11530970	11570970
9.8	170	250	9.8	11530980	11570980
9.9	170	250	9.9	11530990	11570990
10.0	170	250	10.0	11531000	11571000
10.1	170	250	10.1	11531010	11571010
10.2	170	250	10.2	11531020	11571020
10.3	170	250	10.3	11531030	11571030
10.4	170	250	10.4	11531040	11571040
10.5	170	250	10.5	11531050	11571050
10.6	170	250	10.6	11531060	11571060
10.7	170	250	10.7	11531070	11571070
10.8	170	250	10.8	11531080	11571080
10.9	170	250	10.9	11531090	11571090
11.0	170	250	11.0	11531100	11571100
11.1	170	250	11.1	11531110	11571110
11.2	170	250	11.2	11531120	11571120
11.3	170	250	11.3	11531130	11571130
11.4	170	250	11.4	11531140	11571140
11.5	170	250	11.5	11531150	11571150
11.6	170	250	11.6	11531160	11571160
11.7	170	250	11.7	11531170	11571170
11.8	170	250	11.8	11531180	11571180
11.9	170	250	11.9	11531190	11571190

Twist Drills with straight shank, HSS/HSCo-5, extra long series, Factory standard

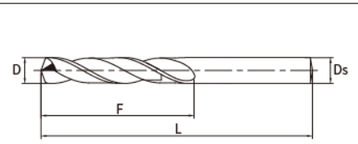


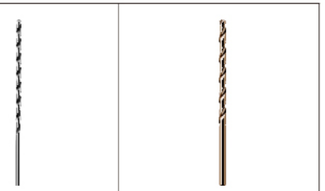


材质	Material	HSS	HSCo-5
槽型	Type	N	N
切削方向	Cutting direction	R.H.	R.H.
修磨横刃	Web thinning	Form C	Form C
顶角	Point angle	118°	135°
表面处理	Surface	Bright	Bronze
精度	Tolerance	h8	h8
系列号	List No.	1153	1157

刃径	刃长	全长	柄径	SKU	SKU
D	F	L	Ds		
12.0	170	250	12.0	11531200	11571200
12.1	170	250	12.1	11531210	11571210
12.2	170	250	12.2	11531220	11571220
12.3	170	250	12.3	11531230	11571230
12.4	170	250	12.4	11531240	11571240
12.5	170	250	12.5	11531250	11571250
12.6	170	250	12.6	11531260	11571260
12.7	170	250	12.7	11531270	11571270
12.8	170	250	12.8	11531280	11571280
12.9	170	250	12.9	11531290	11571290
13.0	170	250	13.0	11531300	11571300

Twist Drills with straight shank, HSS/HSCo-5, extra long series, Factory standard

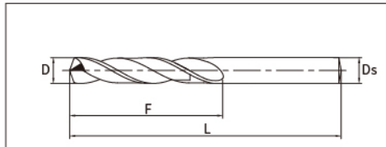




材质	Material	HSS	HSCo-5
槽型	Type	N	N
切削方向	Cutting direction	R.H.	R.H.
修磨横刃	Web thinning	Form C	Form C
顶角	Point angle	118°	135°
表面处理	Surface	Bright	Bronze
精度	Tolerance	h8	h8
系列号	List No.	1154	1158

刃径	刃长	全长	柄径	SKU	SKU
D	F	L	Ds		
3.0	220	300	3.0	11540300	11580300
3.1	220	300	3.1	11540310	11580310
3.2	220	300	3.2	11540320	11580320
3.3	220	300	3.3	11540330	11580330
3.4	220	300	3.4	11540340	11580340
3.5	220	300	3.5	11540350	11580350
3.6	220	300	3.6	11540360	11580360
3.7	220	300	3.7	11540370	11580370
3.8	220	300	3.8	11540380	11580380
3.9	220	300	3.9	11540390	11580390
4.0	220	300	4.0	11540400	11580400
4.1	220	300	4.1	11540410	11580410
4.2	220	300	4.2	11540420	11580420
4.3	220	300	4.3	11540430	11580430
4.4	220	300	4.4	11540440	11580440
4.5	220	300	4.5	11540450	11580450
4.6	220	300	4.6	11540460	11580460
4.7	220	300	4.7	11540470	11580470
4.8	220	300	4.8	11540480	11580480
4.9	220	300	4.9	11540490	11580490
5.0	220	300	5.0	11540500	11580500
5.1	220	300	5.1	11540510	11580510
5.2	220	300	5.2	11540520	11580520
5.3	220	300	5.3	11540530	11580530
5.4	220	300	5.4	11540540	11580540
5.5	220	300	5.5	11540550	11580550
5.6	220	300	5.6	11540560	11580560
5.7	220	300	5.7	11540570	11580570
5.8	220	300	5.8	11540580	11580580
5.9	220	300	5.9	11540590	11580590

Twist Drills with straight shank, HSS/HSCo-5, extra long series, Factory standard

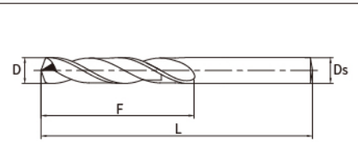


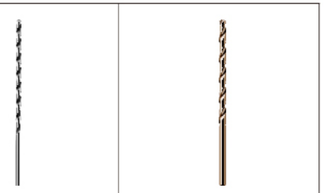


材质	Material	HSS	HSCo-5
槽型	Type	N	N
切削方向	Cutting direction	R.H.	R.H.
修磨横刃	Web thinning	Form C	Form C
顶角	Point angle	118°	135°
表面处理	Surface	Bright	Bronze
精度	Tolerance	h8	h8
系列号	List No.	1154	1158

刃径	刃长	全长	柄径	SKU	SKU
D	F	L	Ds		
6.0	220	300	6.0	11540600	11580600
6.1	220	300	6.1	11540610	11580610
6.2	220	300	6.2	11540620	11580620
6.3	220	300	6.3	11540630	11580630
6.4	220	300	6.4	11540640	11580640
6.5	220	300	6.5	11540650	11580650
6.6	220	300	6.6	11540660	11580660
6.7	220	300	6.7	11540670	11580670
6.8	220	300	6.8	11540680	11580680
6.9	220	300	6.9	11540690	11580690
7.0	220	300	7.0	11540700	11580700
7.1	220	300	7.1	11540710	11580710
7.2	220	300	7.2	11540720	11580720
7.3	220	300	7.3	11540730	11580730
7.4	220	300	7.4	11540740	11580740
7.5	220	300	7.5	11540750	11580750
7.6	220	300	7.6	11540760	11580760
7.7	220	300	7.7	11540770	11580770
7.8	220	300	7.8	11540780	11580780
7.9	220	300	7.9	11540790	11580790
8.0	220	300	8.0	11540800	11580800
8.1	220	300	8.1	11540810	11580810
8.2	220	300	8.2	11540820	11580820
8.3	220	300	8.3	11540830	11580830
8.4	220	300	8.4	11540840	11580840
8.5	220	300	8.5	11540850	11580850
8.6	220	300	8.6	11540860	11580860
8.7	220	300	8.7	11540870	11580870
8.8	220	300	8.8	11540880	11580880
8.9	220	300	8.9	11540890	11580890

Twist Drills with straight shank, HSS/HSCo-5, extra long series, Factory standard

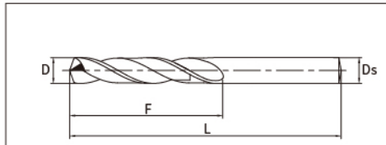




材质	Material	HSS	HSCo-5
槽型	Type	N	N
切削方向	Cutting direction	R.H.	R.H.
修磨横刃	Web thinning	Form C	Form C
顶角	Point angle	118°	135°
表面处理	Surface	Bright	Bronze
精度	Tolerance	h8	h8
系列号	List No.	1154	1158

刃径	刃长	全长	柄径	SKU	SKU
D	F	L	Ds		
9.0	220	300	9.0	11540900	11580900
9.1	220	300	9.1	11540910	11580910
9.2	220	300	9.2	11540920	11580920
9.3	220	300	9.3	11540930	11580930
9.4	220	300	9.4	11540940	11580940
9.5	220	300	9.5	11540950	11580950
9.6	220	300	9.6	11540960	11580960
9.7	220	300	9.7	11540970	11580970
9.8	220	300	9.8	11540980	11580980
9.9	220	300	9.9	11540990	11580990
10.0	220	300	10.0	11541000	11581000
10.1	220	300	10.1	11541010	11581010
10.2	220	300	10.2	11541020	11581020
10.3	220	300	10.3	11541030	11581030
10.4	220	300	10.4	11541040	11581040
10.5	220	300	10.5	11541050	11581050
10.6	220	300	10.6	11541060	11581060
10.7	220	300	10.7	11541070	11581070
10.8	220	300	10.8	11541080	11581080
10.9	220	300	10.9	11541090	11581090
11.0	220	300	11.0	11541100	11581100
11.1	220	300	11.1	11541110	11581110
11.2	220	300	11.2	11541120	11581120
11.3	220	300	11.3	11541130	11581130
11.4	220	300	11.4	11541140	11581140
11.5	220	300	11.5	11541150	11581150
11.6	220	300	11.6	11541160	11581160
11.7	220	300	11.7	11541170	11581170
11.8	220	300	11.8	11541180	11581180
11.9	220	300	11.9	11541190	11581190

Twist Drills with straight shank, HSS/HSCo-5, extra long series, Factory standard

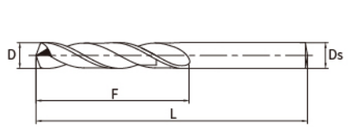




材质	Material	HSS	HSCo-5
槽型	Type	N	N
切削方向	Cutting direction	R.H.	R.H.
修磨横刃	Web thinning	Form C	Form C
顶角	Point angle	118°	135°
表面处理	Surface	Bright	Bronze
精度	Tolerance	h8	h8
系列号	List No.	1154	1158

刃径	刃长	全长	柄径	SKU	SKU
D	F	L	Ds		
12.0	220	300	12.0	11541200	11581200
12.1	220	300	12.1	11541210	11581210
12.2	220	300	12.2	11541220	11581220
12.3	220	300	12.3	11541230	11581230
12.4	220	300	12.4	11541240	11581240
12.5	220	300	12.5	11541250	11581250
12.6	220	300	12.6	11541260	11581260
12.7	220	300	12.7	11541270	11581270
12.8	220	300	12.8	11541280	11581280
12.9	220	300	12.9	11541290	11581290
13.0	220	300	13.0	11541300	11581300

Center drill, HSS, DIN333

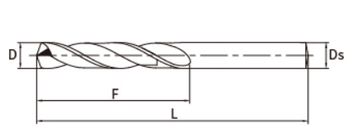






材质		Material		HSS	HSS
槽型		Type		A	B
切削方向		Cutting direction		R.H.	R.H.
修磨横刃		Web thinning		Normal	Normal
顶角		Point angle		118°	118°
表面处理		Surface		Bright	Bright
精度		Tolerance		h8	h8
系列号		List No.		1161	1162
刃径	刃长	全长	柄径	SKU	SKU
D	F	L	Ds		
1.00	1.30	31.50	3.15	11610100	11620100
1.25	1.60	31.50	3.15	11610125	11620125
1.60	2.00	35.50	4.00	11610160	11620160
2.00	2.50	40.00	5.00	11610200	11620200
2.50	3.10	45.00	6.30	11610250	11620250
3.15	3.90	50.00	8.00	11610315	11620315
4.00	5.00	56.00	10.00	11610400	11620400
5.00	6.30	63.00	12.50	11610500	11620500
6.30	8.00	71.00	16.00	11610630	11620630
8.00	10.10	80.00	20.00	11610800	11620800
10.00	12.80	100.00	25.00	11611000	11621000

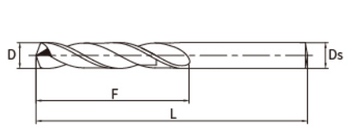
Twist Drills with Straight shank, PM, VA, JHP , ZrN





材质		Material		PM
槽型		Type		VA
切削方向		Cutting direction		R.H.
修磨横刃		Web thinning		Form C
顶角		Point angle		135°
表面处理		Surface		ZrN
精度		Tolerance		h7
系列号		List No.		1170
刃径	刃长	全长	柄径	SKU
D	F	L	Ds	
3.0	16	46	3	11700300
3.1	18	50	4	11700310
3.2	18	50	4	11700320
3.3	18	50	4	11700330
3.4	20	50	4	11700340
3.5	20	50	4	11700350
3.6	20	50	4	11700360
3.7	20	50	4	11700370
3.8	22	52	4	11700380
3.9	22	52	4	11700390
4.0	22	52	4	11700400
4.1	22	66	6	11700410
4.2	22	66	6	11700420
4.3	24	66	6	11700430
4.4	24	66	6	11700440
4.5	24	66	6	11700450
4.6	24	66	6	11700460
4.7	24	66	6	11700470
4.8	26	68	6	11700480
4.9	26	68	6	11700490
5.0	26	68	6	11700500
5.1	26	68	6	11700510
5.2	26	68	6	11700520
5.3	26	68	6	11700530
5.4	28	68	6	11700540
5.5	28	68	6	11700550
5.6	28	68	6	11700560
5.7	28	68	6	11700570
5.8	28	68	6	11700580
5.9	28	68	6	11700590

Twist Drills with Straight shank, PM, VA, JHP , ZrN

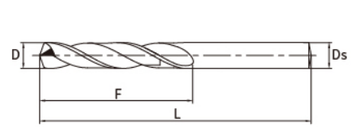




材质	Material	PM
槽型	Type	VA
切削方向	Cutting direction	R.H.
修磨横刃	Web thinning	Form C
顶角	Point angle	135°
表面处理	Surface	ZrN
精度	Tolerance	h7
系列号	List No.	1170

刃径	刃长	全长	柄径	SKU
D	F	L	Ds	
6.0	28	68	6	11700600
6.1	31	75	8	11700610
6.2	31	75	8	11700620
6.3	31	75	8	11700630
6.4	31	75	8	11700640
6.5	31	75	8	11700650
6.6	31	75	8	11700660
6.7	31	75	8	11700670
6.8	34	75	8	11700680
6.9	34	75	8	11700690
7.0	34	75	8	11700700
7.1	34	75	8	11700710
7.2	34	75	8	11700720
7.3	34	75	8	11700730
7.4	34	75	8	11700740
7.5	34	75	8	11700750
7.6	37	78	8	11700760
7.7	37	78	8	11700770
7.8	37	78	8	11700780
7.9	37	78	8	11700790
8.0	37	78	8	11700800
8.1	37	85	10	11700810
8.2	37	85	10	11700820
8.3	37	85	10	11700830
8.4	37	85	10	11700840
8.5	37	85	10	11700850
8.6	40	87	10	11700860
8.7	40	87	10	11700870
8.8	40	87	10	11700880
8.9	40	87	10	11700890

Twist Drills with Straight shank, PM, VA, JHP , ZrN

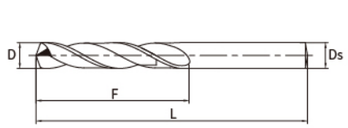




材质	Material	PM
槽型	Type	VA
切削方向	Cutting direction	R.H.
修磨横刃	Web thinning	Form C
顶角	Point angle	135°
表面处理	Surface	ZrN
精度	Tolerance	h7
系列号	List No.	1170

刃径	刃长	全长	柄径	SKU
D	F	L	Ds	
9.0	40	87	10	11700900
9.1	40	87	10	11700910
9.2	40	87	10	11700920
9.3	40	87	10	11700930
9.4	40	87	10	11700940
9.5	40	87	10	11700950
9.6	43	90	10	11700960
9.7	43	90	10	11700970
9.8	43	90	10	11700980
9.9	43	90	10	11700990
10.0	43	90	10	11701000
10.1	43	100	12	11701010
10.2	43	100	12	11701020
10.3	43	100	12	11701030
10.4	43	100	12	11701040
10.5	43	100	12	11701050
10.6	43	100	12	11701060
10.7	47	100	12	11701070
10.8	47	100	12	11701080
10.9	47	100	12	11701090
11.0	47	100	12	11701100
11.1	47	100	12	11701110
11.2	47	100	12	11701120
11.3	47	100	12	11701130
11.4	47	100	12	11701140
11.5	47	100	12	11701150
11.6	47	100	12	11701160
11.7	47	100	12	11701170
11.8	47	104	12	11701180
11.9	51	104	12	11701190
12.0	51	104	12	11701200

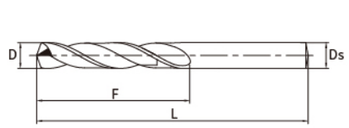
Twist Drills with Straight shank, PM, VA, DIN338, TiCN



材质	Material	PM
槽型	Type	VA
切削方向	Cutting direction	R.H.
修磨横刃	Web thinning	Form C
顶角	Point angle	135°
表面处理	Surface	TiCN
精度	Tolerance	h8
系列号	List No.	1171

刃径	刃长	全长	柄径	SKU
D	F	L	Ds	
3.0	33	61	3.0	11710300
3.1	36	65	3.1	11710310
3.2	36	65	3.2	11710320
3.3	36	65	3.3	11710330
3.4	39	70	3.4	11710340
3.5	39	70	3.5	11710350
3.6	39	70	3.6	11710360
3.7	39	70	3.7	11710370
3.8	43	75	3.8	11710380
3.9	43	75	3.9	11710390
4.0	43	75	4.0	11710400
4.1	43	75	4.1	11710410
4.2	43	75	4.2	11710420
4.3	47	80	4.3	11710430
4.4	47	80	4.4	11710440
4.5	47	80	4.5	11710450
4.6	47	80	4.6	11710460
4.7	47	80	4.7	11710470
4.8	52	86	4.8	11710480
4.9	52	86	4.9	11710490
5.0	52	86	5.0	11710500
5.1	52	86	5.1	11710510
5.2	52	86	5.2	11710520
5.3	52	86	5.3	11710530
5.4	57	93	5.4	11710540
5.5	57	93	5.5	11710550
5.6	57	93	5.6	11710560
5.7	57	93	5.7	11710570
5.8	57	93	5.8	11710580
5.9	57	93	5.9	11710590

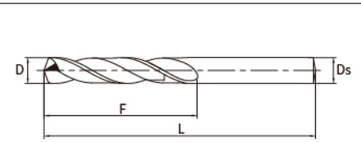
Twist Drills with Straight shank, PM, VA, DIN338, TiCN



材质	Material	PM
槽型	Type	VA
切削方向	Cutting direction	R.H.
修磨横刃	Web thinning	Form C
顶角	Point angle	135°
表面处理	Surface	TiCN
精度	Tolerance	h8
系列号	List No.	1171

刃径	刃长	全长	柄径	SKU
D	F	L	Ds	
6.0	57	93	6.0	11710600
6.1	63	101	6.1	11710610
6.2	63	101	6.2	11710620
6.3	63	101	6.3	11710630
6.4	63	101	6.4	11710640
6.5	63	101	6.5	11710650
6.6	63	101	6.6	11710660
6.7	63	101	6.7	11710670
6.8	69	109	6.8	11710680
6.9	69	109	6.9	11710690
7.0	69	109	7.0	11710700
7.1	69	109	7.1	11710710
7.2	69	109	7.2	11710720
7.3	69	109	7.3	11710730
7.4	69	109	7.4	11710740
7.5	69	109	7.5	11710750
7.6	75	117	7.6	11710760
7.7	75	117	7.7	11710770
7.8	75	117	7.8	11710780
7.9	75	117	7.9	11710790
8.0	75	117	8.0	11710800
8.1	75	117	8.1	11710810
8.2	75	117	8.2	11710820
8.3	75	117	8.3	11710830
8.4	75	117	8.4	11710840
8.5	75	117	8.5	11710850
8.6	81	125	8.6	11710860
8.7	81	125	8.7	11710870
8.8	81	125	8.8	11710880
8.9	81	125	8.9	11710890

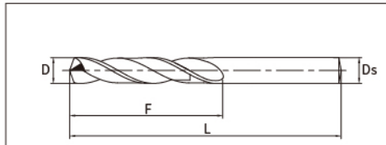
Twist Drills with Straight shank, PM, VA, DIN338, TiCN



材质	Material	PM
槽型	Type	VA
切削方向	Cutting direction	R.H.
修磨横刃	Web thinning	Form C
顶角	Point angle	135°
表面处理	Surface	TiCN
精度	Tolerance	h8
系列号	List No.	1171

刃径	刃长	全长	柄径	SKU
D	F	L	Ds	
9.0	81	125	9.0	11710900
9.1	81	125	9.1	11710910
9.2	81	125	9.2	11710920
9.3	81	125	9.3	11710930
9.4	81	125	9.4	11710940
9.5	81	125	9.5	11710950
9.6	87	133	9.6	11710960
9.7	87	133	9.7	11710970
9.8	87	133	9.8	11710980
9.9	87	133	9.9	11710990
10.0	87	133	10.0	11711000
10.1	87	133	10.1	11711010
10.2	87	133	10.2	11711020
10.3	87	133	10.3	11711030
10.4	87	133	10.4	11711040
10.5	87	133	10.5	11711050
10.6	87	133	10.6	11711060
10.7	94	142	10.7	11711070
10.8	94	142	10.8	11711080
10.9	94	142	10.9	11711090
11.0	94	142	11.0	11711100
11.1	94	142	11.1	11711110
11.2	94	142	11.2	11711120
11.3	94	142	11.3	11711130
11.4	94	142	11.4	11711140
11.5	94	142	11.5	11711150
11.6	94	142	11.6	11711160
11.7	94	142	11.7	11711170
11.8	94	142	11.8	11711180
11.9	101	151	11.9	11711190

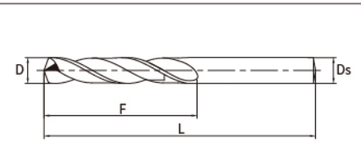
Twist Drills with Straight shank, PM, VA, DIN338, TiCN



材质	Material	PM
槽型	Type	VA
切削方向	Cutting direction	R.H.
修磨横刃	Web thinning	Form C
顶角	Point angle	135°
表面处理	Surface	TiCN
精度	Tolerance	h8
系列号	List No.	1171

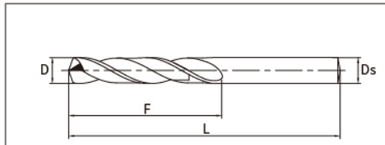
刃径	刃长	全长	柄径	SKU
D	F	L	Ds	
12.0	101	151	12.0	11711200
12.1	101	151	12.1	11711210
12.2	101	151	12.2	11711220
12.3	101	151	12.3	11711230
12.4	101	151	12.4	11711240
12.5	101	151	12.5	11711250
12.6	101	151	12.6	11711260
12.7	101	151	12.7	11711270
12.8	101	151	12.8	11711280
12.9	101	151	12.9	11711290
13.0	101	151	13.0	11711300

Twist Drills with Straight shank, Solid Carbide, DIN6539, FN



材质		Material		Solid Carbide
切削方向		Cutting direction		R.H.
修磨横刃		Web thinning		Face
顶角		Point angle		135°
表面处理		Surface		FN
精度		Tolerance		h7
系列号		List No.		1180
刃径	刃长	全长	柄径	SKU
D	F	L	Ds	
3.0	16	46	3.0	11800300
3.1	18	49	3.1	11800310
3.2	18	49	3.2	11800320
3.3	18	49	3.3	11800330
3.4	20	52	3.4	11800340
3.5	20	52	3.5	11800350
3.6	20	52	3.6	11800360
3.7	20	52	3.7	11800370
3.8	22	55	3.8	11800380
3.9	22	55	3.9	11800390
4.0	22	55	4.0	11800400
4.1	22	55	4.1	11800410
4.2	22	55	4.2	11800420
4.3	24	58	4.3	11800430
4.4	24	58	4.4	11800440
4.5	24	58	4.5	11800450
4.6	24	58	4.6	11800460
4.7	24	58	4.7	11800470
4.8	26	62	4.8	11800480
4.9	26	62	4.9	11800490
5.0	26	62	5.0	11800500
5.1	26	62	5.1	11800510
5.2	26	62	5.2	11800520
5.3	26	62	5.3	11800530
5.4	28	66	5.4	11800540
5.5	28	66	5.5	11800550
5.6	28	66	5.6	11800560
5.7	28	66	5.7	11800570
5.8	28	66	5.8	11800580
5.9	28	66	5.9	11800590
6.0	28	66	6.0	11800600

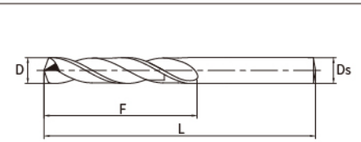
Twist Drills with Straight shank, Solid Carbide, DIN6539, FN





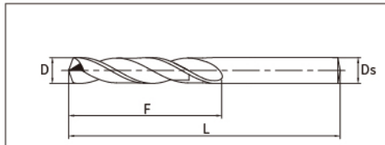
材质		Material		Solid Carbide
切削方向		Cutting direction		R.H.
修磨横刃		Web thinning		Face
顶角		Point angle		135°
表面处理		Surface		FN
精度		Tolerance		h7
系列号		List No.		1180
刃径	刃长	全长	柄径	SKU
D	F	L	Ds	
6.1	31	70	6.1	11800610
6.2	31	70	6.2	11800620
6.3	31	70	6.3	11800630
6.4	31	70	6.4	11800640
6.5	31	70	6.5	11800650
6.6	31	70	6.6	11800660
6.7	31	70	6.7	11800670
6.8	34	74	6.8	11800680
6.9	34	74	6.9	11800690
7.0	34	74	7.0	11800700
7.1	34	74	7.1	11800710
7.2	34	74	7.2	11800720
7.3	34	74	7.3	11800730
7.4	34	74	7.4	11800740
7.5	34	74	7.5	11800750
7.6	37	79	7.6	11800760
7.7	37	79	7.7	11800770
7.8	37	79	7.8	11800780
7.9	37	79	7.9	11800790
8.0	37	79	8.0	11800800
8.1	37	79	8.1	11800810
8.2	37	79	8.2	11800820
8.3	37	79	8.3	11800830
8.4	37	79	8.4	11800840
8.5	37	79	8.5	11800850
8.6	40	84	8.6	11800860
8.7	40	84	8.7	11800870
8.8	40	84	8.8	11800880
8.9	40	84	8.9	11800890
9.0	40	84	9.0	11800900
9.1	40	84	9.1	11800910

Twist Drills with Straight shank, Solid Carbide, DIN6539, FN



材质		Material		Solid Carbide
切削方向		Cutting direction		R.H.
修磨横刃		Web thinning		Face
顶角		Point angle		135°
表面处理		Surface		FN
精度		Tolerance		h7
系列号		List No.		1180
刃径	刃长	全长	柄径	SKU
D	F	L	Ds	
9.2	40	84	9.2	11800920
9.3	40	84	9.3	11800930
9.4	40	84	9.4	11800940
9.5	40	84	9.5	11800950
9.6	43	89	9.6	11800960
9.7	43	89	9.7	11800970
9.8	43	89	9.8	11800980
9.9	43	89	9.9	11800990
10.0	43	89	10.0	11801000
10.1	43	89	10.1	11801010
10.2	43	89	10.2	11801020
10.3	43	89	10.3	11801030
10.4	43	89	10.4	11801040
10.5	43	89	10.5	11801050
10.6	43	89	10.6	11801060
10.7	47	95	10.7	11801070
10.8	47	95	10.8	11801080
10.9	47	95	10.9	11801090
11.0	47	95	11.0	11801100
11.1	47	95	11.1	11801110
11.2	47	95	11.2	11801120
11.3	47	95	11.3	11801130
11.4	47	95	11.4	11801140
11.5	47	95	11.5	11801150
11.6	47	95	11.6	11801160
11.7	47	95	11.7	11801170
11.8	47	95	11.8	11801180
11.9	51	102	11.9	11801190
12.0	51	102	12.0	11801200
12.1	51	102	12.1	11801210
12.2	51	102	12.2	11801220

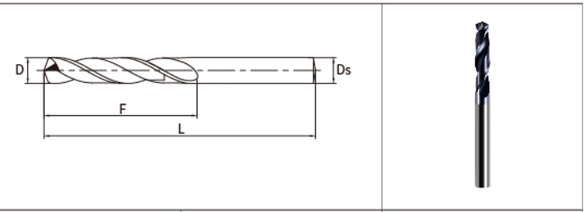
Twist Drills with Straight shank, Solid Carbide, DIN6539, FN





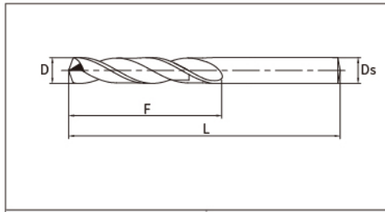
材质		Material		Solid Carbide
切削方向		Cutting direction		R.H.
修磨横刃		Web thinning		Face
顶角		Point angle		135°
表面处理		Surface		FN
精度		Tolerance		h7
系列号		List No.		1180
刃径	刃长	全长	柄径	SKU
D	F	L	Ds	
12.3	51	102	12.3	11801230
12.4	51	102	12.4	11801240
12.5	51	102	12.5	11801250
12.6	51	102	12.6	11801260
12.7	51	102	12.7	11801270
12.8	51	102	12.8	11801280
12.9	51	102	12.9	11801290
13.0	51	102	13.0	11801300
13.1	51	102	13.1	11801310
13.2	51	102	13.2	11801320
13.3	54	107	13.3	11801330
13.4	54	107	13.4	11801340
13.5	54	107	13.5	11801350
13.6	54	107	13.6	11801360
13.7	54	107	13.7	11801370
13.8	54	107	13.8	11801380
13.9	54	107	13.9	11801390
14.0	54	107	14.0	11801400
14.1	56	111	14.1	11801410
14.2	56	111	14.2	11801420
14.3	56	111	14.3	11801430
14.4	56	111	14.4	11801440
14.5	56	111	14.5	11801450
14.6	56	111	14.6	11801460
14.7	56	111	14.7	11801470
14.8	56	111	14.8	11801480
14.9	56	111	14.9	11801490
15.0	56	111	15.0	11801500
15.1	58	115	15.1	11801510
15.2	58	115	15.2	11801520
15.3	58	115	15.3	11801530

Twist Drills with Straight shank, Solid Carbide, DIN6539, FN



材质		Material		Solid Carbide
切削方向		Cutting direction		R.H.
修磨横刃		Web thinning		Face
顶角		Point angle		135°
表面处理		Surface		FN
精度		Tolerance		h7
系列号		List No.		1180
刃径	刃长	全长	柄径	SKU
D	F	L	Ds	
15.4	58	115	15.4	11801540
15.5	58	115	15.5	11801550
15.6	58	115	15.6	11801560
15.7	58	115	15.7	11801570
15.8	58	115	15.8	11801580
15.9	58	115	15.9	11801590
16.0	58	115	16.0	11801600
16.1	60	119	16.1	11801610
16.2	60	119	16.2	11801620
16.3	60	119	16.3	11801630
16.4	60	119	16.4	11801640
16.5	60	119	16.5	11801650
16.6	60	119	16.6	11801660
16.7	60	119	16.7	11801670
16.8	60	119	16.8	11801680
16.9	60	119	16.9	11801690
17.0	60	119	17.0	11801700
17.1	62	123	17.1	11801710
17.2	62	123	17.2	11801720
17.3	62	123	17.3	11801730
17.4	62	123	17.4	11801740
11.5	62	123	11.5	11801750
17.6	62	123	17.6	11801760
17.7	62	123	17.7	11801770
17.8	62	123	17.8	11801780
17.9	62	123	17.9	11801790
18.0	62	123	18.0	11801800
18.1	64	127	18.1	11801810
18.2	64	127	18.2	11801820
18.3	64	127	18.3	11801830
18.4	64	127	18.4	11801840

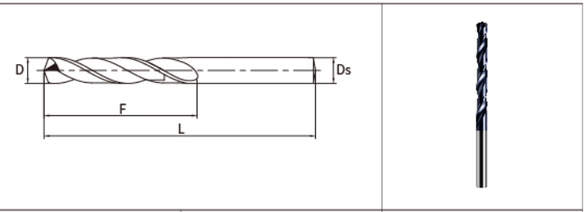
Twist Drills with Straight shank, Solid Carbide, DIN6539, FN





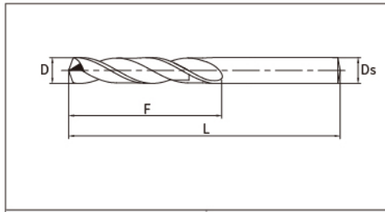
材质		Material		Solid Carbide
切削方向		Cutting direction		R.H.
修磨横刃		Web thinning		Face
顶角		Point angle		135°
表面处理		Surface		FN
精度		Tolerance		h7
系列号		List No.		1180
刃径	刃长	全长	柄径	SKU
D	F	L	Ds	
18.5	64	127	18.5	11801850
18.6	64	127	18.6	11801860
18.7	64	127	18.7	11801870
18.8	64	127	18.8	11801880
18.9	64	127	18.9	11801890
19.0	64	127	19.0	11801900
19.1	66	131	19.1	11801910
19.2	66	131	19.2	11801920
19.3	66	131	19.3	11801930
19.4	66	131	19.4	11801940
19.5	66	131	19.5	11801950
19.6	66	131	19.6	11801960
19.7	66	131	19.7	11801970
19.8	66	131	19.8	11801980
19.9	66	131	19.9	11801990
20.0	66	131	20.0	11802000

Twist Drills with Straight shank, Solid Carbide, DIN338, FN



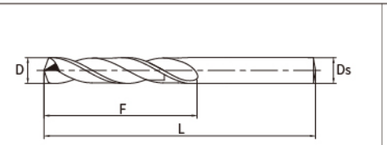
材质		Material		Solid Carbide
切削方向		Cutting direction		R.H.
修磨横刃		Web thinning		Face
顶角		Point angle		135°
表面处理		Surface		FN
精度		Tolerance		h7
系列号		List No.		1181
刃径	刃长	全长	柄径	SKU
D	F	L	Ds	
3.0	33	61	3.0	11810300
3.1	36	65	3.1	11810310
3.2	36	65	3.2	11810320
3.3	36	65	3.3	11810330
3.4	39	70	3.4	11810340
3.5	39	70	3.5	11810350
3.6	39	70	3.6	11810360
3.7	39	70	3.7	11810370
3.8	43	75	3.8	11810380
3.9	43	75	3.9	11810390
4.0	43	75	4.0	11810400
4.1	43	75	4.1	11810410
4.2	43	75	4.2	11810420
4.3	47	80	4.3	11810430
4.4	47	80	4.4	11810440
4.5	47	80	4.5	11810450
4.6	47	80	4.6	11810460
4.7	47	80	4.7	11810470
4.8	52	86	4.8	11810480
4.9	52	86	4.9	11810490
5.0	52	86	5.0	11810500
5.1	52	86	5.1	11810510
5.2	52	86	5.2	11810520
5.3	52	86	5.3	11810530
5.4	57	93	5.4	11810540
5.5	57	93	5.5	11810550
5.6	57	93	5.6	11810560
5.7	57	93	5.7	11810570
5.8	57	93	5.8	11810580
5.9	57	93	5.9	11810590
6.0	57	93	6.0	11810600

Twist Drills with Straight shank, Solid Carbide, DIN338, FN



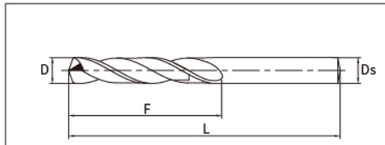
材质		Material		Solid Carbide
切削方向		Cutting direction		R.H.
修磨横刃		Web thinning		Face
顶角		Point angle		135°
表面处理		Surface		FN
精度		Tolerance		h7
系列号		List No.		1181
刃径	刃长	全长	柄径	SKU
D	F	L	Ds	
6.1	63	101	6.1	11810610
6.2	63	101	6.2	11810620
6.3	63	101	6.3	11810630
6.4	63	101	6.4	11810640
6.5	63	101	6.5	11810650
6.6	63	101	6.6	11810660
6.7	63	101	6.7	11810670
6.8	69	109	6.8	11810680
6.9	69	109	6.9	11810690
7.0	69	109	7.0	11810700
7.1	69	109	7.1	11810710
7.2	69	109	7.2	11810720
7.3	69	109	7.3	11810730
7.4	69	109	7.4	11810740
7.5	69	109	7.5	11810750
7.6	75	117	7.6	11810760
7.7	75	117	7.7	11810770
7.8	75	117	7.8	11810780
7.9	75	117	7.9	11810790
8.0	75	117	8.0	11810800
8.1	75	117	8.1	11810810
8.2	75	117	8.2	11810820
8.3	75	117	8.3	11810830
8.4	75	117	8.4	11810840
8.5	75	117	8.5	11810850
8.6	81	125	8.6	11810860
8.7	81	125	8.7	11810870
8.8	81	125	8.8	11810880
8.9	81	125	8.9	11810890
9.0	81	125	9.0	11810900
9.1	81	125	9.1	11810910

Twist Drills with Straight shank, Solid Carbide, DIN338, FN



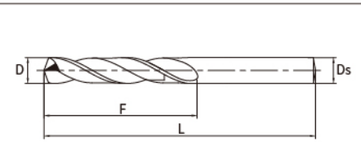
材质		Material		Solid Carbide
切削方向		Cutting direction		R.H.
修磨横刃		Web thinning		Face
顶角		Point angle		135°
表面处理		Surface		FN
精度		Tolerance		h7
系列号		List No.		1181
刃径	刃长	全长	柄径	SKU
D	F	L	Ds	
9.2	81	125	9.2	11810920
9.3	81	125	9.3	11810930
9.4	81	125	9.4	11810940
9.5	81	125	9.5	11810950
9.6	87	133	9.6	11810960
9.7	87	133	9.7	11810970
9.8	87	133	9.8	11810980
9.9	87	133	9.9	11810990
10.0	87	133	10.0	11811000
10.1	87	133	10.1	11811010
10.2	87	133	10.2	11811020
10.3	87	133	10.3	11811030
10.4	87	133	10.4	11811040
10.5	87	133	10.5	11811050
10.6	87	133	10.6	11811060
10.7	94	142	10.7	11811070
10.8	94	142	10.8	11811080
10.9	94	142	10.9	11811090
11.0	94	142	11.0	11811100
11.1	94	142	11.1	11811110
11.2	94	142	11.2	11811120
11.3	94	142	11.3	11811130
11.4	94	142	11.4	11811140
11.5	94	142	11.5	11811150
11.6	94	142	11.6	11811160
11.7	94	142	11.7	11811170
11.8	94	142	11.8	11811180
11.9	101	151	11.9	11811190
12.0	101	151	12.0	11811200
12.1	101	151	12.1	11811210
12.2	101	151	12.2	11811220

Twist Drills with Straight shank, Solid Carbide, DIN338, FN



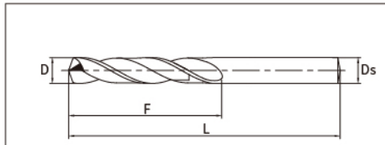
材质		Material		Solid Carbide
切削方向		Cutting direction		R.H.
修磨横刃		Web thinning		Face
顶角		Point angle		135°
表面处理		Surface		FN
精度		Tolerance		h7
系列号		List No.		1181
刃径	刃长	全长	柄径	SKU
D	F	L	Ds	
12.3	101	151	12.3	11811230
12.4	101	151	12.4	11811240
12.5	101	151	12.5	11811250
12.6	101	151	12.6	11811260
12.7	101	151	12.7	11811270
12.8	101	151	12.8	11811280
12.9	101	151	12.9	11811290
13.0	101	151	13.0	11811300
13.1	101	151	13.1	11811310
13.2	101	151	13.2	11811320
13.3	108	160	13.3	11811330
13.4	108	160	13.4	11811340
13.5	108	160	13.5	11811350
13.6	108	160	13.6	11811360
13.7	108	160	13.7	11811370
13.8	108	160	13.8	11811380
13.9	108	160	13.9	11811390
14.0	108	160	14.0	11811400
14.1	114	169	14.1	11811410
14.2	114	169	14.2	11811420
14.3	114	169	14.3	11811430
14.4	114	169	14.4	11811440
14.5	114	169	14.5	11811450
14.6	114	169	14.6	11811460
14.7	114	169	14.7	11811470
14.8	114	169	14.8	11811480
14.9	114	169	14.9	11811490
15.0	114	169	15.0	11811500
15.1	120	178	15.1	11811510
15.2	120	178	15.2	11811520
15.3	120	178	15.3	11811530

Twist Drills with Straight shank, Solid Carbide, DIN338, FN



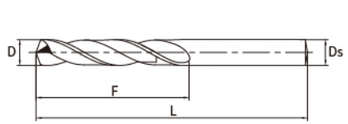
材质		Material		Solid Carbide
切削方向		Cutting direction		R.H.
修磨横刃		Web thinning		Face
顶角		Point angle		135°
表面处理		Surface		FN
精度		Tolerance		h7
系列号		List No.		1181
刃径	刃长	全长	柄径	SKU
D	F	L	Ds	
15.4	120	178	15.4	11811540
15.5	120	178	15.5	11811550
15.6	120	178	15.6	11811560
15.7	120	178	15.7	11811570
15.8	120	178	15.8	11811580
15.9	120	178	15.9	11811590
16.0	120	178	16.0	11811600
16.1	125	184	16.1	11811610
16.2	125	184	16.2	11811620
16.3	125	184	16.3	11811630
16.4	125	184	16.4	11811640
16.5	125	184	16.5	11811650
16.6	125	184	16.6	11811660
16.7	125	184	16.7	11811670
16.8	125	184	16.8	11811680
16.9	125	184	16.9	11811690
17.0	125	184	17.0	11811700
17.1	130	191	17.1	11811710
17.2	130	191	17.2	11811720
17.3	130	191	17.3	11811730
17.4	130	191	17.4	11811740
17.5	130	191	11.5	11811750
17.6	130	191	17.6	11811760
17.7	130	191	17.7	11811770
17.8	130	191	17.8	11811780
17.9	130	191	17.9	11811790
18.0	130	191	18.0	11811800
18.1	135	198	18.1	11811810
18.2	135	198	18.2	11811820
18.3	135	198	18.3	11811830
18.4	135	198	18.4	11811840

Twist Drills with Straight shank, Solid Carbide, DIN338, FN



材质		Material		Solid Carbide
切削方向		Cutting direction		R.H.
修磨横刃		Web thinning		Face
顶角		Point angle		135°
表面处理		Surface		FN
精度		Tolerance		h7
系列号		List No.		1181
刃径	刃长	全长	柄径	SKU
D	F	L	Ds	
18.5	135	198	18.5	11811850
18.6	135	198	18.6	11811860
18.7	135	198	18.7	11811870
18.8	135	198	18.8	11811880
18.9	135	198	18.9	11811890
19.0	135	198	19.0	11811900
19.1	140	205	19.1	11811910
19.2	140	205	19.2	11811920
19.3	140	205	19.3	11811930
19.4	140	205	19.4	11811940
19.5	140	205	19.5	11811950
19.6	140	205	19.6	11811960
19.7	140	205	19.7	11811970
19.8	140	205	19.8	11811980
19.9	140	205	19.9	11811990
20.0	140	205	20.0	11812000

Twist Drills with Straight shank, Solid Carbide, DIN6537K, FN

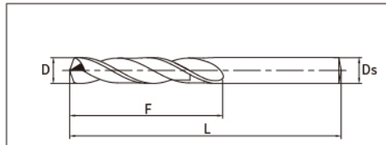






材质		Material		Solid Carbide	Solid Carbide(inner coolant)
切削方向		Cutting direction		R.H.	R.H.
修磨横刃		Web thinning		Conical	Conical
顶角		Point angle		140°	140°
表面处理		Surface		FN	FN
精度		Tolerance		m7	m7
系列号		List No.		1182	1183
刃径	刃长	全长	柄径	SKU	SKU
D	F	L	Ds		
3.0	20	62	6	11820300	11830300
3.1	20	62	6	11820310	11830310
3.2	20	62	6	11820320	11830320
3.3	20	62	6	11820330	11830330
3.4	20	62	6	11820340	11830340
3.5	20	62	6	11820350	11830350
3.6	20	62	6	11820360	11830360
3.7	20	62	6	11820370	11830370
3.8	24	66	6	11820380	11830380
3.9	24	66	6	11820390	11830390
4.0	24	66	6	11820400	11830400
4.1	24	66	6	11820410	11830410
4.2	24	66	6	11820420	11830420
4.3	24	66	6	11820430	11830430
4.4	24	66	6	11820440	11830440
4.5	24	66	6	11820450	11830450
4.6	24	66	6	11820460	11830460
4.7	24	66	6	11820470	11830470
4.8	28	66	6	11820480	11830480
4.9	28	66	6	11820490	11830490
5.0	28	66	6	11820500	11830500
5.1	28	66	6	11820510	11830510
5.2	28	66	6	11820520	11830520
5.3	28	66	6	11820530	11830530
5.4	28	66	6	11820540	11830540
5.5	28	66	6	11820550	11830550
5.6	28	66	6	11820560	11830560
5.7	28	66	6	11820570	11830570
5.8	28	66	6	11820580	11830580
5.9	28	66	6	11820590	11830590
6.0	28	66	6	11820600	11830600

Twist Drills with Straight shank, Solid Carbide, DIN6537K, FN

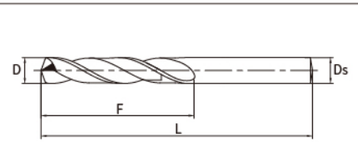






材质		Material		Solid Carbide	Solid Carbide(inner coolant)
切削方向		Cutting direction		R.H.	R.H.
修磨横刃		Web thinning		Conical	Conical
顶角		Point angle		140°	140°
表面处理		Surface		FN	FN
精度		Tolerance		m7	m7
系列号		List No.		1182	1183
刃径	刃长	全长	柄径	SKU	SKU
D	F	L	Ds		
6.1	34	79	8	11820610	11830610
6.2	34	79	8	11820620	11830620
6.3	34	79	8	11820630	11830630
6.4	34	79	8	11820640	11830640
6.5	34	79	8	11820650	11830650
6.6	34	79	8	11820660	11830660
6.7	34	79	8	11820670	11830670
6.8	34	79	8	11820680	11830680
6.9	34	79	8	11820690	11830690
7.0	34	79	8	11820700	11830700
7.1	41	79	8	11820710	11830710
7.2	41	79	8	11820720	11830720
7.3	41	79	8	11820730	11830730
7.4	41	79	8	11820740	11830740
7.5	41	79	8	11820750	11830750
7.6	41	79	8	11820760	11830760
7.7	41	79	8	11820770	11830770
7.8	41	79	8	11820780	11830780
7.9	41	79	8	11820790	11830790
8.0	41	79	8	11820800	11830800
8.1	47	89	10	11820810	11830810
8.2	47	89	10	11820820	11830820
8.3	47	89	10	11820830	11830830
8.4	47	89	10	11820840	11830840
8.5	47	89	10	11820850	11830850
8.6	47	89	10	11820860	11830860
8.7	47	89	10	11820870	11830870
8.8	47	89	10	11820880	11830880
8.9	47	89	10	11820890	11830890
9.0	47	89	10	11820900	11830900
9.1	47	89	10	11820910	11830910

Twist Drills with Straight shank, Solid Carbide, DIN6537K, FN

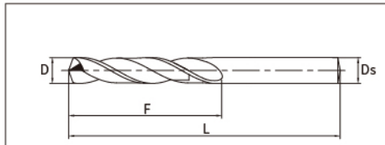






材质		Material		Solid Carbide	Solid Carbide(inner coolant)
切削方向		Cutting direction		R.H.	R.H.
修磨横刃		Web thinning		Conical	Conical
顶角		Point angle		140°	140°
表面处理		Surface		FN	FN
精度		Tolerance		m7	m7
系列号		List No.		1182	1183
刃径	刃长	全长	柄径	SKU	SKU
D	F	L	Ds		
9.2	47	89	10	11820920	11830920
9.3	47	89	10	11820930	11830930
9.4	47	89	10	11820940	11830940
9.5	47	89	10	11820950	11830950
9.6	47	89	10	11820960	11830960
9.7	47	89	10	11820970	11830970
9.8	47	89	10	11820980	11830980
9.9	47	89	10	11820990	11830990
10.0	47	89	10	11821000	11831000
10.1	55	102	12	11821010	11831010
10.2	55	102	12	11821020	11831020
10.3	55	102	12	11821030	11831030
10.4	55	102	12	11821040	11831040
10.5	55	102	12	11821050	11831050
10.6	55	102	12	11821060	11831060
10.7	55	102	12	11821070	11831070
10.8	55	102	12	11821080	11831080
10.9	55	102	12	11821090	11831090
11.0	55	102	12	11821100	11831100
11.1	55	102	12	11821110	11831110
11.2	55	102	12	11821120	11831120
11.3	55	102	12	11821130	11831130
11.4	55	102	12	11821140	11831140
11.5	55	102	12	11821150	11831150
11.6	55	102	12	11821160	11831160
11.7	55	102	12	11821170	11831170
11.8	55	102	12	11821180	11831180
11.9	55	102	12	11821190	11831190
12.0	55	102	12	11821200	11831200
12.1	60	107	14	11821210	11831210
12.2	60	107	14	11821220	11831220

Twist Drills with Straight shank, Solid Carbide, DIN6537K, FN

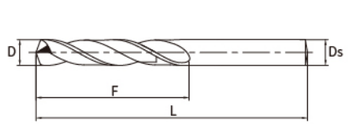






材质		Material		Solid Carbide	Solid Carbide(inner coolant)
切削方向		Cutting direction		R.H.	R.H.
修磨横刃		Web thinning		Conical	Conical
顶角		Point angle		140°	140°
表面处理		Surface		FN	FN
精度		Tolerance		m7	m7
系列号		List No.		1182	1183
刃径	刃长	全长	柄径	SKU	SKU
D	F	L	Ds		
12.3	60	107	14	11821230	11831230
12.4	60	107	14	11821240	11831240
12.5	60	107	14	11821250	11831250
12.6	60	107	14	11821260	11831260
12.7	60	107	14	11821270	11831270
12.8	60	107	14	11821280	11831280
12.9	60	107	14	11821290	11831290
13.0	60	107	14	11821300	11831300
13.1	60	107	14	11821310	11831310
13.2	60	107	14	11821320	11831320
13.3	60	107	14	11821330	11831330
13.4	60	107	14	11821340	11831340
13.5	60	107	14	11821350	11831350
13.6	60	107	14	11821360	11831360
13.7	60	107	14	11821370	11831370
13.8	60	107	14	11821380	11831380
13.9	60	107	14	11821390	11831390
14.0	60	107	14	11821400	11831400
14.1	65	115	16	11821410	11831410
14.2	65	115	16	11821420	11831420
14.3	65	115	16	11821430	11831430
14.4	65	115	16	11821440	11831440
14.5	65	115	16	11821450	11831450
14.6	65	115	16	11821460	11831460
14.7	65	115	16	11821470	11831470
14.8	65	115	16	11821480	11831480
14.9	65	115	16	11821490	11831490
15.0	65	115	16	11821500	11831500
15.1	65	115	16	11821510	11831510
15.2	65	115	16	11821520	11831520
15.3	65	115	16	11821530	11831530

Twist Drills with Straight shank, Solid Carbide, DIN6537K, FN

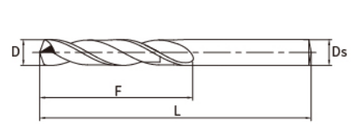






材质		Material		Solid Carbide	Solid Carbide(inner coolant)
切削方向		Cutting direction		R.H.	R.H.
修磨横刃		Web thinning		Conical	Conical
顶角		Point angle		140°	140°
表面处理		Surface		FN	FN
精度		Tolerance		m7	m7
系列号		List No.		1182	1183
刃径	刃长	全长	柄径	SKU	SKU
D	F	L	Ds		
15.4	65	115	16	11821540	11831540
15.5	65	115	16	11821550	11831550
15.6	65	115	16	11821560	11831560
15.7	65	115	16	11821570	11831570
15.8	65	115	16	11821580	11831580
15.9	65	115	16	11821590	11831590
16.0	65	115	16	11821600	11831600
16.1	73	131	18	11821610	11831610
16.2	73	131	18	11821620	11831620
16.3	73	131	18	11821630	11831630
16.4	73	131	18	11821640	11831640
16.5	73	131	18	11821650	11831650
16.6	73	131	18	11821660	11831660
16.7	73	131	18	11821670	11831670
16.8	73	131	18	11821680	11831680
16.9	73	131	18	11821690	11831690
17.0	73	131	18	11821700	11831700
17.1	73	131	18	11821710	11831710
17.2	73	131	18	11821720	11831720
17.3	73	131	18	11821730	11831730
17.4	73	131	18	11821740	11831740
17.5	73	131	18	11821750	11831750
17.6	73	131	18	11821760	11831760
17.7	73	131	18	11821770	11831770
17.8	73	131	18	11821780	11831780
17.9	73	131	18	11821790	11831790
18.0	73	123	18	11821800	11831800
18.1	79	131	20	11821810	11831810
18.2	79	131	20	11821820	11831820
18.3	79	131	20	11821830	11831830
18.4	79	131	20	11821840	11831840

Twist Drills with Straight shank, Solid Carbide, DIN6537K, FN

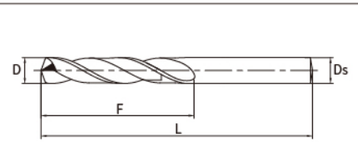






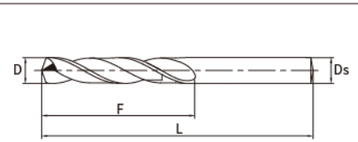
材质		Material		Solid Carbide	Solid Carbide(inner coolant)
切削方向		Cutting direction		R.H.	R.H.
修磨横刃		Web thinning		Conical	Conical
顶角		Point angle		140°	140°
表面处理		Surface		FN	FN
精度		Tolerance		m7	m7
系列号		List No.		1182	1183
刃径	刃长	全长	柄径	SKU	SKU
D	F	L	Ds		
18.5	79	131	20	11821850	11831850
18.6	79	131	20	11821860	11831860
18.7	79	131	20	11821870	11831870
18.8	79	131	20	11821880	11831880
18.9	79	131	20	11821890	11831890
19.0	79	131	20	11821900	11831900
19.1	79	131	20	11821910	11831910
19.2	79	131	20	11821920	11831920
19.3	79	131	20	11821930	11831930
19.4	79	131	20	11821940	11831940
19.5	79	131	20	11821950	11831950
19.6	79	131	20	11821960	11831960
19.7	79	131	20	11821970	11831970
19.8	79	131	20	11821980	11831980
19.9	79	131	20	11821990	11831990
20.0	79	131	20	11822000	11832000

Twist Drills with Straight shank, Solid Carbide, DIN6537L, FN



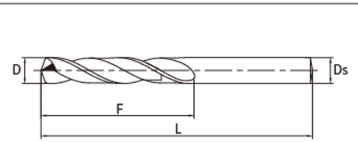
材质		Material		Solid Carbide	Solid Carbide(inner coolant)
切削方向		Cutting direction		R.H.	R.H.
修磨横刃		Web thinning		Conical	Conical
顶角		Point angle		140°	140°
表面处理		Surface		FN	FN
精度		Tolerance		m7	m7
系列号		List No.		1184	1185
刃径	刃长	全长	柄径	SKU	SKU
D	F	L	Ds		
3.0	28	66	6	11840300	11850300
3.1	28	66	6	11840310	11850310
3.2	28	66	6	11840320	11850320
3.3	28	66	6	11840330	11850330
3.4	28	66	6	11840340	11850340
3.5	28	66	6	11840350	11850350
3.6	28	66	6	11840360	11850360
3.7	28	66	6	11840370	11850370
3.8	36	74	6	11840380	11850380
3.9	36	74	6	11840390	11850390
4.0	36	74	6	11840400	11850400
4.1	36	74	6	11840410	11850410
4.2	36	74	6	11840420	11850420
4.3	36	74	6	11840430	11850430
4.4	36	74	6	11840440	11850440
4.5	36	74	6	11840450	11850450
4.6	36	74	6	11840460	11850460
4.7	36	74	6	11840470	11850470
4.8	44	82	6	11840480	11850480
4.9	44	82	6	11840490	11850490
5.0	44	82	6	11840500	11850500
5.1	44	82	6	11840510	11850510
5.2	44	82	6	11840520	11850520
5.3	44	82	6	11840530	11850530
5.4	44	82	6	11840540	11850540
5.5	44	82	6	11840550	11850550
5.6	44	82	6	11840560	11850560
5.7	44	82	6	11840570	11850570
5.8	44	82	6	11840580	11850580
5.9	44	82	6	11840590	11850590
6.0	44	82	6	11840600	11850600

