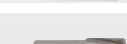
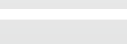
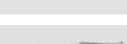
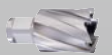


型号 Type	图例 Legend	产品名称 Product Name	页码 Page 公制 Metric	页码 Page 英制 Imperial
DNTC-		硬质合金通用柄钢板钻 TCT annular cutter with Universal shank	10-11	19-20
DNTX-		硬质合金直角柄钢板钻 T.C.T annular cutter with Weldon shank	12-13	21-22
DNTK-		硬质合金单孔直角柄钢板钻 T.C.T annular cutter with Weldon shank+1 additional hole	14	
DNTP-		硬质合金P型直角柄钢板钻 TCT annular cutter with weldon shank (Version P)	15-16	23
DNTJ-		硬质合金J型削平柄钢板钻 TCT annular cutter with parallel shank (Version J).	16	
DNTF-		硬质合金四孔柄钢板钻 T.C.T annular cutter with FEIN Quick-IN shank	17	
DNTL-		硬质合金螺纹柄钢板钻 T.C.T annular cutter with thread shank	18	
DNTG-		硬质合金三孔柄钢板钻 T.C.T annular cutter with quick change shank	18	
DNTC-T DNTX-T		硬质合金套装钢板钻 T.C.T annular cutter sets	24	
DNHC-		高速钢通用柄钢板钻 HSS-E annular cutter with universal shank	26-27	37-38
DNHX-		高速钢直角柄钢板钻 HSS-E annular cutter with weldon shank	28-29	39-40
DNHK-		高速钢单孔直角柄钢板钻 HSS-E annular cutter with weldon shank +1 additional hole	30	
DNHP-		高速钢P型直角柄钢板钻 HSS-E annular cutter with weldon shank (Version P)	31	
DNHF-		高速钢四孔柄钢板钻 HSS-E annular cutter with FEIN Quick-IN shank	32	
DNHL- DNHR-		高速钢螺纹柄钢板钻&R型柄钢板钻 HSS annular cutter with thread shank & round shank (version R)	33	
DAHK-		高性能高速钢钢板钻 HSS-E annular cutter (High performance version)	34	
DBHX-		实用型高速钢钢板钻 HSS-E annular cutter (Practical version)	35	
DBHK-		实用型高速钢钢板钻 HSS-E annular cutter (Practical version)	36	

型号 Type	图例 Legend	产品名称 Product Name	页码 Page 公制 Metric	页码 Page 英制 Imperial
DMHX-		高速钢小钢板钻 HSS-E mini-cutter	41	
DMFU-		高速钢U型螺纹柄 套装小钢板钻 HSS-E mini-cutter set with thread shank	42	
DNHC-T DNHX-T DNHK-T		高速钢套装钢板钻 HSS-E annular cutter sets	43	
DP-		顶针 Pilot pin	45-46	
DJ-		夹具 Arbor	47-48	
DZ-		转换接头 Hexagon screws	49-51	
HMTS-		硬质合金薄板孔钻 T.C.T. hole saw (Sheet metal)	53	
HMTI-		硬质合金六角柄薄板孔钻 T.C.T. hole saw (sheet metal) with hexagon shank	54	
HTTS-		硬质合金厚板孔钻 T.C.T. hole saw (Thick metal)	55-56	
I-SSA(H)S-		高速钢阶梯钻 (英制) HSS step drill (imperial size)	58-59	
SSA(H)S-		高速钢阶梯钻 HSS step drill	60-61	
SSH(A)S-T		高速钢 套装阶梯钻 HSS step drill set	61	
TCHX(Q)-		倒角刀 Countersink	62-63	
DRHX-		高速钢钢轨钻 HSS rail cutter	66	
DRAX-		高性能高速钢钢轨钻 High performance HSS rail cutter	66	
DRTX-		硬质合金钢轨钻 T.C.T. rail cutter	67	
SRHX(J)-		高速钢实心钢轨钻 HSS Solid rail cutter	68	
SKSY-		可转位钢轨钻 Rail cutter with exchangeable carbide tips	67	

● 钢板钻系列型号说明 Description of types of annular cutter ranges

D A H X - B 1500

D A H X - 2 1205

表示英制直径: 1-1/2"
Imperial diameter: 1-1/2"

表示直径: 120.5mm
Diameter: 120.5mm

型号 Model	类型 Type	性能 Performance	材质 Material	柄型 Shank	切深代码 Code of D.O.C.
DAHx-	D 钢板钻 Annular cutter	A 高性能 High-performance	H 高速钢类型 HSS	X 19.05直角柄 3/4" Weldon shank	代码 code 切削深度 Depth of cut 1 ≤10mm 2 25mm 3 35mm 4 50mm 5 75mm 6 100mm A ≤1/2" B 1" C 1-3/8" D 2" E 3" F 4" 切深代码为数字时后缀为公制直径 切深代码为字母时后缀为英制直径 ● Code of D.O.C. showed as digital are metric diameter ● Code of D.O.C. showed as letter are imperial diameter
DAHk-	D 钢板钻 Annular cutter	A 高性能 High-performance	H 高速钢类型 HSS	K 19.05带孔直角柄 3/4" weldon shank with holes	
DNHx-	D 钢板钻 Annular cutter	N 标准型 Standard	H 高速钢类型 HSS	X 19.05直角柄 3/4" weldon shank	
DNHk-	D 钢板钻 Annular cutter	N 标准型 Standard	H 高速钢类型 HSS	K 19.05带孔直角柄 3/4" weldon shank with holes	
DBHx-	D 钢板钻 Annular cutter	B 实用型 Benefit	H 高速钢类型 HSS	X 19.05直角柄 3/4" weldon shank	
DBHk-	D 钢板钻 Annular cutter	B 实用型 Benefit	H 高速钢类型 HSS	K 19.05带孔直角柄 3/4" weldon shank with holes	
DAHc-	D 钢板钻 Annular cutter	A 高性能 High-performance	H 高速钢类型 HSS	C 19.05通用柄 (3孔) 3/4" universal shank(3 holes)	
DNHf-	D 钢板钻 Annular cutter	N 标准型 Standard	H 高速钢类型 HSS	F 18 fein四孔柄 18 fein quick-in shank	
DNHl-	D 钢板钻 Annular cutter	N 标准型 Standard	H 高速钢类型 HSS	L M18*6/P1.5螺纹柄 M18*6/P1.5thread shank	
DNTx-	D 钢板钻 Annular cutter	N 标准型 Standard	T 硬质合金类型 TCT	X 19.05直角柄 3/4" weldon shank	
DNTk-	D 钢板钻 Annular cutter	N 标准型 Standard	T 硬质合金类型 TCT	K 19.05带孔直角柄 3/4" weldon shank with holes	
DNTc-	D 钢板钻 Annular cutter	N 标准型 Standard	T 硬质合金类型 TCT	C 19.05通用柄 (3孔) 3/4" universal shank(3 holes)	
DNTf-	D 钢板钻 Annular cutter	N 标准型 Standard	T 硬质合金类型 TCT	F 18 fein四孔柄 18 fein quick-in shank	
DNTl-	D 钢板钻 Annular cutter	N 标准型 Standard	T 硬质合金类型 TCT	L M18*6/P1.5螺纹柄 M18*6/P1.5 thread shank	
DNTp-	D 钢板钻 Annular cutter	N 标准型 Standard	T 硬质合金类型 TCT	P 31.75直角柄 1-1/4" weldon shank	
DNTj-	D 钢板钻 Annular cutter	N 标准型 Standard	T 硬质合金类型 TCT	J 31.75*60削平柄 1-1/4" *2-3/8" weldon shank	
DNTg-	D 钢板钻 Annular cutter	N 标准型 Standard	T 硬质合金类型 TCT	G 25mm快速柄 (3孔) 25mm quick change shank	
DP	DP 钢板钻附件—顶针 Annular cutter accessory—pilot				
DJ	DJ 钢板钻附件—夹具 Annular cutter accessory—arbor				
DZ	DZ 钢板钻附件—转换接头 Annular cutter accessory—adapter				



硬质合金钢板钻系列

(又名：空芯钻、取芯钻)

T.C.T. annular cutter range

(Also call core drills, hole cutters)

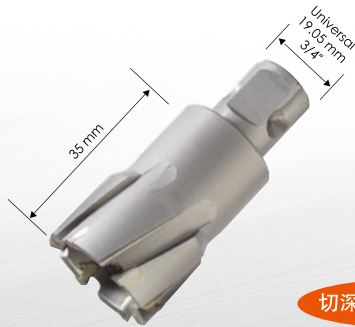


- 1、能适合较复杂的材质钻孔，可选择较高的切削速度;
- 2、精选钢板钻专用高性能合金刀片，有效减少崩刃与保持良好的耐磨性;
- 3、多层切削端刃几何，提高排屑性能与保持较小的切削阻力;
- 4、除常用的直角柄型外，备有多种柄型，适合多种钻机、钻床配用;
- 5、规格从 $\Phi 12\text{mm}$ ~ $\Phi 150\text{mm}$ ，切深35mm、50mm、75mm、100mm系列;
- 6、可订制 $\Phi 150\text{mm}$ ~ $\Phi 200\text{mm}$ 切深可扩大到200mm的特殊场合需求。

- 1、Suitable for cutting holes on various materials with high speed;
- 2、Selected special-purpose carbide tips for reduced damage of tips and better endurance;
- 3、Multi-cut geometry for increased chip removal and less resistance;
- 4、Various shank versions fit all magnetic drills and press;
- 5、Diameter from $\Phi 12$ ~ $\Phi 150\text{mm}$, Cutting depth: 35mm, 50mm, 75mm and 100mm;
- 6、Special dimensions $\Phi 150\text{mm}$ ~ $\Phi 200\text{mm}$ with 200mm D.O.C. are available.



硬质合金通用柄钢板钻 T.C.T. annular cutter with Universal shank



DNTC-3

切深 D.O.C. 35mm



DNTC-4

切深 D.O.C. 50mm

DNTC系列 Range

单位 Unit: mm

型号 Type	规格 Size	型号 Type	规格 Size
DNTC-30120	12*35	DNTC-30340	34*35
DNTC-30130	13*35	DNTC-30350	35*35
DNTC-30140	14*35	DNTC-30360	36*35
DNTC-30150	15*35	DNTC-30370	37*35
DNTC-30160	16*35	DNTC-30380	38*35
DNTC-30170	17*35	DNTC-30390	39*35
DNTC-30180	18*35	DNTC-30400	40*35
DNTC-30185	18.5*35	DNTC-30410	41*35
DNTC-30190	19*35	DNTC-30420	42*35
DNTC-30200	20*35	DNTC-30430	43*35
DNTC-30205	20.5*35	DNTC-30440	44*35
DNTC-30210	21*35	DNTC-30450	45*35
DNTC-30215	21.5*35	DNTC-30460	46*35
DNTC-30220	22*35	DNTC-30470	47*35
DNTC-30225	22.5*35	DNTC-30480	48*35
DNTC-30230	23*35	DNTC-30490	49*35
DNTC-30240	24*35	DNTC-30500	50*35
DNTC-30245	24.5*35	DNTC-30510	51*35
DNTC-30250	25*35	DNTC-30520	52*35
DNTC-30260	26*35	DNTC-30530	53*35
DNTC-30265	26.5*35	DNTC-30540	54*35
DNTC-30270	27*35	DNTC-30550	55*35
DNTC-30280	28*35	DNTC-30560	56*35
DNTC-30290	29*35	DNTC-30570	57*35
DNTC-30300	30*35	DNTC-30580	58*35
DNTC-30310	31*35	DNTC-30590	59*35
DNTC-30320	32*35	DNTC-30600	60*35
DNTC-30330	33*35		

注 英制规格详见第19页 Note: Imperial sizes on Page 19

- ◎通用柄型，适合各种钻机接口；
- ◎选用专用硬质合金刀片，分层切削及低摩擦力切削几何，减少刀片崩刃与改善排屑性能；
- ◎适合在多种磁座钻机、钻床等机械设备上进行钻孔与环形槽加工。

- ◎Universal shank for various magnetic drills;
- ◎Selected special-purpose carbide tips with multi-cut geometry for ply-cutting and lower friction. Reduced damage of tips and improved performance of chips removal;
- ◎Applicable to hole cutting and process of annular groove on various magnetic drills and press.

匹配的顶针 Suitable pins



型号 Type	规格 Size	配刀直径 Matching Cutter
DPB-62090	6.34/5.3*90	12mm~17mm
DPB-81090	7.98*90	≥18mm

单位 Unit: mm

型号 Model	规格 Size	型号 Model	规格 Size
DNTC-40120	12*50	DNTC-40340	34*50
DNTC-40130	13*50	DNTC-40350	35*50
DNTC-40140	14*50	DNTC-40360	36*50
DNTC-40150	15*50	DNTC-40370	37*50
DNTC-40160	16*50	DNTC-40380	38*50
DNTC-40170	17*50	DNTC-40390	39*50
DNTC-40180	18*50	DNTC-40400	40*50
DNTC-40185	18.5*50	DNTC-40410	41*50
DNTC-40190	19*50	DNTC-40420	42*50
DNTC-40200	20*50	DNTC-40430	43*50
DNTC-40205	20.5*50	DNTC-40440	44*50
DNTC-40210	21*50	DNTC-40450	45*50
DNTC-40215	21.5*50	DNTC-40460	46*50
DNTC-40220	22*50	DNTC-40470	47*50
DNTC-40225	22.5*50	DNTC-40480	48*50
DNTC-40230	23*50	DNTC-40490	49*50
DNTC-40240	24*50	DNTC-40500	50*50
DNTC-40245	24.5*50	DNTC-40510	51*50
DNTC-40250	25*50	DNTC-40520	52*50
DNTC-40260	26*50	DNTC-40530	53*50
DNTC-40265	26.5*50	DNTC-40540	54*50
DNTC-40270	27*50	DNTC-40550	55*50
DNTC-40280	28*50	DNTC-40560	56*50
DNTC-40290	29*50	DNTC-40570	57*50
DNTC-40300	30*50	DNTC-40580	58*50
DNTC-40310	31*50	DNTC-40590	59*50
DNTC-40320	32*50	DNTC-40600	60*50
DNTC-40330	33*50		

注 英制规格详见第19页 Note: Imperial sizes on Page 19

- ◎通用柄型，适合各种钻机接口；
- ◎选用专用硬质合金刀片，分层切削及低摩擦力切削几何，减少刀片崩刃与改善排屑性能；
- ◎适合在多种磁座钻机、钻床等机械设备上进行钻孔与环形槽加工。

- ◎Universal shank for various magnetic drills;
- ◎Selected special-purpose carbide tips with multi-cut geometry for ply-cutting and lower friction. Reduced damage of tips and improved performance of chips removal;
- ◎Applicable to hole cutting and process of annular groove on various magnetic drills and press.

匹配的顶针 Suitable pins



型号 Type	规格 Size	配刀直径 Matching Cutter
DPB-62106	6.34/5.3*106	12mm~17mm
DPB-81108	7.98*108	≥18mm

硬质合金通用柄钢板钻 T.C.T. annular cutter with universal shank

DNTC系列 Range



DNTC-5

切深 D.O.C. 75mm



DNTC-6

切深 D.O.C. 100mm

单位 Unit: mm

型号 Type	规格 Size	型号 Type	规格 Size
DNTC-50180	18*75	DNTC-50430	43*75
DNTC-50190	19*75	DNTC-50440	44*75
DNTC-50200	20*75	DNTC-50450	45*75
DNTC-50210	21*75	DNTC-50460	46*75
DNTC-50220	22*75	DNTC-50470	47*75
DNTC-50230	23*75	DNTC-50480	48*75
DNTC-50240	24*75	DNTC-50490	49*75
DNTC-50250	25*75	DNTC-50500	50*75
DNTC-50260	26*75	DNTC-50510	51*75
DNTC-50270	27*75	DNTC-50520	52*75
DNTC-50280	28*75	DNTC-50530	53*75
DNTC-50290	29*75	DNTC-50540	54*75
DNTC-50300	30*75	DNTC-50550	55*75
DNTC-50310	31*75	DNTC-50560	56*75
DNTC-50320	32*75	DNTC-50570	57*75
DNTC-50330	33*75	DNTC-50580	58*75
DNTC-50340	34*75	DNTC-50590	59*75
DNTC-50350	35*75	DNTC-50600	60*75
DNTC-50360	36*75		
DNTC-50370	37*75		
DNTC-50380	38*75		
DNTC-50390	39*75		
DNTC-50400	40*75		
DNTC-50410	41*75		
DNTC-50420	42*75		

注 英制规格详见第20页 Note: Imperial sizes on Page 20

- ◎通用柄型，适合各种钻机接口；
- ◎选用专用硬质合金刀片，分层切削与低摩擦力切削几何，减少刀片崩刃与改善排屑性能；
- ◎适合在多种磁座钻机、钻床等机械装备上进行钻孔或环形槽加工。

- ◎Universal shank for various magnetic drills;
- ◎Selected special-purpose carbide tips with multi-cut geometry for ply-cutting and lower friction. Reduced damage of tips and improved performance of chips removal;
- ◎Applicable to hole cutting and process of annular groove on various magnetic drills and press.

匹配的顶针 Matching pilot



型号 Model	规格 Size	配刀直径 Matching Cutter
DPB-81130	7.98*130	18mm~60mm
DPT-82130	7.98*130	18mm~60mm

单位 Unit: mm

型号 Type	规格 Size	型号 Type	规格 Size
DNTC-60180	18*100	DNTC-60430	43*100
DNTC-60190	19*100	DNTC-60440	44*100
DNTC-60200	20*100	DNTC-60450	45*100
DNTC-60210	21*100	DNTC-60460	46*100
DNTC-60220	22*100	DNTC-60470	47*100
DNTC-60230	23*100	DNTC-60480	48*100
DNTC-60240	24*100	DNTC-60490	49*100
DNTC-60250	25*100	DNTC-60500	50*100
DNTC-60260	26*100	DNTC-60510	51*100
DNTC-60270	27*100	DNTC-60520	52*100
DNTC-60280	28*100	DNTC-60530	53*100
DNTC-60290	29*100	DNTC-60540	54*100
DNTC-60300	30*100	DNTC-60550	55*100
DNTC-60310	31*100	DNTC-60560	56*100
DNTC-60320	32*100	DNTC-60570	57*100
DNTC-60330	33*100	DNTC-60580	58*100
DNTC-60340	34*100	DNTC-60590	59*100
DNTC-60350	35*100	DNTC-60600	60*100
DNTC-60360	36*100		
DNTC-60370	37*100		
DNTC-60380	38*100		
DNTC-60390	39*100		
DNTC-60400	40*100		
DNTC-60410	41*100		
DNTC-60420	42*100		

注 英制规格详见第20页 Note: Imperial sizes on Page 20

- ◎通用柄型，适合各种钻机接口；
- ◎选用专用硬质合金刀片，分层切削与低摩擦力切削几何，减少刀片崩刃与改善排屑性能；
- ◎适合在多种磁座钻机、钻床等机械装备上进行钻孔或环形槽加工。

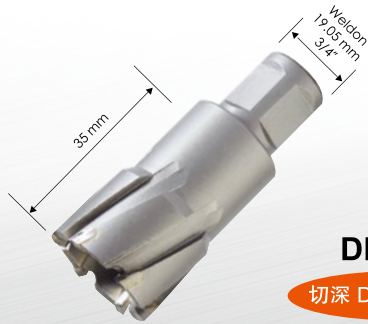
- ◎Universal shank for various magnetic drills;
- ◎Selected special-purpose carbide tips with multi-cut geometry for ply-cutting and lower friction. Reduced damage of tips and improved performance of chips removal;
- ◎Applicable to hole cutting and process of annular groove on various magnetic drills and press.

匹配的顶针 Matching pilot



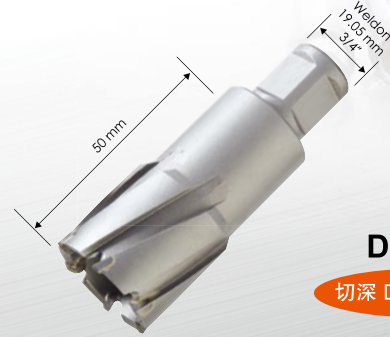
型号 Model	规格 Size	配刀直径 Matching Cutter
DPB-81160	7.98*160	18mm~60mm
DPT-82157	7.98*157	18mm~60mm

硬质合金直角柄钢板钻 T.C.T. annular cutter with Weldon shank



DNTX-3

切深 D.O.C. 35mm



DNTX-4

切深 D.O.C. 50mm

DNTX系列Range

单位 Unit: mm

型号 Model	规格 Size	型号 Model	规格 Size
DNTX-30120	12*35	DNTX-30340	34*35
DNTX-30130	13*35	DNTX-30350	35*35
DNTX-30140	14*35	DNTX-30360	36*35
DNTX-30150	15*35	DNTX-30370	37*35
DNTX-30160	16*35	DNTX-30380	38*35
DNTX-30170	17*35	DNTX-30390	39*35
DNTX-30180	18*35	DNTX-30400	40*35
DNTX-30185	18.5*35	DNTX-30410	41*35
DNTX-30190	19*35	DNTX-30420	42*35
DNTX-30200	20*35	DNTX-30430	43*35
DNTX-30205	20.5*35	DNTX-30440	44*35
DNTX-30210	21*35	DNTX-30450	45*35
DNTX-30215	21.5*35	DNTX-30460	46*35
DNTX-30220	22*35	DNTX-30470	47*35
DNTX-30225	22.5*35	DNTX-30480	48*35
DNTX-30230	23*35	DNTX-30490	49*35
DNTX-30240	24*35	DNTX-30500	50*35
DNTX-30245	24.5*35	DNTX-30510	51*35
DNTX-30250	25*35	DNTX-30520	52*35
DNTX-30260	26*35	DNTX-30530	53*35
DNTX-30265	26.5*35	DNTX-30540	54*35
DNTX-30270	27*35	DNTX-30550	55*35
DNTX-30280	28*35	DNTX-30560	56*35
DNTX-30290	29*35	DNTX-30570	57*35
DNTX-30300	30*35	DNTX-30580	58*35
DNTX-30310	31*35	DNTX-30590	59*35
DNTX-30320	32*35	DNTX-30600	60*35
DNTX-30330	33*35		

注 英制规格详见第21页 Note: Imperial sizes on Page 21

- ◎直角柄，有稳固的夹持力，更好的保证钻孔稳定性与钻孔精度；
- ◎专用硬质合金刀片，分层切削及低摩擦力切削几何，减少崩刃与改善排屑性能；
- ◎适合在欧霸、欧博、百德、锐科等国内外磁座钻机以及各类钻床、车床等机械设备上进行钻孔或环形槽加工。
- ◎Weldon shank, with more stable clamping for stable cutting and finish of holes;
- ◎Selected special-purpose carbide tips with multi-cut geometry for ply-cutting and lower friction. Reduced damage of tips and improved performance of chips removal;
- ◎Applicable to hole cutting and process of annular groove on various magnetic drills and press, like Alfa, Euroboor, BDS, Ruko.