Twist Drills with Straight shank, Solid Carbide, DIN6537L, FN



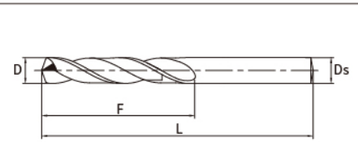
材质		Material		Solid Carbide	Solid Carbide(inner coolant)
切削方向		Cutting direction		R.H.	R.H.
修磨横刃		Web thinning		Conical	Conical
顶角		Point angle		140°	140°
表面处理		Surface		FN	FN
精度		Tolerance		m7	m7
系列号		List No.		1184	1185
刃径	刃长	全长	柄径	SKU	SKU
D	F	L	Ds		
6.1	53	91	8	11840610	11850610
6.2	53	91	8	11840620	11850620
6.3	53	91	8	11840630	11850630
6.4	53	91	8	11840640	11850640
6.5	53	91	8	11840650	11850650
6.6	53	91	8	11840660	11850660
6.7	53	91	8	11840670	11850670
6.8	53	91	8	11840680	11850680
6.9	53	91	8	11840690	11850690
7.0	53	91	8	11840700	11850700
7.1	53	91	8	11840710	11850710
7.2	53	91	8	11840720	11850720
7.3	53	91	8	11840730	11850730
7.4	53	91	8	11840740	11850740
7.5	53	91	8	11840750	11850750
7.6	53	91	8	11840760	11850760
7.7	53	91	8	11840770	11850770
7.8	53	91	8	11840780	11850780
7.9	53	91	8	11840790	11850790
8.0	53	91	8	11840800	11850800
8.1	61	103	10	11840810	11850810
8.2	61	103	10	11840820	11850820
8.3	61	103	10	11840830	11850830
8.4	61	103	10	11840840	11850840
8.5	61	103	10	11840850	11850850
8.6	61	103	10	11840860	11850860
8.7	61	103	10	11840870	11850870
8.8	61	103	10	11840880	11850880
8.9	61	103	10	11840890	11850890
9.0	61	103	10	11840900	11850900
9.1	61	103	10	11840910	11850910

Twist Drills with Straight shank, Solid Carbide, DIN6537L, FN



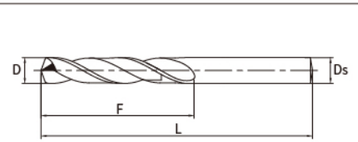
材质		Material		Solid Carbide	Solid Carbide(inner coolant)
切削方向		Cutting direction		R.H.	R.H.
修磨横刃		Web thinning		Conical	Conical
顶角		Point angle		140°	140°
表面处理		Surface		FN	FN
精度		Tolerance		m7	m7
系列号		List No.		1184	1185
刃径	刃长	全长	柄径	SKU	SKU
D	F	L	Ds		
9.2	61	103	10	11840920	11850920
9.3	61	103	10	11840930	11850930
9.4	61	103	10	11840940	11850940
9.5	61	103	10	11840950	11850950
9.6	61	103	10	11840960	11850960
9.7	61	103	10	11840970	11850970
9.8	61	103	10	11840980	11850980
9.9	61	103	10	11840990	11850990
10.0	61	103	10	11841000	11851000
10.1	71	118	12	11841010	11851010
10.2	71	118	12	11841020	11851020
10.3	71	118	12	11841030	11851030
10.4	71	118	12	11841040	11851040
10.5	71	118	12	11841050	11851050
10.6	71	118	12	11841060	11851060
10.7	71	118	12	11841070	11851070
10.8	71	118	12	11841080	11851080
10.9	71	118	12	11841090	11851090
11.0	71	118	12	11841100	11851100
11.1	71	118	12	11841110	11851110
11.2	71	118	12	11841120	11851120
11.3	71	118	12	11841130	11851130
11.4	71	118	12	11841140	11851140
11.5	71	118	12	11841150	11851150
11.6	71	118	12	11841160	11851160
11.7	71	118	12	11841170	11851170
11.8	71	118	12	11841180	11851180
11.9	71	118	12	11841190	11851190
12.0	71	118	12	11841200	11851200
12.1	77	124	14	11841210	11851210
12.2	77	124	14	11841220	11851220

Twist Drills with Straight shank, Solid Carbide, DIN6537L, FN



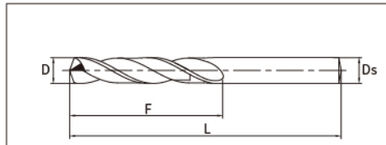
材质		Material		Solid Carbide	Solid Carbide(inner coolant)
切削方向		Cutting direction		R.H.	R.H.
修磨横刃		Web thinning		Conical	Conical
顶角		Point angle		140°	140°
表面处理		Surface		FN	FN
精度		Tolerance		m7	m7
系列号		List No.		1184	1185
刃径	刃长	全长	柄径	SKU	SKU
D	F	L	Ds		
12.3	77	124	14	11841230	11851230
12.4	77	124	14	11841240	11851240
12.5	77	124	14	11841250	11851250
12.6	77	124	14	11841260	11851260
12.7	77	124	14	11841270	11851270
12.8	77	124	14	11841280	11851280
12.9	77	124	14	11841290	11851290
13.0	77	124	14	11841300	11851300
13.1	77	124	14	11841310	11851310
13.2	77	124	14	11841320	11851320
13.3	77	124	14	11841330	11851330
13.4	77	124	14	11841340	11851340
13.5	77	124	14	11841350	11851350
13.6	77	124	14	11841360	11851360
13.7	77	124	14	11841370	11851370
13.8	77	124	14	11841380	11851380
13.9	77	124	14	11841390	11851390
14.0	77	124	14	11841400	11851400
14.1	83	133	16	11841410	11851410
14.2	83	133	16	11841420	11851420
14.3	83	133	16	11841430	11851430
14.4	83	133	16	11841440	11851440
14.5	83	133	16	11841450	11851450
14.6	83	133	16	11841460	11851460
14.7	83	133	16	11841470	11851470
14.8	83	133	16	11841480	11851480
14.9	83	133	16	11841490	11851490
15.0	83	133	16	11841500	11851500
15.1	83	133	16	11841510	11851510
15.2	83	133	16	11841520	11851520
15.3	83	133	16	11841530	11851530

Twist Drills with Straight shank, Solid Carbide, DIN6537L, FN



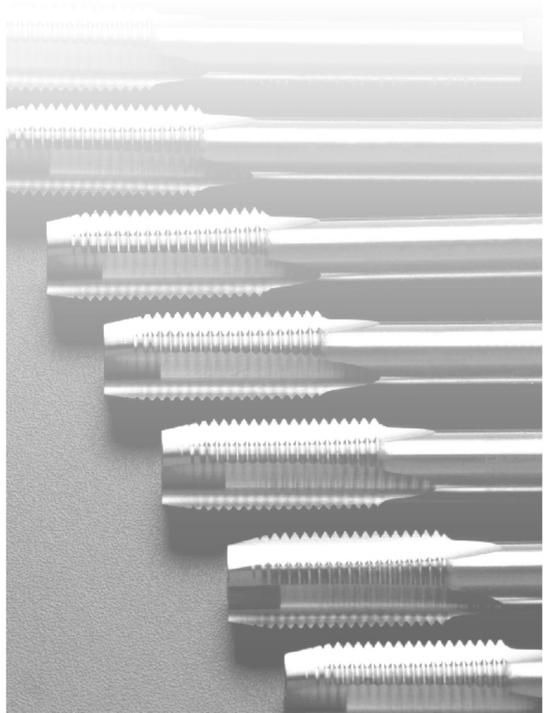
材质		Material		Solid Carbide	Solid Carbide(inner coolant)
切削方向		Cutting direction		R.H.	R.H.
修磨横刃		Web thinning		Conical	Conical
顶角		Point angle		140°	140°
表面处理		Surface		FN	FN
精度		Tolerance		m7	m7
系列号		List No.		1184	1185
刃径	刃长	全长	柄径	SKU	SKU
D	F	L	Ds		
15.4	83	133	16	11841540	11851540
15.5	83	133	16	11841550	11851550
15.6	83	133	16	11841560	11851560
15.7	83	133	16	11841570	11851570
15.8	83	133	16	11841580	11851580
15.9	83	133	16	11841590	11851590
16.0	83	133	16	11841600	11851600
16.1	93	143	18	11841610	11851610
16.2	93	143	18	11841620	11851620
16.3	93	143	18	11841630	11851630
16.4	93	143	18	11841640	11851640
16.5	93	143	18	11841650	11851650
16.6	93	143	18	11841660	11851660
16.7	93	143	18	11841670	11851670
16.8	93	143	18	11841680	11851680
16.9	93	143	18	11841690	11851690
17.0	93	143	18	11841700	11851700
17.1	93	143	18	11841710	11851710
17.2	93	143	18	11841720	11851720
17.3	93	143	18	11841730	11851730
17.4	93	143	18	11841740	11851740
17.5	93	143	18	11841750	11851750
17.6	93	143	18	11841760	11851760
17.7	93	143	18	11841770	11851770
17.8	93	143	18	11841780	11851780
17.9	93	143	18	11841790	11851790
18.0	93	143	18	11841800	11851800
18.1	101	153	20	11841810	11851810
18.2	101	153	20	11841820	11851820
18.3	101	153	20	11841830	11851830
18.4	101	153	20	11841840	11851840

Twist Drills with Straight shank, Solid Carbide, DIN6537L, FN



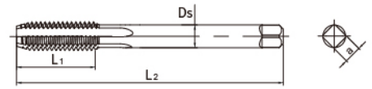
材质		Material		Solid Carbide	Solid Carbide(inner coolant)
切削方向		Cutting direction		R.H.	R.H.
修磨横刃		Web thinning		Conical	Conical
顶角		Point angle		140°	140°
表面处理		Surface		FN	FN
精度		Tolerance		m7	m7
系列号		List No.		1184	1185
刃径	刃长	全长	柄径	SKU	SKU
D	F	L	Ds		
18.5	101	153	20	11841850	11851850
18.6	101	153	20	11841860	11851860
18.7	101	153	20	11841870	11851870
18.8	101	153	20	11841880	11851880
18.9	101	153	20	11841890	11851890
19.0	101	153	20	11841900	11851900
19.1	101	153	20	11841910	11851910
19.2	101	153	20	11841920	11851920
19.3	101	153	20	11841930	11851930
19.4	101	153	20	11841940	11851940
19.5	101	153	20	11841950	11851950
19.6	101	153	20	11841960	11851960
19.7	101	153	20	11841970	11851970
19.8	101	153	20	11841980	11851980
19.9	101	153	20	11841990	11851990
20.0	101	153	20	11842000	11852000

TAPS
丝锥





Hand Taps 3pcs/set, HSS/HSCo-5, DIN352

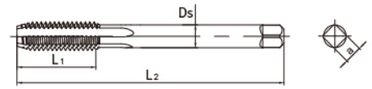






材质					Material				HSS	HSCo-5
标准					Standard				DIN352	DIN352
孔型					Type of hole				BL and TH	BL and TH
牙形角					Thread angle				60°	60°
切削牙					Length of chamfer				—	—
表面处理					Surface Treatment				Bright	Bronze
精度					Tolerance				h2	h2
系列号					List No.				2101	2102
规格	螺距	螺纹长度	全长	柄径	方尾	槽数	外形	底孔尺寸	SKU	SKU
Size	P	L1	L2	Ds	a*a	Flute No.	Type	Drill Size		
M3	0.5	11	40	3.5	2.7	3	1	—	21010305	21020305
M4	0.7	13	45	4.5	3.4	3	1	—	21010407	21020407
M5	0.8	16	50	6	4.9	3	1	—	21010508	21020508
M6	1	19	50	6	4.9	3	1	—	21010610	21020610
M8	1.25	22	56	6	4.9	4	2	—	21010812	21020812
M10	1.5	24	70	7	5.5	4	2	—	21011015	21021015
M12	1.75	29	75	9	7	4	2	—	21011217	21021217
M14	2	30	80	11	9	4	2	—	21011420	21021420
M16	2	32	80	12	9	4	2	—	21011620	21021620
M18	2.5	40	95	14	11	4	2	—	21011825	21021825
M20	2.5	40	95	16	12	4	2	—	21012025	21022025
M22	2.5	40	100	18	14.5	4	2	—	21012225	21022225
M24	3	50	110	18	14.5	4	2	—	21012430	21022430

General purpose straight flute machine Taps, HSS/HSCo-5, GB/T 3464.1-94



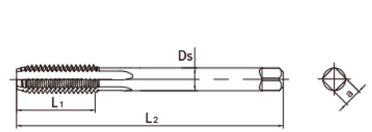






材质					Material				HSS	HSS	HSCo-5
标准					Standard				GB/T 3464.1-94	GB/T 3464.1-94	GB/T 3464.1-94
孔型					Type of hole				BL and TH	BL and TH	BL and TH
牙形角					Thread angle				60°	60°	60°
切削牙					Length of chamfer				4-5	4-5	4-5
表面处理					Surface Treatment				Bright	TiN	Bronze
精度					Tolerance				h2	h2	h2
系列号					List No.				2201	2202	2203
规格	螺距	螺纹长度	全长	柄径	方尾	槽数	外形	底孔尺寸	SKU	SKU	SKU
Size	P	L1	L2	Ds	a*a	Flute No.	Type	Drill Size			
M1.6	0.35	8	41	2.5	2	3	1	1.25	22011635	22021635	22031635
M2	0.4	8	41	2.5	2	3	1	1.6	22010204	22020204	22030204
M2.5	0.45	10	45	2.8	2.24	3	1	2.05	22012545	22022545	22032545
M3	0.5	11	48	3.15	2.5	3	1	2.5	22010305	22020305	22030305
M3	0.35	11	48	3.15	2.5	3	1	2.65	22010303	22020303	22030303
M4	0.7	13	53	4	3.15	3	1	3.3	22010407	22020407	22030407
M4	0.5	13	53	4	3.15	3	1	3.5	22010405	22020405	22030405
M5	0.8	16	58	5	4	3	1	4.2	22010508	22020508	22030508
M5	0.5	16	58	5	4	3	1	4.5	22010505	22020505	22030505
M6	1	19	66	6.3	5	3	1	5	22010610	22020610	22030610
M6	0.75	19	66	6.3	5	3	1	5.3	22010607	22020607	22030607
M6	0.5	19	66	6.3	5	3	1	5.5	22010605	22020605	22030605
M8	1.25	22	72	6.3	5	3	2	6.8	22010812	22020812	22030812
M8	1	22	72	6.3	5	3	2	7	22010810	22020810	22030810
M8	0.75	19	66	6.3	5	3	2	7.3	22010707	22020707	22030707
M10	1.5	24	80	8	6.3	3	2	8.5	22011015	22021015	22031015
M10	1.25	24	80	8	6.3	3	2	8.8	22011012	22021012	22031012
M10	1	24	80	8	6.3	3	2	9	22011010	22021010	22031010
M10	0.75	20	73	8	6.3	3	2	9.3	22011007	22021007	22031007
M12	1.75	29	89	9	7.1	4	2	10.2	22011217	22021217	22031217
M12	1.5	29	89	9	7.1	4	2	10.5	22011215	22021215	22031215
M12	1.25	29	89	9	7.1	4	2	10.8	22011212	22021212	22031212
M12	1	22	80	9	7.1	4	2	11	22011210	22021210	22031210
M14	2	30	95	11.2	9	4	2	12	22011420	22021420	22031420
M14	1.5	30	95	11.2	9	4	2	12.5	22011415	22021415	22031415
M14	1.25	30	95	11.2	9	4	2	12.8	22011412	22021412	22031412
M14	1	22	87	11.2	9	4	2	13	22011410	22021410	22031410
M16	2	32	102	12.5	10	4	2	14	22011620	22021620	22031620
M16	1.5	32	102	12.5	10	4	2	14.5	22011615	22021615	22031615
M16	1	22	92	12.5	10	4	2	15	22011610	22021610	22031610

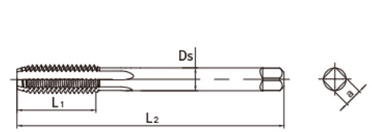
General purpose straight flute machine Taps, HSS/HSCo-5, GB/T 3464.1-94





材质					Material				HSS	HSS	HSCo-5
标准					Standard				GB/T 3464.1-94	GB/T 3464.1-94	GB/T 3464.1-94
孔型					Type of hole				BL and TH	BL and TH	BL and TH
牙形角					Thread angle				60°	60°	60°
切削牙					Length of chamfer				4-5	4-5	4-5
表面处理					Surface Treatment				Bright	TiN	Bronze
精度					Tolerance				h2	h2	h2
系列号					List No.				2201	2202	2203
规格	螺距	螺纹长度	全长	柄径	方尾	槽数	外形	底孔尺寸	SKU	SKU	SKU
Size	P	L1	L2	Ds	a*a	Flute No.	Type	Drill Size			
M18	2.5	37	112	14	11.2	4	2	15.5	22011825	22021825	22031825
M18	2	37	112	14	11.2	4	2	16	22011820	22021820	22031820
M18	1.5	37	112	14	11.2	4	2	16.5	22011815	22021815	22031815
M18	1	22	97	14	11.2	4	2	17	22011810	22021810	22031810
M20	2.5	37	112	14	11.2	4	2	17.5	22012025	22022025	22032025
M20	2	37	112	14	11.2	4	2	18	22012020	22022020	22032020
M20	1.5	37	112	14	11.2	4	2	18.5	22012015	22022015	22032015
M20	1	22	102	14	11.2	4	2	19	22012010	22022010	22032010
M22	2.5	38	118	16	12.5	4	2	19.5	22012225	22022225	22032225
M22	2	38	118	16	12.5	4	2	20	22012220	22022220	22032220
M22	1.5	38	118	16	12.5	4	2	20.5	22012215	22022215	22032215
M22	1	24	109	16	12.5	4	2	21	22012210	22022210	22032210
M24	3	45	130	18	14	4	2	21	22012430	22022430	22032430
M24	2	45	130	18	14	4	2	22	22012420	22022420	22032420
M24	1.5	45	130	18	14	4	2	22.5	22012415	22022415	22032415
M24	1	24	114	18	14	4	2	23	22012410	22022410	22032410
M27	3	45	135	20	16	4	2	24	22012730	22022730	22032730
M27	2	37	127	20	16	4	2	25	22012720	22022720	22032720
M27	1.5	37	127	20	16	4	2	25.5	22012715	22022715	22032715
M27	1	25	120	20	16	4	2	26	22012710	22022710	22032710
M30	3.5	48	138	20	16	4	2	26.5	22013035	22023035	22033035
M30	2	37	127	20	16	4	2	28	22013020	22023020	22033020
M30	1.5	37	127	20	16	4	2	28.5	22013015	22023015	22033015
M30	1	25	120	20	16	4	2	29	22013010	22023010	22033010
M33	3.5	51	151	22.4	18	4	2	29.5	22013335	22023335	22033335
M33	2	37	137	22.4	18	4	2	31	22013320	22023320	22033320
M33	1.5	37	137	22.4	18	4	2	31.5	22013315	22023315	22033315
M36	4	57	162	25	20	4	2	32	22013640	22023640	22033640
M36	3	57	162	25	20	4	2	33	22013630	22023630	22033630
M36	2	39	144	25	20	4	2	34	22013620	22023620	22033620

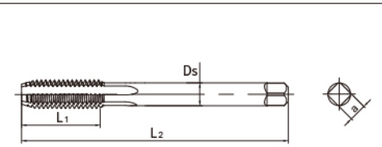
General purpose straight flute machine Taps, HSS/HSCo-5, GB/T 3464.1-94





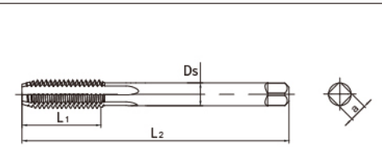
材质					Material				HSS	HSS	HSCo-5
标准					Standard				GB/T 3464.1-94	GB/T 3464.1-94	GB/T 3464.1-94
孔型					Type of hole				BL and TH	BL and TH	BL and TH
牙形角					Thread angle				60°	60°	60°
切削牙					Length of chamfer				4-5	4-5	4-5
表面处理					Surface Treatment				Bright	TiN	Bronze
精度					Tolerance				h2	h2	h2
系列号					List No.				2201	2202	2203
规格	螺距	螺纹长度	全长	柄径	方尾	槽数	外形	底孔尺寸	SKU	SKU	SKU
Size	P	L1	L2	Ds	a*a	Flute No.	Type	Drill Size			
M36	1.5	39	144	25	20	4	2	34.5	22013615	22023615	22033615
M39	4	60	170	28	22.4	4	2	35	22013940	22023940	22033940
M39	3	60	170	28	22.4	4	2	36	22013940	22023940	22033940
M39	2	39	149	28	22.4	4	2	37	22013920	22023920	22033920
M39	1.5	39	149	28	22.4	4	2	37.5	22013915	22023915	22033915
M42	4.5	60	170	28	22.4	4	2	37.5	22014245	22024245	22034245
M42	3	60	170	28	22.4	4	2	39	22014230	22024230	22034230
M42	2	39	149	28	22.4	4	2	40	22014220	22024220	22034220
M42	1.5	39	149	28	22.4	4	2	40.5	22014215	22024215	22034215
M45	4.5	67	187	31.5	25	4	2	40.5	22014545	22024545	22034545
M45	3	67	187	31.5	25	4	2	42	22014530	22024530	22034530
M45	2	45	165	31.5	25	4	2	43	22014520	22024520	22034520
M45	1.5	45	165	31.5	25	4	2	43.5	22014515	22024515	22034515
M48	5	67	187	31.5	25	4	2	43	22014850	22024850	22034850
M48	3	67	187	31.5	25	4	2	45	22014830	22024830	22034830
M48	2	45	165	31.5	25	4	2	46	22014820	22024820	22034820
M48	1.5	45	165	31.5	25	4	2	46.5	22014815	22024815	22034815
M52	5	70	200	35.5	28	4	2	47	22015250	22025250	22035250
M52	3	70	200	35.5	28	4	2	49	22015230	22025230	22035230
M52	2	45	175	35.5	28	4	2	50	22015220	22025220	22035220
M52	1.5	45	175	35.5	28	4	2	50.5	22015215	22025215	22035215

General purpose spiral flute machine Taps, HSS/HSCo-5, GB/T 3506-93



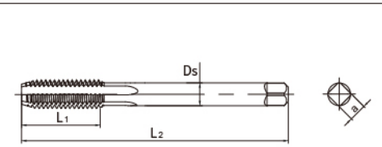
材质		Material			HSS	HSS	HSCo-5
标准		Standard			GB/T 3506-93	GB/T 3506-93	GB/T 3506-93
孔型		Type of hole			TH	TH	TH
牙形角		Thread angle			60°	60°	60°
切削牙		Length of chamfer			2-3	2-3	2-3
表面处理		Surface Treatment			Bright	TiN	Bronze
精度		Tolerance			h2	h2	h2
系列号		List No.			2301	2302	2303
规格	螺距	螺纹长度	全长	柄径	方尾	槽数	外形	底孔尺寸	SKU	SKU	SKU
Size	P	L1	L2	Ds	a*a	Flute No.	Type	Drill Size			
M3	0.5	11	48	3.15	2.5	3	1	2.5	23010305	23020305	23030305
M3	0.35	11	48	3.15	2.5	3	1	2.65	23010303	23020303	23030303
M4	0.7	13	53	4	3.15	3	1	3.3	23010407	23020407	23030407
M4	0.5	13	53	4	3.15	3	1	3.5	23010405	23020405	23030405
M5	0.8	16	58	5	4	3	1	4.2	23010508	23020508	23030508
M5	0.5	16	58	5	4	3	1	4.5	23010505	23020505	23030505
M6	1	19	66	6.3	5	3	1	5	23010610	23020610	23030610
M6	0.75	19	66	6.3	5	3	1	5.3	23010607	23020607	23030607
M8	1.25	22	72	6.3	5	3	2	6.8	23010812	23020812	23030812
M8	1	19	69	6.3	5	3	2	7	23010810	23020810	23030810
M10	1.5	24	80	8	6.3	3	2	8.5	23011015	23021015	23031015
M10	1.25	20	76	8	6.3	3	2	8.8	23011012	23021012	23031012
M10	1	20	76	8	6.3	3	2	9	23011010	23021010	23031010
M12	1.75	29	89	9	7.1	3	2	10.2	23011217	23021217	23031217
M12	1.5	29	89	9	7.1	3	2	10.5	23011215	23021215	23031215
M12	1.25	24	84	9	7.1	3	2	10.8	23011212	23021212	23031212
M14	2	30	95	11.2	9	3	2	12	23011420	23021420	23031420
M14	1.5	30	95	11.2	9	3	2	12.5	23011415	23021415	23031415
M14	1.25	25	90	11.2	9	3	2	12.8	23011412	23021412	23031412
M16	2	32	102	12.5	10	3	2	14	23011620	23021620	23031620
M16	1.5	32	102	12.5	10	3	2	14.5	23011615	23021615	23031615
M18	2.5	37	112	14	11.2	4	2	15.5	23011825	23021825	23031825
M18	2	37	112	14	11.2	4	2	16	23011820	23021820	23031820
M18	1.5	29	104	14	11.2	4	2	16.5	23011815	23021815	23031815
M20	2.5	37	112	14	11.2	4	2	17.5	23012025	23022025	23032025
M20	2	37	112	14	11.2	4	2	18	23012020	23022020	23032020
M20	1.5	29	104	14	11.2	4	2	18.5	23012015	23022015	23032015
M22	2.5	38	118	16	12.5	4	2	19.5	23012225	23022225	23032225
M22	2	38	118	16	12.5	4	2	20	23012220	23022220	23032220
M22	1.5	33	113	16	12.5	4	2	20.5	23012215	23022215	23032215

General purpose spiral flute machine Taps, HSS/HSCo-5, GB/T 3506-93



材质		Material			HSS	HSS	HSCo-5
标准		Standard			GB/T 3506-93	GB/T 3506-93	GB/T 3506-93
孔型		Type of hole			TH	TH	TH
牙形角		Thread angle			60°	60°	60°
切削牙		Length of chamfer			2-3	2-3	2-3
表面处理		Surface Treatment			Bright	TiN	Bronze
精度		Tolerance			h2	h2	h2
系列号		List No.			2301	2302	2303
规格	螺距	螺纹长度	全长	柄径	方尾	槽数	外形	底孔尺寸	SKU	SKU	SKU
Size	P	L1	L2	Ds	a*a	Flute No.	Type	Drill Size			
M24	3	45	130	18	14	4	2	21	23012430	23022430	23032430
M24	2	35	120	18	14	4	2	22	23012420	23022420	23032420
M24	1.5	35	120	18	14	4	2	22.5	23012415	23022415	23032415
M27	3	45	135	20	16	4	2	24	23012730	23022730	23032730
M27	2	37	127	20	16	4	2	25	23012720	23022720	23032720
M27	1.5	37	127	20	16	4	2	25.5	23012715	23022715	23032715
M30	3.5	48	138	20	16	4	2	26.5	23013035	23023035	23033035
M30	2	37	127	20	16	4	2	28	23013020	23023020	23033020
M30	1.5	37	127	20	16	4	2	28.5	23013015	23023015	23033015
M33	3.5	51	151	22.4	18	4	2	29.5	23013335	23023335	23033335
M33	2	37	137	22.4	18	4	2	31	23013320	23023320	23033320
M33	1.5	37	137	22.4	18	4	2	31.5	23013315	23023315	23033315

General purpose spiral point machine Taps, HSS/HSCo-5, JB 5612-91





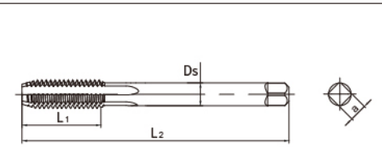




材质		Material			HSS	HSS	HSCo-5
标准		Standard			JB 5612-91	JB 5612-91	JB 5612-91
孔型		Type of hole			TH	TH	TH
牙形角		Thread angle			60°	60°	60°
切削牙		Length of chamfer			4-5	4-5	4-5
表面处理		Surface Treatment			Bright	TiN	Bronze
精度		Tolerance			h2	h2	h2
系列号		List No.			2401	2402	2403

规格	螺距	螺纹长度	全长	柄径	方尾	槽数	外形	底孔尺寸	SKU	SKU	SKU
Size	P	L1	L2	Ds	a*a	Flute No.	Type	Drill Size			
M3	0.5	11	48	3.15	2.5	3	1	2.5	24010305	24020305	24030305
M3	0.35	11	48	3.15	2.5	3	1	2.65	24010303	24020303	24030303
M4	0.7	13	53	4	3.15	3	1	3.3	24010407	24020407	24030407
M4	0.5	13	53	4	3.15	3	1	3.5	24010405	24020405	24030405
M5	0.8	16	58	5	4	3	1	4.2	24010508	24020508	24030508
M5	0.5	16	58	5	4	3	1	4.5	24010505	24020505	24030505
M6	1	19	66	6.3	5	3	1	5	24010610	24020610	24030610
M6	0.75	19	66	6.3	5	3	1	5.3	24010607	24020607	24030607
M8	1.25	22	72	6.3	5	3	2	6.8	24010812	24020812	24030812
M8	1	19	69	6.3	5	3	2	7	24010810	24020810	24030810
M8	0.75	19	66	6.3	5	3	2	7.3	24010807	24020807	24030807
M10	1.5	24	80	8	6.3	3	2	8.5	24011015	24021015	24031015
M10	1.25	20	76	8	6.3	3	2	8.8	24011012	24021012	24031012
M10	1	20	76	8	6.3	3	2	9	24011010	24021010	24031010
M10	0.75	20	73	8	6.3	3	2	9.3	24011007	24021007	24031007
M12	1.75	29	89	9	7.1	3	2	10.2	24011217	24021217	24031217
M12	1.5	29	89	9	7.1	3	2	10.5	24011215	24021215	24031215
M12	1.25	24	84	9	7.1	3	2	10.8	24011212	24021212	24031212
M12	1	22	80	9	7.1	3	2	11	24011210	24021210	24031210
M14	2	30	95	11.2	9	3	2	12	24011420	24021420	24031420
M14	1.5	30	95	11.2	9	3	2	12.5	24011415	24021415	24031415
M14	1.25	25	90	11.2	9	3	2	12.8	24011412	24021412	24031412
M14	1	22	87	11.2	9	3	2	13	24011410	24021410	24031410
M16	2	32	102	12.5	10	3	2	14	24011620	24021620	24031620
M16	1.5	32	102	12.5	10	3	2	14.5	24011615	24021615	24031615
M16	1	22	92	12.5	10	3	2	15	24011610	24021610	24031610
M18	2.5	37	112	14	11.2	3	2	15.5	24011825	24021825	24031825
M18	2	37	112	14	11.2	3	2	16	24011820	24021820	24031820
M18	1.5	29	104	14	11.2	3	2	16.5	24011815	24021815	24031815
M18	1	22	97	14	11.2	3	2	17	24011810	24021810	24031810

General purpose spiral point machine Taps, HSS/HSCo-5, JB 5612-91





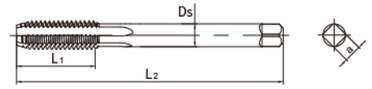




材质		Material			HSS	HSS	HSCo-5
标准		Standard			JB 5612-91	JB 5612-91	JB 5612-91
孔型		Type of hole			TH	TH	TH
牙形角		Thread angle			60°	60°	60°
切削牙		Length of chamfer			4-5	4-5	4-5
表面处理		Surface Treatment			Bright	TiN	Bronze
精度		Tolerance			h2	h2	h2
系列号		List No.			2401	2402	2403

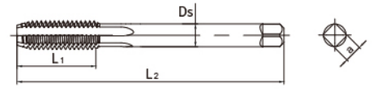
规格	螺距	螺纹长度	全长	柄径	方尾	槽数	外形	底孔尺寸	SKU	SKU	SKU
Size	P	L1	L2	Ds	a*a	Flute No.	Type	Drill Size			
M20	2.5	37	112	14	11.2	3	2	17.5	24012025	24022025	24032025
M20	2	37	112	14	11.2	3	2	18	24012020	24022020	24032020
M20	1.5	29	104	14	11.2	3	2	18.5	24012015	24022015	24032015
M20	1	22	102	14	11.2	3	2	19	24012010	24022010	24032010
M22	2.5	38	118	16	12.5	3	2	19.5	24012225	24022225	24032225
M22	2	38	118	16	12.5	3	2	20	24012220	24022220	24032220
M22	1.5	33	113	16	12.5	3	2	20.5	24012215	24022215	24032215
M22	1	24	109	16	12.5	3	2	21	24012210	24022210	24032210
M24	3	45	130	18	14	3	2	21	24012430	24022430	24032430
M24	2	35	120	18	14	3	2	22	24012420	24022420	24032420
M24	1.5	35	120	18	14	3	2	22.5	24012415	24022415	24032415
M24	1	24	114	18	14	3	2	23	24012410	24022410	24032410

General purpose straight flute machine taps, HSS/HSCo-5, DIN371



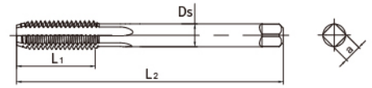
材质		Material			HSS	HSS	HSCo-5
标准		Standard			DIN371	DIN371	DIN371
孔型		Type of hole			BL and TH	BL and TH	BL and TH
牙形角		Thread angle			60°	60°	60°
切削牙		Length of chamfer			—	—	—
表面处理		Surface Treatment			Bright	TiN	Bronze
精度		Tolerance			6h	6h	6h
系列号		List No.			2204	2205	2206
规格	螺距	螺纹长度	全长	柄径	方尾	槽数	外形	底孔尺寸	SKU	SKU	SKU
Size	P	L1	L2	Ds	a*a	Flute No.	Type	Drill Size			
M3	0.5	11	56	3.5	2.7	3	1	—	22040305	22050305	22060305
M4	0.7	13	63	4.5	3.4	3	1	—	22040407	22050407	22060407
M5	0.8	16	70	6	4.9	3	1	—	22040508	22050508	22060508
M6	1	19	80	6	4.9	3	1	—	22040610	22050610	22060610
M8	1.25	22	90	8	6.2	4	2	—	22040812	22050812	22060812
M10	1.5	24	100	10	8	4	2	—	22041015	22051015	22061015

General purpose straight flute machine Taps, HSS/HSCo-5, DIN376



材质		Material			HSS	HSS	HSCo-5
标准		Standard			DIN376	DIN376	DIN376
孔型		Type of hole			BL and TH	BL and TH	BL and TH
牙形角		Thread angle			60°	60°	60°
切削牙		Length of chamfer			—	—	—
表面处理		Surface Treatment			Bright	TiN	Bronze
精度		Tolerance			6h	6h	6h
系列号		List No.			2207	2208	2209
规格	螺距	螺纹长度	全长	柄径	方尾	槽数	外形	底孔尺寸	SKU	SKU	SKU
Size	P	L1	L2	Ds	a*a	Flute No.	Type	Drill Size			
M3	0.5	11	56	2.2	1.85	3	1	—	22070305	22080305	22090305
M4	0.7	13	63	2.8	2.1	3	1	—	22070407	22080407	22090407
M5	0.8	16	70	3.5	2.7	3	1	—	22070508	22080508	22090508
M6	1	19	80	4.5	3.4	3	1	—	22070610	22080610	22090610
M8	1.25	22	90	6	4.9	4	2	—	22070812	22080812	22090812
M10	1.5	24	100	7	5.5	4	2	—	22071015	22081015	22091015
M12	1.75	29	110	9	7	4	2	—	22071217	22081217	22091217
M14	2	30	110	11	9	4	2	—	22071420	22081420	22091420
M16	2	32	110	12	9	4	2	—	22071620	22081620	22091620
M18	2.5	34	125	14	11	4	2	—	22071825	22081825	22091825
M20	2.5	34	140	16	12	4	2	—	22072025	22082025	22092025
M22	2.5	34	140	18	14.5	4	2	—	22072225	22082225	22092225
M24	3	38	160	18	14.5	4	2	—	22072430	22082430	22092430
M27	3	38	160	20	16	4	2	—	22072730	22082730	22092730
M30	3.5	45	180	22	18	4	2	—	22073035	22083035	22093035

General purpose straight flute machine Taps, HSS/HSCo-5, DIN374



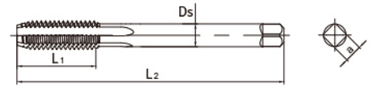






材质		Material			HSS	HSS	HSCo-5
标准		Standard			DIN374	DIN374	DIN374
孔型		Type of hole			BL and TH	BL and TH	BL and TH
牙形角		Thread angle			60°	60°	60°
切削牙		Length of chamfer			—	—	—
表面处理		Surface Treatment			Bright	TiN	Bronze
精度		Tolerance			6h	6h	6h
系列号		List No.			2210	2211	2212
规格	螺距	螺纹长度	全长	柄径	方尾	槽数	外形	底孔尺寸	SKU	SKU	SKU
Size	P	L1	L2	Ds	a*a	Flute No.	Type	Drill Size			
M3	0.35	9	56	2.2	1.85	3	1	—	22100305	22110305	22120305
M4	0.5	10	63	2.8	2.1	3	1	—	22100407	22110407	22120407
M5	0.5	12	70	3.5	2.7	3	1	—	22100508	22110508	22120508
M6	0.75	14	80	4.5	3.4	3	1	—	22100610	22110610	22120610
M8	1	22	90	6	4.9	4	2	—	22100812	22110812	22120812
M10	1.25	24	100	7	5.5	4	2	—	22101015	22111015	22121015
M12	1.5	22	100	9	7	4	2	—	22101217	22111217	22121217
M14	1.5	22	100	11	9	4	2	—	22101420	22111420	22121420
M16	1.5	22	100	12	9	4	2	—	22101620	22111620	22121620
M18	2	34	125	14	11	4	2	—	22101825	22111825	22121825
M20	2	34	140	16	12	4	2	—	22102025	22112025	22122025
M22	2	34	140	18	14.5	4	2	—	22102225	22112225	22122225
M24	2	28	140	18	14.5	4	2	—	22102430	22112430	22122430
M27	2	28	140	20	16	4	2	—	22102730	22112730	22122730
M30	2	28	150	22	18	4	2	—	22103035	22113035	22123035

General purpose spiral flute taps, HSS/HSCo-5, DIN371

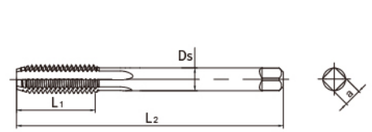






材质		Material			HSS	HSS	HSCo-5
标准		Standard			DIN371	DIN371	DIN371
孔型		Type of hole			BL	BL	BL
牙形角		Thread angle			60°	60°	60°
切削牙		Length of chamfer			—	—	—
表面处理		Surface Treatment			Bright	TiN	Bronze
精度		Tolerance			6h	6h	6h
系列号		List No.			2304	2305	2306
规格	螺距	螺纹长度	全长	柄径	方尾	槽数	外形	底孔尺寸	SKU	SKU	SKU
Size	P	L1	L2	Ds	a*a	Flute No.	Type	Drill Size			
M3	0.5	5	56	3.5	2.7	3	1	—	23040305	23050305	23060305
M4	0.7	7	63	4.5	3.4	3	1	—	23040407	23050407	23060407
M5	0.8	8	70	6	4.9	3	1	—	23040508	23050508	23060508
M6	1	10	80	6	4.9	3	1	—	23040610	23050610	23060610
M8	1.25	13	90	8	6.2	3	2	—	23040812	23050812	23060812
M10	1.5	15	100	10	8	3	2	—	23041015	23051015	23061015

General purpose spiral flute taps, HSS/HSCo-5, DIN376

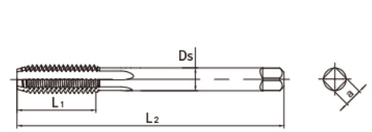




材质		Material	HSS	HSS	HSCo-5
标准		Standard	DIN376	DIN376	DIN376
孔型		Type of hole	BL	BL	BL
牙形角		Thread angle	60°	60°	60°
切削牙		Length of chamfer	—	—	—
表面处理		Surface Treatment	Bright	TiN	Bronze
精度		Tolerance	6h	6h	6h
系列号		List No.	2307	2308	2309

规格	螺距	螺纹长度	全长	柄径	方尾	槽数	外形	底孔尺寸	SKU	SKU	SKU
Size	P	L1	L2	Ds	a*a	Flute No.	Type	Drill Size			
M3	0.5	5	56	2.2	1.85	3	1	—	23070305	23080305	23090305
M4	0.7	7	63	2.8	2.1	3	1	—	23070407	23080407	23090407
M5	0.8	8	70	3.5	2.7	3	1	—	23070508	23080508	23090508
M6	1	10	80	4.5	3.4	3	1	—	23070610	23080610	23090610
M8	1.25	13	90	6	4.9	3	2	—	23070812	23080812	23090812
M10	1.5	15	100	7	5.5	3	2	—	23071015	23081015	23091015
M12	1.75	18	110	9	7	3	2	—	23071217	23081217	23091217
M14	2	20	110	11	9	3	2	—	23071420	23081420	23091420
M16	2	20	110	12	9	3	2	—	23071620	23081620	23091620
M18	2.5	25	125	14	11	4	2	—	23071825	23081825	23091825
M20	2.5	25	140	16	12	4	2	—	23072025	23082025	23092025
M22	2.5	25	140	18	14.5	4	2	—	23072225	23082225	23092225
M24	3	30	160	18	14.5	4	2	—	23072430	23082430	23092430
M27	3	30	160	20	16	4	2	—	23072730	23082730	23092730
M30	3.5	35	180	22	18	4	2	—	23073035	23083035	23093035

General purpose spiral flute taps, HSS/HSCo-5, DIN374

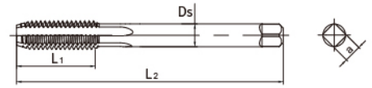




材质		Material	HSS	HSS	HSCo-5
标准		Standard	DIN374	DIN374	DIN374
孔型		Type of hole	BL	BL	BL
牙形角		Thread angle	60°	60°	60°
切削牙		Length of chamfer	—	—	—
表面处理		Surface Treatment	Bright	TiN	Bronze
精度		Tolerance	6h	6h	6h
系列号		List No.	2310	2311	2312

规格	螺距	螺纹长度	全长	柄径	方尾	槽数	外形	底孔尺寸	SKU	SKU	SKU
Size	P	L1	L2	Ds	a*a	Flute No.	Type	Drill Size			
M3	0.35	9	56	2.2	1.85	3	1	—	23100305	23110305	23120305
M4	0.5	10	63	2.8	2.1	3	1	—	23100407	23110407	23120407
M5	0.5	12	70	3.5	2.7	3	1	—	23100508	23110508	23120508
M6	0.75	14	80	4.5	3.4	3	1	—	23100610	23110610	23120610
M8	1	22	90	6	4.9	3	2	—	23100812	23110812	23120812
M10	1.25	24	100	7	5.5	3	2	—	23101015	23111015	23121015
M12	1.5	22	100	9	7	3	2	—	23101217	23111217	23121217
M14	1.5	22	100	11	9	3	2	—	23101420	23111420	23121420
M16	1.5	22	100	12	9	3	2	—	23101620	23111620	23121620
M18	2	34	125	14	11	4	2	—	23101825	23111825	23121825
M20	2	34	140	16	12	4	2	—	23102025	23112025	23122025
M22	2	34	140	18	14.5	4	2	—	23102225	23112225	23122225
M24	2	28	140	18	14.5	4	2	—	23102430	23112430	23122430
M27	2	28	140	20	16	4	2	—	23102730	23112730	23122730
M30	2	28	150	22	18	4	2	—	23103035	23113035	23123035

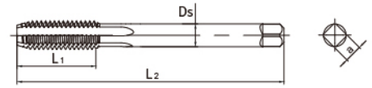
General purpose spiral point taps, HSS/HSCo-5, DIN371



材质		Material	HSS	HSS	HSCo-5
标准		Standard	DIN371	DIN371	DIN371
孔型		Type of hole	TH	TH	TH
牙形角		Thread angle	60°	60°	60°
切削牙		Length of chamfer	—	—	—
表面处理		Surface Treatment	Bright	TiN	Bronze
精度		Tolerance	6h	6h	6h
系列号		List No.	2404	2405	2406

规格	螺距	螺纹长度	全长	柄径	方尾	槽数	外形	底孔尺寸	SKU	SKU	SKU
Size	P	L1	L2	Ds	a*a	Flute No.	Type	Drill Size			
M3	0.5	11	56	3.5	2.7	3	1	—	24040305	24050305	24060305
M4	0.7	13	63	4.5	3.4	3	1	—	24040407	24050407	24060407
M5	0.8	16	70	6	4.9	3	1	—	24040508	24050508	24060508
M6	1	19	80	6	4.9	3	1	—	24040610	24050610	24060610
M8	1.25	22	90	8	6.2	3	2	—	24040812	24050812	24060812
M10	1.5	24	100	10	8	3	2	—	24041015	24051015	24061015

General purpose spiral point taps, HSS/HSCo-5, DIN376

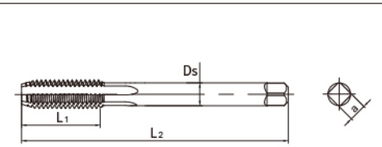





材质		Material	HSS	HSS	HSCo-5
标准		Standard	DIN376	DIN376	DIN376
孔型		Type of hole	TH	TH	TH
牙形角		Thread angle	60°	60°	60°
切削牙		Length of chamfer	—	—	—
表面处理		Surface Treatment	Bright	TiN	Bronze
精度		Tolerance	6h	6h	6h
系列号		List No.	2407	2408	2409

规格	螺距	螺纹长度	全长	柄径	方尾	槽数	外形	底孔尺寸	SKU	SKU	SKU
Size	P	L1	L2	Ds	a*a	Flute No.	Type	Drill Size			
M3	0.5	11	56	2.2	1.85	3	1	—	24070305	24080305	24090305
M4	0.7	13	63	2.8	2.1	3	1	—	24070407	24080407	24090407
M5	0.8	16	70	3.5	2.7	3	1	—	24070508	24080508	24090508
M6	1	19	80	4.5	3.4	3	1	—	24070610	24080610	24090610
M8	1.25	22	90	6	4.9	3	2	—	24070812	24080812	24090812
M10	1.5	24	100	7	5.5	3	2	—	24071015	24081015	24091015
M12	1.75	29	110	9	7	3	2	—	24071217	24081217	24091217
M14	2	30	110	11	9	3	2	—	24071420	24081420	24091420
M16	2	32	110	12	9	3	2	—	24071620	24081620	24091620
M18	2.5	34	125	14	11	3	2	—	24071825	24081825	24091825
M20	2.5	34	140	16	12	3	2	—	24072025	24082025	24092025
M22	2.5	34	140	18	14.5	3	2	—	24072225	24082225	24092225
M24	3	38	160	18	14.5	3	2	—	24072430	24082430	24092430
M27	3	38	160	20	16	4	2	—	24072730	24082730	24092730
M30	3.5	45	180	22	18	4	2	—	24073035	24083035	24093035

General purpose spiral point taps, HSS/HSCo-5, DIN374



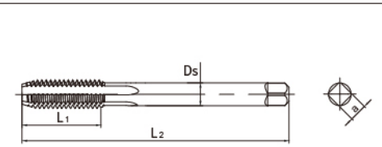






材质		Material			HSS	HSS	HSCo-5
标准		Standard			DIN374	DIN374	DIN374
孔型		Type of hole			TH	TH	TH
牙形角		Thread angle			60°	60°	60°
切削牙		Length of chamfer			—	—	—
表面处理		Surface Treatment			Bright	TiN	Bronze
精度		Tolerance			6h	6h	6h
系列号		List No.			2410	2411	2412
规格	螺距	螺纹长度	全长	柄径	方尾	槽数	外形	底孔尺寸	SKU	SKU	SKU
Size	P	L1	L2	Ds	a*a	Flute No.	Type	Drill Size			
M3	0.35	9	56	2.2	1.85	3	1	—	24100305	24110305	24120305
M4	0.5	10	63	2.8	2.1	3	1	—	24100407	24110407	24120407
M5	0.5	12	70	3.5	2.7	3	1	—	24100508	24110508	24120508
M6	0.75	14	80	4.5	3.4	3	1	—	24100610	24110610	24120610
M8	1	22	90	6	4.9	3	2	—	24100812	24110812	24120812
M10	1.25	24	100	7	5.5	3	2	—	24101015	24111015	24121015
M12	1.5	22	100	9	7	3	2	—	24101217	24111217	24121217
M14	1.5	22	100	11	9	3	2	—	24101420	24111420	24121420
M16	1.5	22	100	12	9	3	2	—	24101620	24111620	24121620
M18	2	34	125	14	11	3	2	—	24101825	24111825	24121825
M20	2	34	140	16	12	3	2	—	24102025	24112025	24122025
M22	2	34	140	18	14.5	3	2	—	24102225	24112225	24122225
M24	2	28	140	18	14.5	3	2	—	24102430	24112430	24122430
M27	2	28	140	20	16	4	2	—	24102730	24112730	24122730
M30	2	28	150	22	18	4	2	—	24103035	24113035	24123035

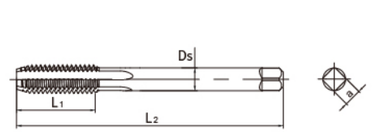
General purpose NPT Taps, HSS, ASME





材质		Material					HSS
标准		Standard					ASME
孔型		Type of hole					BL and TH
牙形角		Thread angle					60°
切削牙		Length of chamfer					—
表面处理		Surface Treatment					Bright
精度		Tolerance					h2
系列号		List No.					2215
规格	牙数	螺纹长度	全长	柄径	方尾	槽数	外形	底孔尺寸	SKU
Size	T	L1	L2	Ds	a*a	Flute No.	Type	Drill Size	
1/16(NPT)	27	17.5	54.1	7.9	5.9	—	2	—	2215116
1/8(NPT)	27	19.1	54.1	7.9	5.9	—	2	—	2215018
1/4(NPT)	18	26.9	62	14.3	10.7	—	2	—	2215014
3/8(NPT)	18	26.9	65	17.8	13.5	—	2	—	2215038
1/2(NPT)	14	35.1	79.5	17.5	13.08	—	2	—	2215012
3/4(NPT)	14	35.1	82.6	23	17.2	—	2	—	2215034
1"(NPT)	11-1/2	44.5	95.3	28.6	21.4	—	2	—	2215010
1-1/4(NPT)	11-1/2	44.5	101.6	33.3	25	—	2	—	2215114
1-1/2(NPT)	11-1/2	44.5	108	38.1	28.6	—	2	—	2215112
2"(NPT)	11-1/2	44.5	108	47.6	35.7	—	2	—	2215020
2-1/2(NPT)	8	65	139.7	57.2	42.8	—	2	—	2215212
3"(NPT)	8	66.8	152.4	66.7	50	—	2	—	2215030

Straight flute taps, HSCo-5, DIN371/DIN376, Single Green Ring

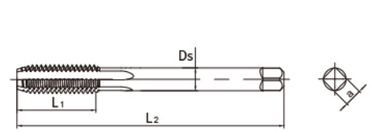




材质		Material		HSCo-5	HSCo-5
标准		Standard		DIN371	DIN376
孔型		Type of hole		BL and TH	BL and TH
牙形角		Thread angle		60°	60°
切削牙		Length of chamfer		Form C/2.5	Form C/2.5
表面处理		Surface Treatment		SS	SS
精度		Tolerance		6H	6H
系列号		List No.		2220	2220

规格	螺距	螺纹长度	全长	柄径	方尾	槽数	外形	底孔尺寸	SKU	SKU
Size	P	L1	L2	Ds	a*a	Flute No.	Type	Drill Size		
M2	0.4	8	45	2.8	2.1	3	1	1.6	22200240	—
M2.5	0.45	9	50	2.8	2.1	3	1	2.05	22202545	—
M3	0.5	11	56	3.5	2.7	3	1	2.5	22200305	—
M4	0.7	13	63	4.5	3.4	3	1	3.3	22200407	—
M5	0.8	16	70	6	4.9	3	1	4.2	22200508	—
M6	1	19	80	6	4.9	4	1	5	22200610	—
M8	1.25	22	90	8	6.2	4	1	6.8	22200812	—
M10	1.5	24	100	10	8	4	1	8.5	22201015	—
M12	1.75	29	110	9	7	4	2	10.2	—	22201217
M14	2	30	110	11	9	4	2	12	—	22201420
M16	2	32	110	12	9	4	2	14	—	22201620

Straight flute taps, PM, DIN371/DIN376, Double Green Ring

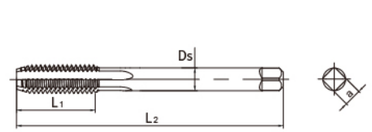




材质		Material		PM	PM
标准		Standard		DIN371	DIN376
孔型		Type of hole		BL and TH	BL and TH
牙形角		Thread angle		60°	60°
切削牙		Length of chamfer		Form C/2.5	Form C/2.5
表面处理		Surface Treatment		SS	SS
精度		Tolerance		6H	6H
系列号		List No.		2225	2225

规格	螺距	螺纹长度	全长	柄径	方尾	槽数	外形	底孔尺寸	SKU	SKU
Size	P	L1	L2	Ds	a*a	Flute No.	Type	Drill Size		
M2	0.4	8	45	2.8	2.1	3	1	1.6	22250240	—
M2.5	0.45	9	50	2.8	2.1	3	1	2.05	22252545	—
M3	0.5	11	56	3.5	2.7	3	1	2.5	22250305	—
M4	0.7	13	63	4.5	3.4	3	1	3.3	22250407	—
M5	0.8	16	70	6	4.9	3	1	4.2	22250508	—
M6	1	19	80	6	4.9	4	1	5	22250610	—
M8	1.25	22	90	8	6.2	4	1	6.8	22250812	—
M10	1.5	24	100	10	8	4	1	8.5	22251015	—
M12	1.75	29	110	9	7	4	2	10.2	—	22251217
M14	2	30	110	11	9	4	2	12	—	22251420
M16	2	32	110	12	9	4	2	14	—	22251620

Spiral flute taps, HSCo-5, DIN371/DIN376/DIN374, Single Black Ring



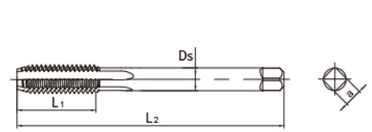






材质		Material			HSCo-5	HSCo-5	HSCo-5
标准		Standard			DIN371	DIN376	DIN374
孔型		Type of hole			BL and TH	BL and TH	BL and TH
牙形角		Thread angle			60°	60°	60°
切削牙		Length of chamfer			Form C/2.5	Form C/2.5	Form C/2.5
表面处理		Surface Treatment			SS	SS	SS
精度		Tolerance			6H	6H	6H
系列号		List No.			2320	2320	2320
规格	螺距	螺纹长度	全长	柄径	方尾	槽数	外形	底孔尺寸	SKU	SKU	SKU
Size	P	L1	L2	Ds	a*a	Flute No.	Type	Drill Size			
M2	0.4	8	45	2.8	2.1	3	—	1.6	23200240	—	—
M2.5	0.45	9	50	2.8	2.1	3	—	2.05	23202545	—	—
M3	0.5	3.6	56	3.5	2.7	3	—	2.5	23200305	—	—
M4	0.7	4	63	4.5	3.4	3	—	3.3	23200407	—	—
M5	0.8	5.7	70	6	4.9	3	—	4.2	23200508	—	—
M6	1	7.5	80	6	4.9	3	—	5	23200610	—	—
M8	1.25	13	90	8	6.2	3	—	6.8	23200812	—	—
M10	1.5	16	100	10	8	3	—	8.5	23201015	—	—
M12	1.75	18	110	9	7	3	—	10.2	—	23201217	—
M14	2	20	110	11	9	3	—	12	—	23201420	—
M16	2	20	110	12	9	4	—	14	—	23201620	—
M18	2.5	22	125	14	11	4	—	15.5	—	23201825	—
M20	2.5	25	140	16	12	4	—	17.5	—	23202025	—
M22	2.5	25	140	18	14.5	4	—	19.5	—	23202225	—
M24	3	28	160	18	14.5	4	—	21	—	23202430	—
Fine Thread											
MF8	1	10	90	6	4.9	3	—	—	—	—	23200810
MF10	1.25	14	90	7	5.5	3	—	—	—	—	23201012
MF10	1	14	100	7	5.5	3	—	—	—	—	23201010
MF12	1.25	14	100	9	7	3	—	—	—	—	23201215
MF12	1.5	14	100	9	7	3	—	—	—	—	23201215
MF14	1.5	18	100	11	9	3	—	—	—	—	23201415
MF16	1.5	18	100	12	9	4	—	—	—	—	23201615
MF18	1.5	18	110	14	11	4	—	—	—	—	23201815
MF20	1.5	25	125	16	12	4	—	—	—	—	23202020
MF20	2	25	140	16	12	4	—	—	—	—	23202215
MF22	1.5	25	125	18	14.5	4	—	—	—	—	23202220
MF24	2	25	140	18	14.5	4	—	—	—	—	23202420

Spiral flute taps, HSCo-5, DIN371/DIN376, Single Blue Ring

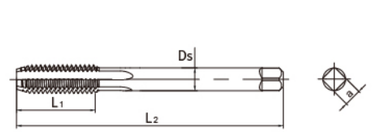






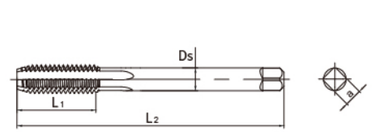
材质		Material			HSCo-5	HSCo-5
标准		Standard			DIN371	DIN376
孔型		Type of hole			BL and TH	BL and TH
牙形角		Thread angle			60°	60°
切削牙		Length of chamfer			Form C/2.5	Form C/2.5
表面处理		Surface Treatment			SH	SH
精度		Tolerance			6H	6H
系列号		List No.			2321	2321
规格	螺距	螺纹长度	全长	柄径	方尾	槽数	外形	底孔尺寸	SKU	SKU
Size	P	L1	L2	Ds	a*a	Flute No.	Type	Drill Size		
M2	0.4	8	45	2.8	2.1	3	1	1.6	23210240	—
M2.5	0.45	9	50	2.8	2.1	3	1	2.05	23212545	—
M3	0.5	3.6	56	3.5	2.7	3	1	2.5	23210305	—
M4	0.7	4	63	4.5	3.4	3	1	3.3	23210407	—
M5	0.8	5.7	70	6	4.9	3	1	4.2	23210508	—
M6	1	7.5	80	6	4.9	3	1	5	23210610	—
M8	1.25	13	90	8	6.2	3	2	6.8	23210812	—
M10	1.5	16	100	10	8	3	2	8.5	23211015	—
M12	1.75	18	110	9	7	3	2	10.2	—	23211217
M14	2	20	110	11	9	3	2	12	—	23211420
M16	2	20	110	12	9	4	2	14	—	23211620
M18	2.5	22	125	14	11	4	2	15.5	—	23211825
M20	2.5	25	140	16	12	4	2	17.5	—	23212025
M22	2.5	25	140	18	14.5	4	2	19.5	—	23212225
M24	3	28	160	18	14.5	4	2	21	—	23212430

Spiral flute taps, HSCo-5, DIN371/DIN376, Single Yellow Ring



材质		Material							HSCo-5	HSCo-5
标准		Standard							DIN371	DIN376
孔型		Type of hole							BL and TH	BL and TH
牙形角		Thread angle							60°	60°
切削牙		Length of chamfer							Form C/2.5	Form C/2.5
表面处理		Surface Treatment							Bright	Bright
精度		Tolerance							6H	6H
系列号		List No.							2322	2322
规格	螺距	螺纹长度	全长	柄径	方尾	槽数	外形	底孔尺寸	SKU	SKU
Size	P	L1	L2	Ds	a*a	Flute No.	Type	Drill Size		
M3	0.5	3.6	56	3.5	2.7	2	1	1.6	23220305	—
M4	0.7	4	63	4.5	3.4	2	1	2.05	23220407	—
M5	0.8	5.7	70	6	4.9	2	1	2.5	23220508	—
M6	1	7.5	80	6	4.9	2	1	3.3	23220610	—
M8	1.25	13	90	8	6.2	2	2	4.2	23220812	—
M10	1.5	16	100	10	8	2	2	5	23221015	—
M12	1.75	18	110	9	7	3	2	6.8	—	23221217
M14	2	20	110	11	9	3	2	8.5	—	23221420
M16	2	20	110	12	9	3	2	10.2	—	23221620
M18	2.5	22	125	14	11	3	2	12	—	23221825
M20	2.5	25	140	16	12	4	2	14	—	23222025
M22	2.5	25	140	18	14.5	4	2	15.5	—	23222225
M24	3	28	160	18	14.5	4	2	17.5	—	23222430

Spiral flute taps, PM, DIN371/DIN376, Double Black Ring

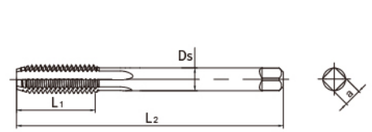






材质		Material							PM	PM
标准		Standard							DIN371	DIN376
孔型		Type of hole							BL and TH	BL and TH
牙形角		Thread angle							60°	60°
切削牙		Length of chamfer							Form C/2.5	Form C/2.5
表面处理		Surface Treatment							SS	SS
精度		Tolerance							6H	6H
系列号		List No.							2323	2323
规格	螺距	螺纹长度	全长	柄径	方尾	槽数	外形	底孔尺寸	SKU	SKU
Size	P	L1	L2	Ds	a*a	Flute No.	Type	Drill Size		
M2	0.4	8	45	2.8	2.1	3	1	1.6	23230240	—
M2.5	0.45	9	50	2.8	2.1	3	1	2.05	23232545	—
M3	0.5	3.6	56	3.5	2.7	3	1	2.5	23230305	—
M4	0.7	4	63	4.5	3.4	3	1	3.3	23230407	—
M5	0.8	5.7	70	6	4.9	3	1	4.2	23230508	—
M6	1	7.5	80	6	4.9	3	1	5	23230610	—
M8	1.25	13	90	8	6.2	3	2	6.8	23230812	—
M10	1.5	16	100	10	8	3	2	8.5	23231015	—
M12	1.75	18	110	9	7	3	2	10.2	—	23231217
M14	2	20	110	11	9	3	2	12	—	23231420
M16	2	20	110	12	9	4	2	14	—	23231620

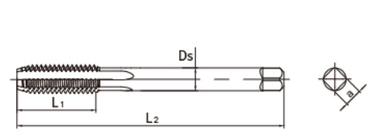
Spiral flute taps, PM, DIN371/DIN376, Double Blue Ring





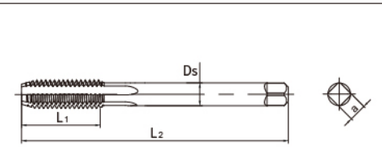

材质		Material			PM	PM
标准		Standard			DIN371	DIN376
孔型		Type of hole			BL and TH	BL and TH
牙形角		Thread angle			60°	60°
切削牙		Length of chamfer			Form C/2.5	Form C/2.5
表面处理		Surface Treatment			SS	SS
精度		Tolerance			6H	6H
系列号		List No.			2324	2324
规格	螺距	螺纹长度	全长	柄径	方尾	槽数	外形	底孔尺寸	SKU	SKU
Size	P	L1	L2	Ds	a*a	Flute No.	Type	Drill Size		
M2	0.4	8	45	2.8	2.1	3	1	1.6	23240240	—
M2.5	0.45	9	50	2.8	2.1	3	1	2.05	23242545	—
M3	0.5	3.6	56	3.5	2.7	3	1	2.5	23240305	—
M4	0.7	4	63	4.5	3.4	3	1	3.3	23240407	—
M5	0.8	5.7	70	6	4.9	3	1	4.2	23240508	—
M6	1	7.5	80	6	4.9	3	1	5	23240610	—
M8	1.25	13	90	8	6.2	3	2	6.8	23240812	—
M10	1.5	16	100	10	8	3	2	8.5	23241015	—
M12	1.75	18	110	9	7	3	2	10.2	—	23241217
M14	2	20	110	11	9	3	2	12	—	23241420
M16	2	20	110	12	9	4	2	14	—	23241620

Spiral flute taps, PM, DIN371/DIN376, Double Yellow Ring



材质		Material			PM	PM
标准		Standard			DIN371	DIN376
孔型		Type of hole			BL and TH	BL and TH
牙形角		Thread angle			60°	60°
切削牙		Length of chamfer			Form C/2.5	Form C/2.5
表面处理		Surface Treatment			Bright	Bright
精度		Tolerance			6H	6H
系列号		List No.			2330	2330
规格	螺距	螺纹长度	全长	柄径	方尾	槽数	外形	底孔尺寸	SKU	SKU
Size	P	L1	L2	Ds	a*a	Flute No.	Type	Drill Size		
M3	0.5	3.6	56	3.5	2.7	2	1	2.5	23300305	—
M4	0.7	4	63	4.5	3.4	2	1	3.3	23300407	—
M5	0.8	5.7	70	6	4.9	2	1	4.2	23300508	—
M6	1	7.5	80	6	4.9	2	1	5	23300610	—
M8	1.25	13	90	8	6.2	2	2	6.8	23300812	—
M10	1.5	16	100	10	8	2	2	8.5	23301015	—
M12	1.75	18	110	9	7	3	2	10.2	—	23301217
M14	2	20	110	11	9	3	2	12	—	23301420
M16	2	20	110	12	9	3	2	14	—	23301620

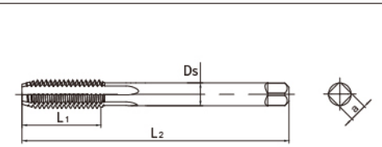
Spiral point taps, HSCo-5，DIN371/DIN376/DIN374, Single Black Ring





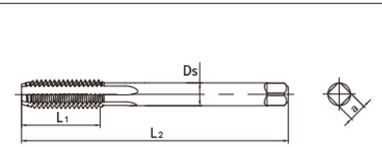
材质		Material			HSCo-5	HSCo-5	HSCo-5
标准		Standard			DIN371	DIN376	DIN374
孔型		Type of hole			TH	TH	TH
牙形角		Thread angle			60°	60°	60°
切削牙		Length of chamfer			Form B/4	Form B/4	Form B/4
表面处理		Surface Treatment			SS	SS	SS
精度		Tolerance			6H	6H	6H
系列号		List No.			2420	2420	2420
规格	螺距	螺纹长度	全长	柄径	方尾	槽数	外形	底孔尺寸	SKU	SKU	SKU
Size	P	L1	L2	Ds	a*a	Flute No.	Type	Drill Size			
M2	0.4	8	45	2.8	2.1	3	—	1.6	24200240	—	—
M2.5	0.45	9	50	2.8	2.1	3	—	2.05	24202545	—	—
M3	0.5	11	56	3.5	2.7	3	—	2.5	24200305	—	—
M4	0.7	13	63	4.5	3.4	3	—	3.3	24200407	—	—
M5	0.8	16	70	6	4.9	3	—	4.2	24200508	—	—
M6	1	19	80	6	4.9	3	—	5	24200610	—	—
M8	1.25	22	90	8	6.2	3	—	6.8	24200812	—	—
M10	1.5	24	100	10	8	3	—	8.5	24201015	—	—
M12	1.75	29	110	9	7	3	—	10.2	—	24201217	—
M14	2	30	110	11	9	3	—	12	—	24201420	—
M16	2	32	110	12	9	4	—	14	—	24201620	—
M18	2.5	34	125	14	11	4	—	15.5	—	24201825	—
M20	2.5	34	140	16	12	4	—	17.5	—	24202025	—
M22	2.5	34	140	18	14.5	4	—	19.5	—	24202225	—
M24	3	38	160	18	14.5	4	—	21	—	24202430	—
Fine Thread											
MF8	1	22	90	6	4.9	3	—	7	—	—	24200810
MF10	1.25	24	100	7	5.5	3	—	—	—	—	24201012
MF12	1.5	22	100	9	7	3	—	—	—	—	24201215
MF14	1.5	22	100	11	9	3	—	—	—	—	24201415
MF16	1.5	22	100	12	9	4	—	—	—	—	24201615
MF18	1.5	25	110	14	11	4	—	—	—	—	24201815
MF20	2	34	140	16	12	4	—	—	—	—	24202020
MF22	1.5	25	125	18	14.5	4	—	—	—	—	24202215
MF24	2	28	140	18	14.5	4	—	—	—	—	24202420

Spiral point taps, HSCo-5，DIN371/DIN376, Single Blue Ring



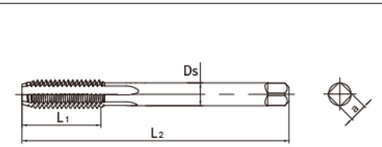
材质		Material			HSCo-5	HSCo-5
标准		Standard			DIN371	DIN376
孔型		Type of hole			TH	TH
牙形角		Thread angle			60°	60°
切削牙		Length of chamfer			Form B/4	Form B/4
表面处理		Surface Treatment			SH	SH
精度		Tolerance			6H	6H
系列号		List No.			2421	2421
规格	螺距	螺纹长度	全长	柄径	方尾	槽数	外形	底孔尺寸	SKU	SKU
Size	P	L1	L2	Ds	a*a	Flute No.	Type	Drill Size		
M2	0.4	8	45	2.8	2.1	3	1	1.6	24210240	—
M2.5	0.45	9	50	2.8	2.1	3	1	2.05	24212545	—
M3	0.5	11	56	3.5	2.7	3	1	2.5	24210305	—
M4	0.7	13	63	4.5	3.4	3	1	3.3	24210407	—
M5	0.8	16	70	6	4.9	3	1	4.2	24210508	—
M6	1	19	80	6	4.9	3	1	5	24210610	—
M8	1.25	22	90	8	6.2	3	1	6.8	24210812	—
M10	1.5	24	100	10	8	3	1	8.5	24211015	—
M12	1.75	29	110	9	7	3	2	10.2	—	24211217
M14	2	30	110	11	9	3	2	12	—	24211420
M16	2	32	110	12	9	4	2	14	—	24211620
M18	2.5	34	125	14	11	4	2	15.5	—	24211825
M20	2.5	34	140	16	12	4	2	17.5	—	24212025
M22	2.5	34	140	18	14.5	4	2	19.5	—	24212225
M24	3	38	160	18	14.5	4	2	21	—	24212430

Spiral point taps, HSCo-5，DIN371/DIN376, Single Yellow Ring



材质		Material							HSCo-5	HSCo-5
标准		Standard							DIN371	DIN376
孔型		Type of hole							TH	TH
牙形角		Thread angle							60°	60°
切削牙		Length of chamfer							Form B/4	Form B/4
表面处理		Surface Treatment							Bright	Bright
精度		Tolerance							6H	6H
系列号		List No.							2422	2422
规格	螺距	螺纹长度	全长	柄径	方尾	槽数	外形	底孔尺寸	SKU	SKU
Size	P	L1	L2	Ds	a*a	Flute No.	Type	Drill Size		
M3	0.5	11	56	3.5	2.7	2	1	2.5	24220305	—
M4	0.7	13	63	4.5	3.4	2	1	3.3	24220407	—
M5	0.8	16	70	6	4.9	2	1	4.2	24220508	—
M6	1	19	80	6	4.9	2	1	5	24220610	—
M8	1.25	22	90	8	6.2	2	1	6.8	24220812	—
M10	1.5	24	100	10	8	2	1	8.5	24221015	—
M12	1.75	29	110	9	7	3	2	10.2	—	24221217
M14	2	30	110	11	9	3	2	12	—	24221420
M16	2	32	110	12	9	3	2	14	—	24221620
M18	2.5	34	125	14	11	3	2	15.5	—	24221825
M20	2.5	34	140	16	12	4	2	17.5	—	24222025
M22	2.5	34	140	18	14.5	4	2	19.5	—	24222225
M24	3	38	160	18	14.5	4	2	21	—	24222430

Spiral point taps, HSCo-5，DIN371/DIN376, Double Black Ring

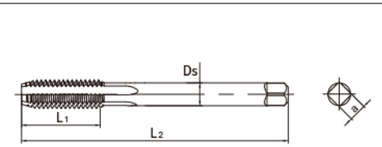






材质		Material							PM	PM
标准		Standard							DIN371	DIN376
孔型		Type of hole							TH	TH
牙形角		Thread angle							60°	60°
切削牙		Length of chamfer							Form B/4	Form B/4
表面处理		Surface Treatment							SS	SS
精度		Tolerance							6H	6H
系列号		List No.							2423	2423
规格	螺距	螺纹长度	全长	柄径	方尾	槽数	外形	底孔尺寸	SKU	SKU
Size	P	L1	L2	Ds	a*a	Flute No.	Type	Drill Size		
M2	0.4	8	45	2.8	2.1	3	1	1.6	24230240	—
M2.5	0.45	9	50	2.8	2.1	3	1	2.05	24232545	—
M3	0.5	11	56	3.5	2.7	3	1	2.5	24230305	—
M4	0.7	13	63	4.5	3.4	3	1	3.3	24230407	—
M5	0.8	16	70	6	4.9	3	1	4.2	24230508	—
M6	1	19	80	6	4.9	3	1	5	24230610	—
M8	1.25	22	90	8	6.2	3	1	6.8	24230812	—
M10	1.5	24	100	10	8	3	1	8.5	24231015	—
M12	1.75	29	110	9	7	3	2	10.2	—	24231217
M14	2	30	110	11	9	3	2	12	—	24231420
M16	2	32	110	12	9	4	2	14	—	24231620

Spiral point taps, HSCo-5，DIN371/DIN376, Double Blue Ring

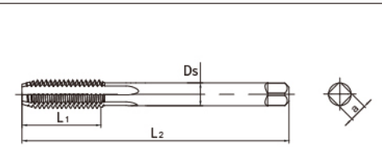





材质		Material	PM	PM
标准		Standard	DIN371	DIN376
孔型		Type of hole	TH	TH
牙形角		Thread angle	60°	60°
切削牙		Length of chamfer	Form B/4	Form B/4
表面处理		Surface Treatment	SS	SS
精度		Tolerance	6H	6H
系列号		List No.	2424	2424

规格	螺距	螺纹长度	全长	柄径	方尾	槽数	外形	底孔尺寸	SKU	SKU
Size	P	L1	L2	Ds	a*a	Flute No.	Type	Drill Size		
M2	0.4	8	45	2.8	2.1	3	1	1.6	24240240	—
M2.5	0.45	9	50	2.8	2.1	3	1	2.05	24242545	—
M3	0.5	11	56	3.5	2.7	3	1	2.5	24240305	—
M4	0.7	13	63	4.5	3.4	3	1	3.3	24240407	—
M5	0.8	16	70	6	4.9	3	1	4.2	24240508	—
M6	1	19	80	6	4.9	3	1	5	24240610	—
M8	1.25	22	90	8	6.2	3	1	6.8	24240812	—
M10	1.5	24	100	10	8	3	1	8.5	24241015	—
M12	1.75	29	110	9	7	3	2	10.2	—	24241217
M14	2	30	110	11	9	3	2	12	—	24241420
M16	2	32	110	12	9	4	2	14	—	24241620

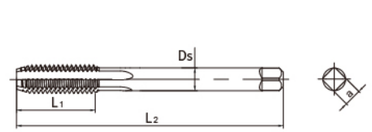
Spiral point taps, PM，DIN371/DIN376, Double Yellow Ring



材质		Material	PM	PM
标准		Standard	DIN371	DIN376
孔型		Type of hole	TH	TH
牙形角		Thread angle	60°	60°
切削牙		Length of chamfer	Form B/4	Form B/4
表面处理		Surface Treatment	Bright	Bright
精度		Tolerance	6H	6H
系列号		List No.	2430	2430

规格	螺距	螺纹长度	全长	柄径	方尾	槽数	外形	底孔尺寸	SKU	SKU
Size	P	L1	L2	Ds	a*a	Flute No.	Type	Drill Size		
M3	0.5	11	56	3.5	2.7	2	1	2.5	24300305	—
M4	0.7	13	63	4.5	3.4	2	1	3.3	24300407	—
M5	0.8	16	70	6	4.9	2	1	4.2	24300508	—
M6	1	19	80	6	4.9	2	1	5	24300610	—
M8	1.25	22	90	8	6.2	2	1	6.8	24300812	—
M10	1.5	24	100	10	8	2	1	8.5	24301015	—
M12	1.75	29	110	9	7	3	2	10.2	—	24301217
M14	2	30	110	11	9	3	2	12	—	24301420
M16	2	32	110	12	9	3	2	14	—	24301620

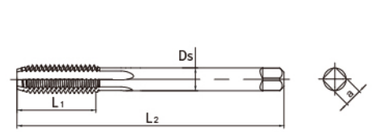
Straight flute taps, HSCo-5, JIS, Single Green Ring



材质	Material	HSCo-5
标准	Standard	JIS
孔型	Type of hole	BL and TH
牙形角	Thread angle	60°
切削牙	Length of chamfer	Form C/2.5
表面处理	Surface Treatment	SS
精度	Tolerance	6H
系列号	List No.	2221

规格	螺距	螺纹长度	全长	柄径	方尾	槽数	外形	底孔尺寸	SKU
Size	P	L1	L2	Ds	a*a	Flute No.	Type	Drill Size	
M2	0.4	8	40	3	2.5	3	1	1.6	22210240
M2.5	0.45	9	44	3	2.5	3	1	2.05	22212545
M3	0.5	11	46	4	3.2	3	1	2.5	22210305
M4	0.7	13	52	5	4	3	1	3.3	22210407
M5	0.8	16	60	5.5	4.5	3	1	4.2	22210508
M6	1	19	62	6	4.5	4	1	5	22210610
M8	1.25	22	70	6.2	5	4	1	6.8	22210812
M10	1.5	24	75	7	5.5	4	2	8.5	22211015
M12	1.75	29	82	8.5	6.5	4	2	10.2	22211217
M14	2	30	88	10.5	8	4	2	12	22211420
M16	2	32	95	12.5	10	4	2	14	22211620

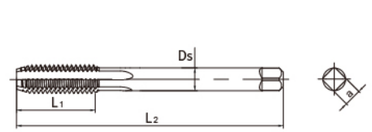
Straight flute taps, PM, JIS, Double Green Ring



材质	Material	PM
标准	Standard	JIS
孔型	Type of hole	BL and TH
牙形角	Thread angle	60°
切削牙	Length of chamfer	Form C/2.5
表面处理	Surface Treatment	SS
精度	Tolerance	6H
系列号	List No.	2226

规格	螺距	螺纹长度	全长	柄径	方尾	槽数	外形	底孔尺寸	SKU
Size	P	L1	L2	Ds	a*a	Flute No.	Type	Drill Size	
M2	0.4	8	40	3	2.5	3	1	1.6	22260240
M2.5	0.45	9	44	3	2.5	3	1	2.05	22262545
M3	0.5	11	46	4	3.2	3	1	2.5	22260305
M4	0.7	13	52	5	4	3	1	3.3	22260407
M5	0.8	16	60	5.5	4.5	3	1	4.2	22260508
M6	1	19	62	6	4.5	4	1	5	22260610
M8	1.25	22	70	6.2	5	4	1	6.8	22260812
M10	1.5	24	75	7	5.5	4	2	8.5	22261015
M12	1.75	29	82	8.5	6.5	4	2	10.2	22261217
M14	2	30	88	10.5	8	4	2	12	22261420
M16	2	32	95	12.5	10	4	2	14	22261620

Spiral flute taps, HSCo-5, JIS, Single Black Ring

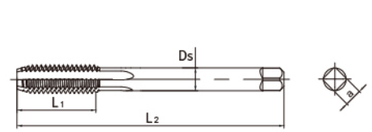




材质		Material		HSCo-5
标准		Standard		JIS
孔型		Type of hole		BL and TH
牙形角		Thread angle		60°
切削牙		Length of chamfer		Form C/2.5
表面处理		Surface Treatment		SS
精度		Tolerance		6H
系列号		List No.		2325

规格	螺距	螺纹长度	全长	柄径	方尾	槽数	外形	底孔尺寸	SKU
Size	P	L1	L2	Ds	a*a	Flute No.	Type	Drill Size	
M2	0.4	8	40	3	2.5	3	—	1.6	23250240
M2.5	0.45	9	44	3	2.5	3	—	2.05	23252545
M3	0.5	6	46	4	3.2	3	—	2.5	23250305
M4	0.7	7.5	52	5	4	3	—	3.3	23250407
M5	0.8	9	60	5.5	4.5	3	—	4.2	23250508
M6	1	11	62	6	4.5	3	—	5	23250610
M8	1.25	13	70	6.2	5	3	—	6.8	23250812
M10	1.5	16	75	7	5.5	3	—	8.5	23251015
M12	1.75	18	82	8.5	6.5	3	—	10.2	23251217
M14	2	20	88	10.5	8	3	—	12	23251420
M16	2	20	95	12.5	10	4	—	14	23251620
M18	2.5	22	100	14	11	4	—	15.5	23251825
M20	2.5	25	105	15	12	4	—	17.5	23252025
M22	2.5	25	115	17	13	4	—	19.5	23252225
M24	3	29	120	19	15	4	—	21	23252430
Fine Thread									
MF8	1	10	70	6.2	6.2	3	—	7	23250810
MF10	1.25	14	75	7	5.5	3	—	8.75	23251012
MF10	1	14	75	7	5.5	3	—	9	23251010
MF12	1.25	14	82	8.5	6.5	3	—	10.75	23251212
MF12	1.5	14	82	8.5	6.5	3	—	10.5	23251215
MF14	1.5	18	88	10.5	8	3	—	12.5	23251415
MF16	1.5	18	95	12.5	10	4	—	14.5	23251615
MF18	1.5	18	100	14	11	4	—	16.5	23251815
MF20	1.5	25	105	15	12	4	—	18.5	23252025
MF20	2	25	105	15	12	4	—	18	23252020
MF22	1.5	25	115	17	13	4	—	20.5	23252215
MF24	2	25	120	19	15	4	—	22	23252420

Spiral flute taps, HSCo-5, JIS, Single Blue Ring

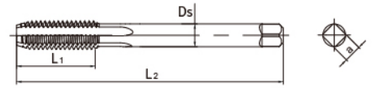




材质		Material		HSCo-5
标准		Standard		JIS
孔型		Type of hole		BL and TH
牙形角		Thread angle		60°
切削牙		Length of chamfer		Form C/2.5
表面处理		Surface Treatment		SS
精度		Tolerance		6H
系列号		List No.		2326

规格	螺距	螺纹长度	全长	柄径	方尾	槽数	外形	底孔尺寸	SKU
Size	P	L1	L2	Ds	a*a	Flute No.	Type	Drill Size	
M2	0.4	8	40	3	2.5	3	—	1.6	23260240
M2.5	0.45	9	44	3	2.5	3	—	2.05	23262545
M3	0.5	6	46	4	3.2	3	—	2.5	23260305
M4	0.7	7.5	52	5	4	3	—	3.3	23260407
M5	0.8	9	60	5.5	4.5	3	—	4.2	23260508
M6	1	11	62	6	4.5	3	—	5	23260610
M8	1.25	13	70	6.2	5	3	—	6.8	23260812
M10	1.5	16	75	7	5.5	3	—	8.5	23261015
M12	1.75	18	82	8.5	6.5	3	—	10.2	23261217
M14	2	20	88	10.5	8	3	—	12	23261420
M16	2	20	95	12.5	10	4	—	14	23261620
M18	2.5	22	100	14	11	4	—	15.5	23261825
M20	2.5	25	105	15	12	4	—	17.5	23262025
M22	2.5	25	115	17	13	4	—	19.5	23262225
M24	3	29	120	19	15	4	—	21	23262430

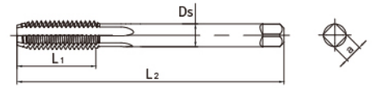
Spiral flute taps, HSCo-5, JIS, Single Yellow Ring



材质	Material	HSCo-5
标准	Standard	JIS
孔型	Type of hole	BL and TH
牙形角	Thread angle	60°
切削牙	Length of chamfer	Form C/2.5
表面处理	Surface Treatment	Bright
精度	Tolerance	6H
系列号	List No.	2327

规格	螺距	螺纹长度	全长	柄径	方尾	槽数	外形	底孔尺寸	SKU
Size	P	L1	L2	Ds	a*a	Flute No.	Type	Drill Size	
M3	0.5	6	46	4	3.2	2	1	2.5	23270305
M4	0.7	7.5	52	5	4	2	1	3.3	23270407
M5	0.8	9	60	5.5	4.5	2	1	4.2	23270508
M6	1	11	62	6	4.5	2	1	5	23270610
M8	1.25	13	70	6.2	5	2	2	6.8	23270812
M10	1.5	16	75	7	5.5	2	2	8.5	23271015
M12	1.75	18	82	8.5	6.5	3	2	10.2	23271217
M14	2	20	88	10.5	8	3	2	12	23271420
M16	2	20	95	12.5	10	3	2	14	23271620
M18	2.5	22	100	14	11	3	2	15.5	23271825
M20	2.5	25	105	15	12	4	2	17.5	23272025
M22	2.5	25	115	17	13	4	2	19.5	23272225
M24	3	29	120	19	15	4	2	21	23272430

Spiral flute taps, PM, JIS, Double Black Ring

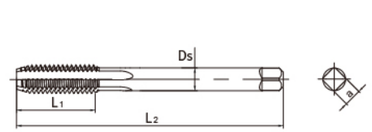




材质	Material	PM
标准	Standard	JIS
孔型	Type of hole	BL and TH
牙形角	Thread angle	60°
切削牙	Length of chamfer	Form C/2.5
表面处理	Surface Treatment	SS
精度	Tolerance	6H
系列号	List No.	2328

规格	螺距	螺纹长度	全长	柄径	方尾	槽数	外形	底孔尺寸	SKU
Size	P	L1	L2	Ds	a*a	Flute No.	Type	Drill Size	
M2	0.4	8	40	3	2.5	3	1	1.6	23280240
M2.5	0.45	9	44	3	2.5	3	1	2.05	23282545
M3	0.5	6	46	4	3.2	3	1	2.5	23280305
M4	0.7	7.5	52	5	4	3	1	3.3	23280407
M5	0.8	9	60	5.5	4.5	3	1	4.2	23280508
M6	1	11	62	6	4.5	3	1	5	23280610
M8	1.25	13	70	6.2	5	3	2	6.8	23280812
M10	1.5	16	75	7	5.5	3	2	8.5	23281015
M12	1.75	18	82	8.5	6.5	3	2	10.2	23281217
M14	2	20	88	10.5	8	3	2	12	23281420
M16	2	20	95	12.5	10	4	2	14	23281620

Spiral flute taps, PM, JIS, Double Blue Ring

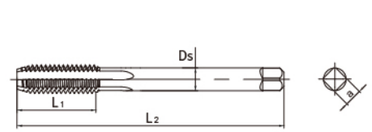




材质	Material	PM
标准	Standard	JIS
孔型	Type of hole	BL and TH
牙形角	Thread angle	60°
切削牙	Length of chamfer	Form C/2.5
表面处理	Surface Treatment	SS
精度	Tolerance	6H
系列号	List No.	2329

规格	螺距	螺纹长度	全长	柄径	方尾	槽数	外形	底孔尺寸	SKU
Size	P	L1	L2	Ds	a*a	Flute No.	Type	Drill Size	
M2	0.4	8	40	3	2.5	3	1	1.6	23290240
M2.5	0.45	9	44	3	2.5	3	1	2.05	23292545
M3	0.5	6	46	4	3.2	3	1	2.5	23290305
M4	0.7	7.5	52	5	4	3	1	3.3	23290407
M5	0.8	9	60	5.5	4.5	3	1	4.2	23290508
M6	1	11	62	6	4.5	3	1	5	23290610
M8	1.25	13	70	6.2	5	3	2	6.8	23290812
M10	1.5	16	75	7	5.5	3	2	8.5	23291015
M12	1.75	18	82	8.5	6.5	3	2	10.2	23291217
M14	2	20	88	10.5	8	3	2	12	23291420
M16	2	20	95	12.5	10	4	2	14	23291620

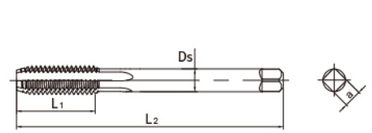
Spiral flute taps, PM , JIS, Double Yellow Ring



材质	Material	PM	PM
标准	Standard	JIS	JIS
孔型	Type of hole	BL and TH	BL and TH
牙形角	Thread angle	60°	60°
切削牙	Length of chamfer	Form C/2.5	Form C/2.5
表面处理	Surface Treatment	Bright	Bright
精度	Tolerance	6H	6H
系列号	List No.	2331	2331

规格	螺距	螺纹长度	全长	柄径	方尾	槽数	外形	底孔尺寸	SKU	SKU
Size	P	L1	L2	Ds	a*a	Flute No.	Type	Drill Size		
M3	0.5	6	46	4	3.2	2	1	2.5	23310305	—
M4	0.7	7.5	52	5	4	2	1	3.3	23310407	—
M5	0.8	9	60	5.5	4.5	2	1	4.2	23310508	—
M6	1	11	62	6	4.5	2	1	5	23310610	—
M8	1.25	13	70	6.2	5	2	2	6.8	23310812	—
M10	1.5	16	75	7	5.5	2	2	8.5	23311015	—
M12	1.75	18	82	8.5	6.5	3	2	10.2	—	23311217
M14	2	20	88	10.5	8	3	2	12	—	23311420
M16	2	20	95	12.5	10	3	2	14	—	23311620

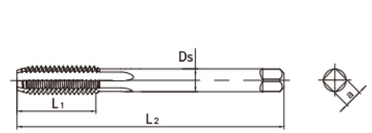
Spiral point taps, HSCo-5, JIS, Single Black Ring



材质		Material		HSCo-5
标准		Standard		JIS
孔型		Type of hole		TH
牙形角		Thread angle		60°
切削牙		Length of chamfer		Form B/4
表面处理		Surface Treatment		SS
精度		Tolerance		6H
系列号		List No.		2425

规格	螺距	螺纹长度	全长	柄径	方尾	槽数	外形	底孔尺寸	SKU
Size	P	L1	L2	Ds	a*a	Flute No.	Type	Drill Size	
M2	0.4	8	40	3	2.5	3	—	1.6	24250240
M2.5	0.45	9	44	3	2.5	3	—	2.05	24252545
M3	0.5	11	46	4	3.2	3	—	2.5	24250305
M4	0.7	13	52	5	4	3	—	3.3	24250407
M5	0.8	16	60	5.5	4.5	3	—	4.2	24250508
M6	1	19	62	6	4.5	3	—	5	24250610
M8	1.25	22	70	6.2	5	3	—	6.8	24250812
M10	1.5	24	75	7	5.5	3	—	8.5	24251015
M12	1.75	29	82	8.5	6.5	3	—	10.2	24251217
M14	2	30	88	10.5	8	3	—	12	24251420
M16	2	32	95	12.5	10	4	—	14	24251620
M18	2.5	34	100	14	11	4	—	15.5	24251825
M20	2.5	34	105	15	12	4	—	17.5	24252025
M22	2.5	34	115	17	13	4	—	19.5	24252225
M24	3	38	120	19	15	4	—	21	24252430
Fine Thread									
MF8	1	19	70	6.2	5	3	—	7	24250810
MF10	1.25	20	75	7	5.5	3	—	9	24251012
MF10	1.5	22	82	8.5	6.5	3	—	10.5	24251215
MF12	1.5	22	88	10.5	8	3	—	12.5	24251415
MF12	1.5	22	95	12.5	10	4	—	14.5	24251615
MF14	1.5	25	100	14	11	4	—	16.5	24251815
MF16	1.5	25	105	15	12	4	—	18.5	24252020
MF18	1.5	25	115	17	13	4	—	20.5	24252215
MF20	2	28	120	19	15	4	—	22.5	24252420

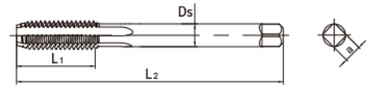
Spiral point taps, HSCo-5, JIS, Single Blue Ring



材质		Material		HSCo-5
标准		Standard		JIS
孔型		Type of hole		TH
牙形角		Thread angle		60°
切削牙		Length of chamfer		Form B/4
表面处理		Surface Treatment		SH
精度		Tolerance		6H
系列号		List No.		2426

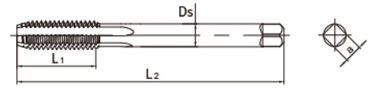
规格	螺距	螺纹长度	全长	柄径	方尾	槽数	外形	底孔尺寸	SKU
Size	P	L1	L2	Ds	a*a	Flute No.	Type	Drill Size	
M2	0.4	8	40	3	2.5	3	1	1.6	24260240
M2.5	0.45	9	44	3	2.5	3	1	2.05	24262545
M3	0.5	11	46	4	3.2	3	1	2.5	24260305
M4	0.7	13	52	5	4	3	1	3.3	24260407
M5	0.8	16	60	5.5	4.5	3	1	4.2	24260508
M6	1	19	62	6	4.5	3	1	5	24260610
M8	1.25	22	70	6.2	5	3	1	6.8	24260812
M10	1.5	24	75	7	5.5	3	1	8.5	24261015
M12	1.75	29	82	8.5	6.5	3	2	10.2	24261217
M14	2	30	88	10.5	8	3	2	12	24261420
M16	2	32	95	12.5	10	4	2	14	24261620
M18	2.5	34	100	14	11	4	2	15.5	24261825
M20	2.5	34	105	15	12	4	2	17.5	24262025
M22	2.5	34	115	17	13	4	2	19.5	24262225
M24	3	38	120	19	15	4	2	21	24262430

Spiral point taps, HSCo-5, JIS, Single Yellow Ring



材质			Material					HSCo-5
标准			Standard					JIS
孔型			Type of hole					TH
牙形角			Thread angle					60°
切削牙			Length of chamfer					Form B/4
表面处理			Surface Treatment					Bright
精度			Tolerance					6H
系列号			List No.					2427
规格	螺距	螺纹长度	全长	柄径	方尾	槽数	外形	底孔尺寸	SKU
Size	P	L1	L2	Ds	a*a	Flute No.	Type	Drill Size	
M3	0.5	11	46	4	3.2	2	1	2.5	24270305
M4	0.7	13	52	5	4	2	1	3.3	24270407
M5	0.8	16	60	5.5	4.5	2	1	4.2	24270508
M6	1	19	62	6	4.5	2	1	5	24270610
M8	1.25	22	70	6.2	5	2	1	6.8	24270812
M10	1.5	24	75	7	5.5	2	1	8.5	24271015
M12	1.75	29	82	8.5	6.5	3	2	10.2	24271217
M14	2	30	88	10.5	8	3	2	12	24271420
M16	2	32	95	12.5	10	3	2	14	24271620
M18	2.5	34	100	14	11	3	2	15.5	24271825
M20	2.5	34	105	15	12	4	2	17.5	24272025
M22	2.5	34	115	17	13	4	2	19.5	24272225
M24	3	38	120	19	15	4	2	21	24272430

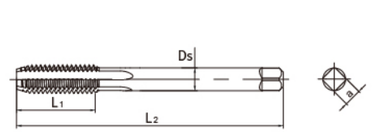
Spiral point taps, PM , JIS, Double Black Ring





材质			Material					PM
标准			Standard					JIS
孔型			Type of hole					TH
牙形角			Thread angle					60°
切削牙			Length of chamfer					Form B/4
表面处理			Surface Treatment					SS
精度			Tolerance					6H
系列号			List No.					2428
规格	螺距	螺纹长度	全长	柄径	方尾	槽数	外形	底孔尺寸	SKU
Size	P	L1	L2	Ds	a*a	Flute No.	Type	Drill Size	
M2	0.4	8	40	3	2.5	3	1	1.6	24280240
M2.5	0.45	9	44	3	2.5	3	1	2.05	24282545
M3	0.5	11	46	4	3.2	3	1	2.5	24280305
M4	0.7	13	52	5	4	3	1	3.3	24280407
M5	0.8	16	60	5.5	4.5	3	1	4.2	24280508
M6	1	19	62	6	4.5	3	1	5	24280610
M8	1.25	22	70	6.2	5	3	1	6.8	24280812
M10	1.5	24	75	7	5.5	3	1	8.5	24281015
M12	1.75	29	82	8.5	6.5	3	2	10.2	24281217
M14	2	30	88	10.5	8	3	2	12	24281420
M16	2	32	95	12.5	10	4	2	14	24281620

Spiral Point taps, PM, JIS, Double Blue Ring

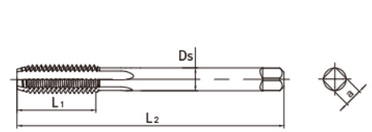




材质	Material	PM
标准	Standard	JIS
孔型	Type of hole	TH
牙形角	Thread angle	60°
切削牙	Length of chamfer	Form B/4
表面处理	Surface Treatment	SS
精度	Tolerance	6H
系列号	List No.	2429

规格	螺距	螺纹长度	全长	柄径	方尾	槽数	外形	底孔尺寸	SKU
Size	P	L1	L2	Ds	a*a	Flute No.	Type	Drill Size	
M2	0.4	8	40	3	2.5	3	1	1.6	24290240
M2.5	0.45	9	44	3	2.5	3	1	2.05	24292545
M3	0.5	11	46	4	3.2	3	1	2.5	24290305
M4	0.7	13	52	5	4	3	1	3.3	24290407
M5	0.8	16	60	5.5	4.5	3	1	4.2	24290508
M6	1	19	62	6	4.5	3	1	5	24290610
M8	1.25	22	70	6.2	5	3	1	6.8	24290812
M10	1.5	24	75	7	5.5	3	1	8.5	24291015
M12	1.75	29	82	8.5	6.5	3	2	10.2	24291217
M14	2	30	88	10.5	8	3	2	12	24291420
M16	2	32	95	12.5	10	4	2	14	24291620

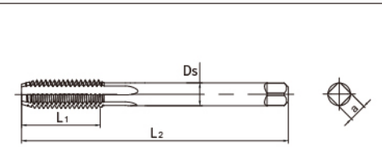
Spiral Point taps, PM, JIS, Double Yellow Ring



材质	Material	PM
标准	Standard	JIS
孔型	Type of hole	TH
牙形角	Thread angle	60°
切削牙	Length of chamfer	Form B/4
表面处理	Surface Treatment	Bright
精度	Tolerance	6H
系列号	List No.	2431

规格	螺距	螺纹长度	全长	柄径	方尾	槽数	外形	底孔尺寸	SKU
Size	P	L1	L2	Ds	a*a	Flute No.	Type	Drill Size	
M3	0.5	11	46	4	3.2	2	1	2.5	24310305
M4	0.7	13	52	5	4	2	1	3.3	24310407
M5	0.8	16	60	5.5	4.5	2	1	4.2	24310508
M6	1	19	62	6	4.5	2	1	5	24310610
M8	1.25	22	70	6.2	5	2	1	6.8	24310812
M10	1.5	24	75	7	5.5	2	1	8.5	24311015
M12	1.75	29	82	8.5	6.5	3	2	10.2	24311217
M14	2	30	88	10.5	8	3	2	12	24311420
M16	2	32	95	12.5	10	3	2	14	24311620

Forming taps, PM, JIS, TiCN



材质					Material				PM
标准					Standard				JIS
孔型					Type of hole				BL and TH
牙形角					Thread angle				60°
切削牙					Length of chamfer				Form C/2.5
表面处理					Surface Treatment				TiCN
精度					Tolerance				6H
系列号					List No.				2501
规格	螺距	螺纹长度	全长	柄径	方尾	槽数	外形	底孔尺寸	SKU
Size	P	L1	L2	Ds	a*a	Flute No.	Type	Drill Size	
M1	0.25	5	30	3	2.5	—	2	—	25010125
M1.2	0.25	5	32	3	2.5	—	2	—	25011225
M1.4	0.3	7	34	3	2.5	—	2	—	25011403
M1.6	0.35	8	36	3	2.5	—	2	—	25011603
M1.8	0.35	8	36	3	2.5	—	2	—	25011803
M2	0.4	9	40	3	2.5	—	2	—	25010204
M2.5	0.45	9	44	3	2.5	—	2	—	25012545
M3	0.5	9	46	4	3.2	—	2	—	25010305
M4	0.7	13	53	4	4	—	2	—	25010407
M5	0.8	16	58	6	4.5	—	2	—	25010508
M6	1	19	66	6.3	4.5	—	2	—	25010610
M8	1.25	22	72	6.3	5	—	2	—	25010812
M10	1.5	24	80	8	5.5	—	2	—	25011015
M12	1.75	29	89	9	6.5	—	2	—	25011217

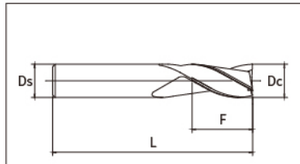


END MILLS
立铣刀





HSS/HSCo-8, 2 Flute, DIN327, End mills 键槽立铣刀

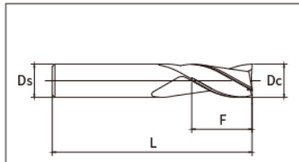






材质	Material	HSS	HSCo-8
槽型	Type	N	N
切削方向	Cutting direction	R.H.	R.H.
沟槽数	Flute Number	2F	2F
表面处理	Surface	TiN	Bronze
精度	Tolerance	e8	e8
系列号	List No.	3101	3102
直径 Dc	有效刃长 F / 全长 L / 柄径 Ds.	SKU	SKU
3	5 / 49 / 6	31010306	31020306
4	7 / 51 / 6	31010406	31020406
5	8 / 52 / 6	31010506	31020506
6	8 / 52 / 6	31010606	31020606
8	11 / 61 / 10	31010810	31020810
10	13 / 63 / 10	31011012	31021012
12	16 / 73 / 12	31011212	31021212
14	16 / 73 / 12	31011412	31021412
16	19 / 79 / 16	31011616	31021616
18	19 / 79 / 16	31011816	31021816
20	22 / 80 / 20	31012020	31022020

HSS, 3 Flute, DIN844, End mills, For Aluminum alloy 铝合金专用
HSS, 4 Flute, DIN844, End mills, Stainless steel 不锈钢专用
HSCo-8, 4 Flute, DIN844, Roughing end mills 粗皮铣刀



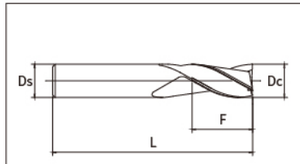






材质	Material	HSS	HSS	HSCo-8
槽型	Type	DIN844	DIN844	DIN844
切削方向	Cutting direction	R.H.	R.H.	R.H.
沟槽数	Flute Number	3F	4F	4F
螺旋角	Helix Angle	42°	37°	30°
表面处理	Surface	TiN	TiN	Bright
系列号	List No.	3107	3108	3109
直径 Dc	有效刃长 F / 全长 L / 柄径 Ds.	SKU	SKU	SKU
3	8 / 52 / 6	31070306	31080306	—
4	11 / 55 / 6	31070406	31080406	—
5	13 / 57 / 6	31070506	31080506	—
6	13 / 57 / 6	31070606	31080606	31090606
7	16 / 66 / 10	31070710	31080710	—
8	19 / 69 / 10	31070810	31080810	31090810
9	19 / 69 / 10	31070910	31080910	—
10	22 / 72 / 10	31071010	31081010	31091010
11	22 / 79 / 12	31071112	31081112	—
12	26 / 83 / 12	31071212	31081212	31091212
13	26 / 83 / 12	31071312	31081312	—
14	26 / 83 / 12	31071412	31081412	31091412
15	26 / 83 / 12	31071512	31081512	—
16	32 / 92 / 16	31071616	31081616	31091616
18	32 / 92 / 16	31071816	31081816	31091816
19	32 / 92 / 16	31071916	31081916	—
20	38 / 104 / 20	31072020	31082020	31092020

HSS/HSCo-8, 3/4 Flute, DIN844, End mills



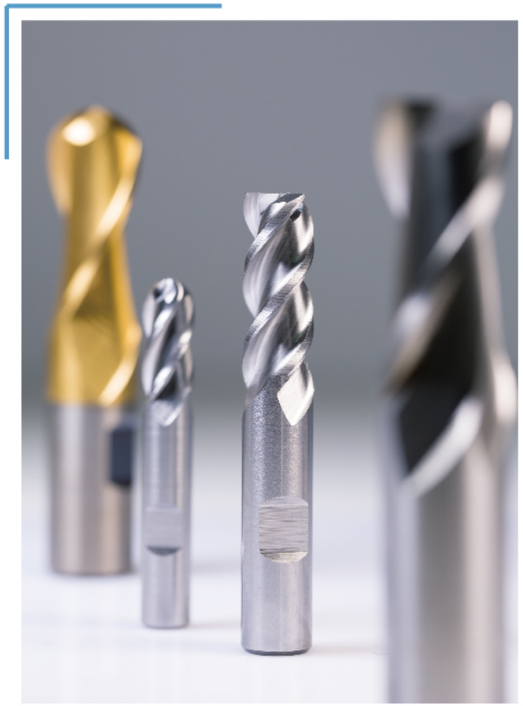




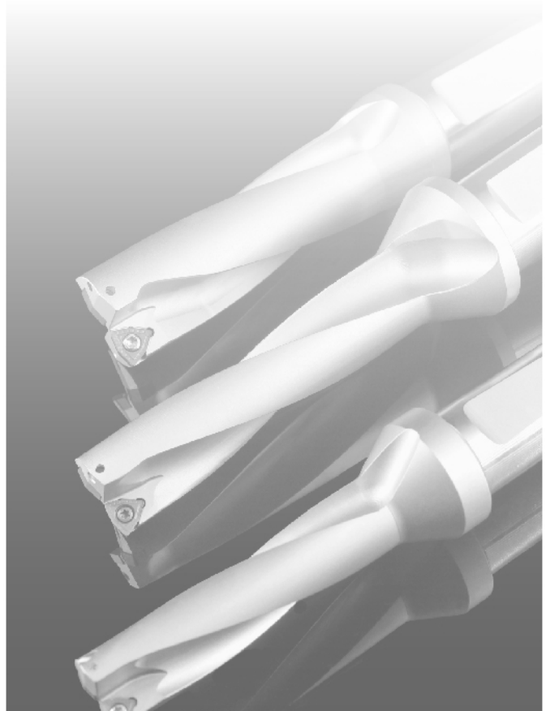




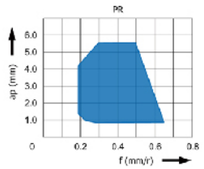
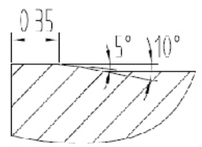
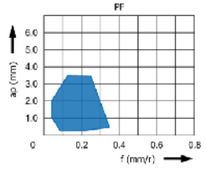
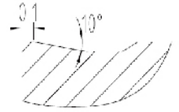
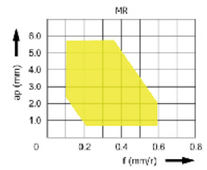
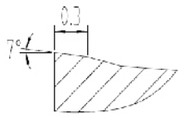
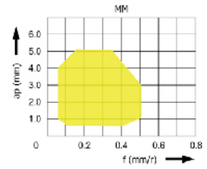
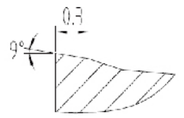
材质		Material		HSS	HSS	HSCo-8	HSCo-8
槽型		Type		DIN844	DIN844	DIN844	DIN844
切削方向		Cutting direction		R.H.	R.H.	R.H.	R.H.
沟槽数		Flute Number		3F	4F	3F	4F
螺旋角		Helix Angle		30°	30°	30°	30°
表面处理		Surface		TiN	TiN	Bronze	Bronze
系列号		List No.		3103	3104	3105	3106
直径	有效刃长	全长	柄径	SKU	SKU	SKU	SKU
Dc	F	L	Ds.				
3	8	52	6	31030306	31040306	31050306	31060306
4	11	55	6	31030406	31040406	31050406	31060406
5	13	57	6	31030506	31040506	31050506	31060506
6	13	57	6	31030606	31040606	31050606	31060606
7	16	66	10	31030710	31040710	31050710	31060710
8	19	69	10	31030810	31040810	31050810	31060810
9	19	69	10	31030910	31040910	31050910	31060910
10	22	72	10	31031010	31041010	31051010	31061010
11	22	79	12	31031112	31041112	31051112	31061112
12	26	83	12	31031212	31041212	31051212	31061212
13	26	83	12	31031312	31041312	31051312	31061312
14	26	83	12	31031412	31041412	31051412	31061412
15	26	83	12	31031512	31041512	31051512	31061512
16	32	92	16	31031616	31041616	31051616	31061616
18	32	92	16	31031816	31041816	31051816	31061816
19	32	92	16	31031916	31041916	31051916	31061916
20	38	104	20	31032020	31042020	31052020	31062020



INDEXABLE CUTTING INSERTS
数控刀片

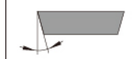




Geometry	Application Features	Chipbreaker Range	Section of Chipbreaker
UR	UR for rough cutting action of carbon steels, cast iron and alloy steels. Double-sided chipbreaker. Variable rake angle and land width realize enough edge sharpness and strength at different depth of cut.		
MR	MR for roughing of general steel, alloy steel and stainless steel, double-sided chipbreaker. Sharp tool nose and strong cutting edge. Good chip control under small cutting depth. Good strength under big cutting depth.		
BM	BM for medium cutting of steel and stainless steel, double-sided chipbreaker. Applicable for semi-finishing . Suitable for general materials.		
BBQ	BBQ for finish cutting of stainless steel, double-sided chipbreaker. Small cutting resistance, fluent evacuation.		