匹配的顶针 Matching pilot



型号 Model	规格 Size	配刀直径 Matching Cutter
DPB-62090	6.34/5.3*90	12mm-17mm
DPB-81090	7.98*90	≥18mm

单位 Unit: mm

型号 Model	规格 Size	型号 Model	规格 Size
DNTX-40120	12*50	DNTX-40350	35*50
DNTX-40130	13*50	DNTX-40360	36*50
DNTX-40140	14*50	DNTX-40370	37*50
DNTX-40150	15*50	DNTX-40380	38*50
DNTX-40160	16*50	DNTX-40390	39*50
DNTX-40170	17*50	DNTX-40400	40*50
DNTX-40180	18*50	DNTX-40410	41*50
DNTX-40185	18.5*50	DNTX-40420	42*50
DNTX-40190	19*50	DNTX-40430	43*50
DNTX-40200	20*50	DNTX-40440	44*50
DNTX-40205	20.5*50	DNTX-40450	45*50
DNTX-40210	21*50	DNTX-40460	46*50
DNTX-40215	21.5*50	DNTX-40470	47*50
DNTX-40220	22*50	DNTX-40480	48*50
DNTX-40225	22.5*50	DNTX-40490	49*50
DNTX-40230	23*50	DNTX-40500	50*50
DNTX-40240	24*50	DNTX-40510	51*50
DNTX-40245	24.5*50	DNTX-40520	52*50
DNTX-40250	25*50	DNTX-40530	53*50
DNTX-40260	26*50	DNTX-40540	54*50
DNTX-40265	26.5*50	DNTX-40550	55*50
DNTX-40270	27*50	DNTX-40560	56*50
DNTX-40280	28*50	DNTX-40570	57*50
DNTX-40290	29*50	DNTX-40580	58*50
DNTX-40300	30*50	DNTX-40590	59*50
DNTX-40310	31*50	DNTX-40600	60*50
DNTX-40320	32*50		
DNTX-40330	33*50		
DNTX-40340	34*50		

直径60mm以上在第15页
Cutter size > Φ60mm on Page 13

注 英制规格详见第21页 Note: Imperial sizes on Page 21

- ◎直角柄，有稳固的夹持力，更好的保证钻孔稳定性与钻孔精度；
- ◎专用硬质合金刀片，分层切削及低摩擦力切削几何，减少崩刃与改善排屑性能；
- ◎适合在欧霸、欧博、百德、锐科等国内外磁座钻机以及各类钻床、车床等机械设备上进行钻孔或环形槽加工。
- ◎Weldon shank, with more stable clamping for stable cutting and finish of holes;
- ◎Selected special-purpose carbide tips with multi-cut geometry for ply-cutting and lower friction. Reduced damage of tips and improved performance of chips removal;
- ◎Applicable to hole cutting and process of annular groove on various magnetic drills and press, like Alfa, Euroboor, BDS, Ruko.

匹配的顶针 Matching pilot



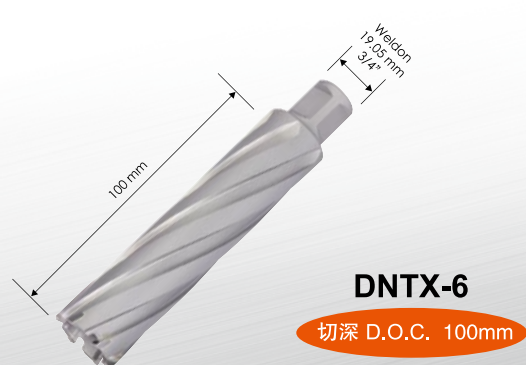
型号 Model	规格 Size	配刀直径 Matching Cutter
DPB-62106	6.34/5.3*106	12mm-17mm
DPB-81108	7.98*108	≥18mm

硬质合金直角柄钢板钻 T.C.T. annular cutter with Weldon shank



DNTX-5

切深 D.O.C. 75mm



DNTX-6

切深 D.O.C. 100mm

单位 Unit: mm

型号 Model	规格 Size	型号 Model	规格 Size
DNTX-50180	18*75	DNTX-50430	43*75
DNTX-50190	19*75	DNTX-50440	44*75
DNTX-50200	20*75	DNTX-50450	45*75
DNTX-50210	21*75	DNTX-50460	46*75
DNTX-50220	22*75	DNTX-50470	47*75
DNTX-50230	23*75	DNTX-50480	48*75
DNTX-50240	24*75	DNTX-50490	49*75
DNTX-50250	25*75	DNTX-50500	50*75
DNTX-50260	26*75	DNTX-50510	51*75
DNTX-50270	27*75	DNTX-50520	52*75
DNTX-50280	28*75	DNTX-50530	53*75
DNTX-50290	29*75	DNTX-50540	54*75
DNTX-50300	30*75	DNTX-50550	55*75
DNTX-50310	31*75	DNTX-50560	56*75
DNTX-50320	32*75	DNTX-50570	57*75
DNTX-50330	33*75	DNTX-50580	58*75
DNTX-50340	34*75	DNTX-50590	59*75
DNTX-50350	35*75	DNTX-50600	60*75
DNTX-50360	36*75		
DNTX-50370	37*75		
DNTX-50380	38*75		
DNTX-50390	39*75		
DNTX-50400	40*75		
DNTX-50410	41*75		
DNTX-50420	42*75		

直径60mm以上在第15页
Cutter size >Φ60mm on Page 15

注 英制规格详见第22页 Note: Imperial sizes on Page 22

- ◎直角柄，有稳固的夹持力，更好的保证钻孔稳定性与钻孔精度；
- ◎专用硬质合金刀片，分层切削及低摩擦力切削几何，减少崩刃与改善排屑性能；
- ◎适合在欧霸、获劲、祥喜、欧博、百德、锐科等国内外磁座钻机以及各类钻床、车床等机械设备上进行钻孔或环形槽加工。
- ◎Weldon shank, with more stable clamping for stable cutting and finish of holes;
- ◎Selected special-purpose carbide tips with multi-cut geometry for ply-cutting and lower friction. Reduced damage of tips and improved performance of chips removal;
- ◎Applicable to hole cutting and process of annular groove on various magnetic drills and press, like Alfa, Hougen, Jancy, Euroboor, BDS, Ruko.

匹配的顶针 Matching pilot



型号 Model	规格 Size	配刀直径 Matching Cutter
DPB-81130	7.98*130	18mm~60mm
DPT-82130	7.98*130	18mm~60mm

单位 Unit: mm

型号 Model	规格 Size	型号 Model	规格 Size
DNTX-60180	18*100	DNTX-60430	43*100
DNTX-60190	19*100	DNTX-60440	44*100
DNTX-60200	20*100	DNTX-60450	45*100
DNTX-60210	21*100	DNTX-60460	46*100
DNTX-60220	22*100	DNTX-60470	47*100
DNTX-60230	23*100	DNTX-60480	48*100
DNTX-60240	24*100	DNTX-60490	49*100
DNTX-60250	25*100	DNTX-60500	50*100
DNTX-60260	26*100	DNTX-60510	51*100
DNTX-60270	27*100	DNTX-60520	52*100
DNTX-60280	28*100	DNTX-60530	53*100
DNTX-60290	29*100	DNTX-60540	54*100
DNTX-60300	30*100	DNTX-60550	55*100
DNTX-60310	31*100	DNTX-60560	56*100
DNTX-60320	32*100	DNTX-60570	57*100
DNTX-60330	33*100	DNTX-60580	58*100
DNTX-60340	34*100	DNTX-60590	59*100
DNTX-60350	35*100	DNTX-60600	60*100
DNTX-60360	36*100		
DNTX-60370	37*100		
DNTX-60380	38*100		
DNTX-60390	39*100		
DNTX-60400	40*100		
DNTX-60410	41*100		
DNTX-60420	42*100		

直径60mm以上在第16页
Cutter size >Φ60mm on Page 16

注 英制规格详见第22页 Note: Imperial sizes on Page 22

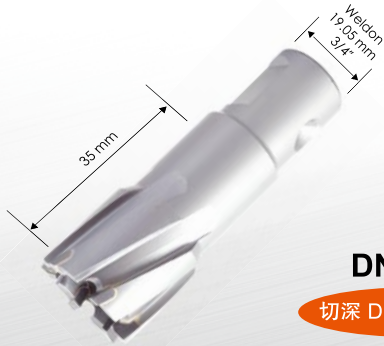
- ◎直角柄，有稳固的夹持力，更好的保证钻孔稳定性与钻孔精度；
- ◎专用硬质合金刀片，分层切削及低摩擦力切削几何，减少崩刃与改善排屑性能；
- ◎适合在欧霸、获劲、祥喜、欧博、百德、锐科等国内外磁座钻机以及各类钻床、车床等机械设备上进行钻孔或环形槽加工。
- ◎Weldon shank, with more stable clamping for stable cutting and finish of holes;
- ◎Selected special-purpose carbide tips with multi-cut geometry for ply-cutting and lower friction. Reduced damage of tips and improved performance of chips removal;
- ◎Applicable to hole cutting and process of annular groove on various magnetic drills and press, like Alfa, Hougen, Jancy, Euroboor, BDS, Ruko.

匹配的顶针 Matching pilot



型号 Model	规格 Size	配刀直径 Matching Cutter
DPB-81160	7.98*160	18mm~60mm
DPT-82157	7.98*157	18mm~60mm

硬质合金单孔直角柄钢板钻 T.C.T annular cutter with Weldon shank+1 additional hole



DNTK-3

切深 D.O.C. 35mm



DNTK-4

切深 D.O.C. 50mm

DNTK系列Range

单位 Unit: mm

型号 Model	规格 Size	型号 Model	规格 Size
DNTK-30120	12*35	DNTK-30340	34*35
DNTK-30130	13*35	DNTK-30350	35*35
DNTK-30140	14*35	DNTK-30360	36*35
DNTK-30150	15*35	DNTK-30370	37*35
DNTK-30160	16*35	DNTK-30380	38*35
DNTK-30170	17*35	DNTK-30390	39*35
DNTK-30180	18*35	DNTK-30400	40*35
DNTK-30185	18.5*35		
DNTK-30190	19*35		
DNTK-30200	20*35		
DNTK-30205	20.5*35		
DNTK-30210	21*35		
DNTK-30215	21.5*35		
DNTK-30220	22*35		
DNTK-30225	22.5*35		
DNTK-30230	23*35		
DNTK-30240	24*35		
DNTK-30245	24.5*35		
DNTK-30250	25*35		
DNTK-30260	26*35		
DNTK-30265	26.5*35		
DNTK-30270	27*35		
DNTK-30280	28*35		
DNTK-30290	29*35		
DNTK-30300	30*35		
DNTK-30310	31*35		
DNTK-30320	32*35		
DNTK-30330	33*35		

◎单孔直角柄型，有稳固的夹持力，更好的钻孔稳定性与钻孔精度；同时也能适合单粒快速夹具夹持；

◎专用硬质合金刀片，分层切削及低摩擦力切削几何，减少崩刃与改善排屑性能；

◎适合在欧霸、欧博、百德、锐科等国内外磁座钻机以及各类钻床、车床等机械设备上进行钻孔或环形槽加工。

◎Weldon shank + 1 additional hole, with stable clamping force, better stability for hole cutting and better precision of holes. Suitable for quick-change arbor with one ball;

◎Selected speical-purpose carbide tips with multi-cut geometry for ply-cutting and lower friction. Reduced damage of tips and improved performance of chips removal;

◎Applicable to hole cutting and process of annular groove on various magnetic drills and press, like Alfra, Euroboor, BDS, Ruko.

匹配的顶针 Matching pilot



型号 Model	规格 Size	配刀直径 Matching Cutter
DPB-62090	6.34/5.3*90	12mm-17mm
DPB-81090	7.98*90	≥ 18mm

单位 Unit: mm

型号 Model	规格 Size	型号 Model	规格 Size
DNTK-40120	12*50	DNTK-40350	35*50
DNTK-40130	13*50	DNTK-40360	36*50
DNTK-40140	14*50	DNTK-40370	37*50
DNTK-40150	15*50	DNTK-40380	38*50
DNTK-40160	16*50	DNTK-40390	39*50
DNTK-40170	17*50	DNTK-40400	40*50
DNTK-40180	18*50		
DNTK-40185	18.5*50		
DNTK-40190	19*50		
DNTK-40200	20*50		
DNTK-40205	20.5*50		
DNTK-40210	21*50		
DNTK-40215	21.5*50		
DNTK-40220	22*50		
DNTK-40225	22.5*50		
DNTK-40230	23*50		
DNTK-40240	24*50		
DNTK-40245	24.5*50		
DNTK-40250	25*50		
DNTK-40260	26*50		
DNTK-40265	26.5*50		
DNTK-40270	27*50		
DNTK-40280	28*50		
DNTK-40290	29*50		
DNTK-40300	30*50		
DNTK-40310	31*50		
DNTK-40320	32*50		
DNTK-40330	33*50		
DNTK-40340	34*50		

◎单孔直角柄型，有稳固的夹持力，更好的钻孔稳定性与钻孔精度；同时也能适合单粒快速夹具夹持；

◎专用硬质合金刀片，分层切削及低摩擦力切削几何，减少崩刃与改善排屑性能；

◎适合在欧霸、欧博、百德、锐科等国内外磁座钻机以及各类钻床、车床等机械设备上进行钻孔或环形槽加工。

◎Weldon shank + 1 additional hole, with stable clamping force, better stability for hole cutting and better precision of holes. Suitable for quick-change arbor with one ball;

◎Selected speical-purpose carbide tips with multi-cut geometry for ply-cutting and lower friction. Reduced damage of tips and improved performance of chips removal;

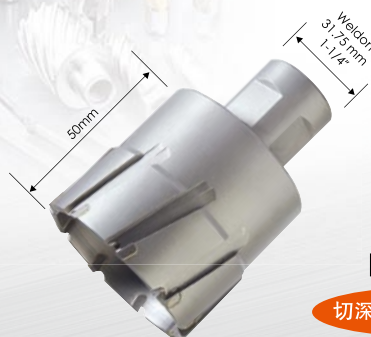
◎Applicable to hole cutting and process of annular groove on various magnetic drills and press, like Alfra, Euroboor, BDS, Ruko.

匹配的顶针 Matching pilot



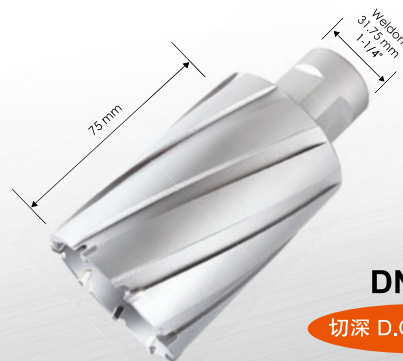
型号 Model	规格 Size	配刀直径 Matching Cutter
DPB-62106	6.34/5.3*106	12mm-17mm
DPB-81108	7.98*108	≥ 18mm

○ 硬质合金P型直角柄钢板钻 T. C.T. annular cutter with weldon shank (Version P)



DNTP-4

切深 D.O.C. 50mm



DNTP-5

切深 D.O.C. 75mm

单位 Unit: mm

型号 Type	规格 Size	型号 Type	规格 Size
DNTP-40610	61*50	DNTP-40920	92*50
DNTP-40620	62*50	DNTP-40930	93*50
DNTP-40630	63*50	DNTP-40940	94*50
DNTP-40640	64*50	DNTP-40950	95*50
DNTP-40650	65*50	DNTP-40960	96*50
DNTP-40660	66*50	DNTP-40970	97*50
DNTP-40670	67*50	DNTP-40980	98*50
DNTP-40680	68*50	DNTP-40990	99*50
DNTP-40690	69*50	DNTP-41000	100*50
DNTP-40700	70*50	DNTP-41010	101*50
DNTP-40710	71*50	DNTP-41020	102*50
DNTP-40720	72*50	DNTP-41030	103*50
DNTP-40730	73*50	DNTP-41040	104*50
DNTP-40740	74*50	DNTP-41050	105*50
DNTP-40750	75*50	DNTP-41060	106*50
DNTP-40760	76*50	DNTP-41070	107*50
DNTP-40770	77*50	DNTP-41080	108*50
DNTP-40780	78*50	DNTP-41090	109*50
DNTP-40790	79*50	DNTP-41100	110*50
DNTP-40800	80*50	DNTP-41150	115*50
DNTP-40810	81*50	DNTP-41200	120*50
DNTP-40820	82*50	DNTP-41250	125*50
DNTP-40830	83*50	DNTP-41300	130*50
DNTP-40840	84*50	DNTP-41350	135*50
DNTP-40850	85*50	DNTP-41380	138*50
DNTP-40860	86*50	DNTP-41400	140*50
DNTP-40870	87*50	DNTP-41450	145*50
DNTP-40880	88*50	DNTP-41500	150*50
DNTP-40890	89*50		
DNTP-40900	90*50		
DNTP-40910	91*50		

直径60mm以下在第12页
Cutter size ≤ Φ60mm on Page 12

注 英制规格详见第23页 Note: Imperial sizes on Page 23

○ 31.75mm的直角柄，保证大规格钻孔时的夹持力与夹持精度，适合直径61mm与以上规格；

○ 专用硬质合金刀片，分层切削及低摩擦力切削几何，减少崩刃与改善排屑性能；

○ 适合在欧霸、获劲、祥喜、欧博、百德、锐科等国内外磁座钻机以及各类钻床、车床等机械设备上进行钻孔或环形槽加工。

○ 31.75 weldon shank for clamping strength and finish. Suitable for large cutter above Φ61mm;

○ Selected special-purpose carbide tips with multi-cut geometry for ply-cutting and lower friction. Reduced damage of tips and improved performance of chips removal;

○ Applicable to hole cutting and process of annular groove on various magnetic drills and press, like Alfa, Hougen, Jancy, Euroboor, BDS, Ruko.

匹配的顶针 Suitable pins



型号 Type	规格 Size	配刀直径 Matching Cutter
DPB-81115	7.98*115	≥60mm

单位 Unit: mm

型号 Type	规格 Size	型号 Type	规格 Size
DNTP-50610	61*75	DNTP-51100	110*75
DNTP-50620	62*75	DNTP-51150	115*75
DNTP-50630	63*75	DNTP-51200	120*75
DNTP-50640	64*75	DNTP-51250	125*75
DNTP-50650	65*75	DNTP-51300	130*75
DNTP-50660	66*75	DNTP-51350	135*75
DNTP-50670	67*75		
DNTP-50680	68*75		
DNTP-50700	70*75		
DNTP-50720	72*75		
DNTP-50740	74*75		
DNTP-50750	75*75		
DNTP-50760	76*75		
DNTP-50800	80*75		
DNTP-50810	81*75		
DNTP-50820	82*75		
DNTP-50850	85*75		
DNTP-50870	87*75		
DNTP-50900	90*75		
DNTP-50930	93*75		
DNTP-50950	95*75		
DNTP-50960	96*75		
DNTP-50970	97*75		
DNTP-51000	100*75		
DNTP-51050	105*75		

直径60mm以下在第13页
Cutter size ≤ Φ60mm on Page 13

注 英制规格详见第23页 Note: Imperial sizes on Page 23

○ 31.75mm的直角柄，保证大规格钻孔时的夹持力与夹持精度，适合直径61mm与以上规格；

○ 专用硬质合金刀片，分层切削及低摩擦力切削几何，减少崩刃与改善排屑性能；

○ 适合在欧霸、获劲、祥喜、欧博、百德、锐科等国内外磁座钻机以及各类钻床、车床等机械设备上进行钻孔或环形槽加工。

○ 31.75 weldon shank for clamping strength and finish. Suitable for large cutter above Φ61mm;

○ Selected special-purpose carbide tips with multi-cut geometry for ply-cutting and lower friction. Reduced damage of tips and improved performance of chips removal;

○ Applicable to hole cutting and process of annular groove on various magnetic drills and press, like Alfa, Hougen, Jancy, Euroboor, BDS, Ruko.

匹配的顶针 Suitable pins



型号 Type	规格 Size	配刀直径 Matching Cutter
DPB-81145	7.98*145	≥60mm

硬质合金P型直角柄&J型削平柄钢板钻

T.C.T. annular cutter with weldon shank (Version P) and parallel shank (Version J)



DNTP-6

切深 D.O.C. 100mm



DNTJ-5

切深 D.O.C. 75mm

DNTJ系列 Range

单位 Unit: mm

型号 Type	规格 Size	型号 Type	规格 Size
DNTP-60610	61*100	DNTP-60860	86*100
DNTP-60620	62*100	DNTP-60870	87*100
DNTP-60630	63*100	DNTP-60880	88*100
DNTP-60640	64*100	DNTP-60890	89*100
DNTP-60650	65*100	DNTP-60900	90*100
DNTP-60660	66*100	DNTP-60910	91*100
DNTP-60670	67*100	DNTP-60920	92*100
DNTP-60680	68*100	DNTP-60930	93*100
DNTP-60690	69*100	DNTP-60940	94*100
DNTP-60700	70*100	DNTP-60950	95*100
DNTP-60710	71*100	DNTP-60960	96*100
DNTP-60720	72*100	DNTP-60970	97*100
DNTP-60730	73*100	DNTP-60980	98*100
DNTP-60740	74*100	DNTP-60990	99*100
DNTP-60750	75*100	DNTP-61000	100*100
DNTP-60760	76*100		
DNTP-60770	77*100		
DNTP-60780	78*100		
DNTP-60790	79*100		
DNTP-60800	80*100		
DNTP-60810	81*100		
DNTP-60820	82*100		
DNTP-60830	83*100		
DNTP-60840	84*100		
DNTP-60850	85*100		

直径60mm以下在第13页
Cutter size ≤ Φ60mm on Page 13

注 英制规格详见第23页 Note: Imperial sizes on Page 23

◎31.75mm的直角柄，保证大规格钻孔时的夹持力与夹持精度，适合直径61mm与以上规格；

◎专用硬质合金刀片，分层切削及低摩擦力切削几何，减少崩刃与改善排屑性能；

◎适合在欧霸、获劲、祥喜、欧博、百德、锐科等国内外磁座钻机以及各类钻床、车床等机械设备上进行钻孔或环形槽加工。

◎31.75 weldon shank for clamping strength and finish. Suitable for large cutter above Φ61mm;

◎Selected special-purpose carbide tips with multi-cut geometry for ply-cutting and lower friction. Reduced damage of tips and improved performance of chips removal;

◎Applicable to hole cutting and process of annular groove on various magnetic drills and press, like Alfa, Hougen, Jancy, Euroboor, BDS, Ruko.

匹配的顶针 Suitable pins



型号 Type	规格 Size	配刀直径 Matching Cutter
DPB-81175	7.98*175	61mm-100mm

单位 Unit: mm

型号 Type	规格 Size	型号 Type	规格 Size
DNTJ-50500	50*75	DNTJ-51050	105*75
DNTJ-50510	51*75	DNTJ-51100	110*75
DNTJ-50520	52*75	DNTJ-51150	115*75
DNTJ-50540	54*75	DNTJ-51200	120*75
DNTJ-50550	55*75	DNTJ-51250	125*75
DNTJ-50560	56*75	DNTJ-51300	130*75
DNTJ-50570	57*75	DNTJ-51350	135*75
DNTJ-50600	60*75	DNTJ-51400	140*75
DNTJ-50630	63*75	DNTJ-51450	145*75
DNTJ-50640	64*75	DNTJ-51500	150*75
DNTJ-50650	65*75		
DNTJ-50660	66*75		
DNTJ-50670	67*75		
DNTJ-50680	68*75		
DNTJ-50700	70*75		
DNTJ-50720	72*75		
DNTJ-50730	73*75		
DNTJ-50740	74*75		
DNTJ-50750	75*75		
DNTJ-50760	76*75		
DNTJ-50790	79*75		
DNTJ-50800	80*75		
DNTJ-50890	89*75		
DNTJ-50900	90*75		
DNTJ-51000	100*75		

◎31.75mm的削平柄，保证大规格钻孔时的夹持力与夹持精度，适合直径50mm与以上规格；

◎专用硬质合金刀片，分层切削及低摩擦力切削几何，减少崩刃与改善排屑性能；

◎适合各种磁座钻机以及各类钻床、车床等机械设备上进行钻孔或环形槽加工。

◎31.75 Parallel shank for clamping strength and finish. Suitable for large cutter above Φ50mm;

◎Selected special-purpose carbide tips with multi-cut geometry for ply-cutting and lower friction. Reduced damage of tips and improved performance of chips removal;

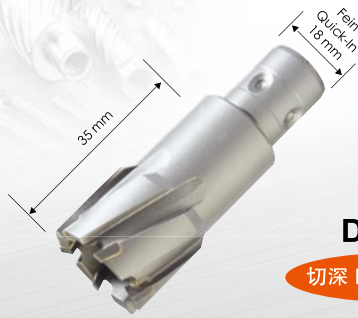
◎Applicable to hole cutting and process of annular groove on various magnetic drills and press.