② Relief Angle Symbol

Symbol	Relief Angle
A	3°
B	5°
C	7°
D	15°
E	20°
F	25°
G	30°
N	0°
P	11°
O	Others



③ Tolerance Symbol

Symbol	Tolerance (mm)			Tolerance (inch)		
	Corner Height (m)	Thickness (s)	I.C.Size (Ød)	Corner Height (m)	Thickness (s)	I.C.Size (Ød)
A	±0.005	±0.025	±0.025	±0.0002	±0.001	±0.001
F	±0.005	±0.025	±0.013	±0.0002	±0.001	±0.0005
C	±0.013	±0.025	±0.025	±0.0005	±0.001	±0.001
H	±0.013	±0.025	±0.013	±0.0005	±0.001	±0.0005
E	±0.025	±0.025	±0.025	±0.001	±0.001	±0.001
G	±0.025	±0.130	±0.025	±0.001	±0.005	±0.001
J	±0.005	±0.025	±0.05~ ±0.13	±0.0002	±0.001	±0.002~ ±0.005
K	±0.013	±0.025	±0.05~ ±0.13	±0.0005	±0.001	±0.002~ ±0.005
L	±0.025	±0.025	±0.05~ ±0.13	±0.001	±0.001	±0.002~ ±0.005
M	±0.08~ ±0.18	±0.130	±0.05~ ±0.13	±0.003~ ±0.007	±0.005	±0.002~ ±0.005
N	±0.08~ ±0.18	±0.025	±0.05~ ±0.13	±0.003~ ±0.007	±0.001	±0.002~ ±0.005
U	±0.13~ ±0.38	±0.130	±0.08~ ±0.25	±0.005~ ±0.0015	±0.005	±0.003~ ±0.01



④ Chipbreaker、Hole Symbol

Symbol	Hole	Hole Shape	Chipbreaker	Shape
N	Without	—	Without	
R			Single-sided	
F			Double-sided	
A	With	With Hole	Without	
M			Single-sided	
G			Double-sided	
W		one countersink	Without	
T			Single-sided	
Q		twocountersinks	Without	
U			Double-sided	
X	—	—	—	Special

① Shape Symbol ② Relief Angle Symbol ③ Tolerance Symbol ④ Chipbreaker And Hole Symbol ⑤ Cutting Edge Length Symbol

C	N	M	G	12

① Shape Symbol

Symbol	Shape	Corner Angle	Figure
H	Hexagon	120°	
O	Octagon	135°	
P	Pentagon	108°	
S	Square	90°	
T	Triangle	60°	
C	Rhombic	80°	
D		55°	
E		75°	
F		50°	
M		86°	
V		35°	
W	Trigon	80°	
L	Rectangle	90°	
A	Parellelogram	85°	
B		82°	
K		55°	
R	Round	—	

⑤ Cutting Edge Length Symbol

Inch Symbol	I.C.Size (in)	I.C.Size (mm)	R	S	C	W	T	D	V
1	1/8"	3.18							
1.2	5/32"	3.97		03			06	04	
1.5	3/16"	4.76		04	04		08	05	
		5	05						
1.8	7/32"	5.56		05	05	03	09	06	
		6	06						
2	1/4"	6.35		06	06	04	11	07	11
2.5	5/16"	7.94		07	08	05	13	09	
		8	08						
3	3/8"	9.53	09	09	09	06	16	11	16
		10	10						
3.5	7/16"	11.11	11	11	11	7	19	13	19
		12	12						
4	1/2"	12.7	12	12	12	08	22	15	22
5	5/8"	15.88	15	15	16	10	27	19	
		16	16						
6	3/4"	19.05	19	19	19	13	33	23	
		20	20						
7	7/8"	22.225		22	22		38	27	
		25	25						
8	1"	25.4	25	25	25		44	31	
10	1 1/4"	31.75	31	31	32		55	38	
		32	32						
	1 1/2"	38.1		38					

Insert Shape:S,T,C,W,R								
I.C.Size (mm)	Tolerance of I.C.Size (Ød) (mm)		Tolerance of Corner Height (m) (in)		I.C.Size (in)	Tolerance of I.C.Size (Ød) (in)		Tolerance of Corner Height (m) (in)	
	Class M	Class U	Class M	Class U		Class M	Class U	Class M	Class U
6.35	±0.05	±0.08	±0.08	±0.13	1/4"	±0.002	±0.003	±0.003	±0.005
9.525					3/8"				
12.7	±0.08	±0.13	±0.13	±0.2	1/2"	±0.003	±0.005	±0.005	±0.008
15.88	±0.1	±0.18	±0.15	±0.27	5/8"	±0.004	±0.007	±0.006	±0.011
19.05					3/4"				
25.4	±0.13	±0.25	±0.18	±0.38	1"	±0.005	±0.010	±0.007	±0.015
31.75	±0.15	±0.25	±0.2	±0.38	1 1/4"	±0.006	±0.010	±0.008	±0.015
32					1.26"				

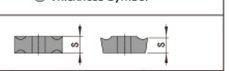
Insert Shape : D					
I.C.Size		Tolerance of I.C.Size (Ød)		Tolerance of Corner Height (m)	
mm	in	mm	in	mm	in
6.35	1/4"	±0.05	±0.002	±0.11	±0.004
9.53	3/8"	±0.05	±0.002	±0.11	±0.004
12.7	1/2"	±0.08	±0.003	±0.15	±0.006
15.88	5/8"	±0.10	±0.004	±0.18	±0.007
19.05	3/4"	±0.10	±0.004	±0.18	±0.007

Insert Shape : V					
I.C.Size		Tolerance of I.C.Size (Ød)		Tolerance of Corner Height (m)	
mm	in	mm	in	mm	in
6.35	1/4"	±0.05	±0.002	±0.15	±0.006
9.53	3/8"	±0.05	±0.002	±0.15	±0.006
12.7	1/2"	±0.08	±0.003	±0.20	±0.008
15.88	5/8"	±0.10	±0.004	±0.27	±0.011
19.05	3/4"	±0.10	±0.004	±0.27	±0.011

⑥ Thickness Symbol	⑦ Nose Radius Symbol	⑧ Chipbreaker Symbol
04	08	BM

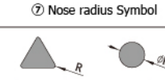
(ISO)

⑥ Thickness Symbol



Inch Symbol	Metric Symbol	Thickness (in)	Thickness (mm)
	00		0.79
	T0		0.99
1	01	1/16"	1.59
1.2	T1	5/64"	1.98
1.5	02	3/32"	2.38
	T2		2.58
2	03	1/8"	3.18
2.5	T3	5/32"	3.97
3	04	3/16"	4.76
	T4		4.96
3.5	05	7/32"	5.56
	T5		5.95
4	06	1/4"	6.35
	T6		6.75
5	07	5/16"	7.94
6	09	3/8"	9.53
	T9		9.72
7	11	7/16"	11.11
8	12	1/2"	12.7
9		9/16"	14.29
10		5/8"	15.88

⑦ Nose radius Symbol



Inch Symbol	Metric Symbol	Nose radius (in)	Nose radius (mm)
0	00		0.0
0.2		1/256"	0.1
0.5	02	1/128"	0.2
1	04	1/64"	0.4
2	08	1/32"	0.8
3	12	3/64"	1.2
4	16	1/16"	1.6
5		5/64"	
6	24	3/32"	2.4
7		7/64"	
8	32	1/8"	3.2
10		5/32"	
12		3/16"	
14		7/32"	
16		1/4"	
X	X	Others	Others
	00	Round inserts	
	M0	Diameter of insert	

⑧ Chipbreaker Symbol

Chipbreaker designation
Indicating the cutting properties
of the chipbreaker

Cutting direction (optional)	
Symbol	direction
R	Right hand
L	Left hand
N	Neutral

Turning

TE1008

P
M
S

Micro-particals substrate with high wear resistance. Apply for steel, stainless steel,high-temperature alloy under stable processing condition.

TE1080

P
K

Micro-particals and high-resistance substrate ,with compund coating, high wearing resistance and oxidation resistance.Apply for universal processing of carbon steel and grey cast iron.

TE2780

P
K

with compound coating, high wearing resistance and oxidation resistance. Apply for stable processing of steel and grey cast iron,uninerrupted cutting.

TE2880

P
K

Common grade with compound coating,high wearing resistance and oxidation resistance.Apply for universal processing of steel,grey cast iron. High wearing resistance and high tougness.

TE2980

P
K

High toughness substrate with compound coating, high wearing resistance and oxidation resistance.Apply for unstable processing of steel and grey cast iron, interrupted cutting.

TE5508

P
M
S

Super toughness substrate,designed for high- interrupted cutting and tough processing condition.Apply for carbon steel,die steel,austenitic stainless steel, cast iron. Exellent tipping resistence.

TE2885

P

Dichroic coating,reduced cutting resistance,high performance on heat dissipation, surface finish and softening. Apply for semi-finishing.

TE2775

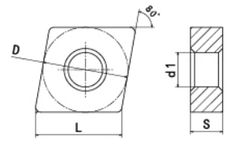
P
M
K

Jpdated CVD coating,effectively improvedcutting smoothness,reduced cuttingresistance,qood performance on chip removalmproved red hardness, higher wear resistance

Application Comparison Table of Turning Grade

Workpiece Material	ISO	Coated Carbide Alloy		Uncoated Carbide Alloy	Cermet
		CVD	PVD		
P Steel	01				
	10		TE1008		
	20	TE1080			
	30	TE2780 TE2880 TE2885			
	40		TE5508		
	50				
	60				
M Stainless Steel	01				
	10		TE1008		
	20		TE5508		
	30				
	40				
	50				
K Cast Iron	01				
	10	TE1080			
	20	TE2780 TE2880 TE2885			
	30				
	40				
	50				
S High-temp Alloys	01				
	10		TE1008		
	20		TE5508		
	30				
	40				
H Hardened Material	01				
	10				
	20				
	30				
	40				

80° Rhombic with hole

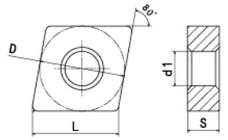


Dimension	L	D	d1	S
0903	9.7	9.5	3.8	3.2
1204	12.9	12.7	5.2	4.8
1606	16.1	15.9	15.9	6.4
1906	19.3	19.1	19.1	6.4

Machining Material									
P	Steel	●	●	◐	◐	✱	✱	●	Working Condition
M	Stainless Steel					✱		●	● Stable Cutting
K	Cast Iron			◐			✱		◐ General Cutting
S	High-temp Alloys	●							✱ Unstable Cutting
H	Hardened Material								

Insert Shape	ISO		Radius	Coated Grade							Cutting Data			
			R	TE1080	TE2780	TE2880	TE2885	TE2980	TE5508	TE1008	fmin	fmax	apmin	apmax
	CNMG	120404 SH	0.4	○	●	●	●	●	○	●	0.15	0.50	0.25	1.50
		120408 SH	0.8	○	●	●	●	●	○	●	0.15	0.50	0.25	1.50
	CNMG	090304 BM	0.4	○	●	●	●	●	○	●	0.15	0.50	0.25	2.50
		090308 BM	0.8	○	●	●	●	●	○	●	0.15	0.50	0.25	2.50
		120404 BM	0.4	○	●	●	●	●	○	●	0.15	0.50	0.25	2.50
		120408 BM	0.8	○	●	●	●	●	○	●	0.15	0.50	0.25	2.50
		120412 BM	1.2	○	●	●	●	●	○	●	0.15	0.50	0.25	2.50
		160608 BM	0.8	○	●	●	●	●	○	●	0.15	0.50	0.25	2.50
		160612 BM	1.2	○	●	●	●	●	○	●	0.15	0.50	0.25	2.50
	CNMG	090304 MR	0.4	○	●	●	●	●	○	●	0.10	0.50	1.00	3.50
		090308 MR	0.8	○	●	●	●	●	○	●	0.10	0.50	1.00	4.50
		120404 MR	0.4	○	●	●	●	●	○	●	0.10	0.50	1.00	4.50
		120408 MR	0.8	○	●	●	●	●	○	●	0.10	0.50	1.00	4.50
		120412 MR	1.2	○	●	●	●	●	○	●	0.10	0.50	1.00	5.50
		160612 MR	1.2	○	●	●	●	●	○	●	0.10	0.50	1.00	5.50
		190608 MR	0.8	○	●	●	●	●	○	●	0.10	0.50	1.00	5.50
		190612 MR	1.2	○	●	●	●	●	○	●	0.10	0.50	1.00	5.50
	CNMG	120408 UR	0.8	○	●	●	●	●	○	●	0.15	0.36	1.00	4.50
		120412 UR	1.2	○	●	●	●	●	○	●	0.23	0.44	1.00	5.00
		120416 UR	1.6	○	●	●	●	●	○	●	0.30	0.48	1.00	5.00
		160608 UR	0.8	○	●	●	●	●	○	●	0.25	0.50	1.00	6.00
		160612 UR	1.2	○	●	●	●	●	○	●	0.30	0.60	2.00	7.00
		160616 UR	1.6	○	●	●	●	●	○	●	0.30	0.70	2.00	7.00
		190608 UR	0.8	○	●	●	●	●	○	●	0.30	0.72	3.00	8.00
		190612 UR	1.2	○	●	●	●	●	○	●	0.30	0.80	3.00	8.00
		190616 UR	1.6	○	●	●	●	●	○	●	0.40	0.85	4.00	10.00
		190624 UR	2.4	○	●	●	●	●	○	●	0.40	1.20	4.00	10.00
	CNMG	120408 BBQ	0.4	○	●	●	●	●	○	●	0.14	0.24	1.00	4.00
		120408 BBQ	0.8	○	●	●	●	●	○	●	0.14	0.24	1.00	4.00
		120412 BBQ	1.2	○	●	●	●	●	○	●	0.18	0.32	1.00	4.00

○ Generally Recommended ● Prior Recommended



Dimension	L	D	d1	S
0624	19. 05	19. 0	7. 94	6. 35

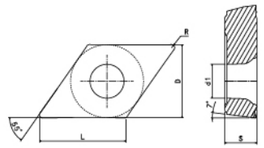
Machining Material									
	P	Steel	●	●	◐	◐	✲	✲	●
	M	Stainless Steel					✲		●
	K	Cast Iron			◐			✲	
	S	High-temp Alloys	●						
	H	Hardened Material							

Working Condition
● Stable Cutting
◐ General Cutting
✲ Unstable Cutting

Insert Shape	ISO		Radius	Coated Grade							Cutting Data			
			R	TE1080	TE2780	TE2880	TE2885	TE2980	TE5508	TE1008	fmin	fmax	apmin	apmax
	CNMM	190624 HT	2. 4	○	●	●	●	●	○	●	0.50	1.00	2.00	15.0
	CNMM	190624 HY	2. 4	○	●	●	●	●	○	●	0.50	1.00	2.00	15.0

○ Generally Recommended ● Prior Recommended

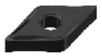
55° Rhombic insert (negative)-DNMG



Dimension	L	D	d1	S
1104	11. 6	9. 5	3. 8	4. 8
1504	15. 5	12. 7	5. 2	4. 8
1506	15. 5	12. 7	5. 2	6. 4

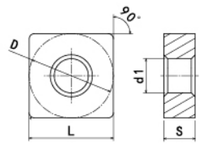
Machining Material									
	P	Steel	●	●	◐	◐	✲	✲	●
	M	Stainless Steel					✲		●
	K	Cast Iron			◐			✲	
	S	High-temp Alloys	●						
	H	Hardened Material							

Working Condition
● Stable Cutting
◐ General Cutting
✲ Unstable Cutting

Insert Shape	ISO		Radius	Coated Grade							Cutting Data			
			R	TE1080	TE2780	TE2880	TE2885	TE2980	TE5508	TE1008	fmin	fmax	apmin	apmax
	DNMG	110404 BM	0. 4	○	●	●	●	●	○	●	0.15	0.50	0.25	2.50
		150404 BM	0. 4	○	●	●	●	●	○	●	0.15	0.50	0.25	2.50
		150408 BM	0. 8	○	●	●	●	●	○	●	0.15	0.50	0.25	2.50
		150604 BM	0. 4	○	●	●	●	●	○	●	0.15	0.50	0.25	2.50
		150608 BM	0. 8	○	●	●	●	●	○	●	0.15	0.50	0.25	2.50
		150612 BM	1. 2	○	●	●	●	●	○	●	0.15	0.50	0.25	2.50
	DNMG	110404 MR	0. 4	○	●	●	●	●	○	●	0.20	0.50	0.30	3.00
		110408 MR	0. 8	○	●	●	●	●	○	●	0.20	0.50	0.50	3.00
		150404 MR	0. 4	○	●	●	●	●	○	●	0.20	0.50	0.30	3.00
		150408 MR	0. 8	○	●	●	●	●	○	●	0.20	0.50	0.50	3.50
		150412 MR	1. 2	○	●	●	●	●	○	●	0.20	0.50	0.80	4.00
		150604 MR	0. 4	○	●	●	●	●	○	●	0.20	0.50	0.30	3.00
		150608 MR	0. 8	○	●	●	●	●	○	●	0.20	0.50	0.50	3.50
		150612 MR	1. 2	○	●	●	●	●	○	●	0.20	0.50	0.80	4.50
	DNMG	150412 UR	1. 2	○	●	●	●	●	○	●	0.25	0.60	1.00	4.00
		150612 UR	1. 2	○	●	●	●	●	○	●	0.25	0.50	2.00	6.00
		150616 UR	1. 6	○	●	●	●	●	○	●	0.25	0.60	2.00	8.00
	DNMG	110404 BBQ	0. 4	○	●	●	●	●	○	●	0.12	0.30	0.40	3.00
		110408 BBQ	0. 8	○	●	●	●	●	○	●	0.12	0.30	0.40	3.00
		150404 BBQ	0. 4	○	●	●	●	●	○	●	0.12	0.30	1.00	3.50
		150408 BBQ	0. 8	○	●	●	●	●	○	●	0.12	0.30	1.00	4.00
		150604 BBQ	0. 4	○	●	●	●	●	○	●	0.12	0.24	0.50	4.00
		150608 BBQ	0. 8	○	●	●	●	●	○	●	0.12	0.24	1.00	3.50
		150416 MP	1. 6	○	●	●	●	●	○	●	0.12	0.24	1.00	3.50

○ Generally Recommended ● Prior Recommended

90° square insert (negative)-SNMG



Dimension	L	D	d1	S
1204	12. 7	12. 7	5. 2	4. 8
1506	15. 9	15. 9	6. 4	6. 4
1906	19. 1	19. 1	7. 9	6. 4

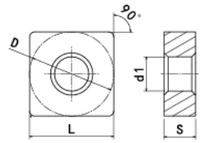
Machining Material									
P	Steel	●	●	◐	◐	✲	✲	●
M	Stainless Steel					✲		●
K	Cast Iron			◐			✲	
S	High-temp Alloys	●						
H	Hardened Material							

Working Condition
● Stable Cutting
◐ General Cutting
✲ Unstable Cutting

Insert Shape	ISO		Radius	Coated Grade							Cutting Data			
			R	TE1080	TE2780	TE2880	TE2885	TE2980	TE5508	TE1008	fmin	fmax	apmin	apmax
	SNMG	120404 BM	0. 4	○	●	●	●	●	○	●	0.15	0.50	0.25	2.50
		120408 BM	0. 8	○	●	●	●	●	○	●	0.15	0.50	0.25	2.50
		120412 BM	1. 2	○	●	●	●	●	○	●	0.15	0.50	0.25	2.50
	SNMG	120404 MR	0. 4	○	●	●	●	●	○	●	0.20	0.45	1.00	5.00
		120408 MR	0. 8	○	●	●	●	●	○	●	0.20	0.45	1.00	5.00
		120412 MR	1. 2	○	●	●	●	●	○	●	0.25	0.50	1.40	5.00
		150608 MR	0. 8	○	●	●	●	●	○	●	0.20	0.50	1.00	5.00
		150612 MR	1. 2	○	●	●	●	●	○	●	0.20	0.50	2.00	7.00
		190608 MR	0. 8	○	●	●	●	●	○	●	0.40	0.60	2.00	7.00
		190612 MR	1. 2	○	●	●	●	●	○	●	0.40	0.65	2.00	9.00
	SNMG	120412 UR	1. 2	○	●	●	●	●	○	●	0.30	0.70	2.00	5.00
		120416 UR	1. 6	○	●	●	●	●	○	●	0.30	0.70	2.50	6.00
		150608 UR	0. 8	○	●	●	●	●	○	●	0.30	0.70	2.50	8.00
		150612 UR	1. 2	○	●	●	●	●	○	●	0.30	0.70	2.50	8.00
		150616 UR	1. 6	○	●	●	●	●	○	●	0.30	0.70	2.50	8.00
		190612 UR	1. 2	○	●	●	●	●	○	●	0.40	0.85	3.00	8.00
		190616 UR	1. 6	○	●	●	●	●	○	●	0.40	0.85	3.00	10.00
	SNMG	120408 BBQ	0. 8	○	●	●	●	●	○	●	0. 08	0. 40	0. 40	2. 00

○ Generally Recommended ● Prior Recommended

90° square insert (negative)-SNMM



Dimension	L	D	d1	S
0924	25. 4	25. 4	9. 2	9. 52

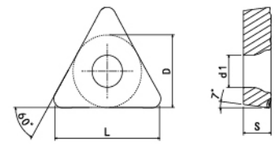
Machining Material									
P	Steel	●	●	◐	◐	✲	✲	●
M	Stainless Steel					✲		●
K	Cast Iron			◐			✲	
S	High-temp Alloys	●						
H	Hardened Material							

Working Condition
● Stable Cutting
◐ General Cutting
✲ Unstable Cutting

Insert Shape	ISO		Radius	Coated Grade							Cutting Data			
			R	TE1080	TE2780	TE2880	TE2885	TE2980	TE5508	TE1008	fmin	fmax	apmin	apmax
	SNMM	250924 HT	2. 4	○	●	●	●	●	○	●	0.3	1.00	5.00	20.0

○ Generally Recommended ● Prior Recommended

60° triangle insert (negative)-TNMG



Dimension	L	D	d1	S
1604	16. 5	9. 5	3. 8	4. 8

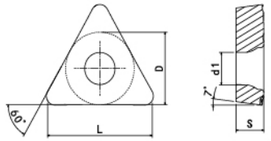
Machining Material									
P	Steel	●	●	◐	◐	✲	✲	●
M	Stainless Steel					✲		●
K	Cast Iron			◐			✲	
S	High-temp Alloys	●						
H	Hardened Material							

Working Condition
● Stable Cutting
◐ General Cutting
✲ Unstable Cutting

Insert Shape	ISO		Radius	Coated Grade							Cutting Data			
			R	TE1080	TE2780	TE2880	TE2885	TE2980	TE5508	TE1008	fmin	fmax	apmin	apmax
	TNMG	160404 SH	0. 4	○	●	●	●	●	○	●	0.15	0.50	0.25	1.50
		160408 SH	0. 8	○	●	●	●	●	○	●	0.15	0.50	0.25	1.50
	TNMG	160404 BM	0. 4	○	●	●	●	●	○	●	0.15	0.50	0.25	2.50
		160408 BM	0. 8	○	●	●	●	●	○	●	0.15	0.50	0.25	2.50
		160412 BM	1. 2	○	●	●	●	●	○	●	0.15	0.50	0.25	2.50
		220404 BM	0. 4	○	●	●	●	●	○	●	0.25	0.50	1.00	5.00
		220408 BM	0. 8	○	●	●	●	●	○	●	0.20	0.40	0.80	7.00
		220412 BM	1. 2	○	●	●	●	●	○	●	0.25	0.50	1.00	7.00
	TNMG	110304 MR	0. 4	○	●	●	●	●	○	●	0.15	0.30	0.40	5.00
		110308 MR	0. 8	○	●	●	●	●	○	●	0.20	0.40	0.80	5.00
		160404 MR	0. 4	○	●	●	●	●	○	●	0.25	0.50	1.00	5.00
		160408 MR	0. 8	○	●	●	●	●	○	●	0.20	0.40	0.80	7.00
		160412 MR	1. 2	○	●	●	●	●	○	●	0.25	0.50	1.00	7.00
		220408 MR	0. 8	○	●	●	●	●	○	●	0.30	0.60	1.50	7.00
		220412 MR	1. 2	○	●	●	●	●	○	●	0.20	0.50	2.00	8.00
		220416 MR	1. 6	○	●	●	●	●	○	●	0.20	0.50	2.00	10.0

○ Generally Recommended ● Prior Recommended

60° triangle insert (negative)-TNMG



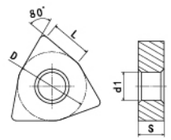
Dimension	L	D	d1	S
1604	16.5	9.5	3.8	4.8

Machining Material										Working Condition
	P	Steel	●	●	◐	◐	✱	✱	●	● Stable Cutting
	M	Stainless Steel					✱		●	◐ General Cutting
	K	Cast Iron			◐			✱		✱ Unstable Cutting
	S	High-temp Alloys	●							
	H	Hardened Material								

Insert Shape	ISO		Radius	Coated Grade							Cutting Data			
			R	TE1080	TE2780	TE2880	TE2885	TE2980	TE5508	TE1008	fmin	fmax	apmin	apmax
	TNMG	160404 BBQ	0.4	○	●	●	●	●	○	●	0.15	0.30	0.50	3.00
		160408 BBQ	0.8	○	●	●	●	●	○	●	0.12	0.24	1.00	3.00
		220404 BBQ	0.4	○	●	●	●	●	○	●	0.14	0.32	0.50	3.50
		220408 BBQ	0.8	○	●	●	●	●	○	●	0.14	0.32	1.00	3.50

○ Generally Recommended ● Prior Recommended

80° Convex triangle insert (negative)-WNMG



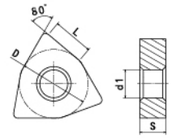
Dimension	L	D	d1	S
0804	8.7	12.7	5.2	4.8

Machining Material										Working Condition
	P	Steel	●	●	◐	◐	✱	✱	●	● Stable Cutting
	M	Stainless Steel					✱		●	◐ General Cutting
	K	Cast Iron			◐			✱		✱ Unstable Cutting
	S	High-temp Alloys	●							
	H	Hardened Material								

Insert Shape	ISO		Radius	Coated Grade							Cutting Data			
			R	TE1080	TE2780	TE2880	TE2885	TE2980	TE5508	TE1008	fmin	fmax	apmin	apmax
	WNMG	080404 SH	0.4	○	●	●	●	●	○	●	0.15	0.50	0.25	1.50
		080408 SH	0.8	○	●	●	●	●	○	●	0.15	0.50	0.25	1.50
	WNMG	080404 BM	0.4	○	●	●	●	●	○	●	0.15	0.50	0.25	2.50
		080408 BM	0.8	○	●	●	●	●	○	●	0.15	0.50	0.25	2.50
		080412 BM	1.2	○	●	●	●	●	○	●	0.15	0.50	0.25	2.50
	WNMG	060408 MR	0.8	○	●	●	●	●	○	●	0.20	0.50	0.25	5.00
		080404 MR	0.4	○	●	●	●	●	○	●	0.20	0.50	0.25	5.00
		080408 MR	0.8	○	●	●	●	●	○	●	0.20	0.50	0.25	5.00
		080412 MR	1.2	○	●	●	●	●	○	●	0.20	0.50	0.25	5.00
		080416 MR	1.6	○	●	●	●	●	○	●	0.20	0.50	0.25	5.00
	WNMG	080408 UR	0.8	○	●	●	●	●	○	●	0.18	0.40	1.00	5.00
		080412 UR	1.2	○	●	●	●	●	○	●	0.23	0.44	2.00	5.00
		080416 UR	1.6	○	●	●	●	●	○	●	0.30	0.48	2.00	8.00

○ Generally Recommended ● Prior Recommended

80° Convex triangle insert (negative)-WNMG



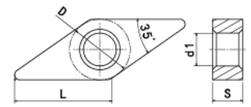
Dimension	L	D	d1	S
0804	8.7	12.7	5.2	4.8

Machining Material										Working Condition
	P	Steel	●	●	◐	◐	✱	✱	●	● Stable Cutting
	M	Stainless Steel					✱		●	◐ General Cutting
	K	Cast Iron			◐			✱		✱ Unstable Cutting
	S	High-temp Alloys	●							
	H	Hardened Material								

Insert Shape	ISO		Radius	Coated Grade							Cutting Data			
			R	TE1080	TE2780	TE2880	TE2885	TE2980	TE5508	TE1008	fmin	fmax	apmin	apmax
	WNMG	06T304 BBQ	0.4	○	●	●	●	●	○	●	0.14	0.30	1.00	3.50
		06T308 BBQ	0.8	○	●	●	●	●	○	●	0.14	0.30	1.00	3.50
		060404 BBQ	0.4	○	●	●	●	●	○	●	0.14	0.30	1.00	4.00
		060408 BBQ	0.8	○	●	●	●	●	○	●	0.14	0.30	1.00	3.50
		080404 BBQ	0.4	○	●	●	●	●	○	●	0.14	0.35	1.00	3.50
		080408 BBQ	0.8	○	●	●	●	●	○	●	0.14	0.35	1.00	4.00
		080412 BBQ	1.2	○	●	●	●	●	○	●	0.14	0.35	1.00	4.00
		080408 LM	0.8	○	●	●	●	●	○	●	0.14	0.35	1.00	4.00
		080408 FN	0.8	○	●	●	●	●	○	●	0.14	0.35	1.00	4.00

○ Generally Recommended ● Prior Recommended

35° Rhoibic insert (negative)-VNMG



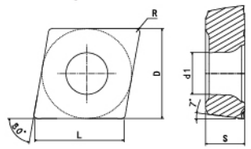
Dimension	L	D	d1	S
1604	16.6	9.5	3.8	4.8

Machining Material										Working Condition
	P	Steel	●	●	◐	◐	✱	✱	●	● Stable Cutting
	M	Stainless Steel					✱		●	◐ General Cutting
	K	Cast Iron			◐			✱		✱ Unstable Cutting
	S	High-temp Alloys	●							
	H	Hardened Material								

Insert Shape	ISO		Radius	Coated Grade							Cutting Data			
			R	TE1080	TE2780	TE2880	TE2885	TE2980	TE5508	TE1008	fmin	fmax	apmin	apmax
	VNMG	160408 BM	0.8	○	●	●	●	●	○	●	0.50	0.50	0.25	2.50
				○	●	●	●	●	○	●				
				○	●	●	●	●	○	●				
	VNMG	160404 MR	0.4	○	●	●	●	●	○	●	0.20	0.50	0.25	5.00
		160408 MR	0.8	○	●	●	●	●	○	●	0.20	0.50	0.25	5.00
		160408 MP	0.8	○	●	●	●	●	○	●	0.20	0.50	0.25	5.00

○ Generally Recommended ● Prior Recommended

80° Rhombic insert (positive)-CCMT



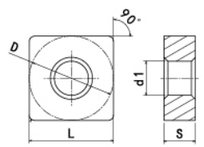
Dimension	D	S	L	d1
0602	6. 35	2. 38	6. 45	2. 8
09T3	9. 52	3. 97	9. 7	4. 4
1204	12. 7	4. 76	12. 9	5. 5

Machining Material										
	P	Steel	●	●	●	◐	◐	✲	✲	●
	M	Stainless Steel						✲		●
	K	Cast Iron				◐			✲	
	S	High-temp Alloys		●						
	H	Hardened Material								

Working Condition
● Stable Cutting
◐ General Cutting
✲ Unstable Cutting

Insert Shape	ISO		Radius	Coated Grade								Cutting Data			
			R	TE0725	TE1080	TE2780	TE2880	TE2885	TE2980	TE5508	TE1008	fmin	fmax	apmin	apmax
	CCMT	060202 SF	0. 2	●	○	●	●	●	●	○	●	0.40	0.75	3.00	7.00
		060204 SF	0. 4	●	○	●	●	●	●	○	●	0.40	0.80	3.00	7.00
		060208 SF	0. 8	●	○	●	●	●	●	○	●	0.40	0.75	3.00	7.00
		09T302 SF	0. 2	●	○	●	●	●	●	○	●	0.40	0.80	3.00	7.00
		09T304 SF	0. 4	●	○	●	●	●	●	○	●	0.40	0.75	3.00	7.00
		09T308 SF	0. 8	●	○	●	●	●	●	○	●	0.40	0.80	3.00	7.00
		120404 SF	0. 4	●	○	●	●	●	●	○	●	0.40	0.75	3.00	7.00
		120408 SF	0. 8	●	○	●	●	●	●	○	●	0.40	0.80	3.00	7.00

○ Generally Recommended ● Prior Recommended



Dimension	D	S	L	d1
09T3	6. 35	2. 38	6. 45	2. 8
1204	9. 52	3. 97	9. 7	4. 4

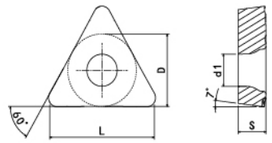
Machining Material										
	P	Steel	●	●	●	◐	◐	✲	✲	●
	M	Stainless Steel						✲		●
	K	Cast Iron				◐			✲	
	S	High-temp Alloys		●						
	H	Hardened Material								

Working Condition
● Stable Cutting
◐ General Cutting
✲ Unstable Cutting

Insert Shape	ISO		Radius	Coated Grade								Cutting Data			
			R	TE0725	TE1080	TE2780	TE2880	TE2885	TE2980	TE5508	TE1008	fmin	fmax	apmin	apmax
	SCMT	09T302 SF	0. 2	●	○	●	●	●	●	○	●	0.40	0.80	3.00	7.00
		09T304 SF	0. 4	●	○	●	●	●	●	○	●	0.40	0.80	3.00	7.00
		09T308 SF	0. 8	●	○	●	●	●	●	○	●	0.40	0.80	3.00	7.00
		120402 SF	0. 2	●	○	●	●	●	●	○	●	0.40	0.80	3.00	7.00
		120404 SF	0. 4	●	○	●	●	●	●	○	●	0.40	0.75	3.00	7.00
		120408 SF	0. 8	●	○	●	●	●	●	○	●	0.40	0.75	3.00	7.00

○ Generally Recommended ● Prior Recommended

60° triangle insert(positive)-TCMT



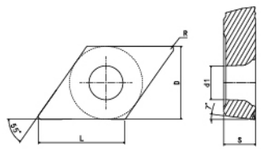
Dimension	D	S	L	d1
1102	6. 35	2. 38	11. 0	2. 8
16T3	9. 52	3. 97	16. 5	4. 4
11T3	6. 35	3. 97	11. 0	2. 8

Machining Material										
	P	Steel	●	●	●	◐	◐	✲	✲	●
	M	Stainless Steel						✲		●
	K	Cast Iron				◐			✲	
	S	High-temp Alloys		●						
	H	Hardened Material								

Working Condition
● Stable Cutting
◐ General Cutting
✲ Unstable Cutting

Insert Shape	ISO		Radius	Coated Grade								Cutting Data			
			R	TE0725	TE1080	TE2780	TE2880	TE2885	TE2980	TE5508	TE1008	fmin	fmax	apmin	apmax
	TCMT	090202 SF	0. 2	●	○	●	●	●	●	○	●	0.40	0.80	3.00	7.00
		090204 SF	0. 4	●	○	●	●	●	●	○	●	0.40	0.80	3.00	7.00
		090208 SF	0. 3	●	○	●	●	●	●	○	●	0.40	0.80	3.00	7.00
		11T304 SF	0. 4	●	○	●	●	●	●	○	●	0.40	0.80	3.00	7.00
		110202 SF	0. 2	●	○	●	●	●	●	○	●	0.40	0.75	3.00	7.00
		110204 SF	0. 4	●	○	●	●	●	●	○	●	0.40	0.75	3.00	7.00
		110208 SF	0. 8	●	○	●	●	●	●	○	●	0.40	0.80	3.00	7.00
		16T302 SF	0. 2	●	○	●	●	●	●	○	●	0.40	0.75	3.00	7.00
		16T304 SF	0. 4	●	○	●	●	●	●	○	●	0.40	0.75	3.00	7.00
		16T308 SF	0. 8	●	○	●	●	●	●	○	●	0.40	0.80	3.00	7.00

○ Generally Recommended ● Prior Recommended



Dimension	D	S	L	d1
0702	6. 35	2. 38	11. 0	2. 8

Machining Material										
	P	Steel	●	●	●	◐	◐	✲	✲	●
	M	Stainless Steel						✲		●
	K	Cast Iron				◐			✲	
	S	High-temp Alloys		●						
	H	Hardened Material								

Working Condition
● Stable Cutting
◐ General Cutting
✲ Unstable Cutting

Insert Shape	ISO		Radius	Coated Grade								Cutting Data			
			R	TE0725	TE1080	TE2780	TE2880	TE2885	TE2980	TE5508	TE1008	fmin	fmax	apmin	apmax
	DCMT	070202 SF	0. 2	●	○	●	●	●	●	○	●	0.40	0.80	3.00	7.00
		070204 SF	0. 4	●	○	●	●	●	●	○	●	0.40	0.80	3.00	7.00
		070208 SF	0. 8	●	○	●	●	●	●	○	●	0.40	0.80	3.00	7.00

○ Generally Recommended ● Prior Recommended

Internal Turning

Shape of Inserts	Cutting Geometry						
	Model	MCKNR/L	MCLNR/L	SCFCR/L	SCLCR/L		
	Lead Angel	75°	95°	91°	95°		
	Insert Model	12 16 19	12 16 19	06 09 12	06 09 12		
	Page	D35	D38	D35	D39		

Shape of Inserts	Cutting Geometry						
	Model	MDUNR/L	SDQCR/L	SDUCR/L			
	Lead Angel	93°	107.5°	93°			
	Insert Model	11 15	07 11	07 11			
	Page	D36	D40	D40			

Shape of Inserts	Cutting Geometry						
	Model	MSKNR/L	MSSNR/L				
	Lead Angel	75°	45°				
	Insert Model	12	12				
	Page	D36	D36				

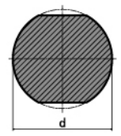
Shape of Inserts	Cutting Geometry						
	Model	MTFNR/L	STFCR/L	MTWNR/L	STFCR/L		
	Lead Angel	91°	91°	60°	91°		
	Insert Model	16 22	09 11 16	16	09 11 16		
	Page	D37	D41	D37	D41		

Shape of Inserts	Cutting Geometry						
	Model	MVUNR/L	SVQCR/L	SVUCR/L			
	Lead Angel	93°	117.5°	93°			
	Insert Model	16	11 16	08 11 16			
	Page	D37	D42	D42			

Shape of Inserts	Cutting Geometry						
	Model	MWLNR/L	SWLCR/L				
	Lead Angel	95°	95°				
	Insert Model	06 08	04 06				
	Page	D38	D43				

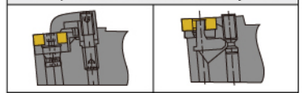
Holder Symbol	
A	Steel Internal Cooling Holder
C	Carbide Alloy Holder
E	Carbide Alloy Internal Cooling Holder
H	High-speed Steel Holder
S	Steel Holder

② 刀杆直径代号 Holder Diameter Symbol

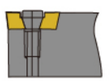


Holder Length Symbol	
D	32
E	40
F	50
G	60
H	32
J	40
M	50
N	60
Q	70
R	80
S	90
T	100
U	125
V	150
W	170
Y	200

Compression Method of Holder Symbol



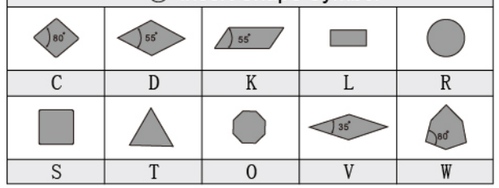
M Multi Clamp | P Lever Lock



S Screw Clamp

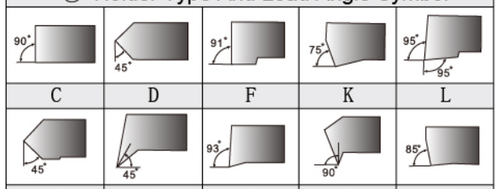
①	②	③	④	⑤	⑥	⑦	⑧	⑨
S	12	S	M	T	F	C	R	12

⑤ Insert Shape Symbol



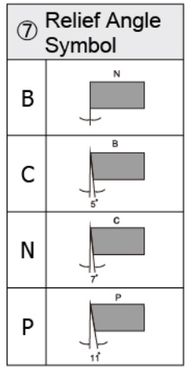
C	D	K	L	R
S	T	O	V	W

⑥ Holder Type And Lead Angle Symbol

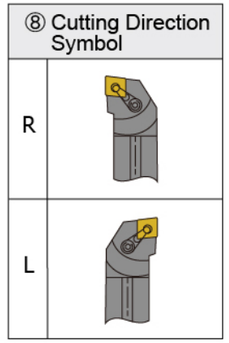


C	D	F	K	L
S	Q	U	W	Y

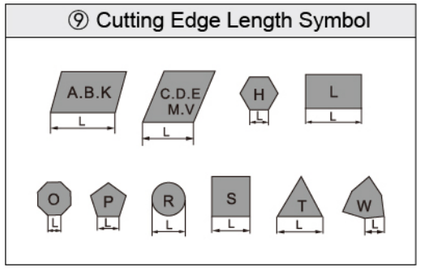
⑦ Relief Angle Symbol



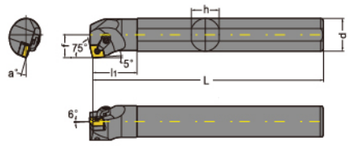
⑧ Cutting Direction Symbol

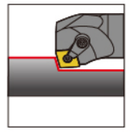


⑨ Cutting Edge Length Symbol





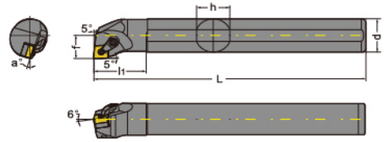


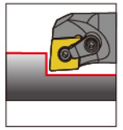


Lead Angle:75°

Holder Model	Dimension							Inserts	Plate	Insert Pad	Middle Screw	Plate Screw	Wrench
	Dmin	φd	L	l1	h	f	a°						
S16N-MCKNR/L12	21	16	160	27	15	12	17°	CN. . 1204. .	MY0515-A	MC1204	MX0611	ML0516	L2. 5
S20Q-MCKNR/L12	26	20	180	34	18	14	15°	CN. . 1204. .	MY0515	MC1204	MX0613	ML0520	L2. 5
S25R-MCKNR/L12	32	25	200	43	23	16. 5	12°	CN. . 1204. .	MY061910	MC1204	MX0613	ML0620	L2. 5. L3
S32S-MCKNR/L12	40	32	250	54	30	22. 5	17°	CN. . 1204. .	MY0619	MC1204	MX0617	ML0625	L2. 5. L3
S40T-MCKNR/L12	50	40	300	68	37	26	15°	CN. . 1204. .	MY0619	MC1204	MX0617	ML0625	L2. 5. L3
S50U-MCKNR/L12	60	50	350	85	47	33	12°	CN. . 1204. .	MY0619	MC1204	MX0617	ML0625	L2. 5. L3
S60V-MCKNR/L12	70	60	400	102	56	36	10°	CN. . 1204. .	MY0619	MC1204	MX0617	ML0625	L2. 5. L3
S50U-MCKNR/L19	60	50	350	85	47	32. 5	12°	CN. . 1906. .	MY0823	MC1904	MX1022	ML0828	L4
H20Q-MCKNR/L12	26	20	180	34	18	14	15°	CN. . 1204. .	MY0515	MC1204	MX0613	ML0520	L2. 5
H25R-MCKNR/L12	32	32	200	43	23	16. 5	12°	CN. . 1204. .	MY061910	MC1204	MX0613	ML0620	L2. 5, L3



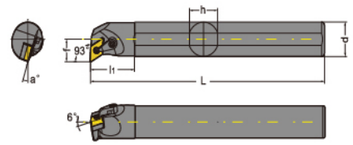




Lead Angle:45°

Holder Model	Dimension							Inserts	Plate	Insert Pad	Middle Screw	Plate Screw	Wrench
	Dmin	φd	L	l1	h	f	a°						
S16N-MCLNR/L12	22	16	160	27	15	11	17°	CN. . 1204. .	MY0515-A	MC1204	MX0611	ML0516	L2. 5
S16Q-MCLNR/L12	22	16	180	27	15	11	17°	CN. . 1204. .	MY0515-A	MC1204	MX0611	ML0516	L2. 5
S20Q-MCLNR/L12	25	20	180	34	18	13	15°	CN. . 1204. .	MY0515	MC1204	MX0613	ML0520	L2. 5
S20R-MCLNR/L12	25	20	200	34	18	13	15°	CN. . 1204. .	MY0515	MC1204	MX0613	ML0520	L2. 5
S25R-MCLNR/L12	32	25	200	43	23	16. 5	12°	CN. . 1204. .	MY061910	MC1204	MX0613	ML0620	L2. 5. L3
S32S-MCLNR/L12	40	32	250	54	30	22. 5	17°	CN. . 1204. .	MY0619	MC1204	MX0617	ML0625	L2. 5. L3
S40T-MCLNR/L12	50	40	300	68	37	26	15°	CN. . 1204. .	MY0619	MC1204	MX0617	ML0625	L2. 5. L3
S45U-MCLNR/L12	55	45	350	77	42	29. 5	15°	CN. . 1204. .	MY0619	MC1204	MX0617	ML0625	L2. 5. L3
S50U-MCLNR/L12	60	50	350	85	47	31	12°	CN. . 1204. .	MY0619	MC1204	MX0617	ML0625	L2. 5. L3
S60V-MCLNR/L12	70	60	400	102	56	36	10°	CN. . 1204. .	MY0619	MC1204	MX0617	ML0625	L2. 5. L3
S40T-MCLNR/L16	50	40	300	68	37	26	15°	CN. . 1606. .	MY0823	MC1606	MX0822	ML0828	L3, L4
S50U-MCLNR/L16	60	50	350	85	47	31	12°	CN. . 1606. .	MY0823	MC1606	MX0822	ML0828	L3, L4
S50U-MCLNR/L19	60	50	350	85	47	31	12°	CN. . 1906. .	MY0823	MC1904	MX1022	ML0828	L4
S60V-MCLNR/L19	70	60	400	102	56	36	10°	CN. . 1906. .	MY0823	MC1904	MX1022	ML0828	L4
H20Q-MCLNR/L12	25	20	180	34	18	13	15°	CN. . 1204. .	MY0515	MC1204	MX0613	ML0520	L2. 5
H25R-MCLNR/L12	32	25	200	43	43	16. 5	12°	CN. . 1204. .	MY061910	MC1204	MX0613	ML0620	L2. 5. L3
H32S-MCLNR/L12	40	32	250	54	54	22. 5	17°	CN. . 1204. .	MY0619	MC1204	MX0617	ML0625	L2. 5. L3



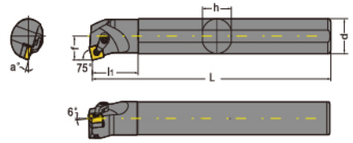




Lead Angle:93°

Holder Model	Dimension							Inserts	Plate	Insert Pad	Middle Screw	Plate Screw	Wrench
	Dmin	φd	L	l1	h	f	a°						
S16N-MDUNR/L11	22	16	160	27	15	10	17°	DN. . 1104. .	MY0515-A	MD1104	MX0510	ML0516	L2. 5, L3
S20Q-MDUNR/L11	25	20	180	34	18	12	15°	DN. . 1104. .	MY0515	MD1104	MX0510	ML0516	L2. 5, L3
S25R-MDUNR/L11	32	25	200	43	23	16	12°	DN. . 1104. .	MY0619	MD1104	MX0510	ML0620	L2, L3
S25R-MDUNR/L15	32	25	200	43	23	16	12°	DN. . 1504. .	MY0621	MD1504	MX0613	ML0620	L2. 5, L3
S32S-MDUNR/L15	40	32	250	54	30	21	17°	DN. . 1504. .	MY0621	MD1504	MX0613	ML0620	L2. 5, L3
S40T-MDUNR/L15	50	40	300	68	37	26	15°	DN. . 1504. .	MY0621	MD1504	MX0617	ML0625	L2. 5, L3
S50U-MDUNR/L15	60	50	350	85	47	32	12°	DN. . 1504. .	MY0621	MD1504	MX0617	ML0625	L2. 5, L3
H25R-MDUNR/L15	32	25	200	43	23	16	12°	DN. . 1504. .	MY0621	MD1504	MX0613	ML0620	L2. 5, L3
H32S-MDUNR/L15	40	32	250	54	30	21	17°	DN. . 1504. .	MY0621	MD1504	MX0617	ML0625	L2. 5, L3



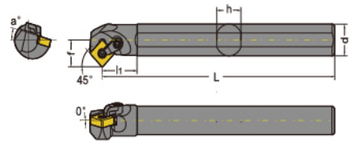




Lead Angle:75°

Holder Model	Dimension							Inserts	Plate	Insert Pad	Middle Screw	Plate Screw	Wrench
	Dmin	φd	L	l1	h	f	a°						
S16N-MSKNR/L12	22	16	160	27	15	11	17°	SN. . 1204. .	MY0515-A	MS1204	MX0611	ML0516	L2. 5
S20Q-MSKNR/L12	25	20	180	34	18	13	15°	SN. . 1204. .	MY0515	MS1204	MX0611	ML0516	L2. 5
S25R-MSKNR/L12	32	25	200	43	23	17	12°	SN. . 1204. .	MY061910	MS1204	MX0613	ML0620	L2. 5, L3
S32S-MSKNR/L12	40	32	250	54	30	22	17°	SN. . 1204. .	MY061910	MS1204	MX0613	ML0620	L2. 5, L3
H20Q-MSKNR/L12	25	20	180	34	18	13	15°	SN. . 1204. .	MY0515	MS1204	MX0611	ML0516	L2. 5
H25R-MSKNR/L12	32	25	200	43	23	17	12°	SN. . 1204. .	MY061910	MS1204	MX0613	ML0620	L2. 5, L3



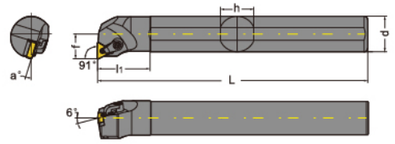




Lead Angle:45°

Holder Model	Dimension							Inserts	Plate	Insert Pad	Middle Screw	Plate Screw	Wrench
	Dmin	φd	L	l1	h	f	a°						
S16N-MSSNR/L12	26	16	160	27	15	15	17°	SN. . 1204. .	MY0515-A	MS1204	MX0611	ML0516	L2. 5, L3
S20Q-MSSNR/L12	30	20	180	34	18	17	15°	SN. . 1204. .	MY0515	MS1204	MX0613	ML0520	L2. 5, L3
S25R-MSSNR/L12	35	25	200	43	23	19. 5	12°	SN. . 1204. .	MY061910	MS1204	MX0613	ML0620	L2. 5, L3
S32S-MSSNR/L12	42	32	250	54	30	23	17°	SN. . 1204. .	MY0619	MS1204	MX0617	ML0625	L2. 5, L3
A20Q-MSSNR/L12	30	20	180	34	18	17	15°	SN. . 1204. .	MY0515-A	MS1204	MX0611	ML0516	L2. 5
A25R-MSSNR/L12	35	25	200	43	23	19. 5	12°	SN. . 1204. .	MY061910	MS1204	MX0613	ML0620	L2. 5, L3



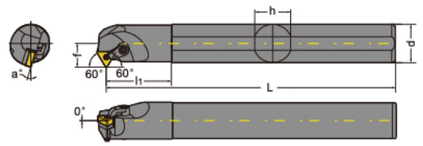




Lead Angle:91°

Holder Model	Dimension							Inserts	Plate	Insert Pad	Middle Screw	Plate Screw	Wrench
	Dmin	ϕd	L	l1	h	f	a°						
S16N-MTFNR/L16	22	16	160	27	15	11	17°	TN. . 1604. .	MY0515-A	MT1603	MX0510	ML0516	L2, L2. 5
S20Q-MTFNR/L16	25	20	180	34	18	13	15°	TN. . 1604. .	MY0515	MT1603	MX0510	ML0520	L2, L2. 5
S25R-MTFNR/L16	32	25	200	43	23	16. 5	12°	TN. . 1604. .	MY061910	MT1603	MX0510	ML0620	L2, L3
S32S-MTFNR/L16	41	32	250	54	30	22. 5	17°	TN. . 1604. .	MY0619	MT1603	MX0513	ML0625	L2, L3
H20Q-MTFNR/L16	25	20	180	34	18	13	15°	TN. . 1604. .	MY0515-A	MT1603	MX0510	ML0520	L2, L2. 5
H25R-MTFNR/L16	32	25	200	43	23	16. 5	12°	TN. . 1604. .	MY0515	MT1603	MX0510	ML0620	L2, L3
H32S-MTFNR/L16	40	32	250	54	30	22. 5	17°	TN. . 1604. .	MY061910	MT1603	MX0513	ML0625	L2, L3



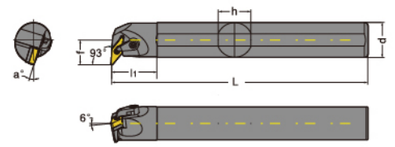




Lead Angle:60°

Holder Model	Dimension							Inserts	Plate	Insert Pad	Middle Screw	Plate Screw	Wrench
	Dmin	ϕd	L	l1	h	f	a°						
S16N-MTWNR/L16	23	16	160	27	15	12	17°	TN. . 1604. .	MY0515-A	MT1603	MX0510	ML0516	L2. L2. 5
S20Q-MTWNR/L16	27	20	180	34	18	14	15°	TN. . 1604. .	MY061910	MT1603	MX0510	ML0620	L2. L2. 5
S25R-MTWNR/L16	32	25	200	43	23	16. 5	12°	TN. . 1604. .	MY061910	MT1603	MX0510	ML0620	L2. L2. 5
S32S-MTWNR/L16	39	32	250	54	30	20	17°	TN. . 1604. .	MY0515	MT1603	MX0510	ML0520	L2, L3
H20Q-MTWNR/L16	27	20	180	34	18	14	15°	TN. . 1604. .	MY0515	MT1603	MX0510	ML0520	L2. L2. 5
H25R-MTWNR/L16	32	25	200	43	23	16. 5	12°	TN. . 1604. .	MY061910	MT1603	MX0510	ML0620	L2, L3
A16N-MTWNR/L16	23	16	160	27	15	12	17°	TN. . 1604. .	MY0515-A	MT1603	MX0510	ML0516	L2. L2. 5
A20Q-MTWNR/L16	27	20	180	34	18	14	15°	TN. . 1604. .	MY061910	MT1603	MX0510	ML0620	L2, L3
A25R-MTWNR/L16	32	25	200	43	23	16. 5	12°	TN. . 1604. .	MY061910	MT1603	MX0510	ML0620	L2, L3



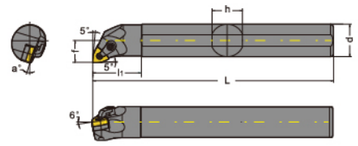


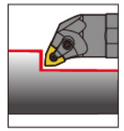


Lead Angle:93°

Holder Model	Dimension							Inserts	Plate	Insert Pad	Middle Screw	Plate Screw	Wrench
	Dmin	ϕd	L	l1	h	f	a°						
S25R-MVUNR/L16	32	25	200	43	23	17	12°	VN. . 1604. .	MY0621	MV1603	MX0510	ML0625	L2, L3
S32S-MVUNR/L16	42	32	250	54	30	23	17°	VN. . 1604. .	MY0621	MV1603	MX0510	ML0625	L2, L3
H25R-MVUNR/L16	32	25	200	43	23	17	12°	VN. . 1604. .	MY0621	MV1603	MX0510	ML0625	L2, L3
H32S-MVUNR/L16	42	32	250	54	30	23	17°	VN. . 1604. .	MY0621	MV1603	MX0513	ML0625	L2, L3
A25R-MVUNR/L16	32	25	200	43	23	17	12°	VN. . 1604. .	MY0621	MV1603	MX0510	ML0625	L2, L3
A32S-MVUNR/L16	42	32	250	54	30	23	17°	VN. . 1604. .	MY0621	MV1603	MX0513	ML0625	L2, L3

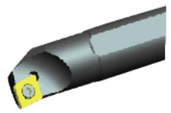


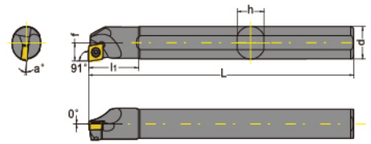




Lead Angle:95°

Holder Model	Dimension							Inserts	Plate	Insert Pad	Middle Screw	Plate Screw	Wrench
	Dmin	ϕd	L	l1	h	f	a°						
S16N-MWLNR/L06	22	16	160	27	15	11	17°	WN. . 0604. .	MY0515	MW0604	MX0510	ML0516	L2 , L2. 5
S20Q-MWLNR/L06	25	20	180	34	18	13	15°	WN. . 0604. .	MY0515	MW0604	MX0510	ML0520	L2 , L2. 5
S25R-MWLNR/L06	32	25	200	43	23	16. 5	12°	WN. . 0604. .	MY0515	MW0604	MX0510	ML0520	L2 , L2. 5
S16N-MWLNR/L08	22	16	160	27	15	11	15°	WN. . 0804. .	MY0515	MW0804	MX0611	ML0516	L2. 5
S20Q-MWLNR/L08	25	20	180	34	18	13	15°	WN. . 0804. .	MY0515	MW0804	MX0611	ML0520	
S25R-MWLNR/L08	32	25	200	43	23	16. 5	12°	WN. . 0804. .	MY061910	MW0804	MX0613	ML0620	L2. 5 L3
S32S-MWLNR/L08	41	32	250	54	30	22	17°	WN. . 0804. .	MY0619	MW0804	MX0613	ML0625	
S40T-MWLNR/L08	50	40	300	68	37	26	15°	WN. . 0804. .	MY0619	MW0804	MX0617	ML0625	