匹配的顶针 Suitable pins



型号 Type	规格 Size	配刀直径 Matching Cutter
DPB-C1192	12*192	50mm-150mm

硬质合金四孔柄钢板钻 T.C.T. annular cutter with FEIN Quick-IN shank



DNTF-3

切深 D.O.C. 35mm



DNTF-4

切深 D.O.C. 50mm

单位 Unit: mm

型号 Type	规格 Size	型号 Type	规格 Size
DNTF-30120	12*35	DNTF-30370	37*35
DNTF-30130	13*35	DNTF-30380	38*35
DNTF-30140	14*35	DNTF-30390	39*35
DNTF-30150	15*35	DNTF-30400	40*35
DNTF-30160	16*35	DNTF-30410	41*35
DNTF-30170	17*35	DNTF-30420	42*35
DNTF-30180	18*35	DNTF-30430	43*35
DNTF-30190	19*35	DNTF-30440	44*35
DNTF-30200	20*35	DNTF-30450	45*35
DNTF-30210	21*35	DNTF-30460	46*35
DNTF-30220	22*35	DNTF-30470	47*35
DNTF-30230	23*35	DNTF-30480	48*35
DNTF-30240	24*35	DNTF-30490	49*35
DNTF-30250	25*35	DNTF-30500	50*35
DNTF-30260	26*35	DNTF-30510	51*35
DNTF-30270	27*35	DNTF-30520	52*35
DNTF-30280	28*35	DNTF-30530	53*35
DNTF-30290	29*35	DNTF-30540	54*35
DNTF-30300	30*35	DNTF-30550	55*35
DNTF-30310	31*35	DNTF-30560	56*35
DNTF-30320	32*35	DNTF-30570	57*35
DNTF-30330	33*35	DNTF-30580	58*35
DNTF-30340	34*35	DNTF-30590	59*35
DNTF-30350	35*35	DNTF-30600	60*35
DNTF-30360	36*35	DNTF-30650	65*35

- 直径18mm四孔柄，适合Fein等钻机的专用快速接口；
- 选用专用硬质合金刀片，分层切削与低摩擦力切削几何，减少刀片崩刃与改善排屑性能。
- 18mm Fein Quick-IN shank. Suitable on Fein Magnetic drills;
- Selected special-purpose carbide tips with multi-cut geometry for ply-cutting and lower friction. Reduced damage of tips and improved performance of chips removal.

匹配的顶针 Suitable pins



型号 Type	规格 Size	配刀直径 Matching Cutter
DPB-62090	6.34/5.3*90	12mm-65mm

单位 Unit: mm

型号 Type	规格 Size	型号 Type	规格 Size
DNTF-40120	12*50	DNTF-40370	37*50
DNTF-40130	13*50	DNTF-40380	38*50
DNTF-40140	14*50	DNTF-40390	39*50
DNTF-40150	15*50	DNTF-40400	40*50
DNTF-40160	16*50	DNTF-40410	41*50
DNTF-40170	17*50	DNTF-40420	42*50
DNTF-40180	18*50	DNTF-40430	43*50
DNTF-40190	19*50	DNTF-40440	44*50
DNTF-40200	20*50	DNTF-40450	45*50
DNTF-40210	21*50	DNTF-40460	46*50
DNTF-40220	22*50	DNTF-40470	47*50
DNTF-40230	23*50	DNTF-40480	48*50
DNTF-40240	24*50	DNTF-40490	49*50
DNTF-40250	25*50	DNTF-40500	50*50
DNTF-40260	26*50	DNTF-40510	51*50
DNTF-40270	27*50	DNTF-40520	52*50
DNTF-40280	28*50	DNTF-40530	53*50
DNTF-40290	29*50	DNTF-40540	54*50
DNTF-40300	30*50	DNTF-40550	55*50
DNTF-40310	31*50	DNTF-40560	56*50
DNTF-40320	32*50	DNTF-40570	57*50
DNTF-40330	33*50	DNTF-40580	58*50
DNTF-40340	34*50	DNTF-40590	59*50
DNTF-40350	35*50	DNTF-40600	60*50
DNTF-40360	36*50		

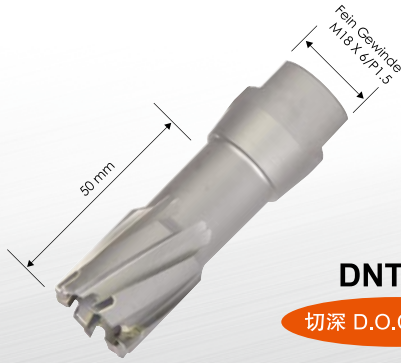
- 直径18mm四孔柄，适合Fein等钻机的专用快速接口；
- 选用专用硬质合金刀片，分层切削与低摩擦力切削几何，减少刀片崩刃与改善排屑性能。
- 18mm Fein Quick-IN shank. Suitable on Fein Magnetic drills;
- Selected special-purpose carbide tips with multi-cut geometry for ply-cutting and lower friction. Reduced damage of tips and improved performance of chips removal.

匹配的顶针 Suitable pins



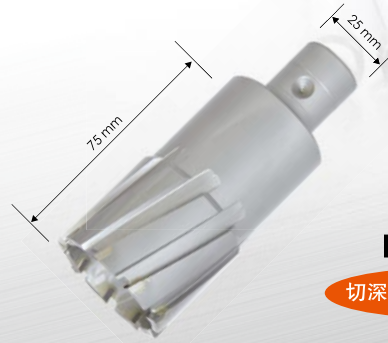
型号 Type	规格 Size	配刀直径 Matching Cutter
DPB-62102	6.34/5.3*102	12mm-60mm

硬质合金螺纹柄&三孔柄钢板钻 T.C.T. annular cutter with thread & quick change shank



DNTL-4

切深 D.O.C. 50mm



DNTG-5

切深 D.O.C. 75mm

DNTG系列 Range

单位 Unit: mm

型号 Type	规格 Size	型号 Type	规格 Size
DNTL-40120	12*50	DNTL-40370	37*50
DNTL-40130	13*50	DNTL-40380	38*50
DNTL-40140	14*50	DNTL-40390	39*50
DNTL-40150	15*50	DNTL-40400	40*50
DNTL-40160	16*50	DNTL-40410	41*50
DNTL-40170	17*50	DNTL-40420	42*50
DNTL-40180	18*50	DNTL-40430	43*50
DNTL-40190	19*50	DNTL-40440	44*50
DNTL-40200	20*50	DNTL-40450	45*50
DNTL-40210	21*50	DNTL-40460	46*50
DNTL-40220	22*50	DNTL-40470	47*50
DNTL-40230	23*50	DNTL-40480	48*50
DNTL-40240	24*50	DNTL-40490	49*50
DNTL-40250	25*50	DNTL-40500	50*50
DNTL-40260	26*50		
DNTL-40270	27*50		
DNTL-40280	28*50		
DNTL-40290	29*50		
DNTL-40300	30*50		
DNTL-40310	31*50		
DNTL-40320	32*50		
DNTL-40330	33*50		
DNTL-40340	34*50		
DNTL-40350	35*50		
DNTL-40360	36*50		

- M18*6/P1.5螺纹柄，适合Fein等钻机专用接口；
- 选用专用硬质合金刀片，分层切削与低摩擦力切削几何，减少刀片崩刃与改善排屑性能。
- M18*6/P1.5 thread shank. Suitable on Fein magnetic drills;
- Selected special-purpose carbide tips with multi-cut geometry for ply-cutting and lower friction. Reduced damage of tips and improved performance of chips removal.

匹配的夹具 Suitable arbors



型号 Type	规格 Size
DJLY-50K-MT2	MT2*50*M18

单位 Unit: mm

型号 Type	规格 Size	型号 Type	规格 Size
DNTG-50180	18*75	DNTG-50430	43*75
DNTG-50190	19*75	DNTG-50440	44*75
DNTG-50200	20*75	DNTG-50450	45*75
DNTG-50210	21*75	DNTG-50460	46*75
DNTG-50220	22*75	DNTG-50470	47*75
DNTG-50230	23*75	DNTG-50480	48*75
DNTG-50240	24*75	DNTG-50490	49*75
DNTG-50250	25*75	DNTG-50500	50*75
DNTG-50260	26*75	DNTG-50510	51*75
DNTG-50270	27*75	DNTG-50520	52*75
DNTG-50280	28*75	DNTG-50530	53*75
DNTG-50290	29*75	DNTG-50540	54*75
DNTG-50300	30*75	DNTG-50550	55*75
DNTG-50310	31*75	DNTG-50560	56*75
DNTG-50320	32*75	DNTG-50570	57*75
DNTG-50330	33*75	DNTG-50580	58*75
DNTG-50340	34*75	DNTG-50590	59*75
DNTG-50350	35*75	DNTG-50600	60*75
DNTG-50360	36*75		
DNTG-50370	37*75		
DNTG-50380	38*75		
DNTG-50390	39*75		
DNTG-50400	40*75		
DNTG-50410	41*75		
DNTG-50420	42*75		

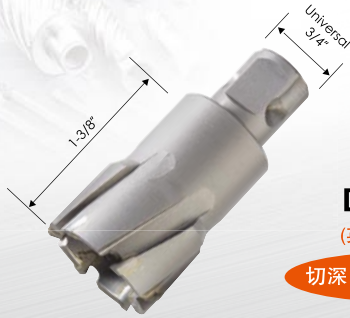
- 25mm三孔柄，适合专用钻机接口；
- 选用专用硬质合金刀片，分层切削与低摩擦力切削几何，减少刀片崩刃与改善排屑性能。
- 25mm Quick-change shank (3 holes). Suitable on special-purpose magnetic drills;
- Selected special-purpose carbide tips with multi-cut geometry for ply-cutting and lower friction. Reduced damage of tips and improved performance of chips removal.

匹配的顶针 Suitable pins



型号 Type	规格 Size	配刀直径 Matching Cutter
DPB-81134	7.98*134	18mm-60mm

硬质合金通用柄钢板钻(英制) T.C.T. annular cutter with Universal Shank (Imperial size)



DNTC-C
(英制 Imperial)

切深 D.O.C. 1-3/8"



DNTC-D
(英制 Imperial)

切深 D.O.C. 2"

单位 Unit: inch

型号 Type	规格 Size	型号 Type	规格 Size
DNTC-C0500	1/2**1-3/8"	DNTC-C2062	2-1/16**1-3/8"
DNTC-C0562	9/16**1-3/8"	DNTC-C2125	2-1/8**1-3/8"
DNTC-C0625	5/8**1-3/8"	DNTC-C2187	2-3/16**1-3/8"
DNTC-C0687	11/16**1-3/8"	DNTC-C2250	2-1/4**1-3/8"
DNTC-C0750	3/4**1-3/8"	DNTC-C2312	2-5/16**1-3/8"
DNTC-C0812	13/16**1-3/8"	DNTC-C2375	2-3/8**1-3/8"
DNTC-C0875	7/8**1-3/8"		
DNTC-C0937	15/16**1-3/8"		
DNTC-C1000	1**1-3/8"		
DNTC-C1062	1-1/16**1-3/8"		
DNTC-C1125	1-1/8**1-3/8"		
DNTC-C1187	1-3/16**1-3/8"		
DNTC-C1250	1-1/4**1-3/8"		
DNTC-C1312	1-5/16**1-3/8"		
DNTC-C1375	1-3/8**1-3/8"		
DNTC-C1437	1-7/16**1-3/8"		
DNTC-C1500	1-1/2**1-3/8"		
DNTC-C1562	1-9/16**1-3/8"		
DNTC-C1625	1-5/8**1-3/8"		
DNTC-C1687	1-11/16**1-3/8"		
DNTC-C1750	1-3/4**1-3/8"		
DNTC-C1812	1-13/16**1-3/8"		
DNTC-C1875	1-7/8**1-3/8"		
DNTC-C1937	1-15/16**1-3/8"		
DNTC-C2000	2**1-3/8"		

注 公制规格详见第10页 Note: Metric size on Page 10

- ◎通用柄型，适合各种钻机接口；
- ◎选用专用硬质合金刀片，分层切削及低摩擦切削几何，减少刀片崩刃与改善排屑性能；
- ◎适合在多种磁座钻机、钻床等机械设备上进行钻孔与环形槽加工。
- ◎ Universal shank for various magnetic drills;
- ◎ Selected special-purpose carbide tips with multi-cut geometry for ply-cutting and lower friction. Reduced damage of tips and improved performance of chips removal;
- ◎ Applicable to hole cutting and process of annular groove on various magnetic drills and press.