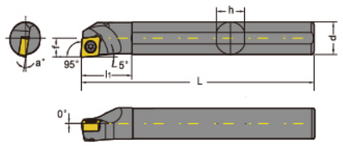




Lead Angle:91°

Holder Model	Dimension							Inserts	Screw of Inserts	Plate Screw
	Dmin	ϕd	L	l1	H	F	a°			
S10K-SCFCR/L06	12	10	125	17	9	6	12	CC. . 0602. .	SC250644	T8
S12M-SCFCR/L06	14	12	150	20	11	7	10	CC. . 0602. .	SC250644	T8
S14N-SCFCR/L06	16	14	160	24	13	8	10	CC. . 0602. .	SC250744	T8
S16N-SCFCR/L06	18	16	160	27	15	9	8	CC. . 0602. .	SC250744	T8
S16N-SCFCR/L09	18	16	160	27	15	9. 5	10	CC. . 0602. .	SC250744	T8
S20Q-SCFCR/L09	23	20	180	34	18	11. 5	8	CC. . 09T3. .	SC350860	T15
S25R-SCFCR/L09	28	25	200	43	23	14	6	CC. . 09T3. .	SC350960	T15
S20Q-SCFCR/L12	25	20	180	34	18	12	10	CC. . 09T3. .	SC350960	T15
S25R-SCFCR/L12	30	25	200	43	23	14. 5	8	CC. . 1204. .	SC061260	T20
S32S-SCFCR/L12	38	32	250	54	30	18	6	CC. . 1204. .	SC061260	T20
S40T-SCFCR/L12	48	40	300	68	37	22	4	CC. . 1204. .	SC061260	T20



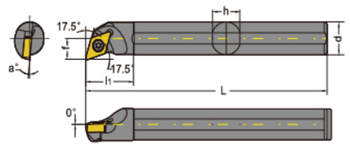




Lead Angle:95°

Holder Model	Dimension							Inserts	Screw of Inserts	Plate Screw
	Dmin	φd	L	l1	H	F	a°			
S07K-SCLCR/L06	9	8	125	12	7	4.5	15°	CC..0602..	SC250544	T8
S08K-SCLCR/L06	10	8	125	14	7	5	13°	CC..0602..	SC250544	T8
S10K-SCLCR/L06	13	10	125	17	9	6	12°	CC..0602..	SC250644	T8
S12M-SCLCR/L06	16	12	150	20	11	7	10°	CC..0602..	SC250644	T8
S14N-SCLCR/L06	18	14	160	36	15	8	12°	CC..0602..	SC250744	T8
S16N-SCLCR/L06	20	16	160	27	15	9	8°	CC..0602..	SC250744	T8
S12M-SCLCR/L09	16	12	150	20	11	9	12°	CC..09T3..	SC350850	T15
S14N-SCLCR/L09	18	14	160	24	13	9	12°	CC..09T3..	SC350850	T15
S16N-SCLCR/L09	20	16	160	27	15	9.5	10°	CC..09T3..	SC350850	T15
S20Q-SCLCR/L09	25	20	180	34	18	11.5	8°	CC..09T3..	SC350960	T15
S20R-SCLCR/L09	25	20	200	34	18	11.5	8°	CC..09T3..	SC350960	T15
S25R-SCLCR/L09	31	25	200	43	23	14	6°	CC..09T3..	SC350960	T15
S32S-SCLCR/L09	39	32	250	54	30	17.5	4°	CC..09T3..	SC350960	T15
S40T-SCLCR/L09	50	40	300	68	37	21	0°	CC..09T3..	SC350960	T15
S50U-SCLCR/L09	60	50	350	85	47	26	0°	CC..09T3..	SC350960	T15
S20Q-SCLCR/L12	25	20	180	34	18	12	10°	CC..1204..	SC501060	T20
S25R-SCLCR/L12	32	25	200	43	23	14.5	8°	CC..1204..	SC501060	T20
S32S-SCLCR/L12	39	32	250	54	30	18	6°	CC..1204..	SC501260	T20
S40T-SCLCR/L12	50	40	300	68	37	22	4°	CC..1204..	SC501260	T20
S50U-SCLCR/L12	60	50	350	85	47	26	0°	CC..1204..	SC501260	T20
H07K-SCLCR/L06	9	8	125	14	7	4.5	15°	CC..0602..	SC250544	T8
H08K-SCLCR/L06	10	8	125	16	7	5	13°	CC..0602..	SC250544	T8
H10K-SCLCR/L06	13	10	125	20	9	6	12°	CC..0602..	SC250644	T8
H12M-SCLCR/L06	16	12	150	24	11	7	10°	CC..0602..	SC250644	T8
H12M-SCLCR/L09	16	12	150	24	11	9	12°	CC..09T3..	SC350860	T15
H16N-SCLCR/L09	20	16	160	32	15	9.5	10°	CC..09T3..	SC350860	T15
C08K-SCLCR/L06	10	8	125	14	7	5	13°	CC..0602..	SC250544	T8
C10M-SCLCR/L06	13	10	150	17	9	6	12°	CC..0602..	SC250644	T8
C12Q-SCLCR/L06	16	12	180	20	11	7	10°	CC..0602..	SC250644	T8
C12Q-SCLCR/L09	16	12	180	20	11	9	12°	CC..09T3..	SC350860	T15
C16R-SCLCR/L09	20	16	200	27	15	9.5	10°	CC..09T3..	SC350860	T15
C20S-SCLCR/L09	25	20	250	34	18	11.5	8°	CC..09T3..	SC350960	T15
C20S-SCLCR/L12	25	20	250	34	18	12	10°	CC..1204..	SC501060	T20



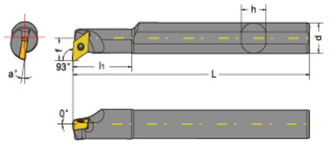


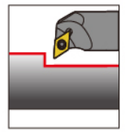


Lead Angle:107.5°

Holder Model	Dimension							Inserts	Screw of Inserts	Plate Screw
	Dmin	φd	L	l1	H	F	a°			
S10K-SDQCR/L07	13	10	125	17	9	7	10°	DC..0702..	SC250644	T8
S12M-SDQCR/L07	16	12	150	20	11	9	8°	DC..0702..	SC250644	T8
S14N-SDQCR/L07	18	14	160	24	13	9.5	6°	DC..0702..	SC250744	T8
S16N-SDQCR/L07	20	16	160	27	15	10.5	6°	DC..0702..	SC250744	T8
S20Q-SDQCR/L07	25	20	180	34	18	13	6°	DC..0702..	SC250744	T8
S14N-SDQCR/L11	18	14	160	24	13	9.5	6°	DC..11T3..	SC350860	T15
S16N-SDQCR/L11	20	16	160	27	15	10.5	8°	DC..11T3..	SC350860	T15
S20Q-SDQCR/L11	25	20	180	34	18	13	6°	DC..11T3..	SC350860	T15
S25R-SDQCR/L11	32	25	200	43	23	16	4°	DC..11T3..	SC350960	T15
S32S-SDQCR/L11	39	32	250	54	30	20	4°	DC..11T3..	SC350960	T15
S40T-SDQCR/L11	50	40	300	68	37	24	2°	DC..11T3..	SC350960	T15
H10K-SDQCR/L07	13	10	125	20	9	7	10°	DC..0702..	SC250644	T8
H12M-SDQCR/L07	16	12	150	24	11	9	8°	DC..0702..	SC250644	T8
H16N-SDQCR/L07	20	16	160	32	15	10.5	6°	DC..0702..	SC250744	T8
C10K-SDQCR/L07	13	10	150	17	9	7	10°	DC..0702..	SC250744	T8
C12M-SDQCR/L07	16	12	180	20	11	9	8°	DC..0702..	SC250644	T8
C16N-SDQCR/L07	20	16	200	27	15	10.5	6°	DC..0702..	SC250744	T8
C20Q-SDQCR/L11	25	20	250	34	19	13	6°	DC..11T3..	SC350960	T15



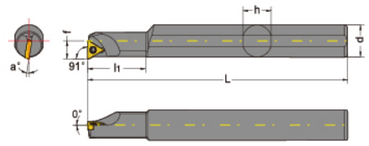


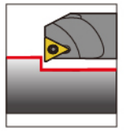


Lead Angle:107.5°

Holder Model	Dimension							Inserts	Screw of Inserts	Plate Screw
	Dmin	φd	L	l1	H	F	a°			
S10K-SDUCR/L07	15	10	125	17	9	8	10°	DC..0702..	SC250644	T8
S12M-SDUCR/L07	17	12	150	20	11	9	8°	DC..0702..	SC250644	T8
S14N-SDUCR/L07	19	14	160	24	13	10	6°	DC..0702..	SC250644	T8
S16N-SDUCR/L07	22	16	160	27	15	11	6°	DC..0702..	SC250744	T8
S20Q-SDUCR/L07	25	20	180	34	18	13	6°	DC..0702..	SC250744	T8
S16N-SDUCR/L11	22	16	160	27	15	11	8°	DC..11T3..	SC350960	T15
S20Q-SDUCR/L11	25	20	180	34	18	13	6°	DC..11T3..	SC350960	T15
S25R-SDUCR/L11	32	25	200	43	23	16	4°	DC..11T3..	SC350960	T15
S32S-SDUCR/L11	39	32	250	54	30	20	4°	DC..11T3..	SC350960	T15
S40T-SDUCR/L11	50	40	300	68	37	24	2°	DC..11T3..	SC350960	T15
S50U-SDUCR/L11	60	50	350	85	47	29	0°	DC..11T3..	SC350960	T15
H10K-SDUCR/L07	15	10	125	20	9	8	10°	DC..0702..	SC250644	T8
H12M-SDUCR/L07	17	12	150	24	11	9	8°	DC..0702..	SC250644	T8
H16N-SDUCR/L07	22	16	160	32	15	11	6°	DC..0702..	SC250744	T8
C10K-SDUCR/L07	15	10	125	17	9	8	10°	DC..0702..	SC250744	T8
C12M-SDUCR/L07	17	12	150	20	11	9	8°	DC..0702..	SC250644	T8
C16N-SDUCR/L07	22	16	160	27	15	11	6°	DC..0702..	SC250744	T8
C20Q-SDUCR/L11	25	20	180	34	18	13	6°	DC..11T3..	SC350960	T15



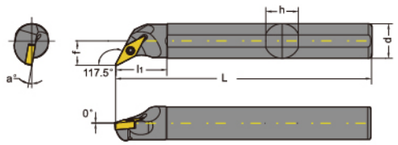




Lead Angle:91°

Holder Model	Dimension							Inserts	Screw of Inserts	Plate Screw
	Dmin	φd	L	l1	H	F	a°			
S08K-STFCR/L09	11	8	125	14	7	5.5	15°	TC..0902..	SC220656	T6
S10K-STFCR/L09	13	10	125	17	9	6	13°	TC..0902..	SC220656	T6
S12M-STFCR/L09	16	12	150	20	11	7	10°	TC..0902..	SC220656	T6
S14N-STFCR/L09	16	14	160	24	13	8	10°	TC..0902..	SC220656	T6
S10K-STFCR/L11	12	10	125	17	9	6	12°	TC..1102..	SC220644	T8
S12M-STFCR/L11	14	12	150	20	11	7	10°	TC..1102..	SC220644	T8
S14N-STFCR/L11	16	14	160	24	13	8	10°	TC..1102..	SC220644	T8
S16N-STFCR/L11	20	16	160	27	15	9	8°	TC..1102..	SC250744	T8
S20Q-STFCR/L11	25	20	180	34	18	11	6°	TC..1102..	SC250744	T8
S20Q-STFCR/L16	25	20	180	34	18	11.5	8°	TC..16T3..	SC350960	T15
S25R-STFCR/L16	31	25	200	43	23	14	6°	TC..16T3..	SC350960	T15
S32S-STFCR/L16	39	32	250	54	30	17.5	4°	TC..16T3..	SC350960	T15
S40T-STFCR/L16	50	40	300	68	37	21.5	2°	TC..16T3..	SC350960	T15
S50U-STFCR/L16	60	50	350	85	47	26.5	0°	TC..16T3..	SC350960	T15
H08K-SCLCR/L06	9	8	125	17	7	4.5	12°	TC..0601..	SC200460	T6



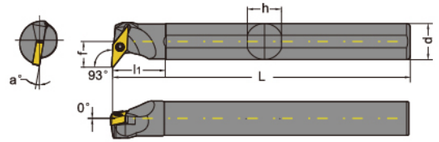




Lead Angle:117.5°

Holder Model	Dimension							Inserts	Screw of Inserts	Plate Screw
	Dmin	φd	L	l1	H	F	a°			
S16N-SVQCR/L11	22	16	160	27	15	11.5	8°	VC..1103..	SC250744	T8
S20Q-SVQCR/L11	27	20	180	34	18	14	6°	VC..1103..	SC250744	T8
S20Q-SVQCR/L16	27	20	180	34	18	14	8°	VC..1604..	SC350960	T15
S25R-SVQCR/L16	32	25	200	43	23	16.5	6°	VC..1604..	SC350960	T15
S32S-SVQCR/L16	41	32	250	54	30	22.5	8°	VC..1604..	SC350960	T15
S40T-SVQCR/L16	50	40	300	68	37	27	6°	VC..1604..	SC350960	T15
S50U-SVQCR/L16	61	50	350	85	47	32	4°	VC..1604..	SC350960	T15
H16N-SVQCR/L11	22	16	160	32	15	11.5	8°	VC..1103..	SC250744	T8



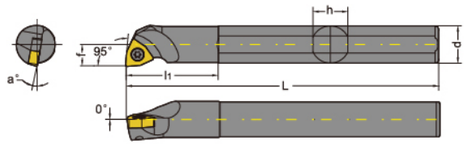


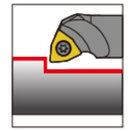


Lead Angle:93°

Holder Model	Dimension							Inserts	Screw of Inserts	Plate Screw
	Dmin	φd	L	l1	H	F	a°			
S12M-SVUCR/L08	16	12	150	20	11	11	8°	VC..0802..	SC220656	T6
S16N-SVUCR/L11	22	16	160	27	15	11.5	10°	VC..1103..	SC250744	T8
S20Q-SVUCR/L11	27	20	180	34	18	14	8°	VC..1103..	SC250744	T8
S25R-SVUCR/L11	32	25	200	43	23	17	4°	VC..1103..	SC250744	T8
S20Q-SVUCR/L16	31	20	180	34	18	19	8°	VC..1604..	SC350960	T15
S25R-SVUCR/L16	35	25	200	43	23	20	6°	VC..1604..	SC350960	T15
S32S-SVUCR/L16	42	32	250	54	30	22.5	8°	VC..1604..	SC350960	T15
S40T-SVUCR/L16	51	40	300	68	37	27	6°	VC..1604..	SC350960	T15
S50U-SVUCR/L16	60	50	350	85	47	32	4°	VC..1604..	SC350960	T15
H16N-SVUCR/L11	22	16	160	32	15	11.5	10°	VC..1103..	SC250744	T8







Lead Angle:95°

Holder Model	Dimension							Inserts	Screw of Inserts	Plate Screw
	Dmin	φd	L	l1	H	F	a°			
S08K-SWLCR/L04	10	8	125	14	7	5	13°	WC..0402..	SC250544	T8
S10K-SWLCR/L04	13	10	125	17	9	6.5	10°	WC..0402..	SC250644	T8
S12M-SWLCR/L06	16	12	150	20	11	7.5	13°	WC..06T3..		T15
S14N-SWLCR/L06	18	14	160	24	13	8.5	12°	WC..06T3..	SC350860	T15
S16N-SWLCR/L06	20	16	160	27	15	9.5	10°	WC..06T3..		T15
S20Q-SWLCR/L06	25	20	180	34	18	11.5	8°	WC..06T3..	SC350960	T15
S25R-SWLCR/L06	31	25	200	43	23	14	6°	WC..06T3..		T15
H08K-SWLCR/L04	10	8	125	16	7	5	13°	WC..0402..	SC250544	T8
H10K-SWLCR/L04	13	10	125	20	9	6.5	10°	WC..0402..	SC250644	T8
H12M-SWLCR/L06	16	12	150	24	11	7.5	13°	WC..06T3..	SC350860	T15
H14N-SWLCR/L06	18	14	160	28	13	8.5	12°	WC..06T3..	SC350860	T15
H16N-SWLCR/L06	20	16	160	32	15	9.5	10°	WC..06T3..	SC350860	T15

External Turning

Shape of Inserts	Cutting Geometry					
	Model	MCLNR/L	MCBNR/L	MCMNN	SCACR/L	SCLCR/L
	Lead Angel	95°	75°	50°	90°	95°
	Insert Model	09 12 16 19	12 16 19	12 16 19	06 09 12	06 09 12
	Page	D21	D21	D21	D26	D26

Shape of Inserts	Cutting Geometry					
	Model	MDJNR/L	MDPNN	MDQNR/L	SDJCR/L	SDNCN
	Lead Angel	93°	62.5°	107.5°	93°	62.5°
	Insert Model	11 15	11 15	11 15	07 11	07 11
	Page	D22	D22	D22	D27	D27

Shape of Inserts	Cutting Geometry						
	Model	MSBNR/L	MSKNR/L	MSSNR/L	SSBCR/L	SSKCR/L	SSSCR/L
	Lead Angel	75°	75°	45°	75°	75°	45°
	Insert Model	12 15 19	12 15 19	12 15 19	09 12	09 12	09 12
	Page	D23	D23	D23	D28	D28	D29

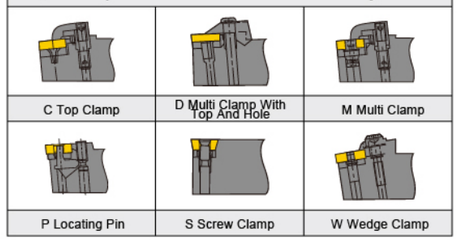
Shape of Inserts	Cutting Geometry					
	Model	MTJNR/L	MTFNR/L	MTGNR/L	STFCR/L	STGCR/L
	Lead Angel	93°	91°	91°	91°	91°
	Insert Model	16 22	16 22	16 22	09 11 16	09 11 16
	Page	D24	D24	D24	D29	D30

Shape of Inserts	Cutting Geometry					
	Model	MVQNR/L	MVVNN	SVJCR/L	SVVCN	
	Lead Angel	117.5°	72.5°	93°	72.5°	
	Insert Model	16	16	11 16	11 16	
	Page	D25	D25	D30	D31	

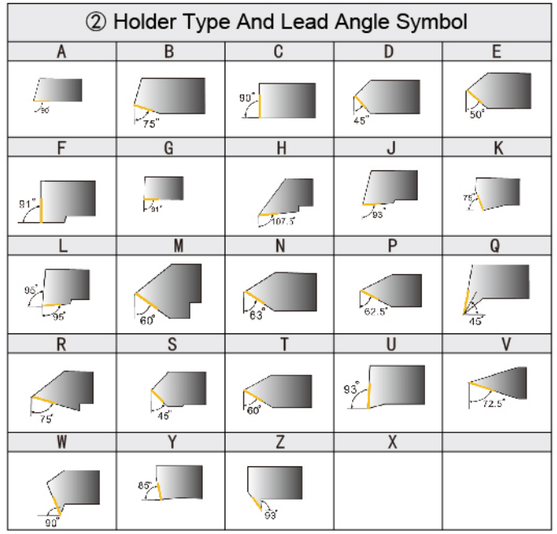
Shape of Inserts	Cutting Geometry						
	Model	MWLNR/L					
	Lead Angel	95°					
	Insert Model	06 08					
	Page	D25					

Shape of Inserts	Cutting Geometry						
	Model	SRACR/L	SRDCN/L	SRGCR/L			
	Lead Angel						
	Insert Model	08 10 12 16	08 10 12	08 10 12			
	Page	D31	D32	D32			

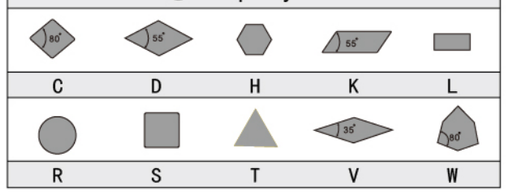
① Compression Method of Insert Symbol



② Holder Type And Lead Angle Symbol

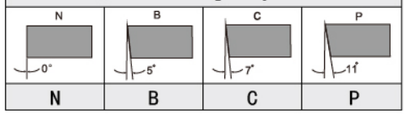


③ Shape Symbol

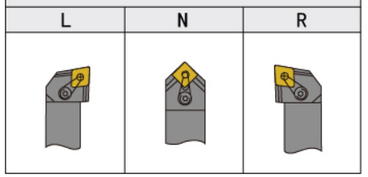


①	②	③	④	⑤	⑥	⑦	⑧	⑨
M	W	L	N	L	25	25	M	12

④ Relief Angle Symbol



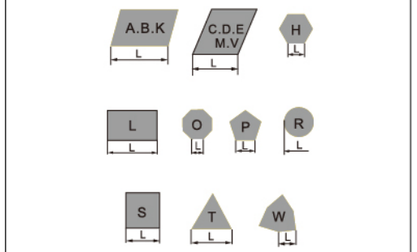
⑤ Cutting Direction Symbol



⑧ Length Symbol

A	32
B	40
C	50
D	60
E	70
F	80
G	90
H	100
K	125
M	150
P	170
R	200
S	250
T	300
U	350
V	400
W	450

⑨ Cutting Edge Length Symbol



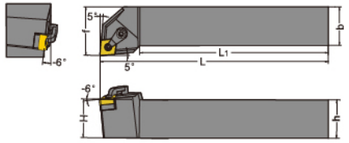
⑥ Width Symbol



⑦ Height Symbol





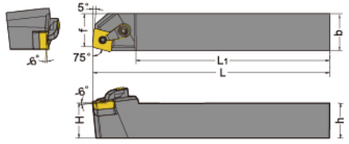




Lead Angle:95°

Holder Model		Dimension						Inserts	Plate	Insert Pad	Middle Screw	Plate Screw	Wrench
		h	b	L	L1	H	f						
MCLNR/L	2020K09	20	20	125	100	20	25	CN. . 0903. .	MY0619	MC0904	MX0513	ML0625	L2. 5, L3
	2525M09	25	25	150	120	25	32	CN. . 0903. .	MY0619	MC0904	MX0513	ML0625	L2. 5, L3
	2525M12	25	25	150	120	25	32	CN. . 1204. .	MY0619	MC1204	MX0617	ML0625	L2. 5, L3
	3232P12	32	32	170	135	32	40	CN. . 1204. .	MY0619	MC1204	MX0617	ML0625	L2. 5, L3
	2525M16	25	25	150	120	25	32	CN. . 1606. .	MY0823	MC1604	MX0822	ML0828	L3, L4
	3232P16	32	32	170	135	32	40	CN. . 1606. .	MY0823	MC1604	MX0822	ML0828	L3, L4
	3232P19	32	32	170	135	32	40	CN. . 1906. .	MY0823	MC1904	MX1022	ML0828	L4



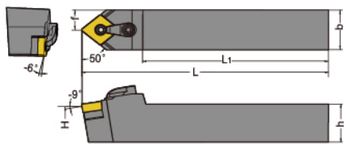




Lead Angle:75°

Holder Model		Dimension						Inserts	Plate	Insert Pad	Middle Screw	Plate Screw	Wrench
		h	b	L	L1	h1	f						
MCBNR/L	2020K12	20	20	125	100	20	17	CN. . 1204. .	MY0619	MC1204	MX0617	ML0625	L2. 5, L3
	2525M12	25	25	150	120	25	22	CN. . 1204. .	MY0619	MC1204	MX0617	ML0625	L2. 5, L3
	3232P12	32	32	170	135	32	27	CN. . 1204. .	MY0619	MC1204	MX0617	ML0625	L2. 5, L3
	2525M16	25	25	150	120	25	22	CN. . 1606. .	MY0823	MC1604	MX0822	ML0828	L3, L4
	3232P16	32	32	170	135	32	27	CN. . 1606. .	MY0823	MC1604	MX0822	ML0828	L3, L4
	3232P19	32	32	170	135	32	27	CN. . 1906. .	MY0823	MC1904	MX1022	ML0828	L4
	4040R19	40	40	200	155	40	35	CN. . 1906. .	MY0823	MC1904	MX1022	ML0828	L4



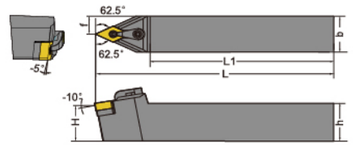


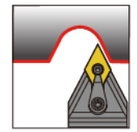


Lead Angle:45°

Holder Model		Dimension						Inserts	Plate	Insert Pad	Middle Screw	Plate Screw	Wrench
		h	b	L	L1	h1	f						
MCMNN	2020K12	20	20	125	100	20	10	CN. . 1204. .	MY0619	MC1204	MX0617	ML0625	L2. 5, L3
	2525M12	25	25	150	120	25	12. 5	CN. . 1204. .	MY0619	MC1204	MX0617	ML0625	L2. 5, L3
	3232P12	32	32	170	135	32	16	CN. . 1204. .	MY0619	MC1204	MX0617	ML0625	L2. 5, L3
	2525M16	25	25	150	120	25	13	CN. . 1606. .	MY0823	MC1604	MX0822	ML0828	L3, L4
	3232P16	32	32	170	135	32	16	CN. . 1606. .	MY0823	MC1604	MX0822	ML0828	L3, L4
	3232P19	32	32	170	135	32	16	CN. . 1906. .	MY0823	MC1904	MX1022	ML0828	L4
	4040S19	40	40	250	200	40	20	CN. . 1906. .	MY0823	MC1904	MX1022	ML0828	L4



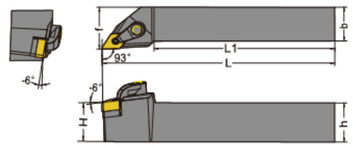




Lead Angle:62.5°

Holder Model		Dimension						Inserts	Plate	Insert Pad	Middle Screw	Plate Screw	Wrench
		h	b	L	L1	h1	f						
MDPNN	2020K11	20	20	125	100	20	10	DN. . 1104. .	MY0619	MD1103	MX0513	ML0625	L2, L3
	2525M11	25	25	150	120	25	12. 5	DN. . 1104. .	MY0619	MD1103	MX0513	ML0625	L2, L3
	2020K15	20	20	125	100	20	10	DN. . 1504. .	MY0621	MD1504	MX0619	ML0625	L2. 5, L3
	2525M15	25	25	150	120	25	13	DN. . 1506. .	MY0621	MD1506	MX0619	ML0625	L2. 5, L3
	3232P15	32	32	170	135	32	16	DN. . 1506. .	MY0621	MD1506	MX0619	ML0625	L2. 5, L3



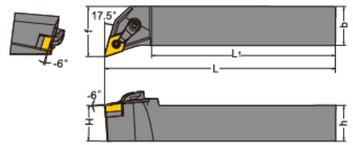




Lead Angle:93°

Holder Model		Dimension						Inserts	Plate	Insert Pad	Middle Screw	Plate Screw	Wrench
		h	b	L	L1	h1	f						
MDJNR/L	2020K11	20	20	125	100	20	25	DN. . 1104. .	MY0619	MD1103	MX0513	ML0625	L2, L3
	2525M11	25	25	150	120	25	32	DN. . 1104. .	MY0619	MD1103	MX0513	ML0625	L2, L3
	2020K15	20	20	125	100	20	25	DN. . 1504. .	MY0621	MD1504	MX0619	ML0625	L2. 5, L3
	2525M15	25	25	150	120	25	32	DN. . 1506. .	MY0621	MD1506	MX0619	ML0625	L2. 5, L3
	3232P15	32	32	170	135	32	40	DN. . 1506. .	MY0621	MD1506	MX0619	ML0625	L2. 5, L3

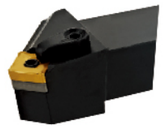


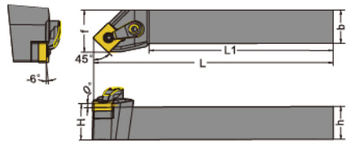




Lead Angle:107.5°

Holder Model		Dimension						Inserts	Plate	Insert Pad	Middle Screw	Plate Screw	Wrench
		h	b	L	L1	h1	f						
MDQNR/L	2020K11	20	20	125	100	20	25	DN. . 1104. .	MY0619	MD1103	MX0513	ML0625	L2, L3
	2525M11	25	25	150	120	25	32	DN. . 1104. .	MY0619	MD1103	MX0513	ML0625	L2, L3
	2020K15	20	20	125	100	20	25	DN. . 1504. .	MY0621	MD1504	MX0619	ML0625	L2. 5, L3
	2525M15	25	25	150	120	25	32	DN. . 1506. .	MY0621	MD1506	MX0619	ML0625	L2. 5, L3
	3232P15	32	32	170	135	32	40	DN. . 1506. .	MY0621	MD1506	MX0619	ML0625	L2. 5, L3



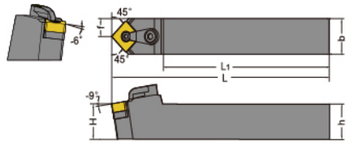




Lead Angle:45°

Holder Model		Dimension						Inserts	Plate	Insert Pad	Middle Screw	Plate Screw	Wrench
		h	b	L	L1	h1	f						
MSSNR/L	2020K12	20	20	125	100	20	25	SN. . 1204. .	MY0619	MS1204	MX0617	ML0625	L2. 5, L3
	2525M12	25	25	150	120	25	32	SN. . 1204. .	MY0619	MS1204	MX0617	ML0625	L2. 5, L3
	3232P12	32	32	170	135	32	40	SN. . 1204. .	MY0619	MS1204	MX0617	ML0625	L2. 5, L3
	2525M15	25	25	150	120	25	32	SN. . 1506. .	MY0823	MS1504	MX0822	ML0828	L3, L4
	3232P15	32	32	170	135	32	40	SN. . 1506. .	MY0823	MS1504	MX0822	ML0828	L3, L4
	3232P19	32	32	170	135	32	40	SN. . 1906. .	MY0823	MS1904	MX1022	ML0828	L4
	4040R19	40	40	250	200	40	50	SN. . 1906. .	MY0823	MS1904	MX1022	ML0828	L4



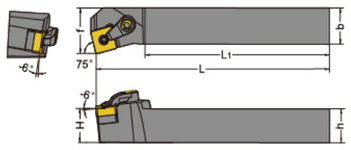


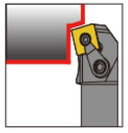


Lead Angle:45°

Holder Model		Dimension						Inserts	Plate	Insert Pad	Middle Screw	Plate Screw	Wrench
		h	b	L	L1	h1	f						
MSDNN	2020K12	20	20	125	100	20	10	SN. . 1204. .	MY0619	MS1204	MX0617	ML0625	L2. 5, L3
	2525M12	25	25	150	120	25	12. 5	SN. . 1204. .	MY0619	MS1204	MX0617	ML0625	L2. 5, L3
	3232P12	32	32	170	135	32	16	SN. . 1204. .	MY0619	MS1204	MX0617	ML0625	L2. 5, L3
	2525M15	25	25	150	120	25	12. 5	SN. . 1506. .	MY0823	MS1504	MX0822	ML0828	L3, L4
	3232P15	32	32	170	135	32	16	SN. . 1506. .	MY0823	MS1504	MX0822	ML0828	L3, L4
	3232P19	32	32	170	135	32	16	SN. . 1906. .	MY0823	MS1904	MX1022	ML0828	L4
	4040R19	40	40	250	200	40	20	SN. . 1906. .	MY0823	MS1904	MX1022	ML0828	L4



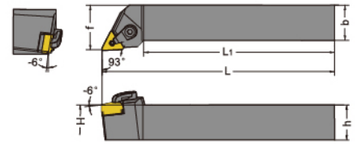




Lead Angle:75°

Holder Model		Dimension						Inserts	Plate	Insert Pad	Middle Screw	Plate Screw	Wrench
		h	b	L	L1	h1	f						
MSKNR/L	2020K12	20	20	125	100	20	25	SN. . 1204. .	MY0619	MS1204	MX0617	ML0625	L2. 5, L3
	2525M12	25	25	150	120	25	32	SN. . 1204. .	MY0619	MS1204	MX0617	ML0625	L2. 5, L3
	3232P12	32	32	170	135	32	40	SN. . 1204. .	MY0619	MS1204	MX0617	ML0625	L2. 5, L3
	2525M15	25	25	150	120	25	32	SN. . 1506. .	MY0823	MS1504	MX0822	ML0828	L3, L4
	3232P15	32	32	170	135	32	40	SN. . 1506. .	MY0823	MS1504	MX0822	ML0828	L3, L4
	3232P19	32	32	170	135	32	40	SN. . 1906. .	MY0823	MS1904	MX1022	ML0828	L4
	4040R19	40	40	250	200	40	50	SN. . 1906. .	MY0823	MS1904	MX1022	ML0828	L4



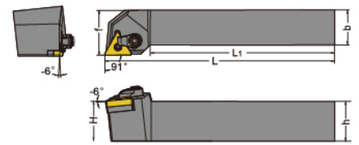




Lead Angle:93°

Holder Model		Dimension						Inserts	Plate	Insert Pad	Middle Screw	Plate Screw	Wrench
		h	b	L	L1	h1	f						
MTJNR/L	2020K16	20	20	125	100	20	10	TN. . 1604. .	MY0619	MT1603	MX0513	ML0625	L2, L3
	2525M16	25	25	150	120	25	12. 5	TN. . 1604. .	MY0619	MT1603	MX0513	ML0625	L2, L3
	3232P16	32	32	170	135	32	16	TN. . 1604. .	MY0619	MT1603	MX0513	ML0625	L2, L3
	2525M22	25	25	150	120	25	12. 5	TN. . 2204. .	MY0819	MT2204	MX0617	ML0828	L2. 5, L4
	3232P22	32	32	170	135	32	16	TN. . 2204. .	MY0819	MT2204	MX0617	ML0828	L2. 5, L4



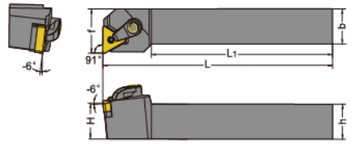


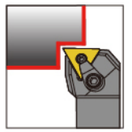


Lead Angle:91°

Holder Model		Dimension						Inserts	Plate	Insert Pad	Middle Screw	Plate Screw	Wrench
		h	b	L	L1	h1	f						
MTGNR/L	2020K16	20	20	125	100	20	25	TN. . 1604. .	MY0513	MT1603	MX0513	ML0625	L2, L3
	2525M16	25	25	150	120	25	32	TN. . 1604. .	MY0513	MT1603	MX0513	ML0625	L2, L3
	3232P16	32	32	170	135	32	37	TN. . 1604. .	MY0513	MT1603	MX0513	ML0625	L2, L3
	3232P22	32	32	170	135	32	40	TN. . 2204. .	MY0819	MT2204	MX0617	ML0828	L2. 5, L4



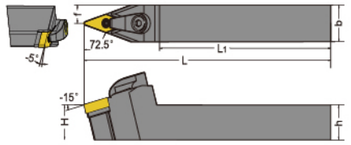




Lead Angle:91°

Holder Model		Dimension						Inserts	Plate	Insert Pad	Middle Screw	Plate Screw	Wrench
		h	b	L	L1	h1	f						
MTFNR/L	2020K16	20	20	125	100	20	25	TN. . 1604. .	MY0619	MT1603	MX0513	ML0625	L2, L3
	2525M16	25	25	150	120	25	32	TN. . 1604. .	MY0619	MT1603	MX0513	ML0625	L2, L3
	3232P16	32	32	170	135	32	40	TN. . 1604. .	MY0619	MT1603	MX0513	ML0625	L2, L3
	2525M22	25	25	150	120	25	32	TN. . 2204. .	MY0819	MT2204	MX0617	ML0828	L2. 5, L4
	3225P22	32	25	170	135	32	32	TN. . 2204. .	MY0819	MT2204	MX0617	ML0828	L2. 5, L4
	3232P22	32	32	170	135	32	40	TN. . 2204. .	MY0819	MT2204	MX0617	ML0828	L2. 5, L4
	4040S22	40	40	250	200	40	50	TN. . 2204. .	MY0819	MT2204	MX0617	ML0828	L2. 5, L4



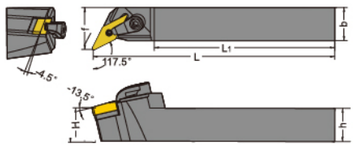




Lead Angle:72.5°

Holder Model		Dimension						Inserts	Plate	Insert Pad	Middle Screw	Plate Screw	Wrench
		h	b	L	L1	h1	f						
MVVNN	2020K16	20	20	125	100	20	10	VN. . 1604. .	MY0826	MV1603	MX0513	ML0828	L2, L4
	2525M16	25	25	150	120	25	12. 5	VN. . 1604. .	MY0826	MV1603	MX0513	ML0828	L2, L4
	3232P16	32	32	170	135	32	16	VN. . 1604. .	MY0826	MV1603	MX0513	ML0828	L2, L4



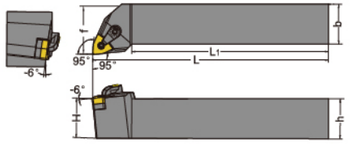


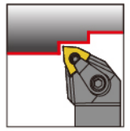


Lead Angle:117.5°

Holder Model		Dimension						Inserts	Plate	Insert Pad	Middle Screw	Plate Screw	Wrench
		h	b	L	L1	h1	f						
MVQNR/L	2020K16	20	20	125	100	20	25	VN. . 1604. .	MY0621	MV1603	MX0513	ML0625	L2, L3
	2525M16	25	25	150	120	25	32	VN. . 1604. .	MY0621	MV1603	MX0513	ML0625	L2, L3
	3232P16	32	32	170	135	32	40	VN. . 1604. .	MY0826	MV1603	MX0513	ML0828	L2, L4



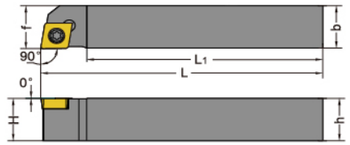


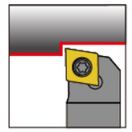


Lead Angle:95°

Holder Model		Dimension						Inserts	Plate	Insert Pad	Middle Screw	Plate Screw	Wrench
		h	b	L	L1	h1	f						
MWLNR/L	2020K08	20	20	125	100	20	25	WN. . 0604. .	MY0619	MW0603	MX0513	ML0625	L2, L3
	2525M08	25	25	150	120	25	32	WN. . 0604. .	MY0619	MW0603	MX0513	ML0625	L2, L3
	2020K08	20	20	125	100	20	25	WN. . 0804. .	MY0619	MW0804	MX0617	ML0625	L2. 5, L3
	2525M08	25	25	150	120	25	32	WN. . 0804. .	MY0619	MW0804	MX0617	ML0625	L2. 5, L3
	3232P08	32	32	170	135	32	40	WN. . 0804. .	MY0619	MW0804	MX0617	ML0625	L2. 5, L3

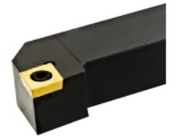


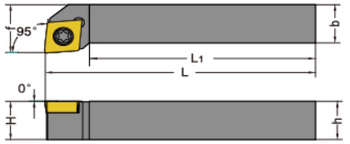


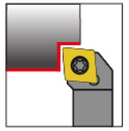


Lead Angle:90°

Holder Model		Dimension						Inserts	Screw of Inserts	Plate Screw
		h	b	L	L1	H	f			
SCACR/L	1212F06	12	12	80	68	12	12	CC. . 0602. .	SC250744	T8
	1212H06	12	12	100	80	12	12	CC. . 0602. .	SC250744	T8
	1212F09	12	12	80	68	12	12	CC. . 09T3. .	SC350960	T15
	1212H09	12	12	100	80	12	12	CC. . 09T3. .	SC350960	T15
	1616H09	16	16	100	80	16	16	CC. . 09T3. .	SC350960	T15
	2020K09	20	20	125	100	20	20	CC. . 09T3. .	SC350960	T15
	2525M09	15	15	150	120	15	15	CC. . 09T3. .	SC350960	T15
	1616H12	16	16	100	80	16	16	CC. . 1204	SC501260	T20
	2020K12	20	20	125	100	20	20	CC. . 1204	SC501260	T20
	2525M12	25	25	150	120	25	25	CC. . 1204	SC501260	T20



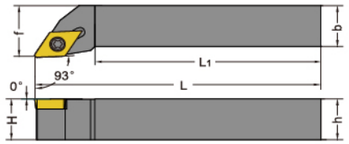


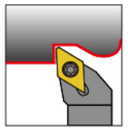


Lead Angle:95°

Holder Model		Dimension						Inserts	Screw of Inserts	Plate Screw
		h	b	L	L1	H	f			
SCLCR/L	1212F06	12	12	80	68	12	16	CC. . 0602. .	SC250744	T8
	1212H06	12	12	100	80	12	16	CC. . 0602. .	SC250744	T8
	1616H06	16	16	100	80	16	20	CC. . 0602. .	SC250744	T8
	2020K06	20	20	125	100	20	25	CC. . 0602. .	SC250744	T8
	1212F09	12	12	80	68	12	16	CC. . 09T3. .	SC350960	T15
	1212H09	12	12	100	80	12	16	CC. . 09T3. .	SC350960	T15
	1616H09	16	16	100	80	16	20	CC. . 09T3. .	SC350960	T15
	2020K09	20	20	125	100	20	25	CC. . 09T3. .	SC350960	T15
	2525M09	25	25	150	120	25	32	CC. . 09T3. .	SC350960	T15
	3232P09	32	32	170	135	32	40	CC. . 09T3. .	SC350960	T15
	1616H12	16	16	100	80	16	20	CC. . 1204. .	SC501260	T20
	2020K12	20	20	125	100	20	25	CC. . 1204. .	SC501260	T20
	2525M12	25	25	150	120	25	32	CC. . 1204. .	SC501260	T20
	3232P12	32	32	170	135	32	40	CC. . 1204. .	SC501260	T20

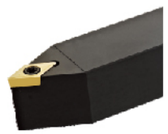


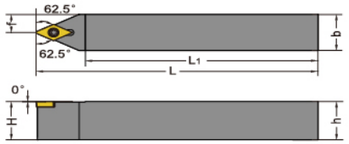


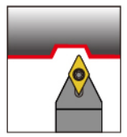


Lead Angle:93°

Holder Model		Dimension						Inserts	Screw of Inserts	Plate Screw
		h	b	L	L1	H	f			
SDJCR/L	1010E07	10	10	60	52	10	12	DC. . 0702. .	SC250744	T8
	1010F07	10	10	80	68	10	12	DC. . 0702. .	SC250744	T8
	1212F07	12	12	70	62	12	16	DC. . 0702. .	SC250744	T8
	1212H07	12	12	80	68	12	16	DC. . 0702. .	SC250744	T8
	1616K07	16	16	80	68	16	20	DC. . 0702. .	SC250744	T8
	2020K07	20	20	100	80	20	25	DC. . 0702. .	SC250744	T8
	1212F11	12	12	125	100	12	16	DC. . 11T3. .	SC350960	T15
	1616H11	16	16	80	68	16	20	DC. . 11T3. .	SC350960	T15
	2020K11	20	20	100	60	20	25	DC. . 11T3. .	SC350960	T15
	2525M11	25	25	100	80	25	32	DC. . 11T3. .	SC350960	T15
	3232P11	32	32	125	100	32	40	DC. . 11T3. .	SC350960	T15



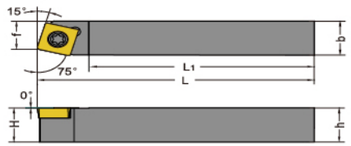


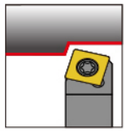


Lead Angle:62.5°

Holder Model		Dimension						Inserts	Screw of Inserts	Plate Screw
		h	b	L	L1	H	f			
SDNCN	1212F07	12	12	80	68	12	6	DC. . 0702. .	SC250744	T8
	1212H07	12	12	100	80	12	6	DC. . 0702. .	SC250744	T8
	1616H07	16	16	125	100	16	8	DC. . 0702. .	SC250744	T8
	1212F11	12	12	80	68	12	6	DC. . 11T3. .	SC350960	T15
	1212H11	12	12	100	60	12	6	DC. . 11T3. .	SC350960	T15
	1616H11	16	16	100	80	16	8	DC. . 11T3. .	SC350960	T15
	2020K11	20	20	125	100	20	10	DC. . 11T3. .	SC350960	T15
	2525M11	25	25	150	120	25	12. 5	DC. . 11T3. .	SC350960	T15
	3232P11	32	32	150	120	32	16	DC. . 11T3. .	SC350960	T15



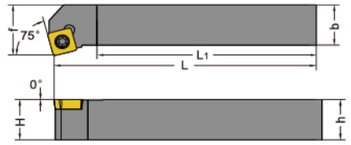


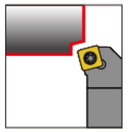


Lead Angle:75°

Holder Model		Dimension						Inserts	Screw of Inserts	Plate Screw
		h	b	L	L1	H	f			
SSBCR/L	1212F09	12	12	60	68	12	9. 5	SC. . 09T3. .	SC350960	T15
	1212H09	12	12	100	80	12	9. 5	SC. . 09T3. .	SC350960	T15
	1616H09	16	16	100	80	16	13	SC. . 09T3. .	SC350960	T15
	2020K09	20	20	125	100	20	17	SC. . 09T3. .	SC350960	T15
	1616H12	16	16	100	80	16	13	SC. . 1204. .	SC501260	T20
	2020K12	20	20	125	100	20	17	SC. . 1204. .	SC501260	T20
	2525M12	25	25	150	120	25	22	SC. . 1204. .	SC501260	T20



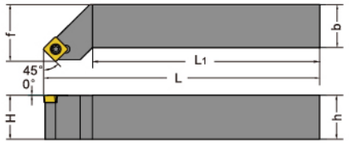


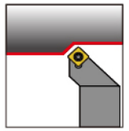


Lead Angle:75°

Holder Model		Dimension						Inserts	Screw of Inserts	Plate Screw
		h	b	L	L1	H	f			
SSKCR/L	1212F09	12	12	80	68	12	16	SC. . 09T3. .	SC350960	T15
	1212H09	12	12	100	80	12	16	SC. . 09T3. .	SC350960	T15
	1616H09	16	16	100	80	16	20	SC. . 09T3. .	SC350960	T15
	2020K09	20	20	125	100	20	25	SC. . 09T3. .	SC350960	T15
	2525M09	25	25	150	120	25	32	SC. . 09T3. .	SC350960	T15
	2020K12	20	20	125	100	20	25	SC. . 1204. .	SC501260	T20
	2525M12	25	25	150	120	25	32	SC. . 1204. .	SC501260	T20
	3232P12	32	32	170	135	32	40	SC. . 1204. .	SC501260	T20



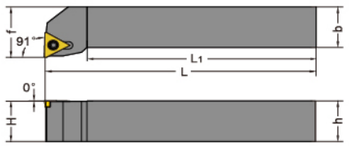


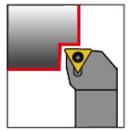


Lead Angle:45°

Holder Model		Dimension						Inserts	Screw of Inserts	Plate Screw
		h	b	L	L1	H	f			
SSSCR/L	1212F09	12	12	80	68	12	16	SC. . 09T3. .	SC350960	T15
	1212H09	12	12	100	80	12	16	SC. . 09T3. .	SC350960	T15
	1616H09	16	16	100	80	16	20	SC. . 09T3. .	SC350960	T15
	2020K09	20	20	125	100	20	25	SC. . 09T3. .	SC350960	T15
	2525M09	25	25	150	120	25	32	SC. . 09T3. .	SC350960	T15
	2020K12	20	20	125	100	20	25	SC. . 1204. .	SC501260	T20
	2525M12	25	25	150	120	25	32	SC. . 1204. .	SC501260	T20
	3232P12	32	32	170	135	32	40	SC. . 1204. .	SC501260	T20



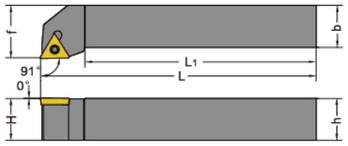


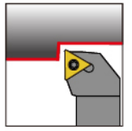


Lead Angle:91°

Holder Model		Dimension						Inserts	Screw of Inserts	Plate Screw
		h	b	L	L1	H	f			
STFCR/L	1212F09	12	12	80	68	12	16	TC. . 0902. .	SC220756	T6
	1212F11	12	12	80	68	12	16	TC. . 1102. .	SC250744	T8
	1212H11	12	12	100	80	12	16	TC. . 1102. .	SC250744	T8
	1616H11	16	16	100	80	16	20	TC. . 1102. .	SC250744	T8
	1616H16	16	16	100	80	16	20			
	2020K16	20	20	125	100	20	25	TC. . 16T3. .	SC350960	T15
	2525M16	25	25	150	120	25	32	TC. . 16T3. .	SC350960	T15
	3232P16	32	32	170	135	32	40	TC. . 16T3. .	SC350960	T15



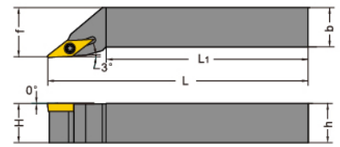


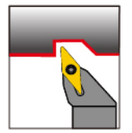


Lead Angle:91°

Holder Model		Dimension						Inserts	Screw of Inserts	Plate Screw
		h	b	L	L1	H	f			
STGCR/L	1212F09	12	12	80	68	12	16	TC. . 0902. .	SC220756	T6
	1212H09	12	12	100	80	12	16	TC. . 0902. .	SC220756	T6
	1212F11	12	12	80	68	12	16	TC. . 1102. .	SC250744	T8
	1212H11	12	12	100	80	12	16	TC. . 1102. .	SC250744	T8
	2020K11	20	20	125	100	20	25	TC. . 1102. .	SC250744	T8
	1616H11	16	16	100	80	16	20	TC. . 1102. .	SC250744	T8
	1616H16	16	16	100	80	16	20	TC. . 16T3. .	SC350960	T15
	2020K16	20	20	125	100	20	25	TC. . 16T3. .	SC350960	T15
	2525M16	25	25	150	120	25	32	TC. . 16T3. .	SC350960	T15
	3232P16	32	32	170	138	32	40	TC. . 16T3. .	SC350960	T15



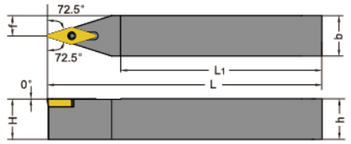




Lead Angle:93°

Holder Model		Dimension						Inserts	Screw of Inserts	Plate Screw
		h	b	L	L1	H	f			
SVJCR/L	1212F11	12	12	80	68	12	16	VC. . 1103. .	SC250744	T8
	1212H11	12	12	100	80	12	16	VC. . 1103. .	SC250744	T8
	1616H11	16	16	100	80	16	20	VC. . 1103. .	SC250744	T8
	2020K11	20	20	125	100	20	26	VC. . 1103. .	SC250744	T8
	2525M11	25	25	150	120	25	32	VC. . 1103. .	SC250744	T8
	1616H16	16	16	100	80	16	20	VC. . 1604. .	SC350960	T15
	2020K16	20	20	125	100	20	25	VC. . 1604. .	SC350960	T15
	2525M16	25	25	150	120	25	32	VC. . 1604. .	SC350960	T15
	3232P16	32	32	170	135	32	40	VC. . 1604. .	SC350960	T15



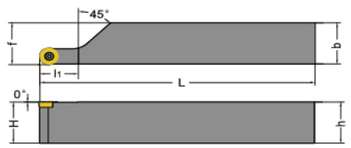


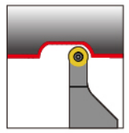


Lead Angle:72.5°

Holder Model		Dimension						Inserts	Screw of Inserts	Plate Screw
		h	b	L	L1	H	f			
SVVCN	1212F11	12	12	80	68	12	6	VC. . 1103. .	SC250744	T8
	1212H11	12	12	100	80	12	6	VC. . 1103. .	SC250744	T8
	1616H11	16	16	100	80	16	8	VC. . 1103. .	SC250744	T8
	2020K11	20	20	125	100	20	10	VC. . 1103. .	SC250744	T8
	2525M11	25	25	150	120	25	12. 5	VC. . 1103. .	SC250744	T8
	1616H16	16	16	100	80	16	8	VC. . 1604. .	SC350960	T15
	2020K16	20	20	125	100	20	10	VC. . 1604. .	SC350960	T15
	2525M16	25	25	150	120	25	12. 5	VC. . 1604. .	SC350960	T15
	3232P16	32	32	170	135	32	16	VC. . 1604. .	SC350960	T15

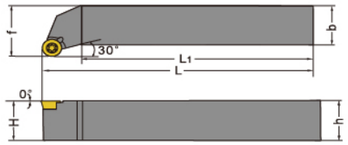


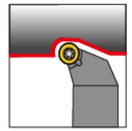




Holder Model		Dimension						Inserts	Screw of Inserts	Plate Screw
		h	b	L	L1	H	f			
SRACR/L	1616H08	16	16	100	16	16	16. 5	RC. . 0802. .	SC300760	T8
	2020K08	20	20	125	16	20	20. 5	RC. . 0802. .	SC300760	T8
	2525M08	25	25	150	16	25	25. 5	RC. . 0802. .	SC300760	T8
	3232P08	32	32	170	16	32	32. 5	RC. . 0802. .	SC300760	T8
	2020K10	20	20	125	20. 3	20	20. 4	RC. . 1003. .	SC350960	T15
	2525M10	25	25	150	20. 3	25	25. 4	RC. . 1003. .	SC350960	T15
	3232P10	32	32	170	20. 3	32	32. 4	RC. . 1003. .	SC350960	T15
	2020K12	20	20	125	20. 3	20	20. 5	RC. . 1204. .	SC350960	T20
	2525M12	25	25	150	20. 3	25	25. 4	RC. . 1204. .	SC350960	T20
	3232P12	32	32	170	20. 3	32	32. 5	RC. . 1204. .	SC350960	T20
	2525M16	25	25	150	25	25	25. 5	RC. . 1604. .	SC400960	T20
	3232P16	32	32	170	25	32	32. 5	RC. . 1604. .	SC400960	T20
	3232P20	32	32	170	30	32	32. 5	RC. . 2006. .	SC400960	T20







Holder Model		Dimension						Inserts	Screw of Inserts	Plate Screw
		h	b	L	L1	H	f			
SRGCR/L	1616H08	16	16	100	80	16	20	RC. . 0802. .	SC300760	T8
	2020K08	20	20	125	100	20	25	RC. . 0802. .	SC300760	T8
	2525M08	25	25	150	120	25	32	RC. . 0802. .	SC300760	T8
	2020K10	20	20	125	100	20	25	RC. . 1003. .	SC350960	T15
	2525M10	25	25	150	120	25	32	RC. . 1003. .	SC350960	T15
	2020K12	20	20	125	100	20	25	RC. . 1204. .	SC350960	T20
	2525M12	25	25	150	120	25	32	RC. . 1204. .	SC350960	T20
	3232P12	32	32	170	135	32	40	RC. . 1204. .	SC350960	T20







Holder Model		Dimension						Inserts	Screw of Inserts	Plate Screw
		h	b	L	L1	H	f			
SRDCN/L	1212F08	12	12	80	16	12	6	RC. . 0802. .	SC300760	T8
	1212H08	12	12	100	16	12	6	RC. . 0802. .	SC300760	T8
	1616H08	16	16	100	16	16	8	RC. . 0802. .	SC300760	T8
	2020K08	20	20	125	16	20	10	RC. . 0802. .	SC300760	T8
	2525M08	25	25	150	16	25	12. 5	RC. . 0802. .	SC300760	T8
	1010 E10	10	10	70	20. 3	10	5	RC. . 1003. .	SC350960	T15
	1010F10	10	10	80	20. 3	10	5	RC. . 1003. .	SC350960	T15
	1212F10	12	12	80	20. 3	12	6	RC. . 1003. .	SC350960	T15
	1212H10	12	12	100	20. 3	12	6	RC. . 1003. .	SC350960	T15
	1616H10	16	16	100	20. 3	16	8	RC. . 1003. .	SC350960	T15
	2020K10	20	20	125	20. 3	20	10	RC. . 1003. .	SC350960	T15
	2525M10	25	25	150	20. 3	25	12. 5	RC. . 1003. .	SC350960	T15
	1212H12	12	12	100	25	12	6	RC. . 1204. .	SC350960	T20
	1616H12	16	16	100	25	16	8	RC. . 1204. .	SC350960	T20
	2020K12	20	20	125	25	20	10	RC. . 1204. .	SC350960	T20
	2525M12	25	25	150	25	25	12. 5	RC. . 1204. .	SC350960	T20
	3232P12	32	32	170	25	32	16	RC. . 1204. .	SC350960	T20

Milling Grade Comparison

Milling grades												
ISO class	Bassett	Taegu Tec	Sandvik	Walter	Seco	Kennametal	Mitsubishi	Sumitomo	Tungaloy	Kyocera	Korloy	Iscar
P			GC1010 GC1030	WHH15 WXM15	MH1000 F15M MP1500 F30M	KC510M KC522M KC635M	MP8010 VP15TF					IC903 IC900
		TT2510 TT7080 TT7030	GC4220 GC4230	WKP25 WAM10 WAM20	MP1500 MP2500 T250M T25M			ACP100	T3130 AH330		PC210F	
	TE1008 TE1009 TE1028	TT9080 TT9030	GC1030 GC4240	WAM30	F25M F30M MP3000	KC522M KC635M	VP15TF VP20RT UP20M	ACP200	AH725 AH730 GH330 AH120	PR830 PR1225 PR1230 PR9925	PC3500 PC5300	IC808 IC908
	TE1308 TE5508	TT8080 TT8020 TT7800	GC4240 GC1040	WKP35 WXP45 WSP45	F40M T350M	KC725M KC735M KC935M KCPM20	V030RT FH7020 F7030	ACP300 ACZ350	AH140 T3130 AH130 AH3035 AH9030	RP1525	PC5400 PC3545	IC830 IC330 IC928
M	TE1008 TE1028	TT9080 TT9030	GC1030 GC2030 S30T GC1025	WAM30 WXM35	MS2050 MP2500 F25M F30M	KC635M	VP15TF VP20RT UP20M	ACP100 ACP200 ACP300	T3130 AH725 AH120 AH4035	PR830 PR1210 PR1025 PR1225 PR905	PC5300 PC9530	IC808 IC908
	TE5508	TT8080 TT8020	GC2040 S40T	WXM35 WSM35 WSP45	F40M MS2500 MM4500	KC725M	F7030 MP7030 VP30RT MP9130	ACM100 ACM200 ACM300	AH130 AH140 SH730 AH3035	PR1225 PR905	PC5300 PC5400	IC830 IC330 IC928
S	TE1008 TE1028	TT9080 TT9030	GC1030 GC2030 S30T GC1025	WAM30 WXM35	MS2050 MP2500 F25M F30M	KC635M	VP15TF VP20RT UP20M	ACP100 ACP200 ACP300	T3130 AH725 AH120 AH4035	PR830 PR1210 PR1025 PR1225 PR905	PC5300 PC9530	IC808 IC908
	TE5508	TT8080 TT8020	GC2040 S40T	WXM35 WSM35 WSP45	F40M MS2500 MM4500	KC725M	F7030 MP7030 VP30RT MP9130	ACM100 ACM200 ACM300	AH130 AH140 SH730 AH3035	PR1225 PR905	PC5300 PC5400	IC830 IC330 IC928
K		TT7515	GC3220 GC3330 GC4220	WAK15	MK1500 MP1500	KC915M KCK15	MC5020	ACK100			PC8110	IC5100
	TE4408	TT6080	GC1020 GC4230 GC3040 GC4240	WKP25S WKP35S WKK25S WKK25	MK2050	KCK15 KC520M	MP8010 VP15TF VP20RT F5010	ACK200 ACK300 ACZ310	T1115 AH110 AH120	PR905 PR1210 PR1510	PC6510 PC5300 PC5400	IC810 IC910
H	TE1108	TT2510 TT9080	GC1010 GC1030	WHH15	MH1000 F15M MP1500 F30M MP3000	KC510M KC522M KC635M	MP8010 VP15TF MP9130				PC210F	IC903 IC900

Application Comparison Table for Milling Grade

Workpiece Material	ISO	Coated Carbide Alloy		Uncoated Carbide Alloy	Cermet
		CVD	PVD		
P Steel	01				
	10		TE1009 TE1025 TE1008 TE1028 TE1308 TE5508		
	20				
	30				
	40				
	50				
	60				
M Stainless Steel	01				
	10		TE1019 TE1008 TE1028 TE1308 TE5508		
	20				
	30				
	40				
	50				
K Cast Iron	01				
	10		TE4408 TE4435 TE5508		
	20				
	30				
	40				
	50				
S High-temp Alloys	01				
	10		TE1019 TE1008 TE1028 TE1308		
	20				
	30				
	40				
H Hardened Material	01				
	10		TE1009 TE0725 TE1008 TE1028		
	20				
	30				
	40				

Mill cutting

TE1008

P M S H	Common grade and semi-finish grade ,super micro-particals substrate with high wear resistance. Apply for univeral and semi-finish processing on steel, stainless steel,high-temperature alloy ,apply for semi-finish processing on high hardness metal.

TE1019

P M S H	High universality,increased metal removal rate on application for high-temperature alloy milling. Apply for tool steels,hard steel,stainless steel, heat resistant steel,cast iron,boitium and titanium alloy. High wearing-resistance, high oxidation- resistance, superior hardness ,ensure high edge stability.

TE1028

P M S H	Common grate and semi-finish grade,super micro-particals substrate with high wear resistance and low friction coefficient coating. Apply for univeral and semi-finish processing on steel,stainless steel,high-temperature alloy ,apply for semi-finish processing on high hardness metal,superior property on stainless steel processing.

TE1009

P H	Semi-finish grade for high hardness material,super micro-particals substrate with high wear resistance. Apply for semi-finish and finish processing on heat-treatment die steel,and high hardness metal.

TE1308

P M S	Common grate and high toughness grade,with universal coating. Widely apply for universal procssing on steel,stainless steel,high-temperature alloy under stable cutting condition.

TE4408

K	Special grade for cast iron,apply for grey cast iron and nodular cast iron.

TE5508

P M K	Super toughness substrate,apply for tough processing and highly interrupted cutting condition.Apply for carbon steel,die steel,austenitic stainless steel,and cast iron.Excellent tipping resistence.

Mill cutting

TE1025

P M S	High-temperature-alloy coating grade, Apply for duplex stainless steel. Better surface moisture,smoothness,reduced resistance.

TE0725

P M S	Low friction coefficient grade.Apply for universal and semi-finish processing on stainless steel and high-temperature alloy under stable cutting condition. Superior property on processing on titanium alloy,apply for semi-finish processing on high hardness metal.

TE4435

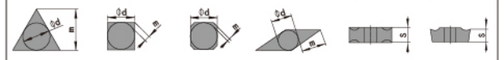
K	Special grade for cast iron,apply for universal processing on grey cast iron and nodular cast iron.

Relief Angle Symbol	
Symbol	Relief Angle
B	5°
C	7°
D	15°
E	20°
F	25°
G	30°
N	0°
P	11°
M	其他
S	其他



Tolerance Symbol

Symbol	Tolerance (mm)			Tolerance (inch)		
	Corner Height (m	Thickness (s)	I.C.Size (Ød)	Corner Height (m)	Thickness (s)	I.C.Size (Ød)
A	±0.005	±0.025	±0.025	±0.0002	±0.001	±0.001
F	±0.005	±0.025	±0.013	±0.0002	±0.001	±0.0005
C	±0.013	±0.025	±0.025	±0.0005	±0.001	±0.001
H	±0.013	±0.025	±0.013	±0.0005	±0.001	±0.0005
E	±0.025	±0.025	±0.025	±0.001	±0.001	±0.001
G	±0.025	±0.130	±0.025	±0.001	±0.005	±0.001
J	±0.005	±0.025	±0.05～±0.13	±0.0002	±0.001	±0.002～±0.005
K	±0.013	±0.025	±0.05～±0.13	±0.0005	±0.001	±0.002～±0.005
L	±0.025	±0.025	±0.05～±0.13	±0.001	±0.001	±0.002～±0.005
M	±0.08～±0.18	±0.130	±0.05～±0.13	±0.003～±0.007	±0.005	±0.002～±0.005
N	±0.08～±0.18	±0.025	±0.05～±0.13	±0.003～±0.007	±0.001	±0.002～±0.005
U	±0.13～±0.38	±0.130	±0.08～±0.25	±0.005～±0.0015	±0.005	±0.003～±0.01



Chipbreaker、Hole Symbol

Symbol	Hole	Hole Shape	Chipbreaker	Shape
N	Without	—	Without	
R			Single-sided	
F			Double-sided	
A	With	With Hole	Without	
M			Single-sided	
G			Double-sided	
W		one countersink	Without	
T			Single-sided	
Q		twocountersinks	Without	
U			Double-sided	
X	—	—	—	Special

① Shape Symbol ② Relief Angle Symbol ③ Tolerance Symbol ④ Chipbreaker Hole Symbol ⑤ Cutting Edge Length Symbol

Insert Shape:S,T,C,W,R

I.C.Size (mm)	Tolerance of I.C.Size (Ød) (mm)		Tolerance of Corner Height (m) (mm)		I.C.Size	Tolerance of I.C.Size (Ød) (in)		Tolerance of Corner Height (m) (in)		
	Class M	Class U	Class M	Class U	(in)	Class M	Class U	Class M		Class U
6.35	±0.05	±0.08	±0.08	±0.13	1/4"	±0.002	±0.003	±0.003		±0.005
9.525					3/8"					
12.7	±0.08	±0.13	±0.13	±0.2	1/2"	±0.003	±0.005	±0.005		±0.008
15.88	±0.1	±0.18	±0.15	±0.27	5/8"	±0.004	±0.007	±0.006		±0.011
19.05					3/4"					
25.4	±0.13	±0.25	±0.18	±0.38	1"	±0.005	±0.010	±0.007		±0.015
31.75	±0.15	±0.25	±0.2	±0.38	1 1/4"	±0.006	±0.010	±0.008		±0.015
32					1.26"					

Insert Shape：D

I.C.Size		Tolerance of I.C.Size (Ød)		Tolerance of Corner Height (m)	
mm	in	mm	in	mm	in
6.35	1/4"	±0.05	±0.002	±0.11	±0.004
9.53	3/8"	±0.05	±0.002	±0.11	±0.004
12.7	1/2"	±0.08	±0.003	±0.15	±0.006
15.88	5/8"	±0.10	±0.004	±0.18	±0.007
19.05	3/4"	±0.10	±0.004	±0.18	±0.007

Insert Shape：V

I.C.Size		Tolerance of I.C.Size (Ød)		Tolerance of Corner Height (m)	
mm	in	mm	in	mm	in
6.35	1/4"	±0.05	±0.002	±0.15	±0.006
9.53	3/8"	±0.05	±0.002	±0.15	±0.006
12.7	1/2"	±0.08	±0.003	±0.20	±0.008
15.88	5/8"	±0.10	±0.004	±0.27	±0.011
19.05	3/4"	±0.10	±0.004	±0.27	±0.011

Cutting direction (optional)

Symbol	direction
R	Right hand
L	Left hand
N	Neutral

⑥ Thickness Symbol ⑦ Nose Radius Symbol ⑧ Chamfer Angle Symbol ⑨ Chipbreaker Symbol ⑩ Cutting Direction Symbol

(ISO)

A	P	K	T	16	■	■	P	D	■	R
①	②	③	④	⑤	⑥	⑦	⑧		⑨	⑩

Shape Symbol

Symbol	Shape	Corner Angle	Figure
H	Hexagon	120°	
O	Octagon	135°	
P	Pentagon	108°	
S	Square	90°	
T	Triangle	60°	
C	Rhombic	80°	
D		55°	
E		75°	
F		50°	
M		86°	
V		35°	
W	Trigon	80°	
L	Rectangle	90°	
A	Parellelogram	85°	
B		82°	
K		55°	
R	Round	—	

Cutting Edge Length Symbol

Inch Symbol	I.C.Size (in)	I.C.Size (mm)	R	S	C	W	T	D	V
1	1/8"	3.18							
1.2	5/32"	3.97		03			06	04	
1.5	3/16"	4.76		04	04		08	05	
		5	05						
1.8	7/32"	5.56		05	05	03	09	06	
		6	06						
2	1/4"	6.35		06	06	04	11	07	11
2.5	5/16"	7.94		07	08	05	13	09	
		8	08						
3	3/8"	9.53	09	09	09	06	16	11	16
		10	10						
3.5	7/16"	11.11	11	11	11	7	19	13	19
		12	12						
4	1/2"	12.7	12	12	12	08	22	15	22
5	5/8"	15.88	15	15	16	10	27	19	
		16	16						
6	3/4"	19.05	19	19	19	13	33	23	
		20	20						
7	7/8"	22.225		22	22		38	27	
		25	25						
8	1"	25.4	25	25	25		44	31	
10	1 1/4"	31.75	31	31	32		55	38	
		32	32						
	1 1/2"	38.1		38					

Thickness Symbol

Inch Symbol	Metric Symbol	Thickness (in)	Thickness (mm)
	00		0.79
	T0		0.99
1	01	1/16"	1.59
1.2	T1	5/64"	1.98
1.5	02	3/32"	2.38
	T2		2.58
2	03	1/8"	3.18
2.5	T3	5/32"	3.97
3	04	3/16"	4.76
	T4		4.96
3.5	05	7/32"	5.56
	T5		5.95
4	06	1/4"	6.35
	T6		6.75
5	07	5/16"	7.94
6	09	3/8"	9.53
	T9		9.72
7	11	7/16"	11.11
8	12	1/2"	12.7
9		9/16"	14.29
10		5/8"	15.88

Nose radius Symbol

Inch Symbol	Metric Symbol	Nose radius (in)	Nose radius (mm)
0	00		0.0
0.2		1/256"	0.1
0.5	02	1/128"	0.2
1	04	1/64"	0.4
2	08	1/32"	0.8
3	12	3/64"	1.2
4	16	1/16"	1.6
5		5/64"	
6	24	3/32"	2.4
7		7/64"	
8	32	1/8"	3.2
10		5/32"	
12		3/16"	
14		7/32"	
16		1/4"	
X	X	Others	Others
	00	Round inserts	
	M0	Diameter of insert	

Chamfer Angle Symbol

Lead Angle(K)	Chamfered Relief Angle(α°)
A=45°	C=75°
D=60°	P=11°
E=75°	D=15°
P=90°	E=20°
	F=25°

Chipbreaker Symbol

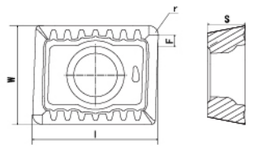
Chipbreaker designation
Indicating the cutting properties
of the chipbreaker

Cutting Edge (optional)

Symbol	Shape
F	Sharp
E	Rounded
T	Chamfered
S	Chamfered and Rounded
K	Double-Chamfered
P	Double-Chamfered and Rounded

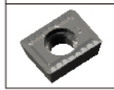
90° Square Shoulder Inserts

Dimension	W	I	ap	S	r	F
1504	12.7	16.33	10.2	4.76	1.2	2



Machining Material			P	M	K	S	H
		Steel	◐		●	●	◐	●	◐				✲			●
		Stainless Steel			●	●		●	◐	●						
		Cast Iron							◐		●	◐	✲			
		High-temp Alloys			●	●		●						◐	✲	
		Hardened Material		●	●											●

Working Condition
● Stable Cutting
◐ General Cutting
✲ Unstable Cutting

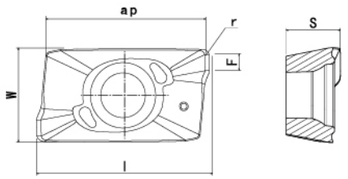
Insert Shape	ISO		Coated Grade														Cutting Data			
			TE0725	TE1009	TE1019	TE1008	TE1025	TE1028	TE1308	TE1028	TE4408	TE4435	TE5508	TE1025	TE5508	TE1009	fmin	fmax	apmin	apmax
	APKT	150412 MI	○	○	●	●	●	○	○	●	○	○	○	●	○	○	0.50	1.50	0.50	3.00

Major application: use as corn-cob milling with SPMT 120408

○ Generally Recommended ● Prior Recommended

90° Square Shoulder Inserts

Dimension	W	I	ap	S	r	F
1135	6.7	11.4	10.2	3.5	0.8	1.4
1604	9.4	16.4	13.0	5.25	0.8	1.7



Machining Material			P	M	K	S	H
		Steel	◐		●	●	◐	●	◐				✲			●
		Stainless Steel			●	●		●	◐	●						
		Cast Iron							◐		●	◐	✲			
		High-temp Alloys			●	●		●						◐	✲	
		Hardened Material		●	●											●

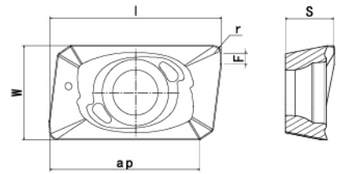
Working Condition
● Stable Cutting
◐ General Cutting
✲ Unstable Cutting

Insert Shape	ISO		Coated Grade														Cutting Data			
			TE0725	TE1009	TE1019	TE1008	TE1025	TE1028	TE1308	TE1028	TE4408	TE4435	TE5508	TE1025	TE5508	TE1009	fmin	fmax	apmin	apmax
	APMT	1135 PDER	●	●	●	●	●	●	○	●		●	●	●	●	●	0.20	0.50	0.15	3.00
		1604 PDER	●	●	●	●	●	●	○	●		●	●	●	●	●	0.20	1.00	0.15	6.00

○ Generally Recommended ● Prior Recommended

90° Square Shoulder Inserts

Dimension	W	I	ap	S	r	F
1135 MM	6.35	11	10.0	3.5	0.8	1.2
1604 MM	9.5	16.5	14.5	4.76	0.8	1.4
1135 HH	6.35	11	10.0	3.5	0.4	1.5
1604 HH	9.5	16.5	14.5	4.76	0.4	1.7



Machining Material			P	M	K	S	H
		Steel	◐		●	●	◐	●	◐				✲			●
		Stainless Steel			●	●			◐	●						
		Cast Iron							◐		●	◐	✲			
		High-temp Alloys			●	●		●						◐	✲	
		Hardened Material		●	●											●

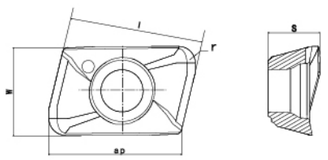
Working Condition
● Stable Cutting
◐ General Cutting
✲ Unstable Cutting

Insert Shape	ISO		Coated Grade														Cutting Data			
			TE0725	TE1009	TE1019	TE1008	TE1025	TE1028	TE1308	TE1028	TE4408	TE4435	TE5508	TE1025	TE5508	TE1009	fmin	fmax	apmin	apmax
	APMT	1135 PDER MM	●	●	●	●	●	●	○	●		●	●	●	●	●	0.20	0.50	0.15	3.00
		1604 PDER MM	●	●	●	●	●	●	○	●		●	●	●	●	●	0.20	1.00	0.15	6.00
	APMT	1135 PDER HH	●	●	●	●	●	●	○	●		●	●	●	●	●	0.20	0.50	0.15	3.00
		1604 PDER HH	●	●	●	●	●	●	○	●		●	●	●	●	●	0.20	1.00	0.15	6.00

○ Generally Recommended ● Prior Recommended

90° Square Shoulder Inserts

Dimension	W	I	ap	S	r
070204	4.26	6.51	6.42	2.44	0.4
070208	4.26	6.51	6.42	2.44	0.8
070220	4.26	6.51	6.42	2.44	2.0



Machining Material			P	M	K	S	H
		Steel	◐		●	●	◐	●	◐				✲			●
		Stainless Steel			●	●		●	◐	●						
		Cast Iron							◐		●	◐	✲			
		High-temp Alloys			●	●		●						◐	✲	
		Hardened Material		●	●											●

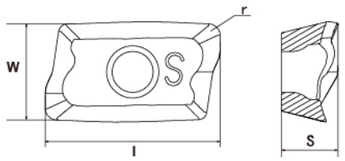
Working Condition
● Stable Cutting
◐ General Cutting
✲ Unstable Cutting

Insert Shape	ISO		Coated Grade														Cutting Data			
			TE0725	TE1009	TE1019	TE1008	TE1025	TE1028	TE1308	TE1028	TE4408	TE4435	TE5508	TE1025	TE5508	TE1009	fmin	fmax	apmin	apmax
	JDMT	070204 RM	●	●	●	●	●	●	○	●		●	●	●	●	●	0.08	0.30	0.10	0.50
		070208 RM	●	●	●	●	●	●	○	●		●	●	●	●	●	0.08	0.30	0.10	0.50
		070220 RM	●	●	●	●	●	●	○	●		●	●	●	●	●	0.08	0.30	0.10	0.50

○ Generally Recommended ● Prior Recommended

90° Square Shoulder Inserts

Dimension	W	I	r	S
11T308	6.7	11.0	0.8	3.8



Machining Material																
	P	Steel	◐		●	●	◐	●	◐				✲			●
	M	Stainless Steel			●	●		●	◐	●						
	K	Cast Iron							◐		●	◐	✲			
	S	High-temp Alloys			●	●		●						◐	✲	
	H	Hardened Material		●	●											●

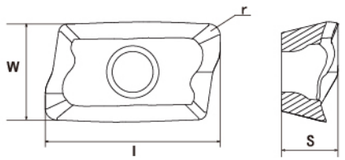
Working Condition
● Stable Cutting
◐ General Cutting
✲ Unstable Cutting

Insert Shape	ISO		Coated Grade														Cutting Data			
			TE0725	TE1009	TE1019	TE1008	TE1025	TE1028	TE1308	TE1028	TE4408	TE4435	TE5508	TE1025	TE5508	TE1009	fmin	fmax	apmin	apmax
	BDMT	11T308ER JS	●	●	○	●	●	○	○	○	○	○	○	●	○	○	0.20	0.50	0.15	3.00

○ Generally Recommended ● Prior Recommended

90° Square Shoulder Inserts

Dimension	W	I	r	S
11T308	6.8	10.0	0.8	3.6
11T331	6.8	10.0	3.1	3.6



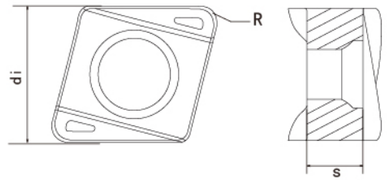
Machining Material																
	P	Steel	◐		●	●	◐	●	◐				✲			●
	M	Stainless Steel			●	●		●	◐	●						
	K	Cast Iron							◐		●	◐	✲			
	S	High-temp Alloys			●	●		●						◐	✲	
	H	Hardened Material		●	●											●

Working Condition
● Stable Cutting
◐ General Cutting
✲ Unstable Cutting

Insert Shape	ISO		Coated Grade														Cutting Data			
			TE0725	TE1009	TE1019	TE1008	TE1025	TE1028	TE1308	TE1028	TE4408	TE4435	TE5508	TE1025	TE5508	TE1009	fmin	fmax	apmin	apmax
	APMT	11T308PDR PM	●	●	○	●	●	○	○	○	○	●	○	●	○	○	0.20	0.50	0.15	3.00
		11T331PDR PM	●	●	○	●	●	○	○	○	○	●	○	●	○	○	0.20	0.50	0.15	3.00

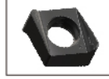
○ Generally Recommended ● Prior Recommended

Dimension	di	S	R
0308	6.6	3.62	0.8
0316	6.6	3.62	1.6
0320	6.6	3.62	2.0



Machining Material																
	P	Steel	◐		●	●	◐	●	◐				✲			●
	M	Stainless Steel			●	●		●	◐	●						
	K	Cast Iron							◐		●	◐	✲			
	S	High-temp Alloys			●	●		●						◐	✲	
	H	Hardened Material		●	●											●

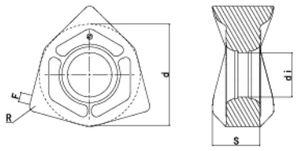
Working Condition
● Stable Cutting
◐ General Cutting
✲ Unstable Cutting

Insert Shape	ISO		Coated Grade														Cutting Data			
			TE0725	TE1009	TE1019	TE1008	TE1025	TE1028	TE1308	TE1028	TE4408	TE4435	TE5508	TE1025	TE5508	TE1009	fmin	fmax	apmin	apmax
	4NKT	060308R M	●		○	●	●	●	○	●		●	○	●	○		0.10	0.50	0.10	3.00
		060316R M	●		○	●	●	●	○	●		●	○	●	○		0.20	0.80	0.10	3.00
		060320R M	●		○	●	●	●	○	●		●	○	●	○		0.30	1.00	0.10	3.00

○ Generally Recommended ● Prior Recommended

Hexagon Face Milling Inserts

Dimension	di	d	F	S	R
0806	6.2	14	1.7	6.7	0.8



Machining Material																
	P	Steel	◐		●	●	◐	●	◐				✱			●
	M	Stainless Steel			●	●		●	◐	●						
	K	Cast Iron							◐		●	◐	✱			
	S	High-temp Alloys			●	●		●						◐	✱	
	H	Hardened Material		●	●											●

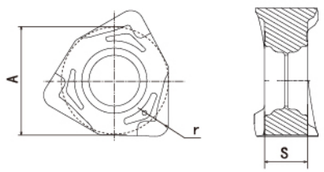
Working Condition
● Stable Cutting
◐ General Cutting
✱ Unstable Cutting

Insert Shape	ISO		Coated Grade														Cutting Data			
			TE0725	TE1009	TE1019	TE1008	TE1025	TE1028	TE1308	TE1028	TE4408	TE4435	TE5508	TE1025	TE5508	TE1009	fmin	fmax	apmin	apmax
	WNMU	080608 PTN CM	●		○	●	●	●	○	●		●	○	●	○		0.50	1.00	0.50	6.00
		080608 PTN SR	●		○	●	●	●	○	●		●	○	●	○		0.50	1.00	0.50	6.00

○ Generally Recommended ● Prior Recommended

Square Shoulder Inserts

Dimension	A	r	S
0403	6.35	0.8	3.29
0604	0.525	0.8	4.00
0804	12.7	0.8	6.45



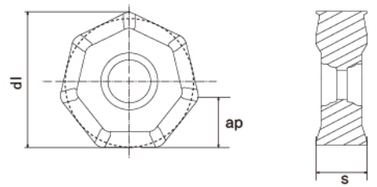
Machining Material																
	P	Steel	◐		●	●	◐	●	◐				✱			●
	M	Stainless Steel			●	●		●	◐	●						
	K	Cast Iron							◐		●	◐	✱			
	S	High-temp Alloys			●	●		●						◐	✱	
	H	Hardened Material		●	●											●

Working Condition
● Stable Cutting
◐ General Cutting
✱ Unstable Cutting

Insert Shape	ISO		Coated Grade														Cutting Data			
			TE0725	TE1009	TE1019	TE1008	TE1025	TE1028	TE1308	TE1028	TE4408	TE4435	TE5508	TE1025	TE5508	TE1009	fmin	fmax	apmin	apmax
	XNMU	040308 SR	●	○	○	●	●	●	○	●	○	●	●	●	○	○	0.50	1.00	0.50	1.50
		060408 SR	●	○	○	●	●	●	○	●	○	●	●	●	○	○	0.50	1.00	0.50	2.50
		080608 SR	●	○	○	●	●	●	○	●	○	●	●	●	○	○	0.50	1.00	0.50	3.50

○ Generally Recommended ● Prior Recommended

Dimension	dl	ap	S
0605	13.7	3.5	6.2
0906	18.5	5.0	7.4

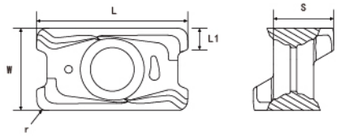


Machining Material																
	P	Steel	◐		●	●	◐	●	◐				✱			●
	M	Stainless Steel			●	●		●	◐	●						
	K	Cast Iron							◐		●	◐	✱			
	S	High-temp Alloys			●	●		●						◐	✱	
	H	Hardened Material		●	●											●

Working Condition
● Stable Cutting
◐ General Cutting
✱ Unstable Cutting

Insert Shape	ISO		Coated Grade														Cutting Data			
			TE0725	TE1009	TE1019	TE1008	TE1025	TE1028	TE1308	TE1028	TE4408	TE4435	TE5508	TE1025	TE5508	TE1009	fmin	fmax	apmin	apmax
	XNMU	0605ANR M	●	○	○	●	●	●	○	●	○	●	●	●	○	○	0.50	1.00	1.00	3.00
		0906ANTR M	●	○	○	●	●	●	○	●	○	●	●	●	○	○	0.50	1.00	1.00	5.00

○ Generally Recommended ● Prior Recommended



Dimension	L	L1	r	S	W
1104	12.1	0.5	0.8	4.83	6.6
15T6	17.0	2.2	0.8	6.96	10.0

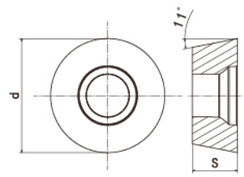
Machining Material																
	P	Steel	◐		●	●	◐	●	◐				✱			●
	M	Stainless Steel			●	●		●	◐	●						
	K	Cast Iron							◐		●	◐	✱			
	S	High-temp Alloys			●	●		●						◐	✱	
	H	Hardened Material		●	●											●

Working Condition
● Stable Cutting
◐ General Cutting
✱ Unstable Cutting

Insert Shape	ISO		Coated Grade														Cutting Data			
			TE0725	TE1009	TE1019	TE1008	TE1025	TE1028	TE1308	TE1028	TE4408	TE4435	TE5508	TE1025	TE5508	TE1009	fmin	fmax	apmin	apmax
	LNPU	110408SRGE MI	●		○	●	●	●	○	●		●	○	●	○	○	0.50	1.20	1.50	9.00
		15T608SRGE MI	●		○	●	●	●	○	●		●	○	●	○	○	0.50	1.20	1.50	12.0

○ Generally Recommended ● Prior Recommended

Die milling insert



Dimension	d	S
1003	10	3.2
1204	12	4.8
08T2 MI	8	2.8
10T3 MI	10	4.0
1204 MI	12	4.8
1606 MI	16	6.4

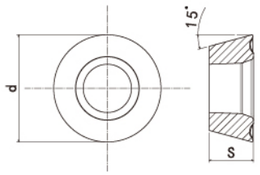
Machining Material			TE0725	TE1009	TE1019	TE1008	TE1025	TE1028	TE1308	TE1028	TE4408	TE5535	TE5508	TE1025	TE5508	TE1009
	P	Steel	◐		●	●	◐	●	◐				✱			●
	M	Stainless Steel			●	●		●	◐	●						
	K	Cast Iron							◐		●	◐	✱			
	S	High-temp Alloys			●	●		●						◐	✱	
	H	Hardened Material		●	●											●

Working Condition
● Stable Cutting
◐ General Cutting
✱ Unstable Cutting

Insert Shape	ISO		TE0725	TE1009	TE1019	TE1008	TE1025	TE1028	TE1308	TE1028	TE4408	TE5535	TE5508	TE1025	TE5508	TE1009	fmin	fmax	apmin	apmax
	RPMW	1003	●	●	●	●	●	●	○	●		●	●	●	●	●	0.30	1.00	0.20	2.00
		1204	●	●	●	●	●	●	○	●		●	●	●	●	●	0.40	1.20	0.30	2.50
	RPMT	08T2 MI	●	●	●	●	●	●	○	●		●	●	●	●	●	0.20	0.80	0.15	1.00
		10T3 MI	●	●	●	●	●	●	○	●		●	●	●	●	●	0.30	1.00	0.20	2.00
		1204 MI	●	●	●	●	●	●	○	●		●	●	●	●	●	0.40	1.20	0.20	2.50
		1606 MI	●	●	●	●	●	●	○	●		●	●	●	●	●	0.40	1.50	0.30	3.00

○ Generally Recommended ● Prior Recommended

Die milling insert



Dimension	d	S
0501	5	1.6
0702	7	2.4
0803	8	3.2
10T3	10	4.0
1204	12	4.8
1605	16	5.56

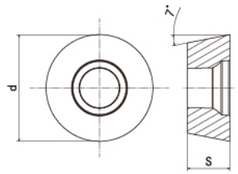
Machining Material			TE0725	TE1009	TE1019	TE1008	TE1025	TE1028	TE1308	TE1028	TE4408	TE4435	TE5508	TE1025	TE5508	TE1009
	P	Steel	◐		●	●	◐	●	◐				✱			●
	M	Stainless Steel			●	●		●	◐	●						
	K	Cast Iron							◐		●	◐	✱			
	S	High-temp Alloys			●	●		●						◐	✱	
	H	Hardened Material		●	●											●

Working Condition
● Stable Cutting
◐ General Cutting
✱ Unstable Cutting

Insert Shape	ISO		TE0725	TE1009	TE1019	TE1008	TE1025	TE1028	TE1308	TE1028	TE4408	TE4435	TE5508	TE1025	TE5508	TE1009	fmin	fmax	apmin	apmax
	RDMW	0501	●	○	●	●	●	●	○	●	○	●	○	●	○	○	0.30	1.00	0.20	2.00
		0702	●	○	●	●	●	●	○	●	○	●	○	●	○	○	0.20	0.80	0.15	1.00
	RDMT	0803 MZ	●	●	●	●	●	●	○	●		●	●	●	●	●	0.20	0.80	0.15	1.00
		10T3 MZ	●	●	●	●	●	●	○	●		●	●	●	●	●	0.30	1.00	0.20	2.00
		1204 MZ	●	●	●	●	●	●	○	●		●	●	●	●	●	0.40	1.20	0.20	2.50
		1605 MZ	●	●	●	●	●	●	○	●		●	●	●	●	●	0.40	1.50	0.30	3.00

○ Generally Recommended ● Prior Recommended

Die milling insert



Dimension	d	S
1606	16	5.56

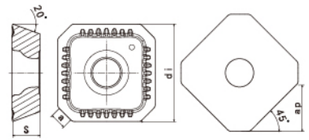
Machining Material			TE0725	TE1009	TE1019	TE1008	TE1025	TE1028	TE1308	TE1028	TE4408	TE4435	TE5508	TE1025	TE5508	TE1009
	P	Steel	◐		●	●	◐	●	◐				✱			●
	M	Stainless Steel			●	●		●	◐	●						
	K	Cast Iron							◐		●	◐	✱			
	S	High-temp Alloys			●	●		●						◐	✱	
	H	Hardened Material		●	●											●

Working Condition
● Stable Cutting
◐ General Cutting
✱ Unstable Cutting

Insert Shape	ISO		TE0725	TE1009	TE1019	TE1008	TE1025	TE1028	TE1308	TE1028	TE4408	TE4435	TE5508	TE1025	TE5508	TE1009	fmin	fmax	apmin	apmax
	RCMT	1606 MZ	●	●	●	●	●	●	○	○		●	●	●	●	●	0.40	1.50	0.30	3.00
		1606 MZS	●	●	●	●	●	●	○	○		●	●	●	●	●	0.40	1.50	0.30	3.00

○ Generally Recommended ● Prior Recommended

Square milling insert



Dimension	di	a	ap	S
1204	12.7	1.7	6.5	4.76
12T3	12.7	1.7	6.5	3.97
13T3	13.4	2	6.5	3.97

Machining Material			TE0725	TE1009	TE1019	TE1008	TE1025	TE1028	TE1308	TE1028	TE4408	TE4435	TE5508	TE1025	TE5508	TE1009
	P	Steel	◐		●	●	◐	●	◐		✱			●		
	M	Stainless Steel			●	●		●	◐							
	K	Cast Iron							◐	●	✱					
	S	High-temp Alloys			●	●		●					✱			
	H	Hardened Material		●	●									●		

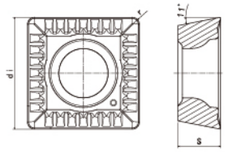
Working Condition
● Stable Cutting
◐ General Cutting
✱ Unstable Cutting

Insert Shape	ISO		TE0725	TE1009	TE1019	TE1008	TE1025	TE1028	TE1308	TE1028	TE4408	TE4435	TE5508	TE1025	TE5508	TE1009	fmin	fmax	apmin	apmax
	SEKT	1204AFTN MT	●		○	●	●	●	○	●		●	○	●	○		0.50	1.50	0.50	5.00
		12T3AFTN MT	●		○	●	●	●	○	●		●	○	●	○		0.50	1.50	0.50	5.00
	SEMT	13T3AGSN MT	●		○	●	●	●	○	●		●	○	●	○		0.50	1.50	0.50	5.00

○ Generally Recommended ● Prior Recommended

Square milling insert

Dimension	di	S	r
1204	12.7	4.76	0.8



Machining Material																
	P	Steel	◐		●	●	◐	●	◐				✱			●
	M	Stainless Steel			●	●		●	◐	●						
	K	Cast Iron							◐		●	◐	✱			
	S	High-temp Alloys			●	●		●						◐	✱	
	H	Hardened Material		●	●											●

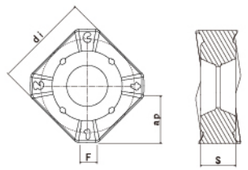
Working Condition
● Stable Cutting
◐ General Cutting
✱ Unstable Cutting

Insert Shape	ISO		Coated Grade														Cutting Data			
			TE0725	TE1009	TE1019	TE1008	TE1025	TE1028	TE1308	TE1028	TE4408	TE4435	TE5508	TE1025	TE5508	TE1009	fmin	fmax	apmin	apmax
	SPMT	120408PTN MI	●		○	●	●	●	○	●		●	○	●	○		0.05	1.00	0.50	5.00
		120408BE	●		○	●	●	●	○	●		●	○	●	○		0.05	1.00	0.50	5.00

○ Generally Recommended ● Prior Recommended

Squar, double-side,four-edge milling insert

Dimension	F	di	ap	S
1305	3	13	6	6.2

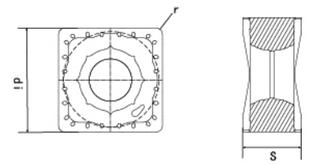


Machining Material																
	P	Steel	◐		●	●	◐	●	◐				✱			●
	M	Stainless Steel			●	●		●	◐	●						
	K	Cast Iron							◐		●	◐	✱			
	S	High-temp Alloys			●	●		●						◐	✱	
	H	Hardened Material		●	●											●

Working Condition
● Stable Cutting
◐ General Cutting
✱ Unstable Cutting

Insert Shape	ISO		Coated Grade														Cutting Data			
			TE0725	TE1009	TE1019	TE1008	TE1025	TE1028	TE1308	TE1028	TE4408	TE4435	TE5508	TE1025	TE5508	TE1009	fmin	fmax	apmin	apmax
	SNMU	305ANTR HT	●		○	●	●	●	○	●		●	○	●	○		0.50	1.50	0.50	4.50

○ Generally Recommended ● Prior Recommended



Dimension	di	ap	S
130608	13.5	3.0	6.9

Machining Material																
	P	Steel	◐		●	●	◐	●	◐				✱			●
	M	Stainless Steel			●	●		●	◐	●						
	K	Cast Iron							◐		●	◐	✱			
	S	High-temp Alloys			●	●		●						◐	✱	
	H	Hardened Material		●	●											●

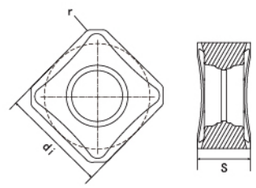
Working Condition
● Stable Cutting
◐ General Cutting
✱ Unstable Cutting

Insert Shape	ISO		Coated Grade														Cutting Data			
			TE0725	TE1009	TE1019	TE1008	TE1025	TE1028	TE1308	TE1028	TE4408	TE4435	TE5508	TE1025	TE5508	TE1009	fmin	fmax	apmin	apmax
	SNMX	130608 M	●		○	●	●	●	○		●	●	○	●	○		0.50	1.50	1.50	4.50

45° 专用

○ Generally Recommended ● Prior Recommended

Squar, double-side,four-edge milling insert



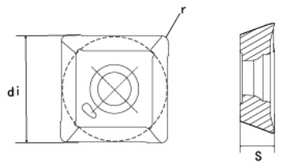
Dimension	di	r	S
120512	12.7	1.2	6.4
1205	12.7	1.2	6.4

Machining Material																
	P	Steel	◐		●	●	◐	●	◐				✱			●
	M	Stainless Steel			●	●		●	◐	●						
	K	Cast Iron							◐		●	◐	✱			
	S	High-temp Alloys			●	●		●						◐	✱	
	H	Hardened Material		●	●											●

Working Condition
● Stable Cutting
◐ General Cutting
✱ Unstable Cutting

Insert Shape	ISO		Coated Grade														Cutting Data			
			TE0725	TE1009	TE1019	TE1008	TE1025	TE1028	TE1308	TE1028	TE4408	TE4435	TE5508	TE1025	TE5508	TE1009	fmin	fmax	apmin	apmax
	SNMX	120512PNN FM	●		○	●	●	●	○	●		●	○	●	○		0.50	1.50	0.50	9.00
		1205ANN FM	●		○	●	●	●	○	●		●	○	●	○		0.50	1.50	0.50	9.00

○ Generally Recommended ● Prior Recommended



Dimension	d	ap	r	S
12T308	13.26	1.0	0.8	4.8

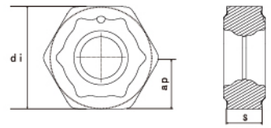
Machining Material																
P	Steel	◐		●	●	◐	●	◐				✲			●
M	Stainless Steel			●	●		●	◐	●						
K	Cast Iron							◐		●	◐	✲			
S	High-temp Alloys			●	●		●						◐	✲	
H	Hardened Material		●	●											●

Working Condition
● Stable Cutting
◐ General Cutting
✲ Unstable Cutting

Insert Shape	ISO		Coated Grade														Cutting Data			
			TE0725	TE1009	TE1019	TE1008	TE1025	TE1028	TE1308	TE1028	TE4408	TE4435	TE5508	TE1025	TE5508	TE1009	fmin	fmax	apmin	apmax
	SPMT	12T308PR MM	●		○	●	●	●	○	●	○	●	○	●	○		0.50	1.20	0.50	5.00

○ Generally Recommended ● Prior Recommended

Double-side,six-edge milling insert



Dimension	di	ap	S
050410	12.7	5.0	5.0

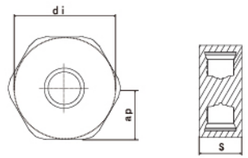
Machining Material																
P	Steel	◐		●	●	◐	●	◐				✲			●
M	Stainless Steel			●	●		●	◐	●						
K	Cast Iron							◐		●	◐	✲			
S	High-temp Alloys			●	●		●						◐	✲	
H	Hardened Material		●	●											●

Working Condition
● Stable Cutting
◐ General Cutting
✲ Unstable Cutting

Insert Shape	ISO		Coated Grade														Cutting Data			
			TE0725	TE1009	TE1019	TE1008	TE1025	TE1028	TE1308	TE1028	TE4408	TE4435	TE5508	TE1025	TE5508	TE1009	fmin	fmax	apmin	apmax
	HNMU	050410 CI	●	○	○	●	●	●	○	●	○	●	○	●	○	○	0.05	0.10	0.50	4.00

○ Generally Recommended ● Prior Recommended

Double-side,six-edge milling insert



Dimension	di	ap	S
0906	9.53	4.5	6.35

Machining Material																
P	Steel	◐		●	●	◐	●	◐				✲			●
M	Stainless Steel			●	●		●	◐	●						
K	Cast Iron							◐		●	◐	✲			
S	High-temp Alloys			●	●		●						◐	✲	
H	Hardened Material		●	●											●

Working Condition
● Stable Cutting
◐ General Cutting
✲ Unstable Cutting

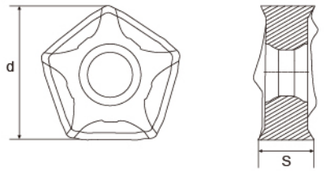
Insert Shape	ISO		Coated Grade														Cutting Data			
			TE0725	TE1009	TE1019	TE1008	TE1025	TE1028	TE1308	TE1028	TE4408	TE4435	TE5508	TE1025	TE5508	TE1009	fmin	fmax	apmin	apmax
	SPCT	10T3PDER CI	●		○	●	●	●	○	●	○	●	○	●	○		0.50	1.00	0.50	5.00

○ Generally Recommended ● Prior Recommended

Insert Shape	ISO		Coated Grade														Cutting Data			
			TE0725	TE1009	TE1019	TE1008	TE1025	TE1028	TE1308	TE1028	TE4408	TE4435	TE5508	TE1025	TE5508	TE1009	fmin	fmax	apmin	apmax
	HNMU	0906ANSN MR	●	○	○	●	●	●	○	●	○	●	○	●	○	○	0.50	1.50	1.50	7.00

○ Generally Recommended ● Prior Recommended

Dimension	d	s
0905	14.6	5.56



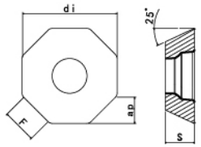
Machining Material																
	P	Steel	◐		●	●	◐	●	◐				✲			●
	M	Stainless Steel			●	●		●	◐	●						
	K	Cast Iron							◐		●	◐	✲			
	S	High-temp Alloys			●	●		●						◐	✲	
	H	Hardened Material		●	●											●

Working Condition
● Stable Cutting
◐ General Cutting
✲ Unstable Cutting

Insert Shape	ISO		Coated Grade														Cutting Data			
			TE0725	TE1009	TE1019	TE1008	TE1025	TE1028	TE1308	TE1028	TE4408	TE4435	TE5508	TE1025	TE5508	TE1009	fmin	fmax	apmin	apmax
	PNMU	0905XNER GM	●	○	○	●	●	●	○	●	○	●	○	●	○	○	0.50	1.00	1.00	5.00

○ Generally Recommended ● Prior Recommended

Otagon,single side,eight-edge milling insert



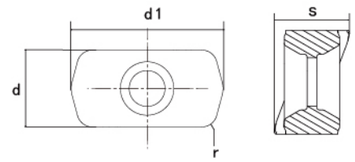
Dimension	F	di	ap	S
05T3	5	13	3.5	4

Machining Material																
	P	Steel	◐		●	●	◐	●	◐				✲			●
	M	Stainless Steel			●	●		●	◐	●						
	K	Cast Iron							◐		●	◐	✲			
	S	High-temp Alloys			●	●		●						◐	✲	
	H	Hardened Material		●	●											●

Working Condition
● Stable Cutting
◐ General Cutting
✲ Unstable Cutting

Insert Shape	ISO		Coated Grade														Cutting Data			
			TE0725	TE1009	TE1019	TE1008	TE1025	TE1028	TE1308	TE1028	TE4408	TE4435	TE5508	TE1025	TE5508	TE1009	fmin	fmax	apmin	apmax
	OFCW	05T3TN MR	●		○	●	●	●	○	●		●	○	●	○		0.30	0.32	1.5	3.00

○ Generally Recommended ● Prior Recommended



Dimension	d	d1	r	S
0303	6.0	11.59	1.2	4.3

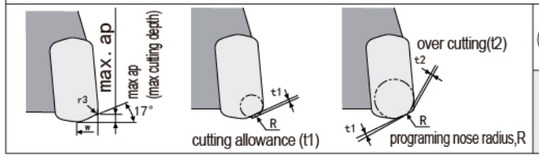
Machining Material																
	P	Steel	◐		●	●	◐	●	◐				✲			●
	M	Stainless Steel			●	●		●	◐	●						
	K	Cast Iron							◐		●	◐	✲			
	S	High-temp Alloys			●	●		●						◐	✲	
	H	Hardened Material		●	●											●

Working Condition
● Stable Cutting
◐ General Cutting
✲ Unstable Cutting

Insert Shape	ISO		Coated Grade														Cutting Data			
			TE0725	TE1009	TE1019	TE1008	TE1025	TE1028	TE1308	TE1028	TE4408	TE4435	TE5508	TE1025	TE5508	TE1009	fmin	fmax	apmin	apmax
	LNMU	0303ZER LM	●	○	○	●	●	●	○	●	○	○	○	●	○	○	0.50	1.20	0.50	1.00
		0303ZER JM	●		○	●	●	●	○	●	○	○	○	●	○		0.50	1.20	0.50	1.00

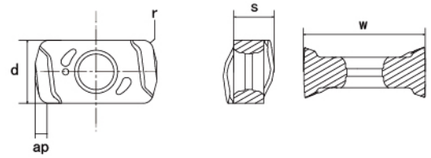
Programming insert shape

In general case, nose radius is set as R. If a larger programming radius is applied, will result in overcutting. cutting allowance (t1) and over cutting(t2)



Max AP (Max cutting depth) (mm)	nose radius r3 (mm)	W (mm)	programming nose radius, R	cutting allowance t1 (mm)	over cutting t2 (mm)
1.0	1.2	3.0	1.0	0.60	–
			1.5	0.50	–
			2.0	0.25	0.08
			2.5	0.14	0.26

○ Generally Recommended ● Prior Recommended



Dimension	d	ap	r	S	W
0303	6.2	1.0	1.0	3.96	12.0

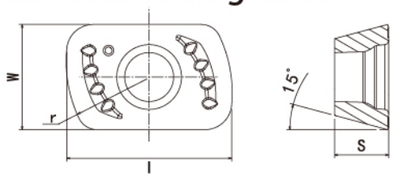
Machining Material																
	P	Steel	◐		●	●	◐	●	◐				✲			●
	M	Stainless Steel			●	●		●	◐	●						
	K	Cast Iron							◐		●	◐	✲			
	S	High-temp Alloys			●	●		●						◐	✲	
	H	Hardened Material		●	●											●

Working Condition
● Stable Cutting
◐ General Cutting
✲ Unstable Cutting

Insert Shape	ISO		Coated Grade														Cutting Data			
			TE0725	TE1009	TE1019	TE1008	TE1025	TE1028	TE1308	TE1028	TE4408	TE4435	TE5508	TE1025	TE5508	TE1009	fmin	fmax	apmin	apmax
	LOGU	030310ER JM	●		○	●	●	●	○	●	○	●	○	●	○		0.50	1.20	0.50	1.00

○ Generally Recommended ● Prior Recommended

Parellelogram,fast-feed milling insert



Dimension	W	l	r	S
0603	6. 35	10	8	3. 18

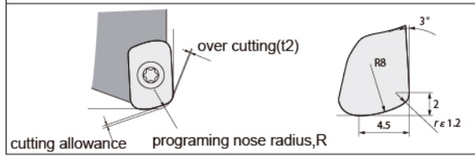
Machining Material																
	P	Steel	◐		●	●	◐	●	◐				✲			●
	M	Stainless Steel			●	●		●	◐	●						
	K	Cast Iron							◐		●	◐	✲			
	S	High-temp Alloys			●	●		●						◐	✲	
	H	Hardened Material		●	●											●

Working Condition
● Stable Cutting
◐ General Cutting
✲ Unstable Cutting

Insert Shape	ISO		Coated Grade														Cutting Data			
			TE0725	TE1009	TE1019	TE1008	TE1025	TE1028	TE1308	TE1028	TE4408	TE4435	TE5508	TE1025	TE5508	TE1009	fmin	fmax	apmin	apmax
	EPMT	0603TN MT	●		○	●	●	●	○	●	○	○		●	○	○	0.50	1.20	0.50	1.00

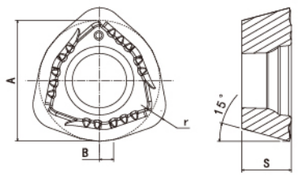
Programming insert shape

In general case, nose radius is set as R. If a larger programming radius is applied, will result in overcutting.
cutting allowance (t1) and over cutting(t2)



Max AP (Max cutting depth) (mm)	nose radius r3 (mm)	W (mm)	programming nose radius, R	cutting allowance t1 (mm)	over cutting t2 (mm)
0.3	8	4.5	2.0	0.49	–
			2.5	0.34	0.07
			3.0	0.23	0.21
			3.5	0.10	0.41

○ Generally Recommended ● Prior Recommended



Dimension	A	B	r	S
04T2	6. 5	0. 8	1. 5	2. 8
06T3	10	1. 2	2	3. 97
0805	13	1. 5	2	5. 5

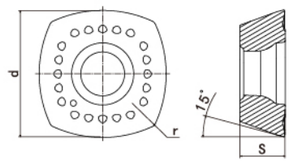
Machining Material																
	P	Steel	◐		●	●	◐	●	◐				✲			●
	M	Stainless Steel			●	●		●	◐	●						
	K	Cast Iron							◐		●	◐	✲			
	S	High-temp Alloys			●	●		●						◐	✲	
	H	Hardened Material		●	●											●

Working Condition
● Stable Cutting
◐ General Cutting
✲ Unstable Cutting

Insert Shape	ISO		Coated Grade														Cutting Data			
			TE0725	TE1009	TE1019	TE1008	TE1025	TE1028	TE1308	TE1028	TE4408	TE4435	TE5508	TE1025	TE5508	TE1009	fmin	fmax	apmin	apmax
	WDMT	04T215ZER MT	●		○	●	●	●	○	●	○	○	○	●	○		0.50	1.00	0.20	0.80
		06T320ZER MT	●		○	●	●	●	○	●	○	○	○	●	○		0.50	1.50	0.20	1.00
		080520ZER MT	●		○	●	●	●	○	●	○	○	○	●	○		0.50	2.00	0.20	1.50

○ Generally Recommended ● Prior Recommended

Square Fast Feed Inserts



Dimension	d	S	r
1205	12. 7	5. 56	3
120512	12. 7	5. 56	1. 2
1505	15. 9	5. 56	0. 8

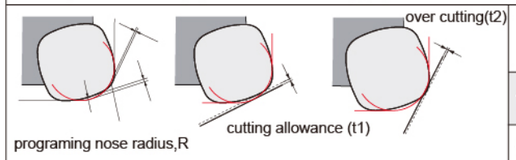
Machining Material																
	P	Steel	◐		●	●	◐	●	◐				✲			●
	M	Stainless Steel			●	●		●	◐	●						
	K	Cast Iron							◐		●	◐	✲			
	S	High-temp Alloys			●	●		●						◐	✲	
	H	Hardened Material		●	●											●

Working Condition
● Stable Cutting
◐ General Cutting
✲ Unstable Cutting

Insert Shape	ISO		Coated Grade														Cutting Data			
			TE0725	TE1009	TE1019	TE1008	TE1025	TE1028	TE1308	TE1028	TE4408	TE4435	TE5508	TE1025	TE5508	TE1009	fmin	fmax	apmin	apmax
	SDMT	120530ZDTN MT	●		○	●	●	●	○	●	○	●	○	●	○		0.50	1.50	0.50	1.50
		120512ZDTN MT	●		○	●	●	●	○	●	○	●	○	●	○		0.50	1.80	0.50	1.50
		1505ZDTN MT	●		○	●	●	●	○	●	○	●	○	●	○		0.50	1.80	0.50	1.50

Programming insert shape

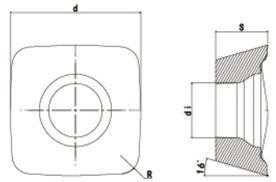
In general case, nose radius is set as R. If a larger programming radius is applied, will result in overcutting.
cutting allowance (t1) and over cutting(t2)



	Max AP (Max cutting depth) (mm)	nose radius r3 (mm)	FZ (mm)	programming nose radius, R	cutting allowance t1 (mm)	over cutting t2 (mm)
120530	1.0	3	1.0	4.5	0.83	–
				5.0	0.69	0.07
				5.5	0.55	0.20
120512	1.5	1.2	1.2	6.0	0.42	0.37
				6.5	0.30	0.55

○ Generally Recommended ● Prior Recommended

Square Fast Feed Inserts



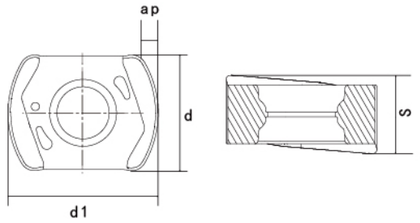
Dimension	d	di	R	S
1405	14. 6	5. 8	2. 0	5. 56

Machining Material																
	P	Steel	◐		●	●	◐	●	◐				✲			●
	M	Stainless Steel			●	●		●	◐	●				◐		
	K	Cast Iron							◐		●	◐	✲			
	S	High-temp Alloys			●	●		●							✲	
	H	Hardened Material		●	●											●

Working Condition
● Stable Cutting
◐ General Cutting
✲ Unstable Cutting

Insert Shape	ISO		Coated Grade														Cutting Data			
			TE0725	TE1009	TE1019	TE1008	TE1025	TE1028	TE1308	TE1028	TE4408	TE4435	TE5508	TE1025	TE5508	TE1009	fmin	fmax	apmin	apmax
	SOMT	140520ER MD	●		○	●	●	●	○	●	○	●	○	●	○		0.50	2.00	0.50	1.50

○ Generally Recommended ● Prior Recommended



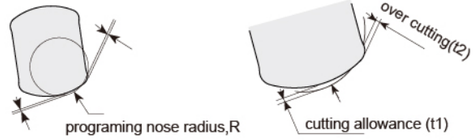
Dimension	d	d1	ap	S
0603	6. 39	9. 0	1. 0	3. 73
0904	9. 18	11. 9	1. 5	4. 8

Machining Material			
P	Steel	◐	
M	Stainless Steel		
K	Cast Iron		
S	High-temp Alloys		
H	Hardened Material		●

Working Condition
● Stable Cutting
◐ General Cutting
✲ Unstable Cutting

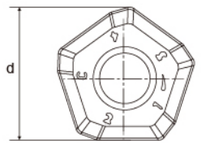
Insert Shape	ISO		Coated Grade														Cutting Data			
			TE0725	TE1009	TE1019	TE1008	TE1025	TE1028	TE1308	TE1028	TE4408	TE4435	TE5508	TE1025	TE5508	TE1009	fmin	fmax	apmin	apmax
	BLMP	0603R HH	●	○	○	●	●	●	○	●	○	●	○	●	○	○	0.50	1.20	0.50	1.00
		0904R HH	●	○	○	●	●	●	○	●	○	●	○	●	○	○	0.50	1.20	0.50	1.00

In general case, nose radius is set as R. If a larger programming radius is applied, will result in overcutting.