匹配的顶针 Suitable pins



型号 Type	规格 Size(mm)	配刀直径 Matching Cutter
DPB-62090	6.34/5.3*90	1/2" ~11/16"
DPB-81090	7.98*90	3/4" ~ 2-3/8"

单位 Unit: inch

型号 Type	规格 Size	型号 Type	规格 Size
DNTC-D0500	1/2**2"	DNTC-D2062	2-1/16**2"
DNTC-D0562	9/16**2"	DNTC-D2125	2-1/8**2"
DNTC-D0625	5/8**2"	DNTC-D2187	2-3/16**2"
DNTC-D0687	11/16**2"	DNTC-D2250	2-1/4**2"
DNTC-D0750	3/4**2"	DNTC-D2312	2-5/16**2"
DNTC-D0812	13/16**2"	DNTC-D2375	2-3/8**2"
DNTC-D0875	7/8**2"		
DNTC-D0937	15/16**2"		
DNTC-D1000	1**2"		
DNTC-D1062	1-1/16**2"		
DNTC-D1125	1-1/8**2"		
DNTC-D1187	1-3/16**2"		
DNTC-D1250	1-1/4**2"		
DNTC-D1312	1-5/16**2"		
DNTC-D1375	1-3/8**2"		
DNTC-D1437	1-7/16**2"		
DNTC-D1500	1-1/2**2"		
DNTC-D1562	1-9/16**2"		
DNTC-D1625	1-5/8**2"		
DNTC-D1687	1-11/16**2"		
DNTC-D1750	1-3/4**2"		
DNTC-D1812	1-13/16**2"		
DNTC-D1875	1-7/8**2"		
DNTC-D1937	1-15/16**2"		
DNTC-D2000	2**2"		

注 公制规格详见第10页 Note: Metric size on Page 10

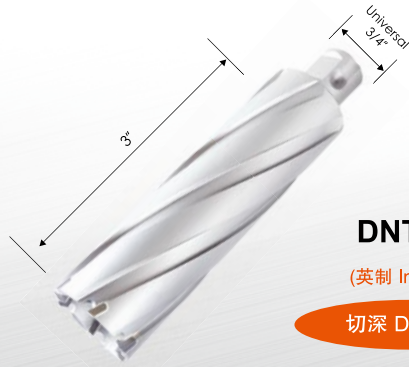
- ◎通用柄型，适合各种钻机接口；
- ◎选用专用硬质合金刀片，分层切削及低摩擦切削几何，减少刀片崩刃与改善排屑性能；
- ◎适合在多种磁座钻机、钻床等机械设备上进行钻孔与环形槽加工。
- ◎ Universal shank for various magnetic drills;
- ◎ Selected special-purpose carbide tips with multi-cut geometry for ply-cutting and lower friction. Reduced damage of tips and improved performance of chips removal;
- ◎ Applicable to hole cutting and process of annular groove on various magnetic drills and press.

匹配的顶针 Suitable pins



型号 Type	规格 Size (mm)	配刀直径 Matching Cutter
DPB-62106	6.34/5.3*106	1/2" ~11/16"
DPB-81108	7.98*108	3/4" ~ 2-3/8"

硬质合金通用柄钢板钻(英制) T.C.T. annular cutter with Universal shank (Imperial size)



DNTC-E

(英制 Imperial)

切深 D.O.C. 3"



DNTC-F

(英制 Imperial)

切深 D.O.C. 4"

DNTC系列 Range

单位 Unit: inch

型号 Type	规格 Size	型号 Type	规格 Size
DNTC-E0750	3/4**3"		
DNTC-E0812	13/16**3"		
DNTC-E0875	7/8**3"		
DNTC-E0937	15/16**3"		
DNTC-E1000	1**3"		
DNTC-E1062	1-1/16**3"		
DNTC-E1125	1-1/8**3"		
DNTC-E1187	1-3/16**3"		
DNTC-E1250	1-1/4**3"		
DNTC-E1312	1-5/16**3"		
DNTC-E1375	1-3/8**3"		
DNTC-E1437	1-7/16**3"		
DNTC-E1500	1-1/2**3"		
DNTC-E1562	1-9/16**3"		
DNTC-E1625	1-5/8**3"		
DNTC-E1687	1-11/16**3"		
DNTC-E1750	1-3/4**3"		
DNTC-E1812	1-13/16**3"		
DNTC-E1875	1-7/8**3"		
DNTC-E1937	1-15/16**3"		
DNTC-E2000	2**3"		

注 公制规格详见第11页 Note: Metric size on Page 11

- ◎通用柄型，适合各种钻机接口；
- ◎选用专用硬质合金刀片，分层切削与低摩擦力切削几何，减少刀片崩刃与改善排屑性能；
- ◎适合在多种磁座钻机、钻床等机械装备上进行钻孔或环形槽加工。

- ◎ Universal shank for various magnetic drills;
- ◎ Selected special-purpose carbide tips with multi-cut geometry for ply-cutting and lower friction. Reduced damage of tips and improved performance of chips removal;
- ◎ Applicable to hole cutting and process of annular groove on various magnetic drills and press.

匹配的顶针 Suitable pins



型号 Type	规格 Size (mm)	配刀直径 Matching Cutter
DPB-81130	7.98*130	3/4"~2"
DPT-82130	7.98*130	3/4"~2"

单位 Unit: inch

型号 Type	规格 Size	型号 Type	规格 Size
DNTC-F0750	3/4**4"		
DNTC-F0812	13/16**4"		
DNTC-F0875	7/8**4"		
DNTC-F0937	15/16**4"		
DNTC-F1000	1**4"		
DNTC-F1062	1-1/16**4"		
DNTC-F1125	1-1/8**4"		
DNTC-F1187	1-3/16**4"		
DNTC-F1250	1-1/4**4"		
DNTC-F1312	1-5/16**4"		
DNTC-F1375	1-3/8**4"		
DNTC-F1437	1-7/16**4"		
DNTC-F1500	1-1/2**4"		
DNTC-F1562	1-9/16**4"		
DNTC-F1625	1-5/8**4"		
DNTC-F1687	1-11/16**4"		
DNTC-F1750	1-3/4**4"		
DNTC-F1812	1-13/16**4"		
DNTC-F1875	1-7/8**4"		
DNTC-F1937	1-15/16**4"		
DNTC-F2000	2**4"		

注 公制规格详见第11页 Note: Metric size on Page 11

- ◎通用柄型，适合各种钻机接口；
- ◎选用专用硬质合金刀片，分层切削与低摩擦力切削几何，减少刀片崩刃与改善排屑性能；
- ◎适合在多种磁座钻机、钻床等机械装备上进行钻孔或环形槽加工。

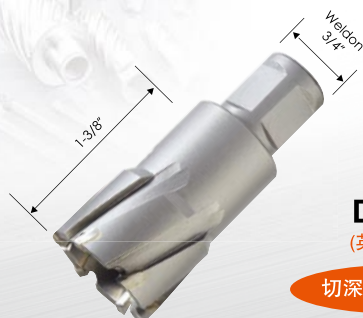
- ◎ Universal shank for various magnetic drills;
- ◎ Selected special-purpose carbide tips with multi-cut geometry for ply-cutting and lower friction. Reduced damage of tips and improved performance of chips removal;
- ◎ Applicable to hole cutting and process of annular groove on various magnetic drills and press.

匹配的顶针 Suitable pins



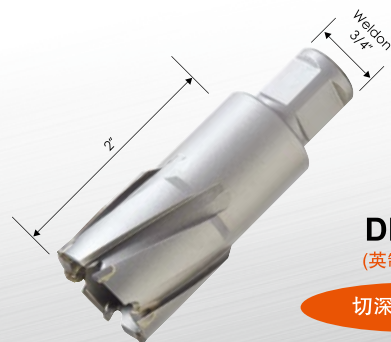
型号 Type	规格 Size (mm)	配刀直径 Matching Cutter
DPB-81160	7.98*160	3/4"~2"
DPT-82157	7.98*157	3/4"~2"

硬质合金直角柄钢板钻(英制) T.C.T. annular cutter with Weldon shank (Imperial size)



DNTX-C
(英制 Imperial)

切深 D.O.C. 1-3/8"



DNTX-D
(英制 Imperial)

切深 D.O.C. 2"

单位 Unit: inch

型号 Type	规格 Size	型号 Type	规格 Size
DNTX-C0500	1/2"*1-3/8"	DNTX-C2062	2-1/16"*1-3/8"
DNTX-C0562	9/16"*1-3/8"	DNTX-C2125	2-1/8"*1-3/8"
DNTX-C0625	5/8"*1-3/8"	DNTX-C2187	2-3/16"*1-3/8"
DNTX-C0687	11/16"*1-3/8"	DNTX-C2250	2-1/4"*1-3/8"
DNTX-C0750	3/4"*1-3/8"	DNTX-C2312	2-5/16"*1-3/8"
DNTX-C0812	13/16"*1-3/8"	DNTX-C2375	2-3/8"*1-3/8"
DNTX-C0875	7/8"*1-3/8"		
DNTX-C0937	15/16"*1-3/8"		
DNTX-C1000	1"*1-3/8"		
DNTX-C1062	1-1/16"*1-3/8"		
DNTX-C1125	1-1/8"*1-3/8"		
DNTX-C1187	1-3/16"*1-3/8"		
DNTX-C1250	1-1/4"*1-3/8"		
DNTX-C1312	1-5/16"*1-3/8"		
DNTX-C1375	1-3/8"*1-3/8"		
DNTX-C1437	1-7/16"*1-3/8"		
DNTX-C1500	1-1/2"*1-3/8"		
DNTX-C1562	1-9/16"*1-3/8"		
DNTX-C1625	1-5/8"*1-3/8"		
DNTX-C1687	1-11/16"*1-3/8"		
DNTX-C1750	1-3/4"*1-3/8"		
DNTX-C1812	1-13/16"*1-3/8"		
DNTX-C1875	1-7/8"*1-3/8"		
DNTX-C1937	1-15/16"*1-3/8"		
DNTX-C2000	2"*1-3/8"		

注 公制规格详见第12页 Note: Metric size on Page 12

- ◎直角柄，有稳固的夹持力，更好的保证钻孔稳定性与钻孔精度；
- ◎专用硬质合金刀片，分层切削及低摩擦力切削几何，减少崩刃与改善排屑性能；
- ◎适合在欧霸、获劲、祥喜、欧博、百德、锐科等国内外磁座钻机以及各类钻床、车床等机械设备上进行钻孔或环形槽加工。
- ◎Weldon shank, with more stable clamping for stable cutting and finish of holes;
- ◎Selected special-purpose carbide tips with multi-cut geometry for ply-cutting and lower friction. Reduced damage of tips and improved performance of chips removal;
- ◎Applicable to hole cutting and process of annular groove on various magnetic drills and press, like Alfa, Hougen, Jancy, Euroboor, BDS, Ruko.

匹配的顶针 Suitable pins



型号 Type	规格 Size (mm)	配刀直径 Matching Cutter
DPB-62090	6.34/5.3*90	1/2" ~ 11/16"
DPB-81090	7.98*90	3/4" ~ 2-3/8"

单位 Unit: inch

型号 Type	规格 Size	型号 Type	规格 Size
DNTX-D0500	1/2"*2"	DNTX-D2062	2-1/16"*2"
DNTX-D0562	9/16"*2"	DNTX-D2125	2-1/8"*2"
DNTX-D0625	5/8"*2"	DNTX-D2187	2-3/16"*2"
DNTX-D0687	11/16"*2"	DNTX-D2250	2-1/4"*2"
DNTX-D0750	3/4"*2"	DNTX-D2312	2-5/16"*2"
DNTX-D0812	13/16"*2"	DNTX-D2375	2-3/8"*2"
DNTX-D0875	7/8"*2"		
DNTX-D0937	15/16"*2"		
DNTX-D1000	1"*2"		
DNTX-D1062	1-1/16"*2"		
DNTX-D1125	1-1/8"*2"		
DNTX-D1187	1-3/16"*2"		
DNTX-D1250	1-1/4"*2"		
DNTX-D1312	1-5/16"*2"		
DNTX-D1375	1-3/8"*2"		
DNTX-D1437	1-7/16"*2"		
DNTX-D1500	1-1/2"*2"		
DNTX-D1562	1-9/16"*2"		
DNTX-D1625	1-5/8"*2"		
DNTX-D1687	1-11/16"*2"		
DNTX-D1750	1-3/4"*2"		
DNTX-D1812	1-13/16"*2"		
DNTX-D1875	1-7/8"*2"		
DNTX-D1937	1-15/16"*2"		
DNTX-D2000	2"*2"		

直径2-3/8" 以上在第23页
Cutter sizes above 2-3/8" on Page 23

注 公制规格详见第12页 Note: Metric size on Page 12

- ◎直角柄，有稳固的夹持力，更好的保证钻孔稳定性与钻孔精度；
- ◎专用硬质合金刀片，分层切削及低摩擦力切削几何，减少崩刃与改善排屑性能；
- ◎适合在欧霸、获劲、祥喜、欧博、百德、锐科等国内外磁座钻机以及各类钻床、车床等机械设备上进行钻孔或环形槽加工。
- ◎Weldon shank, with more stable clamping for stable cutting and finish of holes;
- ◎Selected special-purpose carbide tips with multi-cut geometry for ply-cutting and lower friction. Reduced damage of tips and improved performance of chips removal;
- ◎Applicable to hole cutting and process of annular groove on various magnetic drills and press, like Alfa, Hougen, Jancy, Euroboor, BDS, Ruko.

匹配的顶针 Suitable pins



型号 Type	规格 Size (mm)	配刀直径 Matching Cutter
DPB-62106	6.34/5.3*106	1/2" ~ 11/16"
DPB-81108	7.98*108	3/4" ~ 2-3/8"

硬质合金直角柄钢板钻(英制) T.C.T. annular cutter with Weldon shank (Imperial size)



DNTX-E
(英制 Imperial)

切深 D.O.C. 3"



DNTX-F
(英制 Imperial)

切深 D.O.C. 4"

DNTX系列 Range

单位 Unit: inch

型号 Type	规格 Size	型号 Type	规格 Size
DNTX-E0750	3/4**3"		
DNTX-E0812	13/16**3"		
DNTX-E0875	7/8**3"		
DNTX-E0937	15/16**3"		
DNTX-E1000	1**3"		
DNTX-E1062	1-1/16**3"		
DNTX-E1125	1-1/8**3"		
DNTX-E1187	1-3/16**3"		
DNTX-E1250	1-1/4**3"		
DNTX-E1312	1-5/16**3"		
DNTX-E1375	1-3/8**3"		
DNTX-E1437	1-7/16**3"		
DNTX-E1500	1-1/2**3"		
DNTX-E1562	1-9/16**3"		
DNTX-E1625	1-5/8**3"		
DNTX-E1687	1-11/16**3"		
DNTX-E1750	1-3/4**3"		
DNTX-E1812	1-13/16**3"		
DNTX-E1875	1-7/8**3"		
DNTX-E1937	1-15/16**3"		
DNTX-E2000	2**3"		

直径2-3/8" 以上在第23页
Cutter sizes above 2-3/8" on Page 23

注 公制规格详见第13页 Note: Metric size on Page 13

- ◎直角柄，有稳固的夹持力，更好的保证钻孔稳定性与钻孔精度；
- ◎专用硬质合金刀片，分层切削及低摩擦力切削几何，减少崩刃与改善排屑性能；
- ◎适合在欧霸、获劲、祥喜、欧博、百德、锐科等国内外磁座钻机以及各类钻床、车床等机械设备上进行钻孔或环形槽加工。
- ◎Weldon shank, with more stable clamping for stable cutting and finish of holes;
- ◎Selected speical-purpose carbide tips with multi-cut geometry for ply-cutting and lower friction. Reduced damage of tips and improved performance of chips removal;
- ◎Applicable to hole cutting and process of annular groove on various magnetic drills and press, like Alfa, Hougen, Jancy, Euroboor, BDS, Ruko.

匹配的顶针 Suitable pins



型号 Type	规格 Size (mm)	配刀直径 Matching Cutter
DPB-81130	7.98*130	3/4"~2"
DPT-82130	7.98*130	3/4"~2"

单位 Unit: inch

型号 Type	规格 Size	型号 Type	规格 Size
DNTX-F0750	3/4**4"		
DNTX-F0812	13/16**4"		
DNTX-F0875	7/8**4"		
DNTX-F0937	15/16**4"		
DNTX-F1000	1**4"		
DNTX-F1062	1-1/16**4"		
DNTX-F1125	1-1/8**4"		
DNTX-F1187	1-3/16**4"		
DNTX-F1250	1-1/4**4"		
DNTX-F1312	1-5/16**4"		
DNTX-F1375	1-3/8**4"		
DNTX-F1437	1-7/16**4"		
DNTX-F1500	1-1/2**4"		
DNTX-F1562	1-9/16**4"		
DNTX-F1625	1-5/8**4"		
DNTX-F1687	1-11/16**4"		
DNTX-F1750	1-3/4**4"		
DNTX-F1812	1-13/16**4"		
DNTX-F1875	1-7/8**4"		
DNTX-F1937	1-15/16**4"		
DNTX-F2000	2**4"		

直径2-3/8" 以上在第23页
Cutter sizes above 2-3/8" on Page 23

注 公制规格详见第13页 Note: Metric size on Page 13

- ◎直角柄，有稳固的夹持力，更好的保证钻孔稳定性与钻孔精度；
- ◎专用硬质合金刀片，分层切削及低摩擦力切削几何，减少崩刃与改善排屑性能；
- ◎适合在欧霸、获劲、祥喜、欧博、百德、锐科等国内外磁座钻机以及各类钻床、车床等机械设备上进行钻孔或环形槽加工。
- ◎Weldon shank, with more stable clamping for stable cutting and finish of holes;
- ◎Selected speical-purpose carbide tips with multi-cut geometry for ply-cutting and lower friction. Reduced damage of tips and improved performance of chips removal;
- ◎Applicable to hole cutting and process of annular groove on various magnetic drills and press, like Alfa, Hougen, Jancy, Euroboor, BDS, Ruko.

匹配的顶针 Suitable pins



型号 Type	规格 Size (mm)	配刀直径 Matching Cutter
DPB-81160	7.98*160	3/4"~2"
DPT-82157	7.98*157	3/4"~2"

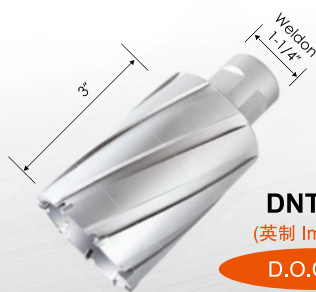
硬质合金P型直角柄钢板钻(英制)

T.C.T. annular cutter with weldon shank (Version P) Imperial size

DNTP系列Range



DNTP-D
(英制 Imperial)
D.O.C. 2"



DNTP-E
(英制 Imperial)
D.O.C. 3"



DNTP-F
(英制 Imperial)
D.O.C. 4"

型号 Type	规格 Size
DNTP-D2437	2-7/16**2"
DNTP-D2500	2-1/2**2"
DNTP-D2562	2-9/16**2"
DNTP-D2625	2-5/8**2"
DNTP-D2687	2-11/16**2"
DNTP-D2750	2-3/4**2"
DNTP-D3000	3**2"
DNTP-D3125	3-1/8**2"
DNTP-D3250	3-1/4**2"
DNTP-D3375	3-3/8**2"
DNTP-D3500	3-1/2**2"
DNTP-D3625	3-5/8**2"
DNTP-D3750	3-3/4**2"
DNTP-D3875	3-7/8**2"
DNTP-D3937	3-15/16**2"
DNTP-D4000	4**2"
DNTP-D4125	4-1/8**2"
DNTP-D4250	4-1/4**2"
DNTP-D4375	4-3/8**2"
DNTP-D4500	4-1/2**2"
DNTP-D4625	4-5/8**2"
DNTP-D4750	4-3/4**2"
DNTP-D4875	4-7/8**2"
DNTP-D5000	5**2"
DNTP-D5125	5-1/8**2"
DNTP-D5250	5-1/4**2"
DNTP-D5375	5-3/8**2"
DNTP-D5500	5-1/2**2"
DNTP-D5625	5-5/8**2"
DNTP-D5750	5-3/4**2"
DNTP-D5875	5-7/8**2"

直径2-7/16" 以下在第21页
Cutter sizes above 2-7/16" on Page 21

注 公制规格详见第15页
Note: Metric size on Page 15

型号 Type	规格 Size
DNTP-E2437	2-7/16**3"
DNTP-E2500	2-1/2**3"
DNTP-E2562	2-9/16**3"
DNTP-E2625	2-5/8**3"
DNTP-E2687	2-11/16**3"
DNTP-E2750	2-3/4**3"
DNTP-E3000	3**3"
DNTP-E3125	3-1/8**3"
DNTP-E3250	3-1/4**3"
DNTP-E3375	3-3/8**3"
DNTP-E3500	3-1/2**3"
DNTP-E3625	3-5/8**3"
DNTP-E3750	3-3/4**3"
DNTP-E3875	3-7/8**3"
DNTP-E3937	3-15/16**3"
DNTP-E4000	4**3"

直径2-7/16" 以下在第22页
Cutter sizes above 2-7/16" on Page 22

注 公制规格详见第15页
Note: Metric size on Page 15

型号 Type	规格 Size
DNTP-F2437	2-7/16**4"
DNTP-F2500	2-1/2**4"
DNTP-F2562	2-9/16**4"
DNTP-F2625	2-5/8**4"
DNTP-F2687	2-11/16**4"
DNTP-F2750	2-3/4**4"
DNTP-F3000	3**4"
DNTP-F3125	3-1/8**4"
DNTP-F3250	3-1/4**4"

直径2-7/16" 以下在第22页
Cutter sizes above 2-7/16" on Page 22

注 公制规格详见第16页
Note: Metric size on Page 16

◎31.75mm的直角柄，保证大规格钻孔时的夹持力与精度，适合直径2-7/16" 与以上规格；

◎专用硬质合金刀片，分层切削及低摩擦力切削几何，减少崩刃与改善排屑性能；

◎适合在欧霸、获勃、祥喜、欧博、百德、锐科等国内外磁座钻机以及各类钻床、车床等机械设备上钻孔与环形槽加工。

◎31.75 weldon shank for clamping strength and finish. Suitable for large cutter above $\Phi 2-7/16$;

◎Selected speical-purpose carbide tips with multi-cut geometry for ply-cutting and lower friction. Reduced damage of tips and improved performance of chips removal;

◎Applicable to hole cutting and process of annular groove on various magnetic drills and press, like Alfa, Hougen,Jancy,Euroboor, BDS, Ruko.