	Max AP (Max cutting depth) (mm)	nose radius r3 (mm)	programming nose radius, R	cutting allowance t1 (mm)	over cutting t2 (mm)
0603	1.0	8	2.0	0.42	–
			2.5	0.26	0.12
			3.0	0.17	0.29
0904	1.5	8	2.5	0.61	–
			3.0	0.45	0.09
			3.5	0.30	0.24
			4.0	0.17	0.41
			3.0	0.04	0.36

○ Generally Recommended ● Prior Recommended



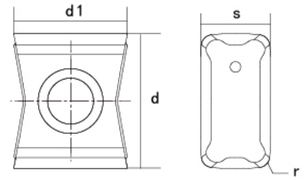
Dimension	d	S
0905	13. 5	5. 45

Machining Material			
P	Steel	◐	
M	Stainless Steel		
K	Cast Iron		
S	High-temp Alloys		
H	Hardened Material		●

Working Condition
● Stable Cutting
◐ General Cutting
✲ Unstable Cutting

Insert Shape	ISO		Coated Grade														Cutting Data			
			TE0725	TE1009	TE1019	TE1008	TE1025	TE1028	TE1308	TE1028	TE4408	TE4435	TE5508	TE1205	TE5508	TE1009	fmin	fmax	apmin	apmax
	PDMT	0905ZEER SP	●		○	●	●	●	○	●		●	○	●	○	○	0.50	2.00	0.50	7.00

○ Generally Recommended ● Prior Recommended



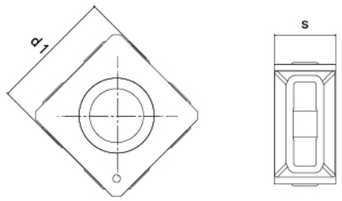
Dimension	d1	d	r	S
100508	8. 42	10. 0	0. 8	5. 2

Machining Material			
P	Steel	◐	
M	Stainless Steel		
K	Cast Iron		
S	High-temp Alloys		
H	Hardened Material		●

Working Condition
● Stable Cutting
◐ General Cutting
✲ Unstable Cutting

Insert Shape	ISO		Coated Grade														Cutting Data			
			TE0725	TE1009	TE1019	TE1008	TE1025	TE1028	TE1308	TE1028	TE4408	TE4435	TE5508	TE1025	TE5508	TE1009	fmin	fmax	apmin	apmax
	LNMT	100508PNFN	●		○	●	●	●	○	●	○	●	○	●	○		0.20	1.00	0.50	7.00

○ Generally Recommended ● Prior Recommended



Dimension	d1	s
1206	12. 7	6. 35

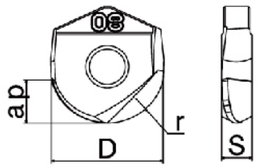
Machining Material			
P	Steel	◐	
M	Stainless Steel		
K	Cast Iron		
S	High-temp Alloys		
H	Hardened Material		●

Working Condition
● Stable Cutting
◐ General Cutting
✲ Unstable Cutting

Insert Shape	ISO		Coated Grade														Cutting Data			
			TE0725	TE1009	TE1019	TE1008	TE1025	TE1028	TE1308	TE1028	TE4408	TE4435	TE5508	TE1025	TE5508	TE1009	fmin	fmax	apmin	apmax
	LNMX	1206PNN	●		○	●	●	○	○	○	○	●	○	●	○		0.20	1.00	0.50	5.00

○ Generally Recommended ● Prior Recommended

Ball Nose Milling Inserts



Dimension	D	ap	S	r
D16	16	8.0	4.2	8.0
D20	20	10.0	5.2	10.0
D25	25	12.5	6.2	12.5
D30	30	15.0	7.2	15.0

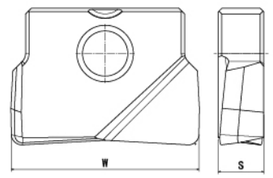
Machining Material																
	P	Steel	◐		●	●	◐	●	◐				✲			●
	M	Stainless Steel			●	●		●	◐	●						
	K	Cast Iron							◐		●	◐	✲			
	S	High-temp Alloys			●	●		●						◐	✲	
	H	Hardened Material		●	●											●

Working Condition
● Stable Cutting
◐ General Cutting
✲ Unstable Cutting

Insert Shape	ISO		Coated Grade														Cutting Data			
			TE0725	TE1009	TE1019	TE1008	TE1025	TE1028	TE1308	TE1028	TE4408	TE4435	TE5508	TE1025	TE5508	TE1009	fmin	fmax	apmin	apmax
	HBR	D16 PS	●		○	●	●	●	○	●		●	○	●	○	○	0.03	0.64	2.5	8.00
		D20 PS	●		○	●	●	●	○	●		●	○	●	○	○	0.03	0.64	3.0	10.0
		D25 PS	●		○	●	●	●	○	●		●	○	●	○	○	0.03	0.64	3.5	12.0
		D30 PS	●		○	●	●	●	○	●		●	○	●	○	○	0.03	0.64	4.0	15.0

○ Generally Recommended ● Prior Recommended

Flat Bottom R Angle Milling Inserts



Dimension	W	S
D10	10	2.6
D12	12	3
D17	17	4
D20	20	5

Machining Material																
	P	Steel	◐		●	●	◐	●	◐				✲			●
	M	Stainless Steel			●	●		●	◐	●						
	K	Cast Iron							◐		●	◐	✲			
	S	High-temp Alloys			●	●		●						◐	✲	
	H	Hardened Material		●	●											●

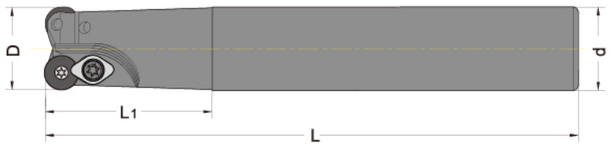
Working Condition
● Stable Cutting
◐ General Cutting
✲ Unstable Cutting

Insert Shape	ISO		Coated Grade														Cutting Data			
			TE0725	TE1009	TE1019	TE1008	TE1025	TE1028	TE1308	TE1028	TE4408	TE4435	TE5508	TE1025	TE5508	TE1009	fmin	fmax	apmin	apmax
	THC	D10-R1.5 DM	●		○	●	●	●	○	●	●	●	○	●	○	○	0.03	0.45	1.00	6.00
		D10-R2.0 DM	●		○	●	●	●	○	●	●	●	○	●	○	○	0.03	0.45	1.00	6.00
		D12-R1.5 DM	●		○	●	●	●	○	●	●	●	○	●	○	○	0.05	0.50	2.00	8.00
		D12-R2.0 DM	●		○	●	●	●	○	●	●	●	○	●	○	○	0.05	0.50	2.00	8.00
		D17-R1.0 DM	●		○	●	●	●	○	●	●	●	○	●	○	○	0.08	0.55	3.00	11.00
		D17-R1.5 DM	●		○	●	●	●	○	●	●	●	○	●	○	○	0.08	0.55	3.00	11.00
		D17-R2.0 DM	●		○	●	●	●	○	●	●	●	○	●	○	○	0.08	0.55	3.00	11.00
		D20-R1.5 DM	●		○	●	●	●	○	●	●	●	○	●	○	○	0.10	0.64	5.00	14.00
		D20-R2.0 DM	●		○	●	●	●	○	●	●	●	○	●	○	○	0.10	0.64	5.00	14.00

○ Generally Recommended ● Prior Recommended

Apply for material					Grade	cutting depth (mm)	cutting speed m/min	feed rate mm/t	Cool
Iso grade DIN/ISO 513	material	Standard AISI/SAE/ASTM	Standard DIN W.-Nr	hardness (HB)					
P	non-alloy steel	1020	1.0402	130-180	TE5508	1-1.5	100-150	0.8-1.5	Air-cooled
					TE1008	1.5-2	100-170	0.7-1.3	
	low carbon steel	4340	1.6582	260-300	TE5508	1-1.5	100-150	0.8-1.5	
					TE1008	1.5-2		0.5-1	
		3135	1.571	HRC 35-42	TE5508	0.5-1.1	80-120	0.4-1	
					TE1008	0.5-0.7		0.2-0.7	
	high-alloy steel	H13	1.2344	200-220	TE5508	0.7-1.5	100-150	0.6-1.1	
					TE1008				
M	martensitic stainless steels	420	1.4021	200	TE5508	0.5-1.5	80-120	0.4-0.8	Air-cooled
	austenitic stainless steel	304L	1.4306	200	TE5508	0.5-1	80-100	0.7-0.7	
		316L	1.4404	140	TE5508	0.5-1	80-100	0.3-0.6	
K	grey cast iron	Class 40	0.6025(GG25)	250	TE5508	1-1.5	150-220	1-1.5	Air-cooled
	nodular cast iron	Class 65-45-12	0.7050(GGG50)	200	TE5508	1-1.5	100-160	1-1.5	
S	High-temperature alloy	Inoonel 718	2.4668	340	TE5508	0.5-1	20-30	0.1-0.2	Coolant
		AMS R56400	3.7165(Ti6Al4V)	HRC 40-45	TE5508	0.5-1	22-45	0.4-0.6	

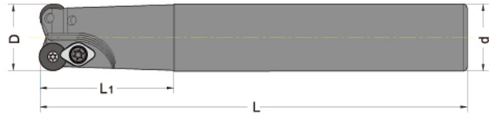






Model		Amount of Teeth	Dimension				Adaptive Insert	Pictures of Inserts
			D	d	L	L1		
TDRP	4R-12-130-1T	1	12	12	130	40	RP..08..	
	4R-13-130-1T	1	13	12	130	40		
	4R-17-160-2T	2	17	16	160	40		
	4R-17-200-2T	2	17	16	200	50		
	4R-21-160-2T	2	21	20	160	50		
	4R-21-200-2T	2	21	20	200	50		
	5R-21-160-2T	2	21	20	160	50	RP..10..	
	5R-21-200-2T	2	21	20	200	50		
	5R-25-160-2T	2	25	20	160	50		
	5R-25-200-2T	2	25	20	200	50		
	5R-26-160-2T	2	26	25	160	50		
	5R-26-200-2T	2	26	25	200	60		
	5R-26-250-2T	2	26	25	250	60		
	5R-30-160-2T	2	30	25	160	50		
	5R-30-200-2T	2	30	25	200	60		
	5R-30-250-2T	2	30	25	250	60		
	5R-35-160-3T	3	35	32	160	50		
	5R-35-200-3T	3	35	32	200	50		
	5R-35-250-3T	3	35	32	250	50		
	6R-32-160-2T	2	32	25	160	50	RP..12..	
	6R-32-200-2T	2	32	25	200	50		
	6R-35-160-3T	3	35	32	160	50		
	6R-35-200-3T	3	35	32	200	50		
	6R-35-250-3T	3	35	32	250	60		
	6R-35-300-3T	3	35	32	300	60		







Model		Amount of Teeth	Dimension				Adaptive Insert	Pictures of Inserts
			D	d	L	L1		
TDRD	4R-10-120-1T	1	10	10	120	40	RD..08..	
	4R-12-120-2T	2	12	12	120	40		
	4R-12-100-1T	1	12	12	100	40		
	4R-13-130-1T	1	13	12	130	40		
	4R-17-160-2T	2	17	16	160	40		
	4R-17-200-2T	2	17	16	200	40		
	4R-21-160-2T	2	21	21	160	40		
	4R-21-200-2T	2	21	20	200	50		
	5R-21-160-2T	2	21	20	160	50	RD..10..	
	5R-21-200-2T	2	21	20	200	50		
	5R-26-160-2T	2	26	25	160	50		
	5R-26-200-2T	2	26	25	200	60		
	5R-26-250-2T	2	26	25	250	60		
	5R-30-160-2T	2	30	25	160	50		
	5R-30-200-2T	2	30	25	200	60		
	5R-30-250-2T	2	30	25	250	60		
	5R-30-300-2T	2	30	25	300	60		
	5R-30-160-3T	3	30	25	160	50		
	5R-35-200-3T	3	35	32	200	50		
	5R-35-250-3T	3	35	32	250	60		
	5R-35-300-3T	3	35	32	300	60		
	5R-35-350-3T	3	35	32	350	60		
	5R-35-400-3T	3	35	32	400	60		





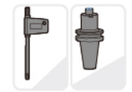


Model		Amount of Teeth	Dimension				Adaptive Insert	Pictures of Inserts
			D	d	L	L1		
TDRD	6R-32-160-2T	2	26	25	160	50	RD..12..	
	6R-32-160-2T	2	26	25	200	50		
	6R-32-160-2T	2	26	25	250	60		
	6R-32-160-2T	2	30	25	160	50		
	6R-32-160-2T	2	30	25	200	50		
	6R-32-160-2T	2	30	25	250	60		
	6R-32-160-2T	3	35	32	160	50		
	6R-32-160-2T	3	35	32	200	50		
	6R-32-160-2T	3	35	32	250	60		
	6R-32-160-2T	3	35	32	300	60		
	6R-32-160-2T	3	35	32	350	60		









Model		Amount of Teeth	Dimension					Adaptive Insert	Pictures of Inserts
			D	d	L	L1	a		
BAP	300R-10-100-1T	1	10	10	100	30	9	AP..1135..	
	300R-10-120-1T	1	10	10	120	30	9		
	300R-12-130-1T	1	12	12	130	30	9		
	300R-13-130-1T	1	13	12	130	30	9		
	300R-16-120-2T	2	16	16	120	40	9		
	300R-16-160-2T	2	16	16	160	40	9		
	300R-17-120-2T	2	17	16	120	40	9		
	300R-17-160-2T	2	17	16	160	40	9		
	300R-17-200-2T	2	17	16	200	40	9		
	300R-20-120-2T	2	20	20	120	50	9		
	300R-20-160-2T	2	20	20	160	50	9		
	300R-20-200-2T	2	20	20	200	50	9		
	300R-21-120-2T	2	21	20	120	50	9		
	300R-21-160-2T	2	21	20	160	50	9		
	300R-21-200-2T	2	21	20	200	50	9		
	300R-21-250-2T	2	21	20	250	50	9		
	300R-21-300-2T	2	21	20	300	50	9		
	300R-16-250-2T	2	16	25	250	50	9		
	300R-20-250-2T	2	20	25	250	50	9		
	300R-22-150-2T	2	22	25	150	50	9		
	300R-25-160-3T	3	25	25	160	50	9		
	300R-25-200-3T	3	25	25	200	50	9		

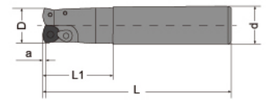






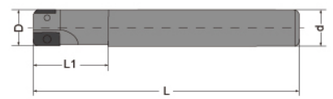
Model		Amount of Teeth	Dimension					Adaptive Insert	Pictures of Inserts
			D	d	L	L1	a		
BAP	400R-25-160-2T	2	25	25	160	50	14	AP..1604..	
	400R-25-200-2T	2	25	25	200	50	14		
	400R-26-160-2T	2	26	25	160	50	14		
	400R-26-200-2T	2	26	25	200	50	14		
	400R-26-250-2T	2	26	25	250	50	14		
	400R-26-300-2T	2	26	25	300	50	14		
	400R-30-160-2T	2	30	25	160	50	14		
	400R-30-200-2T	2	30	25	200	50	14		
	400R-30-250-2T	2	30	25	250	50	14		
	400R-30-300-2T	2	30	25	300	50	14		
	400R-32-160-3T	3	32	32	160	60	14		
	400R-32-200-3T	3	32	32	200	60	14		
	400R-32-250-3T	3	32	32	250	60	14		
	400R-32-300-3T	3	32	32	300	60	14		
	400R-33-160-3T	3	33	32	160	60	14		
	400R-33-200-3T	3	33	32	200	60	14		
	400R-35-160-3T	3	35	32	160	60	14		
	400R-35-200-3T	3	35	32	200	60	14		
	400R-35-250-3T	3	35	32	250	60	14		
	400R-35-300-3T	3	35	32	300	60	14		
	400R-35-350-3T	3	35	32	350	60	14		
	400R-35-400-3T	3	35	32	400	60	14		





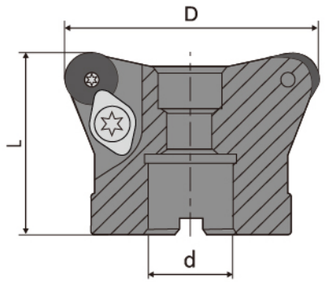
Model		Amount of Teeth	Dimension					Adaptive Insert	Pictures of Inserts
			D	d	L	L1	a		
SKS	C25-25-140-2T	2	25	25	140	60	1.5	WDMT 06T320ZER	
	C25-25-200-2T	2	25	25	200	70	1.5	WDMT 06T320ZER	
	C25-26-140-2T	2	26	25	140	60	1.5	WDMT 06T320ZER	
	C25-26-200-2T	2	26	25	200	60	1.5	WDMT 06T320ZER	
	C32-30-160-2T	2	30	32	160	70	1.5	WDMT 06T320ZER	
	C32-30-200-2T	2	30	32	200	70	1.5	WDMT 06T320ZER	
	C32-32-160-3T	3	32	32	160	70	1.5	WDMT 06T320ZER	
	C32-32-200-3T	3	32	32	200	70	1.5	WDMT 06T320ZER	
	C32-33-160-3T	3	33	32	160	70	1.5	WDMT 06T320ZER	
	C32-33-200-3T	3	33	32	200	70	1.5	WDMT 06T320ZER	
	C32-32-160-2T	2	32	32	160	70	2	WDMT 080520ZER	
	C32-32-200-2T	2	32	32	200	120	2	WDMT 080520ZER	
	C32-33-160-2T	2	33	32	160	50	2	WDMT 080520ZER	
	C32-33-200-2T	2	33	32	200	50	2	WDMT 080520ZER	
	C32-40-200-3T	3	40	32	200	50	2	WDMT 080520ZER	
	C32-40-250-3T	3	40	32	250	50	2	WDMT 080520ZER	
	C42-40-200-3T	3	40	42	200	120	2	WDMT 080520ZER	
	C42-40-250-3T	3	40	42	250	130	2	WDMT 080520ZER	





Model		Amount of Teeth	Dimension					Adaptive Insert	Pictures of Inserts
			D	d	L	L1	a		
ASR	C16-16-120-2T	2	16	16	140	60	1.5	EPMT 0603TN	
	C16-16-160-2T	2	16	16	200	70	1.5	EPMT 0603TN	
	C16-17-120-2T	2	17	17	140	60	1.5	EPMT 0603TN	
	C16-17-160-2T	2	17	17	200	60	1.5	EPMT 0603TN	
	C20-20-120-2T	2	20	20	160	70	1.5	EPMT 0603TN	
	C20-20-160-2T	2	20	20	200	70	1.5	EPMT 0603TN	
	C20-21-160-2T	2	21	20	160	70	1.5	EPMT 0603TN	
	C25-25-160-3T	3	25	25	200	70	1.5	EPMT 0603TN	
	C25-25-200-3T	3	25	25	160	70	1.5	EPMT 0603TN	
	C25-26-200-3T	3	26	25	200	70	1.5	EPMT 0603TN	
	C32-32-160-4T	3	32	32	160	70	2	EPMT 0603TN	
	C32-32-200-4T	3	32	32	200	120	2	EPMT 0603TN	
	C32-33-160-4T	3	33	32	160	50	2	EPMT 0603TN	
	C32-33-200-4T	3	33	32	200	50	2	EPMT 0603TN	
	C32-35-200-4T	3	35	32	200	50	2	EPMT 0603TN	
	C32-40-160-4T	3	40	32	250	50	2	EPMT 0603TN	
	C32-40-200-4T	3	40	32	200	120	2	EPMT 0603TN	

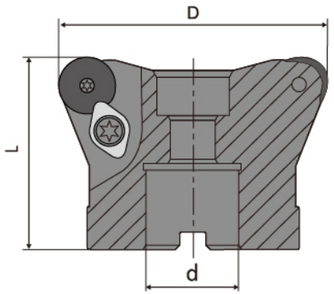






Model		Amount of Teeth	Dimension			Adaptive Insert	Pictures of Inserts
			D	d	L		
	5R-50-22-4T	3/4	50	22	50	RP..1003..	
	5R-63-22-4T	4/5	63	22	50		
	5R-63-25.4-4T	4	63	25. 4	50		
	5R-80-27-5T	5/6	80	27	50		
	5R-100-32-6T	6	100	32	50		
	5R-125-40-7T	7	125	40	50		
	5R-160-40-8T	8	160	40	50		
TERP	6R-50-22-4T	3/4	50	22	42	RP..1204..	
	6R-50-25.4-4T	4	50	25. 4	50		
	6R-63-22-4T	4/5	63	22	50		
	6R-63-25.4-4T	4/5	63	25. 4	50		
	6R-80-22-4T	4/5	80	22	42		
	6R-100-32-6T	6/8	100	32	50		
	6R-125-40-6T	6/7	125	40	50		
	6R-160-40-8T	8/9	160	40	50		
	6R-200-40-9T	9	200	40	50		
	6R-200-60-9T	9	200	60	50		
	6R-250-40-12T	12	250	40	50		

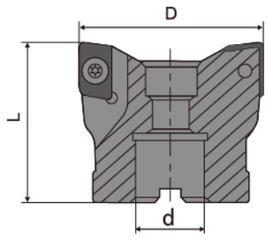


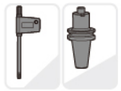




Model		Amount of Teeth	Dimension			Adaptive Insert	Pictures of Inserts
			D	d	L		
	5R-40-22-4T	3/4	50	22	50	RD..10T3..	
	5R-63-22-4T	4/5	63	22	50		
	5R-80-27-6T	6	80	27	50		
	5R-100-32-6T	6	100	32	50		
TERD	6R-50-22-4T	3/4	50	22	50	RD..1204..	
	6R-63-22-4T	4/5	63	22	50		
	6R-63-25.4-4T	4/5	63	25. 4	50		
	6R-80-27-6T	6	80	27	50		
	6R-100-32-6T	6	100	32	50		
	6R-125-40-6T	6	125	40	50		
	6R-160-40-6T	6	160	40	50		
	8R-63-22-4T	3/4	63	22	50	RD..1604..	
	8R-63-25.4-4T	4/5	63	25. 4	50		
	8R-80-25.4-5T	4/5	80	25. 4	50		
	8R-80-27-6T	6	80	27	50		
	8R-100-25.4-5T	5	100	25. 4	50		
	8R-100-32-6T	6	100	32	50		
	8R-125-40-6T	6	125	40	50		
	8R-160-40-8T	8	160	40	50		
	8R-200-60-9T	9	200	60	50		
	8R-250-60-10T	10	250	60	50		



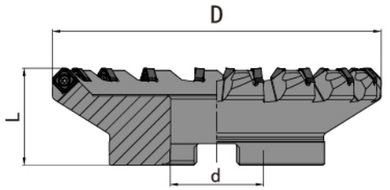


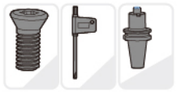


Model		Amount of Teeth	Dimension			Adaptive Insert	Pictures of Inserts
			D	d	L		
BAP300R	40-16-5T	5	40	16	42	AP..1135..	
	50-22-6T	6	50	22	50		
	63-22-7T	7	63	22	50		
BAP400R	50-22-4T	3/4	50	22	42	AP..1604..	
	50-25.4-4T	4	50	25. 4	50		
	63-22-4T	4	63	22	50		
	63-25.4-4T	4	63	25. 4	50		
	80-27-5T	5	80	27	50		
	100-31.75-6T	6	100	31. 75	50		
	100-32-6T	5/6	100	32	50		
	125-40-6T	6/7/8	125	40	63		
	160-40-8T	8/9	160	40	63		
	200-40-10T	10	200	40	63		
	200-60-9T	9	200	60	63		
	250-40-12T	12	250	40	63		
	250-60-10T	10	250	60	63		



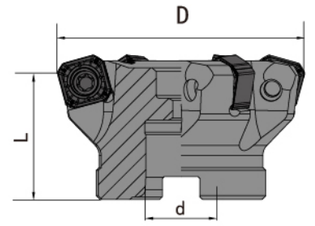






Model		Amount of Teeth	Dimension			Weight	Adaptive Insert	Pictures of Inserts
			D	d	L			
MT45SO	50-22R-12-4T	4	50	22	40	0. 3	SN..1305../ON..0505..	 
	63-22R-12-6T	6	63	22	40	0. 5	SN..1305../ON..0505..	
	80-27R-12-7T	6	80	27	50	1. 2	SN..1305../ON..0505..	
	80-27R-12-10T	10	80	32	50	1. 2	SN..1305../ON..0505..	
	100-32R-12-8T	8	100	32	50	1. 8	SN..1305../ON..0505..	
	100-32R-12-12T	12	100	32	50	1. 8	SN..1305../ON..0505..	
	125-40R-12-10T	10	125	40	63	3	SN..1305../ON..0505..	
	125-40R-12-16T	16	125	40	63	3	SN..1305../ON..0505..	
	160-40R-12-12T	12	160	40	63	4. 6	SN..1305../ON..0505..	
	200-60R-12-10T	10	200	60	63	6. 5	SN..1305../ON..0505..	
	200-60R-12-18T	18	200	60	63	6. 5	SN..1305../ON..0505..	
	250-60R-12-20T	20	250	60	63	10. 8	SN..1305../ON..0505..	
	250-60R-12-24T	24	250	60	63	10. 8	SN..1305../ON..0505..	
	315-60R-12-15T	15	315	60	63	18	SN..1305../ON..0505..	
	315-60R-12-22T	22	315	60	63	18	SN..1305../ON..0505..	

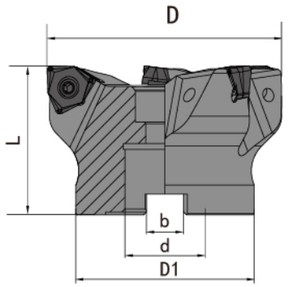






Model		Amount of Teeth	Dimension			Weight	Adaptive Insert	Pictures of Inserts
			D	d	L			
MT15SO	50-22R-12-4T	4	50	22	40	0. 3	SN..1305..	
	63-22R-12-6T	6	63	22	40	0. 5		
	80-27R-12-7T	7	80	27	50	1. 2		
	100-32R-12-8T	8	100	32	50	1. 2		
	125-40R-12-10T	10	120	40	63	1. 8		

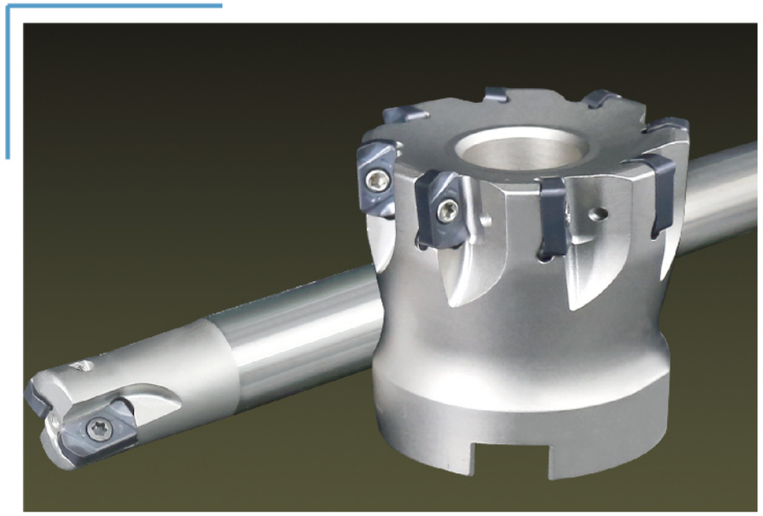






Model		Dimension						Plate Screw	Pictures of Inserts
		Flute	D	D1	d	L	b		
TFWN	90063R-3T	3	63	50	22	40	10. 4	T-20	
	90080R-4T	4	80	60	27	50	12. 4	T-20	
	90100R-5T	5	100	70	32	50	14. 4	T-20	
	90125R-6T	6	125	87	40	63	16. 4	T-20	
	30160R-8T	8	160	100	40	63	16. 4	T-20	
	90200R-10T	10	200	142	60	63	25. 7	T-20	
	90250R-12T	12	250	142	60	63	25. 7	T-20	





Dril cutting

TE1008

P	Micro-particals substrate with high wear resistance. Apply for steel,cast iron under stable processing condition.
K	

TE1019

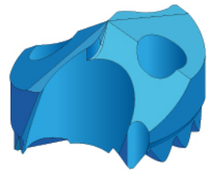
P	High universality,increased metal removal rate on application for high-temperature alloy milling. Apply for tool steels,hard steel,stainless steel, heat resistant steel,cast iron,boitium and titanium alloy. High wearing-resistance, high oxidation- resistance, superior hardness ,ensure high edge stability.
M	
S	
H	

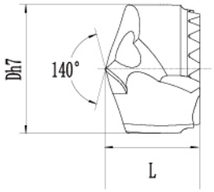
TE1028

P	super micro-particals substrate with high wear resistance and low friction coefficient coating. Apply for steel,stainless steel,high-temperature alloy under stable processing condition,superior property on stainless steel processing.
M	
S	
K	

TE1308

P	Common grade with universal coating.Widely apply for steel,stainless steel, cast iron. Good performance on wearing resistance and tipping resistance.
M	
K	





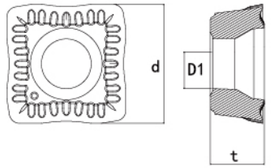


● SMDT Suitable for steel parts, stainless steel, and cast iron

Model	TE1008	TE1028	TE1308	TE5508	specifications			Knife body
					DC(mm)	LF	PL	
SMDT-1200		●			12.0	6.9	2.2	
SMDT-1250		●			12.5	7.1	2.3	
SMDT-1300		●			13.0	7.3	2.4	
SMDT-1350		●			13.5	7.8	2.5	
SMDT-1400		●			14.0	7.8	2.5	
SMDT-1450		●			14.5	7.8	2.6	
SMDT-1500		●			15.0	8.3	2.7	
SMDT-1550		●			15.5	8.3	2.8	
SMDT-1600		●			16.0	8.7	2.9	
SMDT-1650		●			16.5	8.7	3.0	
SMDT-1700		●			17.0	9.2	3.1	
SMDT-1750		●			17.5	9.2	3.2	
SMDT-1800		●			18.0	9.6	3.3	
SMDT-1850		●			18.5	9.6	3.4	
SMDT-1900		●			19.0	10.1	3.5	
SMDT-1950		●			19.5	10.1	3.5	
SMDT-2000		●			20.0	10.5	3.6	
SMDT-2050		●			20.5	10.5	3.7	
SMDT-2100		●			21.0	11.0	3.8	
SMDT-2150		●			21.5	11.0	3.9	
SMDT-2200		●			22.0	11.0	4.0	
SMDT-2250		●			22.5	11.0	4.1	
SMDT-2300		●			23.0	11.0	4.2	
SMDT-2350		●			23.5	11.0	4.3	
SMDT-2400		●			24.0	11.0	4.4	
SMDT-2450		●			24.5	11.0	4.5	
SMDT-2500		●			25.0	11.3	4.5	
SMDT-2550		●			25.5	11.3	4.6	
SMDT-2600		●			26.0	11.7	4.7	
SMDT-2650		●			26.5	11.7	4.8	
SMDT-2700		●			27.0	12.2	4.9	
SMDT-2750		●			27.5	12.2	5.0	
SMDT-2800		●			28.0	12.6	5.1	
SMDT-2850		●			28.5	12.6	5.2	
SMDT-2900		●			29.0	13.1	5.3	
SMDT-2950		●			29.5	13.1	5.4	
SMDT-3000		●			30.0	13.5	5.5	
SMDT-3050		●			30.5	13.5	5.6	
SMDT-3100		●			31.0	15.4	5.6	
SMDT-3150		●			31.5	15.3	5.7	
SMDT-3200		●			32.0	15.2	5.8	

● SMPT Suitable for general steel

Model	TE1008	TE1028	TE1308	TE5508	specifications			Knife body
					DC(mm)	LF	PL	
SMPT-1200		●			12.0	6.9	2.2	
SMPT-1250		●			12.5	7.1	2.3	
SMPT-1300		●			13.0	7.3	2.4	
SMPT-1350		●			13.5	7.8	2.5	
SMPT-1400		●			14.0	7.8	2.5	
SMPT-1450		●			14.5	7.8	2.6	
SMPT-1500		●			15.0	8.3	2.7	
SMPT-1550		●			15.5	8.3	2.8	
SMPT-1600		●			16.0	8.7	2.9	
SMPT-1650		●			16.5	8.7	3.0	
SMPT-1700		●			17.0	9.2	3.1	
SMPT-1750		●			17.5	9.2	3.2	
SMPT-1800		●			18.0	9.6	3.3	
SMPT-1850		●			18.5	9.6	3.4	
SMPT-1900		●			19.0	10.1	3.5	
SMPT-1950		●			19.5	10.1	3.5	
SMPT-2000		●			20.0	10.5	3.6	
SMPT-2050		●			20.5	10.5	3.7	
SMPT-2100		●			21.0	11.0	3.8	
SMPT-2150		●			21.5	11.0	3.9	
SMPT-2200		●			22.0	11.0	4.0	
SMPT-2250		●			22.5	11.0	4.1	
SMPT-2300		●			23.0	11.0	4.2	
SMPT-2350		●			23.5	11.0	4.3	
SMPT-2400		●			24.0	11.0	4.4	
SMPT-2450		●			24.5	11.0	4.5	
SMPT-2500		●			25.0	11.3	4.5	
SMPT-2550		●			25.5	11.3	4.6	
SMPT-2600		●			26.0	11.7	4.7	
SMPT-2650		●			26.5	11.7	4.8	
SMPT-2700		●			27.0	12.2	4.9	
SMPT-2750		●			27.5	12.2	5.0	
SMPT-2800		●			28.0	12.6	5.1	
SMPT-2850		●			28.5	12.6	5.2	
SMPT-2900		●			29.0	13.1	5.3	
SMPT-2950		●			29.5	13.1	5.4	
SMPT-3000		●			30.0	13.5	5.5	
SMPT-3050		●			30.5	13.5	5.6	
SMPT-3100		●			31.0	15.4	5.6	
SMPT-3150		●			31.5	15.3	5.7	
SMPT-3200		●			32.0	15.2	5.8	

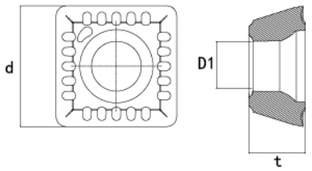


Machining Material						
	P	Steel	●	●	●	◐
	M	Stainless Steel	●	●	●	◐
	K	Cast Iron				◐
	S	High-temp Alloys	●	●	●	
	H	Hardened Material		●		

Working Condition
● Stable Cutting ◐ General Cutting ✠ Unstable Cutting

Insert Shape	ISO		Radius	PVD				Dimension			Cutting Data			
			R	TE1008	TE1019	TE1028	TE1308	d	t	D1	Fnmin	Fnmax	Vcmix	Vcmax
	SOMT	050204 QD	0. 4	●	○	●	●	4.90	2.38	2.25	0.06	0.15	60	200
		060204 QD	0. 4	●	○	●	●	5.70	2.38	2.60	0.06	0.15	60	200
		070306 QD	0. 6	●	○	●	●	6.80	2.80	2.60	0.06	0.15	06	200
		08T306 QD	0. 6	●	○	●	●	7.90	3.97	2.85	0.06	0.20	06	200
		09T308 QD	0. 8	●	○	●	●	9.20	3.97	3.80	0.06	0.20	06	200
		11T308 QD	0. 8	●	○	●	●	11.0	3.97	3.80	0.06	0.25	06	200
		130408 QD	0. 8	●	○	●	●	12.8	4.40	4.40	0.06	0.25	60	200
		150510 QD	1. 0	●	○	●	●	15.0	4.80	5.40	0.06	0.25	60	200

○ Generally Recommended ● Prior Recommended

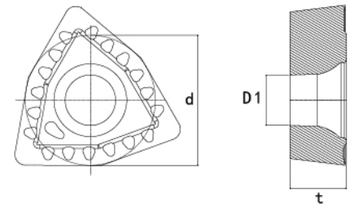


Machining Material						
	P	Steel	●	●	●	◐
	M	Stainless Steel	●	●	●	◐
	K	Cast Iron				◐
	S	High-temp Alloys	●	●	●	
	H	Hardened Material		●		

Working Condition
● Stable Cutting ◐ General Cutting ✠ Unstable Cutting

Insert Shape	ISO		Radius	PVD				Dimension			Cutting Data			
			R	TE1008	TE1019	TE1028	TE1308	d	t	D1	Fnmin	Fnmax	Vcmix	Vcmax
	SPMG	050204 QG	0. 4	●	○	●	●	5.00	2.38	2.25	0.06	0.15	60	200
		060204 QG	0. 4	●	○	●	●	6.00	2.38	2.61	0.06	0.15	60	200
		07T308 QG	0. 8	●	○	●	●	7.90	3.97	2.85	0.06	0.15	60	200
		090408 QG	0. 8	●	○	●	●	9.80	4.30	4.05	0.06	0.20	60	200
		110408 QG	0. 8	●	○	●	●	11.5	4.80	4.45	0.06	0.25	60	200
		140512 QG	1. 2	●	○	●	●	14.3	5.20	5.75	0.06	0.25	60	200

○ Generally Recommended ● Prior Recommended



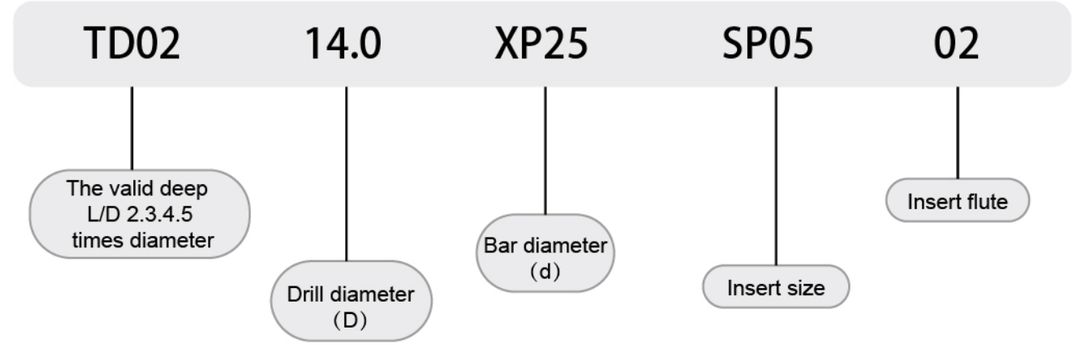
Machining Material						
	P	Steel	●	●	●	◐
	M	Stainless Steel	●	●	●	◐
	K	Cast Iron				◐
	S	High-temp Alloys	●	●	●	
	H	Hardened Material		●		

Working Condition
● Stable Cutting ◐ General Cutting ✠ Unstable Cutting

Insert Shape	ISO		Radius	PVD				Dimension			Cutting Data			
			R	TE1008	TE1019	TE1028	TE1308	d	t	D1	Fnmin	Fnmax	Vcmix	Vcmax
	WCMT	030208 TD	0. 8	●	○	●	●	4.90	2.38	2.25	0.10	0.15	60	200
		040208 TD	0. 8	●	○	●	●	5.70	2.38	2.60	0.10	0.15	60	200
		050308 TD	0. 8	●	○	●	●	6.80	2.80	2.60	0.10	0.15	60	200
		06T308 TD	0. 8	●	○	●	●	7.90	3.97	2.85	0.10	0.15	60	200
		080408 TD	0. 8	●	○	●	●	9.20	3.97	3.80	0.10	0.15	60	200
		080412 TD	1. 2	●	○	●	●	9.20	3.97	3.80	0.10	0.15	60	200

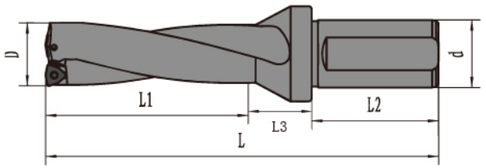
○ Generally Recommended ● Prior Recommended

Indexable milling insert naming rules





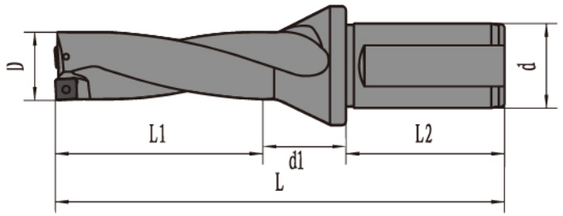
WC fast feed drill
（2D/3D/4D/5D）
notice:2-5D size stock



Model	Dimension						Screw of Inserts	Plate Screw	Pictures of Inserts
	D	L1	L	L2	d	L3			
TD02-14.0-XP25-WC03-02	14	28	106	56	25	22	M2.5*6.5	T8	WCMT030208
TD02-14.5-XP25-WC03-02	14.5	29	107	56	25	22			
TD02-15.0-XP25-WC03-02	15	30	108	56	25	22			
TD02-15.5-XP25-WC03-02	15.5	31	109	56	25	22			
TD02-16.0-XP25-WC03-02	16	32	110	56	25	22			
TD02-16.5-XP25-WC03-02	16.5	33	111	56	25	22			
TD02-17.0-XP25-WC03-02	17	34	112	56	25	22			
TD02-17.5-XP25-WC03-02	17.5	35	113	56	25	22			
TD02-18.0-XP25-WC03-02	18	36	114	56	25	22			
TD02-18.5-XP25-WC03-02	18.5	37	115	56	25	22			
TD02-19.0-XP25-WC03-02	19	38	116	56	25	22			
TD02-19.5-XP25-WC03-02	19.5	39	117	56	25	22			
TD02-20.0-XP25-WC03-02	20	40	119	56	25	22			
TD02-20.5-XP25-WC03-02	20.5	41	120	56	25	22			
TD02-21.0-XP25-WC04-02	21	42	121	56	25	22			WCMT040208
TD02-21.5-XP25-WC04-02	21.5	43	122	56	25	22			
TD02-22.0-XP25-WC04-02	22	44	123	56	25	22			
TD02-22.5-XP25-WC04-02	22.5	45	124	56	25	22			
TD02-23.0-XP25-WC04-02	23	46	125	56	25	22			
TD02-23.5-XP25-WC04-02	23.5	47	126	56	25	22			
TD02-24.0-XP25-WC04-02	24	48	127	56	25	22			
TD02-24.5-XP25-WC04-02	24.5	49	128	56	25	22			

Model	Dimension						Screw of Inserts	Plate Screw	Pictures of Inserts
	D	L1	L	L2	d	L3			
TD02-25.0-XP32-WC05-02	25	50	141	60	32	31	M3*7	T8	WCMT050308
TD02-25.5-XP32-WC05-02	25.5	51	142	60	32	31			
TD02-26.0-XP32-WC05-02	26	52	143	60	32	31			
TD02-26.5-XP32-WC05-02	26.5	53	144	60	32	31			
TD02-27.0-XP32-WC05-02	27	54	145	60	32	31			
TD02-27.5-XP32-WC05-02	27.5	55	146	60	32	31			
TD02-28.0-XP32-WC05-02	28	56	147	60	32	31			
TD02-28.5-XP32-WC05-02	28.5	57	148	60	32	31			
TD02-29.0-XP32-WC05-02	29	58	149	60	32	31			
TD02-29.5-XP32-WC05-02	29.5	59	150	60	32	31			
TD02-30.0-XP32-WC05-02	30	60	151	60	32	31			
TD02-30.5-XP32-WC05-02	30.5	61	152	60	32	31			
TD02-31.0-XP32-WC05-02	31	62	153	60	32	31			
TD02-31.5-XP32-WC05-02	31.5	63	154	60	32	31			
TD02-32.0-XP32-WC06-02	32	64	155	60	32	31	M3.5*8		WCMT06T308
TD02-32.5-XP32-WC06-02	32.5	65	156	60	32	31			
TD02-33.0-XP32-WC06-02	33	66	157	60	32	31			
TD02-33.5-XP32-WC06-02	33.5	67	158	60	32	31			
TD02-34.0-XP32-WC06-02	34	68	159	60	32	31			
TD02-34.5-XP32-WC06-02	34.5	69	160	60	32	31			
TD02-35.0-XP32-WC06-02	35	70	161	60	32	31			
TD02-35.5-XP32-WC06-02	35.5	71	162	60	32	31			
TD02-36.0-XP32-WC06-02	36	72	163	60	32	31			
TD02-36.5-XP32-WC06-02	36.5	73	164	60	32	31			
TD02-37.0-XP32-WC06-02	37	74	165	60	32	31	M3.5*8	T15	WCMT06T308
TD02-37.5-XP32-WC06-02	37.5	75	166	60	32	31			
TD02-38.0-XP32-WC06-02	38	76	167	60	32	31			
TD02-38.5-XP32-WC06-02	38.5	77	168	60	32	31			
TD02-39.0-XP32-WC06-02	39	78	169	60	32	31			
TD02-39.5-XP32-WC06-02	39.5	79	170	60	32	31			
TD02-40.0-XP32-WC06-02	40	80	171	60	32	31			
TD02-41.0-XP32-WC06-02	41	82	173	60	32	31			
TD02-42.0-XP32-WC06-02	42	84	175	60	32	31			
TD02-43.0-XP40-WC08-02	43	86	186	65	40	35	M4*10		WCMT080412
TD02-44.0-XP40-WC08-02	44	88	188	65	40	35			
TD02-45.0-XP40-WC08-02	45	90	190	65	40	35			
TD02-46.0-XP40-WC08-02	46	92	192	65	40	35			
TD02-47.0-XP40-WC08-02	47	94	194	65	40	35			
TD02-48.0-XP40-WC08-02	48	96	196	65	40	35			
TD02-49.0-XP40-WC08-02	49	98	198	65	40	35			
TD02-50.0-XP40-WC08-02	50	100	200	65	40	35			
TD02-51.0-XP40-WC08-02	51	102	202	65	40	35			
TD02-52.0-XP40-WC08-02	52	104	204	65	40	35			
TD02-53.0-XP40-WC08-02	53	106	206	65	40	35			
TD02-54.0-XP40-WC08-02	54	108	208	65	40	35			
TD02-55.0-XP40-WC08-02	55	110	210	65	40	35			
TD02-56.0-XP40-WC08-02	56	112	212	65	40	35			
TD02-57.0-XP40-WC08-02	57	114	214	65	40	35			
TD02-58.0-XP40-WC06-04	58	116	216	65	40	35	M3.5*8		WCMT06T308
TD02-59.0-XP40-WC06-04	59	118	218	65	40	35			
TD02-60.0-XP40-WC06-04	60	120	220	65	40	35			





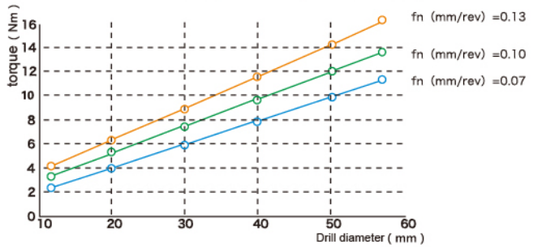
WC fast feed drill
（2D/3D/4D/5D）
notice:2-5D size stock

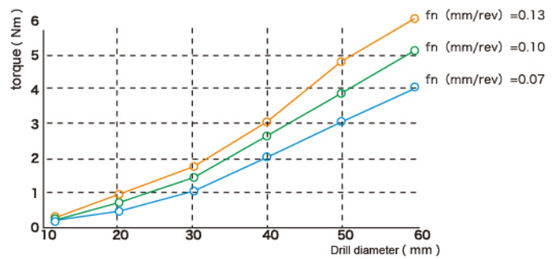
Model	Dimension						Screw of Inserts	Plate Screw	Pictures of Inserts
	D	L1	L	L2	d	d1			
TD02-13.0-XP25-SP05-02	13	26	104	56	25		M2*5	T6	SPMG050204
TD02-13.5-XP25-SP05-02	13. 5	27	105	56	25				
TD02-14.0-XP25-SP05-02	14	28	106	56	25				
TD02-14.5-XP25-SP05-02	14. 5	29	107	56	25				
TD02-15.0-XP25-SP05-02	15	30	108	56	25				
TD02-15.5-XP25-SP06-02	15. 5	31	109	56	25		M2. 2*5		SPMG060204
TD02-16.0-XP25-SP06-02	16	32	110	56	25				
TD02-16.5-XP25-SP06-02	16. 5	33	111	56	25				
TD02-17.0-XP25-SP06-02	17	34	112	56	25				
TD02-17.5-XP25-SP06-02	17. 5	35	113	56	25				
TD02-18.0-XP25-SP06-02	18	36	114	56	25				
TD02-18.5-XP25-SP06-02	18. 5	37	115	56	25				
TD02-19.0-XP25-SP06-02	19	38	116	56	25				
TD02-19.5-XP25-SP06-02	19. 5	39	117	56	25				
TD02-20.0-XP25-SP06-02	20	40	119	56	25				
TD02-20.5-XP25-SP06-02	20. 5	41	120	56	25				
TD02-21.0-XP25-SP06-02	21	42	121	56	25				
TD02-21.5-XP25-SP06-02	21. 5	43	122	56	25				
TD02-22.0-XP25-SP07-02	22	44	123	56	25		M2. 5*6	T8	SPMG07T308
TD02-22.5-XP25-SP07-02	22. 5	45	124	56	25				
TD02-23.0-XP25-SP07-02	23	46	125	56	25				
TD02-23.5-XP25-SP07-02	23. 5	47	126	56	25				
TD02-24.0-XP25-SP07-02	24	48	127	56	25				
TD02-24.5-XP25-SP07-02	24. 5	49	128	56	25				
TD02-25.0-XP32-SP07-02	25	50	141	60	32				
TD02-25.5-XP32-SP07-02	25. 5	51	142	60	32				
TD02-26.0-XP32-SP07-02	26	52	143	60	32				
TD02-26.5-XP32-SP07-02	26. 5	53	144	60	32				
TD02-27.0-XP32-SP07-02	27	54	145	60	32				
TD02-27.5-XP32-SP09-02	27. 5	55	146	60	32		M3. 5*8	T15	SPMG090408
TD02-28.0-XP32-SP09-02	28	56	147	60	32				
TD02-28.5-XP32-SP09-02	28. 5	57	148	60	32				
TD02-29.0-XP32-SP09-02	29	58	149	60	32				
TD02-29.5-XP32-SP09-02	29. 5	59	150	60	32				
TD02-30.0-XP32-SP09-02	30	60	151	60	32				
TD02-30.5-XP32-SP09-02	30. 5	61	152	60	32				
TD02-31.0-XP32-SP09-02	31	62	153	60	32				
TD02-31.5-XP32-SP09-02	31. 5	63	154	60	32				
TD02-32.0-XP32-SP09-02	32	64	155	60	32				
TD02-32.5-XP32-SP09-02	32. 5	65	156	60	32				
TD02-33.0-XP32-SP09-02	33	66	157	60	32				

Model	Dimension						Screw of Inserts	Plate Screw	Pictures of Inserts
	D	L1	L	L2	d	d1			
TD02-33.5-XP32-SP11-02	33. 5	67	158	60	32		M4*10	T15	SPMG110408
TD02-34.0-XP32-SP11-02	34	68	159	60	32				
TD02-34.5-XP32-SP11-02	34. 5	69	160	60	32				
TD02-35.0-XP32-SP11-02	35	70	161	60	32				
TD02-35.5-XP32-SP11-02	35. 5	71	162	60	32				
TD02-36.0-XP32-SP11-02	36	72	163	65	65				
TD02-36.5-XP32-SP11-02	36. 5	73	164	65	65				
TD02-37.0-XP32-SP11-02	37	74	165	65	65				
TD02-37.5-XP32-SP11-02	37. 5	75	166	65	65				
TD02-38.0-XP32-SP11-02	38	76	167	65	65				
TD02-38.5-XP32-SP11-02	38. 5	77	168	65	65				
TD02-39.0-XP32-SP11-02	39	78	169	65	65				
TD02-39.5-XP32-SP11-02	39. 5	79	170	65	65				
TD02-40.0-XP32-SP11-02	40	80	171	65	65				
TD02-41.0-XP32-SP14-02	41	82	173	65	65		M5*10	T20	SPMG140512
TD02-42.0-XP32-SP14-02	42	84	175	65	65				
TD02-43.0-XP40-SP14-02	43	86	186	65	40				
TD02-44.0-XP40-SP14-02	44	88	188	65	40				
TD02-45.0-XP40-SP14-02	45	90	190	65	40				
TD02-46.0-XP40-SP14-02	46	92	192	65	40				
TD02-47.0-XP40-SP14-02	47	94	194	65	40				
TD02-48.0-XP40-SP14-02	48	96	196	65	40				
TD02-49.0-XP40-SP14-02	49	98	198	65	40				
TD02-50.0-XP40-SP14-02	50	100	200	65	40				
TD02-51.0-XP40-SP14-02	51	102	202	65	40				
TD02-52.0-XP40-SP09-02	52	104	204	65	40		M3. 5*8	T15	SPMG090408
TD02-53.0-XP40-SP09-04	53	106	206	65	40				
TD02-54.0-XP40-SP09-04	54	108	208	65	40				
TD02-55.0-XP40-SP09-04	55	110	210	65	40				
TD02-56.0-XP40-SP09-04	56	112	212	65	40				
TD02-57.0-XP40-SP09-04	57	114	214	65	40				
TD02-58.0-XP40-SP09-04	58	116	216	65	40				
TD02-59.0-XP40-SP09-04	59	118	218	65	40				
TD02-60.0-XP40-SP09-04	60	120	220	65	40				

Processing power requried

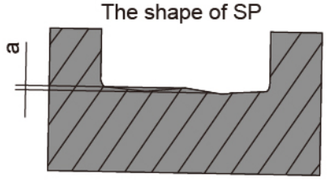
- Drill cutting cutting power below
- U-drill apply for high rigidity power machine





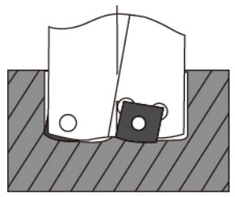
The bottom of blind hole specification

The shape of SP

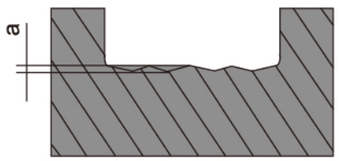


Insert size	Wave height a
SPMG050204	0.30mm
SPMG060304	0.40mm
SPMG07T308	0.50mm
SPMG090408	0.70mm
SPMG0110408	0.80mm
SPMG140512	0.90mm

Quadrangle shallow drill

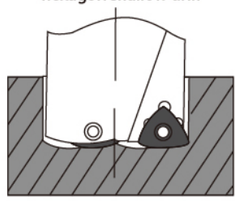


The shape of WC

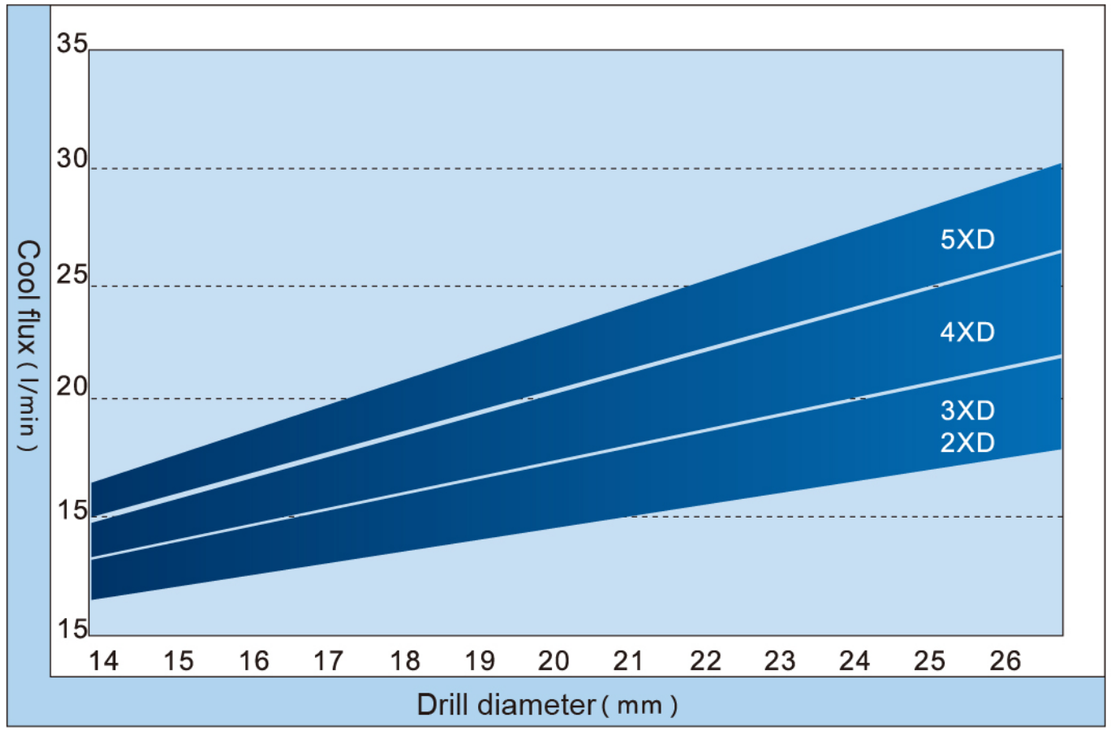


Insert size	Wave height a
WCMT030208	0.5mm
WCMT040208	0.6mm
WCMT050308	0.8mm
WCMT050308	0.95mm
WCMT080412	1.25mm

Equilateral but no equial angle hexagon shallow drill

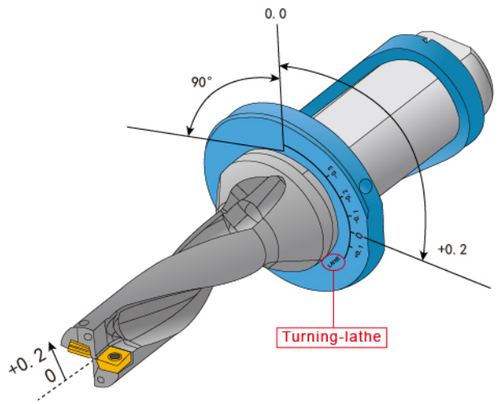


Cool flux

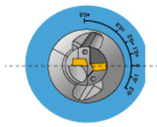


Turning-lathe:

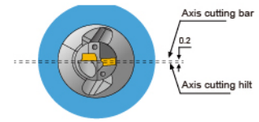
When turning-lathe working,eccentric locking collar could adjust drill towards axis on the straight line.



Eccentric locking collar can keep the drii go straight with axis within 0.2mm. (anticlockwise the eccentric locking collar can enlarge the diameter of hole)



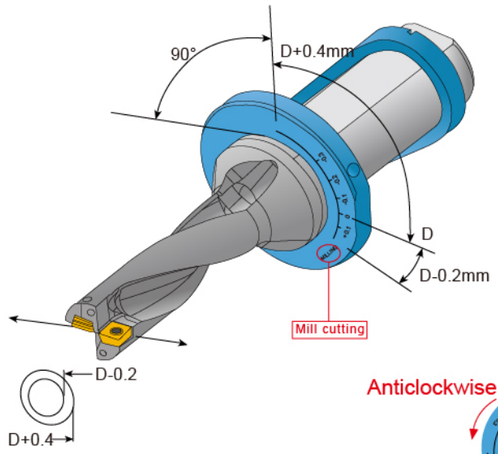
Normal diameterD cutting tools stand on the straight line with cutting hilt in axis



Normal diameterD+0.2

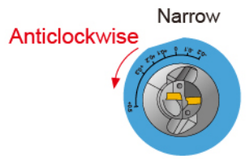
Mill cutting:

When at the milling machine processing ,if needs to change normal diameter of the hole we can adjust axial of eccentric bushing.



If extend hole diameter ,turn the eccentric bushing clockwise direction , if narrow hole diameter , turn the eccentric bushing anticlockwise

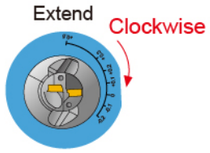
as follow :
dirll diameter 30mm



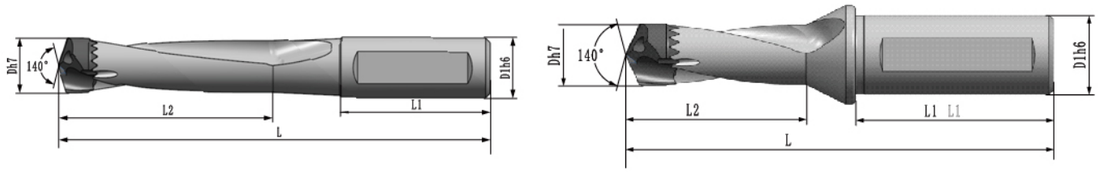
Hole diameter 2 9 . 8 m m



Hole diameter 3 0 m m

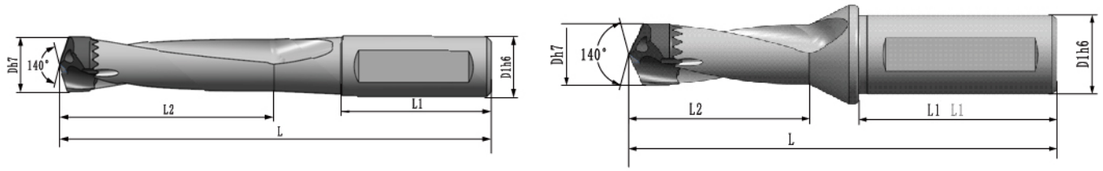


Hole diameter 3 0 . 4 m m



钻径 D		Model	L2	L		Model	L2	L	刀柄部可通用 Dimension L1	刀柄部可通用 Dimension D1	Screw of Inserts	Plate Screw
12.0≤D＜12.5	3D	TC03-120-XP16	46	107	1.5D	TC1.5-120-XP16	28	91	48	16	M2.2*8	T6
	5D	TC05-120-XP16	71	132	12D				48	16		
	8D											
12.5≤D＜13.0	3D	TC03-125-XP16	46	107	1.5D	TC1.5-125-XP16	28	91	48	16	M2.2*8	T6
	5D	TC05-125-XP16	71	132	12D				48	16		
	8D											
13.0≤D＜13.5	3D	TC03-130-XP16	49	112	1.5D	TC1.5-130-XP16	30	92	48	16	M2.2*8	T6
	5D	TC05-130-XP16	76	142	12D				48	16		
	8D											
13.5≤D≤14.5	3D	TC03-140-XP16	55	119	1.5D	TC1.5-140-XP16	34	96	48	16	M2.2*8	T6
	5D	TC05-140-XP16	84	149	12D	TC12-140-XP16	171	239	48	16		
	8D	TC08-140-XP16	127	194					48	16		
14.5＜D≤15.5	3D	TC03-150-XP20	58	129	1.5D	TC1.5-150-XP20	35	100	50	20	M2.2*8	T6
	5D	TC05-150-XP20	89	159	12D	TC12-150-XP20	183	239	50	20		
	8D	TC08-150-XP20	136	204								
15.5＜D≤16.5	3D	TC03-160-XP20	62	134	1.5D	TC1.5-160-XP20	38	103	50	20	M2.5*9	T8
	5D	TC05-160-XP20	95	169	12D	TC12-160-XP20	195	266	50	20		
	8D	TC08-160-XP20	144	214					50	20		
16.5＜D≤17.5	3D	TC03-170-XP20	66	140	1.5D	TC1.5-170-XP20	39	105	50	20	M2.5*9	T8
	5D	TC05-170-XP20	101	175	12D	TC12-170-XP20	207	278	50	20		
	8D	TC08-170-XP20	154	225					50	20		
17.5＜D≤18.5	3D	TC03-180-XP20	70	145	1.5D	TC1.5-180-XP20	43	107	50	20	M2.5*9	T8
	5D	TC05-180-XP20	107	180	12D	TC12-180-XP20	219	291	50	20		
	8D	TC08-180-XP20	162	230					50	20		
18.5＜D≤19.5	3D	TC03-190-XP25	73	160	1.5D	TC1.5-190-XP25	44	115	56	25	M3.0*11	T8
	5D	TC05-190-XP25	112	195	12D	TC12-190-XP25	232	309	56	25		
	8D	TC08-190-XP25	171	255					56	25		
19.5＜D≤20.5	3D	TC03-200-XP25	77	160	1.5D	TC1.5-200-XP25	47	118	56	25	M3.0*11	T8
	5D	TC05-200-XP25	118	200	12D	TC12-200-XP25	244	321	56	25		
	8D	TC08-200-XP25	179	270					56	25		
20.5＜D≤21.5	3D	TC03-210-XP25	80	160	1.5D	TC1.5-210-XP25	48	119	56	25	M3.0*11	T8
	5D	TC05-210-XP25	123	200	12D	TC12-210-XP25	256	334	56	25		
	8D	TC08-210-XP25	188	266					56	25		

备注：特殊尺寸可提供非标定制



钻径 D		Model	L2	L		Model	L2	L	刀柄部可通用 Dimension L1	刀柄部可通用 Dimension D1	Screw of Inserts	Plate Screw
21.5＜D≤22.8	3D	TC03-220-XP25	84	165	1.5D	TC1.5-220-XP25	51	121	56	25	M3.5*12	T15
	5D	TC05-220-XP25	129	205	12D	TC12-220-XP25	268	347	56	25		
	8D	TC08-220-XP25	196	275								
22.8＜D≤23.8	3D	TC03-230-XP25	87	165	1.5D	TC1.5-230-XP25	51	122	56	25		
	5D	TC05-230-XP25	134	215	12D	TC12-230-XP25	280	359	56	25		
	8D	TC08-230-XP25	205	285								
23.8＜D≤24.8	3D	TC03-240-XP32	91	175	1.5D	TC1.5-240-XP32	30	92	60	32		
	5D	TC05-240-XP32	140	225	12D	TC12-240-XP32	292	376	60	32		
	8D	TC08-240-XP32	213	300								
24.8＜D≤25.8	3D	TC03-250-XP32	93	175	1.5D	TC1.5-250-XP32	54	129	60	32	M4.0*14	T15
	5D	TC05-250-XP32	145	230	12D	TC12-250-XP32	305	388	60	32		
	8D	TC08-250-XP32	222	305					60	32		
25.8＜D≤26.8	3D	TC03-260-XP32	97	180	1.5D	TC1.5-260-XP32	57	132	60	32		
	5D	TC05-260-XP32	151	235	12D				60	32		
	8D	TC08-260-XP32	230	315					60	32		
26.8＜D≤27.8	3D	TC03-270-XP32	99	180	1.5D	TC1.5-270-XP32	58	133	60	32	M4.5*15	T15
	5D	TC05-270-XP32	156	240	12D				60	32		
	8D	TC08-270-XP32	239	325					60	32		
27.8＜D≤28.8	3D	TC03-280-XP32	102	185	1.5D	TC1.5-280-XP32	60	135	60	32		
	5D	TC05-280-XP32	162	245	12D				60	32		
	8D	TC08-280-XP32	247	330					60	32		
28.8＜D≤29.8	3D	TC03-290-XP32	105	190	1.5D	TC1.5-290-XP32	61	136	60	32		
	5D	TC05-290-XP32	167	250	12D				60	32		
	8D	TC08-290-XP32	256	340					60	32		
29.8＜D≤30.8	3D	TC03-300-XP32	110	191	1.5D	TC1.5-300-XP32	64	139	60	32		
	5D	TC05-300-XP32	173	261	12D				60	32		
	8D	TC08-300-XP32	265	351					60	32		
30.8＜D≤32.0	3D	TC03-320-XP32	116	201	1.5D				60	32		
	5D	TC05-320-XP32	181	266	12D				60	32		
	8D	TC08-320-XP32	276	361					60	32		

备注：特殊尺寸可提供非标定制

Parting and grooving

TE1008

P
M
S
K

Micro-particals substrate with high wear resistance. Apply for steel,stainless steel, high-temperature alloy under stable processing condition.

TE1019

P
M
S
H

increased metal removal rate on application for high-temperature alloy milling. Apply for tool steels,hard steel,stainless steel,heat resistant steel,cast iron,boitium and titanium alloy. High wearing-resistance,high oxidation- resistance, superior hardness , ensure high edge stability.

TE1308

P
M
S
K

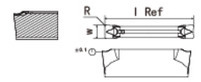
Common grade with universal coating.Widely apply for steel,stainless steel, high-temperature alloy,cast iron. Good performance on wearing resistance and tipping resistance.

TE6508

P
M
S

Super toughness substrate,designed for high- interrupted cutting and tough processing condition.Apply for carbon steel,die steel,austenitic stainless steel,cast iron. Excellent tipping resistence.

MGMN CG —Double-ended Groove-turn Inserts

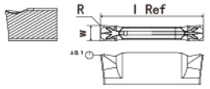


Machining Material							
	P	Steel	●	●	◐		Working Condition
	M	Stainless Steel	●	●	◐		
	K	Cast Iron			◐	◐	
	S	High-temp Alloys	●	●			● Stable Cutting ◐ General Cutting ✱ Unstable Cutting
	H	Hardened Material		●			

Insert Shape	ISO		PVD TE1008	PVD TE1019	PVD TE1308	PVD TE5508	Dimension W	Dimension R	Dimension L	Cutting Data fmin	Cutting Data fmax
	MGMN	1505 CG	●	○	○	○	1.5	0.15	16.0	0.15	0.20
		2002 CG	●	○	○	○	2.0	0.20	16.0	0.15	0.20
		2505 CG	●	○	○	○	2.5	0.20	18.5	0.15	0.24
		3004 CG	●	○	○	○	3.0	0.40	21.0	0.15	0.24
		4004 CG	●	○	○	○	4.0	0.40	21.0	0.15	0.24
		5008 CG	●	○	○	○	5.0	0.80	26.0	0.15	0.24
		6008 CG	●	○	○	○	6.0	0.80	26.0	0.05	0.32

○ Generally Recommended ● Prior Recommended

MGMN JM—Double-ended Groove-turn Inserts

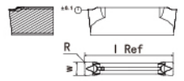


Machining Material							
	P	Steel	●	●	◐		Working Condition
	M	Stainless Steel	●	●	◐		
	K	Cast Iron			◐	◐	
	S	High-temp Alloys	●	●			● Stable Cutting ◐ General Cutting ✱ Unstable Cutting
	H	Hardened Material		●			

Insert Shape	ISO		PVD TE1008	PVD TE1019	PVD TE1308	PVD TE5508	Dimension W	Dimension R	Dimension L	Cutting Data fmin	Cutting Data fmax
	MGMN	1505 JM	●	○	○	○	1.5	0.15	16.0	0.15	0.20
		2002 JM	●	○	○	○	2.0	0.20	16.0	0.03	0.10
		2502 JM	●	○	○	○	2.5	0.20	18.5	0.04	0.10
		3004 JM	●	○	○	○	3.0	0.40	21.0	0.04	0.13
		4004 JM	●	○	○	○	4.0	0.40	21.0	0.05	0.15
		5008 JM	●	○	○	○	5.0	0.80	26.0	0.05	0.16
		6008 JM	●	○	○	○	6.0	0.80	26.0	0.05	0.32

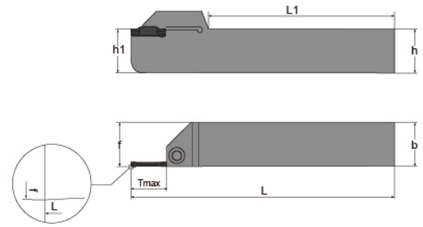
○ Generally Recommended ● Prior Recommended

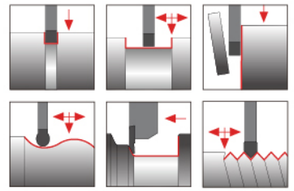
TDCG JS-Double-ended Groove-turn Inserts



Machining Material							
	P	Steel	●	●	◐		Working Condition
	M	Stainless Steel	●	●	◐		
	K	Cast Iron			◐	◐	
	S	High-temp Alloys	●	●			● Stable Cutting ◐ General Cutting ✱ Unstable Cutting
	H	Hardened Material		●			

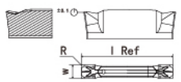
Insert Shape	ISO		PVD				Dimension	W	W±tolerance	R	T_{max-r}	$lRef_o$	Cutting Data	
			TE1008	TE1019	TE1308	TE5508							fmin	fmax
	TDCG	1502N JS	●	○	○	○	1502	1.5	0.03	0.2	18	20.9	0.03	0.10
		2002N JS	●	○	○	○	2002	2.0	0.03	0.2	18	19.8	0.04	0.10
		3002N JS	●	○	○	○	3002	3.0	0.04	0.2	-	20.1	0.04	0.13
		4003N JS	●	○	○	○	4003	4.0	0.04	0.3	-	18.8	0.05	0.15
		5003N JS	●	○	○	○	5003	5.0	0.04	0.3	-	19.1	0.05	0.16
		6003N JS	●	○	○	○	6003	6.0	0.04	0.3	-	19.1	0.05	0.32





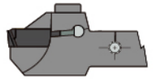
Model of Holder		Dimension						Screw	Wrench	Adaptive Inserts
		h	b	L	L1	F	T_{MAX}			
TDTR/L	1616-2	16	16	100	68	16.1	12	NLJ0520	L4.0	TD..2
	2020-2	20	20	125	93	20.1	12	NLJ0520	L4.0	
	2525-2	25	25	150	118	25.1	12	NLJ0520	L4.0	
	1616-3	16	16	100	67	16.3	12	NLJ0520	L4.0	TD..3
	2020-3	20	20	125	92	20.3	12	NLJ0520	L4.0	
	2525-3	25	25	150	117	25.3	12	NLJ0520	L4.0	
	1616-4	16	16	100	66	16.5	15	NLJ0520	L4.0	TD..4
	2020-4	20	20	125	91	20.5	15	NLJ0520	L4.0	
	2525-4	25	25	150	116	25.5	15	NLJ0520	L4.0	
	2020-5	20	20	125	56	20.6	20	NLJ0520	L4.0	TD..5
	2525-5	25	25	150	111	25.6	20	NLJ0520	L4.0	

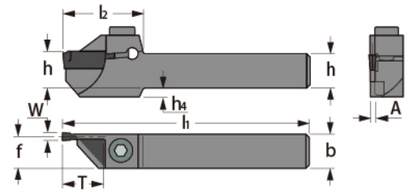
TDCG JS-Double-ended Groove-turn Inserts

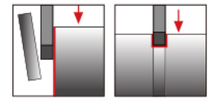


Machining Material							
	P	Steel	●	●	◐		Working Condition
	M	Stainless Steel	●	●	◐		
	K	Cast Iron			◐	◐	
	S	High-temp Alloys	●	●			● Stable Cutting ◐ General Cutting ✱ Unstable Cutting
	H	Hardened Material		●			

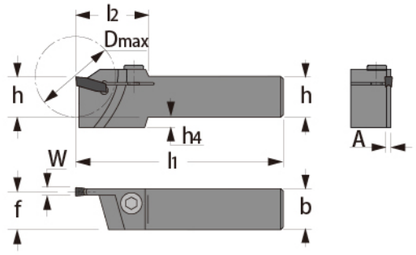
Insert Shape	ISO		PVD				Dimension	W	W±tolerance	R	T_{max-r}	$lRef_o$	Cutting Data	
			TE1008	TE1019	TE1308	TE5508							fmin	fmax
	TDCG	2002N CH	●	○	○	○	2202	2.0	0.03	0.2	18	19.9	0.05	0.13
		3002N CH	●	○	○	○	3002	3.0	0.04	0.2	18	20.1	0.10	0.20
		4003N CH	●	○	○	○	4002	4.0	0.04	0.3	-	18.8	0.10	0.24
		5003N CH	●	○	○	○	5003	5.0	0.04	0.3	-	19.1	0.12	0.28
		6003N CH	●	○	○	○	6002	6.0	0.04	0.3	-	19.1	0.15	0.32

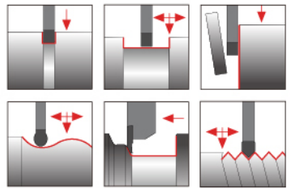




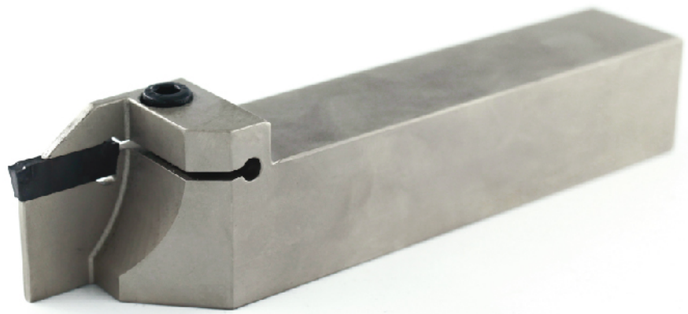


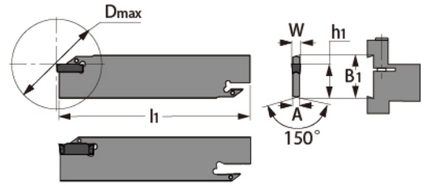
Model of Holder		Dimension							Adaptive Inserts
		W	h	b	A	l1	l2	h4	
DCTR/L	10B-2D30	2	10	10	1.6	140	29.6	6.6	TG..2
	12B-2D30	2	12	12	1.6	140	29.6	3.5	TG..2
	16B-2D30	2	16	16	1.6	140	30.6	/	TG..2
	20B-2D35	2	25	20	1.6	140	32.1	/	TG..2
	25B-2D35	2	25	25	1.6	140	32.1	/	TG..2
	12B-3D30	3	12	12	2.4	140	29.6	3.5	TG..3
	16B-3D35	3	16	16	2.4	140	32.1	2.6	TG..3
	20B-3D40	3	20	20	2.4	140	35.6	/	TG..3
	25B-3D40	3	25	25	2.4	140	35.6	/	TG..3

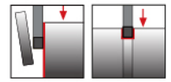




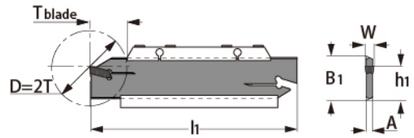
Model of Holder		Dimension								Adaptive Inserts	Wrench
		W	h	b	A	l1	l2	h4	Dmax		
TDGR/L	20-2	2	20	20	1.7	120	33	/	34	TDS..2	LM4.0
	25-2	2	25	25	1.7	140	33	/	34	TDS..2	LM4.0
	16-3	3	16	16	2.5	110	36	4	40	TDS..3	LM5.0
	16-3	3	16	16	2.4	78	33	4	34	TDS..3	LM5.0
	20-3	3	20	20	2.5	120	36	/	40	TDS..3	LM5.0
	25-3	3	25	25	2.5	140	36	/	40	TDS..3	LM5.0
	16-4	4	16	16	3.2	110	36	4	40	TDS..4	LM5.0
	20-4	4	20	20	3.5	120	36	/	40	TDS..4	LM5.0
	25-4	4	25	25	3.5	140	36	/	40	TDS..4	LM5.0
	25-4	4	25	25	3.5	140	41	/	50	TDS..4	LM5.0
	25-5	5	25	25	4.2	140	41	/	50	TDS..5	LM5.0
	32-5	5	32	32	4.2	150	41	/	50	TDS..5	LM5.0
	25-6	6	25	25	5.4	140	45	/	60	TDS..6	LM5.0
	32-6	6	32	32	5.4	170	50	/	64	TDS..6	LM5.0

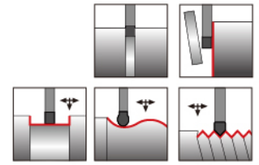






Model of Holder		Dimension						Adaptive Inserts
		W	A	B	l1	h1	Dmax	
GDFH	2 6-2	2	1.6	26	110	21.4	39	TD..2
	2 6-3	3	2.4	26	110	21.4	39	TD..3
	26C-3	3	2.4	26	110	21.4	39	TD..3
	2 6-4	4	3.2	26	110	21.4	80	TD..4
	32-1.4	4	2.5	32	150	24.8	26	TD..4
	3 2-2	2	1.8	32	150	24.8	39	TD..2
	3 2-3	3	2.4	32	150	24.8	39	TD..3
	32C-3	3	2.4	32	150	24.8	39	TD..3
	3 2-4	4	3.2	32	150	24.8	100	TD..4
	32C-4	4	3.2	32	150	24.8	69	TD..4
	3 2-5	5	4	32	150	24.8	120	TD..5
	3 2-6	6	5.2	32	150	24.8	120	TD..6
	4 5-3	3	2.4	45	225	38	160	TD..3
	4 5-4	4	3.2	45	225	38	160	TD..4
	4 5-5	5	4	45	225	38	160	TD..5
	4 5-6	6	5.2	45	225	38	160	TD..6





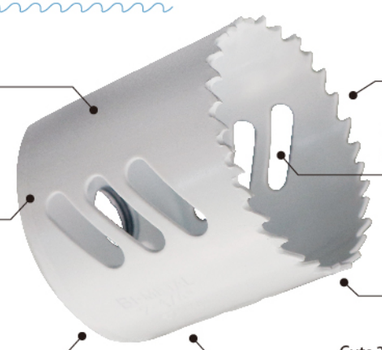
Model of Holder		Dimension						Adaptive Inserts
		W	A	B	l1	h1	Dmax	
GJFH	CGHN 26-3D	3	2.4	26	110	21.4	15.0	TDS..3
	CGHN 26-4D	4	3.2	26	110	21.4	15.0	TDS..4
	CGHN 26-5D	5	4.0	26	110	21.4	20.0	TDS..5
	CGHN 32-3D	3	2.4	26	110	21.4	19.0	TDS..3
	CGHN 32-4D	4	3.2	26	110	21.4	21.0	TDS..4
	CGHN 32-5D	5	4.0	32	150	24.8	26.0	TDS..5
	CGHN 32-6D	6	5.2	32	150	24.8	26.0	TDS..6

HOLE SAWS
开孔器





TYPE / ONE *Fleem Ground Tooth Hole Saws*



Bi-Metal [clamshell]

DIAMETER		ARTICLE#
INCHES	MM	M42
9/16"	14	91601
5/8"	16	91602
11/16"	17	91603
3/4"	19	91604
-	20	91605
13/16"	21	91606
7/8"	22	91607
29/32"	23	91667
15/16"	24	91608
1"	25	91609
1-1/16"	27	91610
1-7/64"	28	91668
1-1/8"	29	91611
1-3/16"	30	91612
1-1/4"	32	91613
1-5/11-	33	91614
13/32"	34	91669
1-3/8"	35	91615
1-7/16"	37	91616

DIAMETER		ARTICLE#
INCHES	MM	M42
1-1/2"	38	91617
1-9/16"	40	91618
1-5/8"	41	91619
1-21/32"	42	91670
1-11/16"	43	91620
1-3/4"	44	91621
-	45	91622
1-13/16"	46	91623
1-7/8"	48	91624
-	50	91625
2"	51	91626
2-1/16"	52	91627
2-1/8"	54	91628
2-11/64"	55	91629
2-3/16	56	91671
2-1/4"	57	91630
2-5/16"	59	91631
2-3/8"	60	91632
2-1/2"	64	91633

DIAMETER		ARTICLE#
INCHES	MM	M42
2-9/16"	65	91634
2-5/8"	67	91635
2-11/16"	68	91636
2-3/4"	70	91637
2-27/32"	72	91672
2-7/8"	73	91638
2-29/32"	74	91673
-	75	91639
3"	76	91640
3-1/8"	79	91641
3-9/64"	80	91674
3-1/4"	83	91642
3-25/32"	84	91675
3-3/8"	86	91643
3-1/2"	89	91644
3-5/8"	92	91645
3-3/4"	95	91646
3-7/8"	98	91647
-	100	91648

DIAMETER		ARTICLE#
INCHES	MM	M42
4"	102	91649
4-1/8"	105	91650
4-1/4"	108	91651
4-3/8"	111	91652
4-1/2"	114	91653
4-3/4"	121	91654
5"	127	91655
5-1/4"	133	91676
5-1/2"	140	91656
5-3/4"	146	91657
5-29/32"	150	91677
6"	152	91658
6"-5/16"	160	91659
--	162	91660
6-1/2	165	91661
6-5/8"	168	91662
6-31/32"	177	91663
7-9/32"	185	91664
7-7/8"	200	91665
8-9/32	210	91666

FEATURES

- High Speed cutting edge
- 4/6 Variabe tooth configuration
- 1 7/8"(48mm) Cutting depth
- 3/16"(5mm) thick heavy-duty backing plate eliminates need for drive plate
- Turtle back tooth design for heavy duty

ADVANTAGES

- Shock resistant teeth
- Resists tooth strippage
- Less vibration
- Cut 30% faster than conventional saws

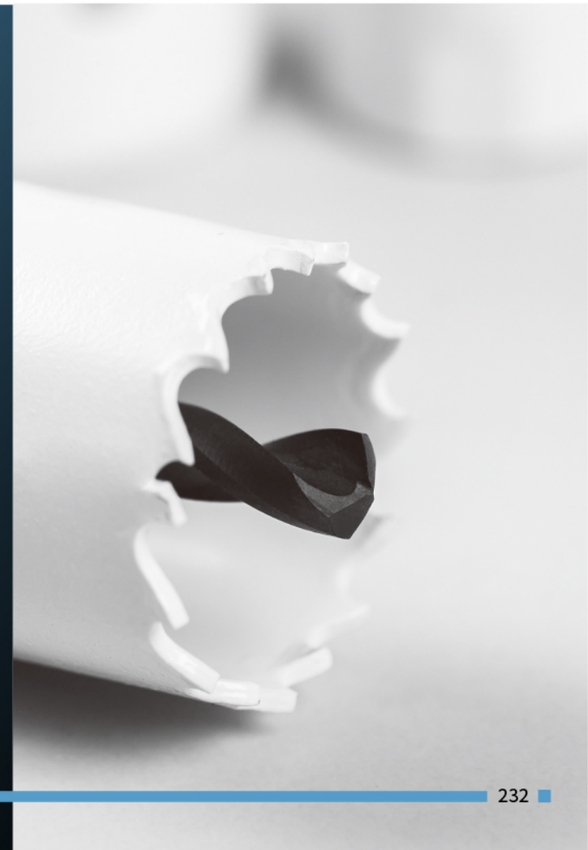
APPLICATION INFORMATION

- Creates holes for pipe, tubing installations, door lock installations, electrical conduit, hoses and antennas
- Ideal for plumbing, construction, aircraft, electrical, maintenance and automotive applications
- Use in steel, aluminum, brass, cast iron, plastic or wood

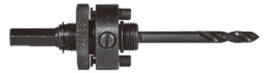
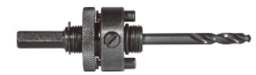
Kit Type	5/8" 16mm	3/4" 19mm	13/16" 21mm	7/8" 22mm	1" 25mm	1-1/8" 29mm	1-1/4" 32mm	1-3/8" 35mm	1-1/2" 38mm	1-9/16" 40mm	1-3/4" 44mm	2" 51mm	2-1/8" 54mm	2-1/4" 57mm	2-1/2" 64mm	3" 76mm	3-1/4" 83mm	3-5/8" 92mm	3-3/4" 95mm	4-1/8" 105mm	4-1/2" 114mm	ARTICLE#
Handyman's - 7 piece (includes 1 mandrel and 1 adaptor)																						
				✓	✓	✓	✓		✓													916K01
Locksmith's - 9 piece (includes 2 mandrels and 1 adaptor)																						
				✓	✓		✓		✓		✓		✓									916K02
Plumber's - 9 piece (includes 2 mandrels and 1 adaptor)																						
		✓		✓		✓			✓		✓			✓								916K03
Electrician's - 9 piece (includes 2 mandrels and 1 adaptor)																						
				✓		✓		✓			✓	✓			✓							916K04
Electrician's - metric - 9 piece (includes 2 mandrels and 1 adaptor)																						
	✓		✓		✓		✓			✓		✓										916K05
Journeyman's - 13 piece (includes 2 mandrels, 1 pilot hole drill, and 1 adaptor)																						
		✓		✓		✓		✓	✓		✓	✓		✓	✓							916K06
Industrial's - 20 piece (includes 2 mandrels, 1 adaptor,1 pilot drill and 12" extension)																						
		✓		✓		✓		✓	✓		✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	916K07



- Hole Saw Kits are available for cutting almost any matrial. Each kit consist of assorted hole saws and accessories that are specially designed for use in the electrical, plumbing, manufacturing ect.
- The standard kits have in them Bi-Metal 8% Cobalt hole saws of 4/6 variable pitch however these can be supplied in Bi-Metal M3 holesaw and in consitant pitch of 6 tpi and 10 tpi.



Accessories

Item no	Photo	Description	Screw thread	Suitable for
AI41SRN12		Round shank--6mm(1/4")	1/2"thread	14-30mm 9/16"-1-3/16" hole saw
AI41LHQ12		Hex shank--6mm(1/4")	1/2"thread	14-30mm 9/16"-1-3/16" hole saw
AI83SHN12		Hex shank--9mm(3/8")	1/2"thread	14-30mm 9/16"-1-3/16" hole saw
AI83LHQ12		Hex shank--9mm(3/8")	1/2"thread	14-30mm 9/16"-1-3/16" hole saw
AI83LHN12		Long Hex shank--9mm(3/8")	1/2"thread	14-30mm 9/16"-1-3/16"
AI167LHN12		Hex shank--11mm(7/16")	1/2"thread	14-30mm 9/16"-1-3/16"
AI83LHN12P		Hex shank with pin 3/8"	1/2"thread	14-30mm 9/16"-1-3/16"
AM83LHN12P		Hex shank with pin 9mm (metric)	1/2"thread	14-30mm 9/16"-1-3/16"
AI83LHQ12P		Hex shank with pin 3/8"	1/2"thread	14-30mm 9/16"-1-3/16"
AM83LHQ12P		Hex shank with pin 9mm (metric)	1/2"thread	14-30mm 9/16"-1-3/16"
AI167LHN58P		Hex shank with pin 11mm(7/16")	5/8"thread	32-152mm 1-1/4"-6"
AI167LHQ58P		Hex shank with pin 11mm(7/16")	5/8"thread	32-152mm 1-1/4"-6"
AI83SHN58		Hex shank--9mm(3/8")	5/8"thread	32-152mm 1-1/4"-6"
AI83LHN58		Long Hex shank--9mm(3/8")	5/8"thread	32-152mm 1-1/4"-6"
AMTS01		Adaptor	32 to 152mm(1 1/4"-6")	
AM83LHN12		Hex shank --9mm(metric)	1/2"thread	32-152mm 1-1/4"-6"

Accessories

Item no	Photo	Description	Screw thread	Suitable for
AM83LHN58		Hex shank --9mm(metric)	5/8"thread	32-152mm 1-1/4"-6"
AM83LHQ12		Hex shank --9mm(metric)	1/2"thread	14-30mm 9/16"-1-3/16"
DW475S		W4 75mm (3") weldon nothch pilot drill	135 angle	1/2" height hole saw
DW4102T		W4 102mm (4"x1/4") three flats pilot drill	135 angle	AI41SRN12 arbor use only
DM283S		M2 83mm (3-1/4"x 1/4") weldon nothch pilot drill	135 angle	general propose
DW483S		W4 83mm (3-1/4"x 1/4") weldon nothch pilot drill	135 angle	general propose
DW483L		W4 83mm (3-1/4"x 1/4") weldon nothch pilot drill	135 angle	general propose
DW485S		W4 85mm weldon nothch pilot drill	135 angle	general propose
DW489S		W4 89mm weldon nothch pilot drill	135 angle	general propose
DM289S		M2 89mm weldon nothch pilot drill	135 angle	general propose
DW4102S		W4 102mm weldon nothch pilot drill	135 angle	general propose
DW445S-5		W4 45mm x 0.5mm weldon nothch pilot drill	135 angle	HSS and TCT hole cutter use only
DW445S-6		W4 45mm x 0.6mm weldon nothch pilot drill	135 angle	HSS and TCT hole cutter use only

Tech Tips for Hole Saws

Recommended Operating Speeds for Hole Saws

- Guidelines on generally recommended operating speeds.
- Always follow the recommendations of the hole saw manufacturer concerning use and operating speeds.

Bi-Metal Hole Saw Operating Speeds (RPM Table)

inches	mm	length	mild steel	tool steel & stainless	cast iron	brass	aluminum	wood
9/16	14	0.147	580	300	400	790	900	3000
5/8	16	0.164	550	275	365	730	825	3000
11/16	17	0.180	500	250	330	665	750	3000
3/4	19	0.196	460	230	300	600	690	3000
-	20	0.213	440	220	290	580	660	3000
7/8	22	0.229	390	195	260	520	585	3000
1	25	0.262	350	175	235	470	525	2700
1-1/16	27	0.278	320	160	215	435	480	2700
1-1/8	29	0.295	300	150	200	400	450	2700
1-3/16	30	0.311	285	145	190	380	425	2400
1-1/4	32	0.327	275	140	180	360	410	2400
1-5/16	33	0.344	260	135	175	345	390	2400
1-3/8	35	0.360	250	125	165	330	375	2400
1-7/16	37	0.376	240	120	160	315	360	2400
1-1/2	38	0.393	230	115	150	300	345	2400
1-9/16	40	0.409	220	110	145	290	330	2100
1-5/8	41	0.425	210	105	140	280	315	2100
1-11/16	43	0.442	205	100	135	270	305	2100
1-3/4	44	0.458	195	95	130	260	295	2100
1-13/16	46	0.475	190	95	125	250	285	2100
1-7/8	48	0.491	180	90	120	240	270	2100
2	51	0.524	170	85	115	230	255	2000
2-1/16	52	0.540	165	80	110	220	245	2000
2-1/8	54	0.556	160	80	105	210	240	2000
2-1/4	57	0.589	150	75	100	200	225	2000
2-5/16	59	0.605	145	75	95	195	225	2000
2-3/8	60	0.622	140	70	90	190	220	2000
2-1/2	64	0.655	135	65	85	180	205	1850
2-9/16	65	0.671	130	65	85	175	200	1850
2-5/8	67	0.687	130	65	85	170	195	1800
-	68	0.704	130	65	80	170	190	1800
2-3/4	70	0.720	125	60	80	160	185	1800
2-7/8	73	0.753	120	60	75	160	180	1800
3	76	0.785	115	55	70	150	170	1800
3-1/8	79	0.818	110	55	70	140	165	1500
3-1/4	83	0.851	105	50	65	140	155	1500
3-3/8	86	0.884	100	50	65	130	150	1500
3-1/2	89	0.916	95	45	60	130	145	1200
3-5/8	92	0.949	90	45	60	120	140	1200
3-3/4	95	0.982	90	45	60	120	135	1200
3-7/8	98	1.014	90	45	60	120	135	1200
4	102	1.047	85	40	55	110	130	1000
4-1/8	105	1.080	80	40	55	110	120	1000
4-1/4	108	1.113	80	40	55	110	120	900
4-3/8	111	1.145	80	40	50	100	120	900
4-1/2	114	1.178	75	35	50	100	105	900
4-3/4	121	1.244	75	35	50	92	95	900
5	127	1.309	65	30	45	90	90	800
5-1/2	140	1.440	60	25	40	85	85	800
5-3/4	146	1.505	55	25	35	75	75	800
6	152	1.571	55	25	35	75	75	800

Hole Saw Operating Speeds (RPM Table)

inches	mm	brick ceramic	slate	reinforced plastics	fiberglass
5/8	16	620	1540	2140	920
3/4	19	510	1280	1790	770
-	20	470	1180	1660	715
7/8	22	430	1090	1530	660
1	25	380	960	1340	580
1-1/8	29	340	850	1190	510
1-1/4	32	310	770	1070	460
1-3/8	35	280	700	980	420
1-1/2	38	260	640	890	390
1-3/4	44	220	550	770	330
1-7/8	48	200	510	720	310
2	51	190	480	670	290
2-1/8	54	180	450	630	280
2-1/4	57	170	430	600	270
2-3/8	60	160	400	570	250
2-1/2	64	150	380	540	230
2-3/4	70	140	350	500	210
3	76	130	320	450	190
3-1/4	83	120	295	415	180
3-3/8	86	115	285	400	175
3-3/4	95	102	255	350	160
4	102	95	240	330	150
4-1/2	114	82	215	290	125



Hole Saw Size Reference Chart

diameter inch	diameter mm	pipe tap dia. inch	pipe tap dia. mm	pipe entrance dia inch	pipe entrance dia mm	order number M3	order number M42
9/16	14	-	-	-	-	91301	91601
5/8	16	-	-	-	-	91302	91602
11/16	17	-	-	-	-	91303	91603
3/4	19	1/2	13	3/8	10	91304	91604
-	20	-	-	-	-	91305	91605
13/16	21	-	-	-	-	91306	91606
7/8	22	3/4	19	1/2	13	91307	91607
15/16	24	-	-	-	-	91308	91608
1	25	-	-	-	-	91309	91609
1-1/16	27	-	-	-	-	91310	91610
1-1/8	29	1	25	3/4	19	91311	91611
1-3/16	30	-	-	-	-	91312	91612
1-1/4	32	-	-	-	-	91313	91613
1-5/16	33	-	-	-	-	91314	91614
1-3/8	35	-	-	1	25	91315	91615
1-7/16	37	-	-	-	-	91316	91616
1-1/2	38	1-1/4	32	-	-	91317	91617
1-9/16	40	-	-	-	-	91318	91618
1-5/8	41	-	-	-	-	91319	91619
1-11/16	43	-	-	-	-	91320	91620
1-3/4	44	1-1/2	38	1/2	38	91321	91621
-	45	-	-	-	-	91322	91622
1-13/16	46	-	-	-	-	91323	91623
1-7/8	48	-	-	-	-	91324	91624
-	50	-	-	-	-	91325	91625
2	51	-	-	1-1/2	38	91326	91626
2-1/16	52	-	-	-	-	91327	91627
2-1/8	54	-	-	-	-	91328	91628
-	55	-	-	-	-	91329	91629
2-1/4	57	2	51	-	-	91330	91630
2-5/16	59	-	-	-	-	91331	91631
2-3/8	60	-	-	-	-	91332	91632
2-1/2	64	-	-	2	51	91333	91633
2-9/16	65	-	-	-	-	91334	91634
2-5/8	67	2-1/2	64	-	-	91335	91635
-	68	-	-	-	-	91336	91636
2-3/4	70	-	-	-	-	91337	91637
2-7/8	73	-	-	-	-	91338	91638
-	75	-	-	-	-	91339	91639
3	76	-	-	2-1/2	64	91340	91640
3-1/8	79	-	-	-	-	91341	91641
3-1/4	83	3	76	-	-	91342	91642
3-3/8	86	-	-	-	-	91343	91643
3-1/2	89	-	-	-	-	91344	91644
3-5/8	92	-	-	3	76	91345	91645
3-3/4	95	3-1/2	89	-	-	91346	91646
3-7/8	98	-	-	-	-	91347	91647
-	100	-	-	-	-	91348	91648
4	102	-	-	-	-	91349	91649
4-1/8	105	-	-	3-1/2	89	91350	91650
4-1/4	108	4	102	-	-	91351	91651
4-3/8	111	-	-	-	-	91352	91652
4-1/2	114	-	-	-	-	91353	91653
4-3/4	121	4-1/2	114	4	102	91354	91654
5	127	-	-	-	-	91355	91655
5-1/2	140	-	-	5	127	91356	91656
5-3/4	146	-	-	-	-	91357	91657
6	152	-	-	-	-	91358	91658

Tech Tip

- Always wear eye protection.
- Always be sure that the pilot drill extends beyond the cutting edge of the saw by at least 1/8".
- Be sure to secure the material to be cut to keep it from spinning or slipping.
- Start the cutting process with the saw square to the material being cut, this will ensure that all teeth begin to cut at the same time and will help prevent premature wear and damage to the saw.
- Following the recommended operating speed for the saw size and the material being cut.
- Operator should feed the saw in and out to allow the material shavings to clear out of the hole being cut.
- Cutting oils or lubricants should be used to extend the life of the saw, except when cutting wood or cast iron.
- Occasionally check the mandrel's drive pins tobe sure they are still fully engaged in the saw and that they have not vibrated out of the drive holes in the saw.
- When sawing in wood, finish the hole from the opposite side to prevent splintering. Once the pilot drill has broken through the other side, you can use this hole to guarantee you are in line with where you have already started cutting.
- When sawing resistant and difficult to cut materials, drill a couple of small holes on the circumference to allow chip to clear.
- Keep an oil soaked sponge inside the hole saw if you:
  — Cannot lubricate in the normal way
  — Operate in stainless steel
  — Operate in a vertical position from above.

Tech Tip

Pipe and Tap Entrance

- Pipe taps are used for threading holes created by a hole saw to receive a threaded pipe. Reference the product charts for proper selection. To cut a hole for a 1" pipe tap, select a 1-1/8" hole saw.
- Pipe entrance is the diameter for the hole through which a pipe of a given diameter will pass during installation or repair.
- Pipe size is defined by the inside diameter. To cut a hole through which a 3/4" pipe may be passed, a 1-1/8" hole saw is used.
- Tubing size is defined by the outside diameter. To cut an entrance hole of a given tubing diameter, the same diameter hole saw should be used.

RECIPROCATING SAW BLADE
往复锯条





TYPE / ONE *Demolition Reciprocating Saw Blades*

- These saw blades are wider and thicker and have been engineered for heavy-duty applications
- Designed for tough, heavy duty cutting jobs and are built to last longer
- Make your mark with these demolition reciprocating saw blades.

6 TPI Wood

- Wider(7/8")and thicker(.062)blades for demolition work
- Available in 6" 9"and 12" lengths with 1/2" universal shanks



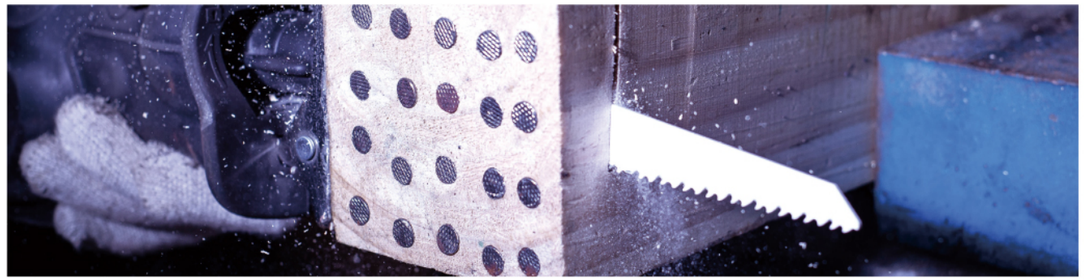
ARTICLE#	SIZE		TEETH PER INCH
	INCH	MM	
93101	6"*7/8"*.062"	150*22*1.60	6
93102	9"*7/8"*.062"	225*22*1.60	6
93103	12"*7/8"*.062"	300*22*1.60	6
93104	6"*7/8"*.062"	150*22*1.60	5/8
93105	9"*7/8"*.062"	225*22*1.60	5/8
93106	12"*7/8"*.062"	300*22*1.60	5/8
93107	6"*7/8"*.062"	150*22*1.60	10
93108	9"*7/8"*.062"	225*22*1.60	10
93109	12"*7/8"*.062"	300*22*1.60	10

14 TPI Metal

- Wider(1")and thicker(.042) blades for demolition work
- Available in 6" 9" and 12" lengths with 1/2"universal shanks



ARTICLE#	SIZE		TEETH PER INCH
	INCH	MM	
93204	6"*1"*.042"	150*25*1.10	10
93205	9"*1"*.042"	225*25*1.10	10
93206	12"*1"*.042"	300*25*1.10	10
93201	6"*1"*.042"	150*25*1.10	14
93202	9"*1"*.042"	225*25*1.10	14
93203	12"*1"*.042"	300*25*1.10	14
93207	6"*1"*.042"	150*25*1.10	18
93207	9"*1"*.042"	225*25*1.10	18
93207	12"*1"*.042"	300*25*1.10	18



TYPE / TWO *Pallet Reciprocating Saw Blades*

- M42 cutting edge with 8% cobalt for longer life
- Unique tooth design for fast cutting
- Special heat treat for increased tooth life
- Rounded nose for easy cutting and safe operation
- Special blade backer for greater flexibility when cutting block pallets





ARTICLE#	SIZE		TEETH PER INCH
	INCH	MM	
93301	8"*3/4"*.035"	200*19*0.90	10
JT93305	9"x3/4"x0.050"	225x19x1.3	10/14T

TYPE / THREE *Bi-Metal Reciprocating Saw Blades*

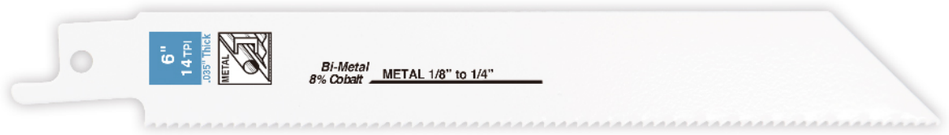
- These Reciprocating saw blades are designed for efficient cutting in a wide variety of materials including wood, metal and plastic
- All have the 1/2" universal shank that fits all standard 1/2" shank reciprocating saws
- Made for quick and accurate cutting

Wood Cutting



ARTICLE#	SIZE		TEETH PER INCH
	INCH	MM	
93406	6"x7/16".050"	150*11*1.30	6
93406	6"*3/4"*.035"	150*19*0.90	6
93401	6"*3/4"*.050"	150*19*1.30	5/7
93402	6"*3/4"*.050"	150*19*1.30	6
93403	6"*3/4"*.050"	150*19*1.30	10
93404	9"*3/4"*.050"	225*19*1.30	6
93405	12"*3/4"*.050"	300*19*1.30	6

Metal Cutting



ARTICLE#	SIZE		TEETH PER INCH
	INCH	MM	
93501	3"*5/16"*.035" scroll	75*8*0.90	14
93509	4"*3/4"*.035"	100*19*0.90	14
93509	4"*3/4"*.035"	100*19*0.90	18
93509	4"*3/4"*.035"	100*19*0.90	24
93509	6"*3/4"*.035"	150*19*0.90	10
93502	6"*3/4"*.035"	150*19*0.90	14
93504	6"*3/4"*.035"	150*19*0.90	18
93507	6"*3/4"*.035"	150*19*0.90	24
93505	8"*3/4"*.035"	200*19*0.90	18
93503	9"*3/4"*.035"	225*19*0.90	14
93508	9"*3/4"*.035"	225*19*0.90	18
93506	12"*3/4"*.035"	300*19*0.90	18

All-Purpose Cutting



ARTICLE#	SIZE		TEETH PER INCH
	INCH	MM	
93601	8"*3/4"*.035"	200*19*0.90	10/14
93604	8"*3/4"*.050"	200*19*1.30	10/14
93605	9"x3/4"x0.050" tapper	225x19x1.30 tapper	10/14
93602	12"*3/4"*.050"	300*19*1.30	10/14
93603	12"*3/4"*.050" taper	300*19*1.30	10/14

Plaster Cutting



ARTICLE#	SIZE		TEETH PER INCH
	INCH	MM	
93701	6"*3/4"*.050	150*19*1.30	6

Air Saw Blades

- Specially designed blades for use in pneumatic saws. Air Saw blades have fine teeth for cutting metal



ARTICLE#	SIZE		TEETH PER INCH
	INCH	MM	
93801	3"*1/2"*.025"	75*12.5*0.64	18
93802	3"*1/2"*.025"	75*12.5*0.64	24
93803	3"*1/2"*.025"	75*12.5*0.64	32
93804	4"*1/2"*.025"	100*12.580.64	18
93805	4"*1/2"*.025"	100*12.580.64	32
93806	5"*1/2"*.025"	125*12.5*0.64	18

Tech Tipe for Reciprocating Saw Blades

- First decide on the length of saw blade you need for your application. We recommend that the blade be about 2"(50mm) more than the thickness or width of the material to be cut, to take into account the blade travel.
- Then refer to the cutting guide for the cross section you plan to cut and select the tooth pitch.
- Always wear eye protection.



HACKSAW BLADES
手锯条



PALANTIR

TYPE / ONE *Bi-Metal Hacksaw Blades*

- Bi-Metal hacksaw blades for heavy duty cutting
  Blade is shatter resistant
- Cut medium gauge metals (1/16" to 1/4") such as sheet metal, angle iron, bolts, channels, drill rods, threaded rod, pipes and tubing



SIZE		TPI	ARTICLE#
INCH	MM		
10*1/2*.025	250*12.5*0.64	18	95101
10*1/2*.025	250*12.5*0.64	24	95102
10*1/2*.025	250*12.5*0.64	32	95103
12*1/2*.025	300*12.5*0.64	14	95104
12*1/2*.025	300*12.5*0.64	18	95105
12*1/2*.025	300*12.5*0.64	24	95106
12*1/2*.025	300*12.5*0.64	32	95107
12*1/2*.025	300*12.5*0.64	10/14	95108
12*1/2*.025	300*12.5*0.64	14/18	95109
12*1/2*.025	300*12.5*0.64	18/24	95110
12*1/2*.025	300*12.5*0.64	24/32	95111

TECH TIPS HACKSAW BLADE SELECTION

Bi-Metal Use on all types of materials. A highspeed steel cutting edge welded to a tough alloy steel back produces a blade with a long cutting life and high resistence to breaking

PALANTIR