匹配的顶针 Suitable pins



型号 Type	规格 Size (mm)	配刀直径 Matching Cutter
DPB-81115	7.98*115	2-7/16" ~ 5-7/8"

匹配的顶针 Suitable pins



型号 Type	规格 Size (mm)	配刀直径 Matching Cutter
DPB-81145	7.98*145	2-7/16" ~ 4"

匹配的顶针 Suitable pins



型号 Type	规格 Size (mm)	配刀直径 Matching Cutter
DPB-81175	7.98*175	2-7/16" ~ 3-1/4"

硬质合金套装钢板钻 T. C.T. Annular cutter sets

套装系列
Range



DNTX-T001/T002
DNTC-T001/T002



DNTX-T003/T004
DNTC-T003/T004

单位 Unit: mm		
套装刀型号 Type	包含的型号 Type	规格 Size
DNTX-T001 直角柄 Weldon shank	DNTX-30140	14*35
	DNTX-30160	16*35
	DNTX-30180	18*35
	DNTX-30200	20*35
	DNTX-30220	22*35
	DPB-62090	6.34*90
	DPB-81090	7.98*90

单位 Unit: mm		
套装刀型号 Type	包含的型号 Type	规格 Size
DNTX-T002 直角柄 Weldon shank	DNTX-40140	14*50
	DNTX-40160	16*50
	DNTX-40180	18*50
	DNTX-40200	20*50
	DNTX-40220	22*50
	DPB-62106	6.34*106
	DPB-81108	7.98*108

单位 Unit: mm		
套装刀型号 Type	包含的型号 Type	规格 Size
DNTC-T001 通用柄 Universal shank	DNTC-30140	14*35
	DNTC-30160	16*35
	DNTC-30180	18*35
	DNTC-30200	20*35
	DNTC-30220	22*35
	DPB-62090	6.34*90
	DPB-81090	7.98*90

单位 Unit: mm		
套装刀型号 Type	包含的型号 Type	规格 Size
DNTC-T002 通用柄 Universal shank	DNTC-40140	14*50
	DNTC-40160	16*50
	DNTC-40180	18*50
	DNTC-40200	20*50
	DNTC-40220	22*50
	DPB-62106	6.34*106
	DPB-81108	7.98*108

单位 Unit: mm		
套装刀型号 Type	包含的型号 Type	规格 Size
DNTX-T003 直角柄 Weldon shank	DNTX-30140	14*35
	DNTX-30160	16*35
	DNTX-30180	18*35
	DNTX-30200	20*35
	DNTX-30220	22*35
	DNTX-30240	24*35
	DPB-62090	6.34*90
	DPB-81090	7.98*90

单位 Unit: mm		
套装刀型号 Type	包含的型号 Type	规格 Size
DNTX-T004 直角柄 Weldon shank	DNTX-40140	14*50
	DNTX-40160	16*50
	DNTX-40180	18*50
	DNTX-40200	20*50
	DNTX-40220	22*50
	DNTX-40240	24*50
	DPB-62106	6.34*106
	DPB-81108	7.98*108

单位 Unit: mm		
套装刀型号 Type	包含的型号 Type	规格 Size
DNTC-T003 通用柄 Universal shank	DNTC-30140	14*35
	DNTC-30160	16*35
	DNTC-30180	18*35
	DNTC-30200	20*35
	DNTC-30220	22*35
	DNTC-30240	24*35
	DPB-62090	6.34*90
	DPB-81090	7.98*90

单位 Unit: mm		
套装刀型号 Type	包含的型号 Type	规格 Size
DNTC-T004 通用柄 Universal shank	DNTC-40140	14*50
	DNTC-40160	16*50
	DNTC-40180	18*50
	DNTC-40200	20*50
	DNTC-40220	22*50
	DNTC-40240	24*50
	DPB-62106	6.34*106
	DPB-81108	7.98*108

- ◎多层切削几何，获得良好的排屑性能和保持低阻力；
- ◎选用专用硬质合金刀片；
- ◎适用于各种磁座钻机以及各类钻床、车床等机械设备上来进行钻孔或环形槽加工。
- ◎Multi-ply cutting edge geometry for better removal of chips and less resistance.
- ◎Selected special-purpose super micro-grain tungsten carbide tips
- ◎Applicable to hole cutting and process of annular groove on various magnetic drills and press.

高速钢钢板钻系列

(又名：高速钢空芯钻、取芯钻)

HSS annular cutter range

(Also call HSS core drills, Hole cutters)

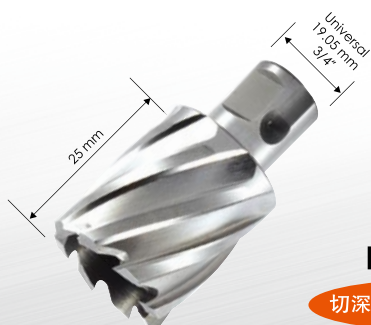


- 1、选用优质高速钢，有效提高切削刃的耐磨性；
- 2、多层切削几何，改善定心与排屑效果；
- 3、多类型的产品性能，可以满足不同材料钻孔需求；
- 4、除常用的直角柄外，备有多种柄型，可适合多种钻机、钻床配用；
- 5、规格从 $\Phi 12\text{mm}$ ~ $\Phi 65\text{mm}$ ，切深从8mm、25mm、35mm、50mm、75mm、100mm，特殊需求可订制 $\Phi 66\text{mm}$ ~ $\Phi 130\text{mm}$ 的规格，切深可扩大到150mm。

- 1.Made of high quality high speed steel to increase the endurance of cutting edges;
- 2.Multi-cut geometry for ply-cutting to improve performance of centering as well as removal of chips;
- 3.Various performance of products to meet requirements of hole cutting on various materials;
- 4.Besides normal weldon shank, various shank versions are available to suit various brands of magnetic drills and press;
- 5.Diameter from 12mm to 65mm with 8, 25, 35, 50, 75, 100MM D.O.C. Speical dimensions $\Phi 66\text{mm}$ ~ $\Phi 130\text{mm}$ with 150mm D.O.C. are available.



高速钢通用柄钢板钻 HSS-E annular cutter with universal shank



DNHC-2

切深 D.O.C. 25mm



DNHC-4

切深 D.O.C. 50mm

DNHC系列 Range

单位 Unit: mm

型号 Type	规格 Size	型号 Type	规格 Size
DNHC-20120	12*25	DNHC-20350	35*25
DNHC-20130	13*25	DNHC-20360	36*25
DNHC-20140	14*25	DNHC-20370	37*25
DNHC-20150	15*25	DNHC-20380	38*25
DNHC-20160	16*25	DNHC-20390	39*25
DNHC-20170	17*25	DNHC-20400	40*25
DNHC-20175	17.5*25	DNHC-20410	41*25
DNHC-20180	18*25	DNHC-20420	42*25
DNHC-20185	18.5*25	DNHC-20430	43*25
DNHC-20190	19*25	DNHC-20440	44*25
DNHC-20200	20*25	DNHC-20450	45*25
DNHC-20210	21*25	DNHC-20460	46*25
DNHC-20215	21.5*25	DNHC-20470	47*25
DNHC-20220	22*25	DNHC-20480	48*25
DNHC-20225	22.5*25	DNHC-20490	49*25
DNHC-20230	23*25	DNHC-20500	50*25
DNHC-20240	24*25	DNHC-20510	51*25
DNHC-20250	25*25	DNHC-20520	52*25
DNHC-20260	26*25	DNHC-20530	53*25
DNHC-20270	27*25	DNHC-20540	54*25
DNHC-20280	28*25	DNHC-20550	55*25
DNHC-20290	29*25	DNHC-20560	56*25
DNHC-20300	30*25	DNHC-20570	57*25
DNHC-20310	31*25	DNHC-20580	58*25
DNHC-20320	32*25	DNHC-20590	59*25
DNHC-20330	33*25	DNHC-20600	60*25
DNHC-20340	34*25	DNHC-20650	65*25

注 英制规格详见第37页 Note: Imperial sizes on Page 37

- ◎通用柄型，适合多种钻机接口；
- ◎选用超硬高速钢，结合分层切削与低摩擦力切削几何，获得良好耐磨性能与排屑性能；
- ◎适合在各种磁座钻机、钻床等机械设备上钻孔或环形槽加工。
- ◎Universal shank for various magnetic drills;
- ◎Made of super tough high speed steel with multi-cut geometry for ply-cutting and lower friction to reach better performance of endurance and removal of chips;
- ◎Applicable to hole cutting and process of annular groove on various magnetic drills and press.

匹配的顶针 Suitable pins



型号 Type	规格 Size	配刀直径 Matching Cutter
DPB-62077	6.34/5.3*77	12mm~65mm

单位 Unit: mm

型号 Type	规格 Size	型号 Type	规格 Size
DNHC-40120	12*50	DNHC-40350	35*50
DNHC-40130	13*50	DNHC-40360	36*50
DNHC-40140	14*50	DNHC-40370	37*50
DNHC-40150	15*50	DNHC-40380	38*50
DNHC-40160	16*50	DNHC-40390	39*50
DNHC-40170	17*50	DNHC-40400	40*50
DNHC-40175	17.5*50	DNHC-40410	41*50
DNHC-40180	18*50	DNHC-40420	42*50
DNHC-40185	18.5*50	DNHC-40430	43*50
DNHC-40190	19*50	DNHC-40440	44*50
DNHC-40200	20*50	DNHC-40450	45*50
DNHC-40210	21*50	DNHC-40460	46*50
DNHC-40215	21.5*50	DNHC-40470	47*50
DNHC-40220	22*50	DNHC-40480	48*50
DNHC-40225	22.5*50	DNHC-40490	49*50
DNHC-40230	23*50	DNHC-40500	50*50
DNHC-40240	24*50	DNHC-40510	51*50
DNHC-40250	25*50	DNHC-40520	52*50
DNHC-40260	26*50	DNHC-40530	53*50
DNHC-40270	27*50	DNHC-40540	54*50
DNHC-40280	28*50	DNHC-40550	55*50
DNHC-40290	29*50	DNHC-40560	56*50
DNHC-40300	30*50	DNHC-40570	57*50
DNHC-40310	31*50	DNHC-40580	58*50
DNHC-40320	32*50	DNHC-40590	59*50
DNHC-40330	33*50	DNHC-40600	60*50
DNHC-40340	34*50	DNHC-40650	65*50

注 英制规格详见第37页 Note: Imperial sizes on Page 37

- ◎通用柄型，适合多种钻机接口；
- ◎选用超硬高速钢，结合分层切削与低摩擦力切削几何，获得良好耐磨性能与排屑性能；
- ◎适合在各种磁座钻机、钻床等机械设备上钻孔或环形槽加工。
- ◎Universal shank for various magnetic drills;
- ◎Made of super tough high speed steel with multi-cut geometry for ply-cutting and lower friction to reach better performance of endurance and removal of chips;
- ◎Applicable to hole cutting and process of annular groove on various magnetic drills and press.

匹配的顶针 Suitable pins



型号 Type	规格 Size	配刀直径 Matching Cutter
DPB-62102	6.34/5.3*102	12mm~65mm

高速钢通用柄钢板钻 HSS-E annular cutter with universal shank



DNHC-5

切深 D.O.C. 75mm



DNHC-6

切深 D.O.C. 100mm

单位 Unit: mm

型号 Type	规格 Size	型号 Type	规格 Size
DNHC-50180	18*75	DNHC-50430	43*75
DNHC-50190	19*75	DNHC-50440	44*75
DNHC-50200	20*75	DNHC-50450	45*75
DNHC-50210	21*75	DNHC-50460	46*75
DNHC-50220	22*75	DNHC-50470	47*75
DNHC-50230	23*75	DNHC-50480	48*75
DNHC-50240	24*75	DNHC-50490	49*75
DNHC-50250	25*75	DNHC-50500	50*75
DNHC-50260	26*75		
DNHC-50270	27*75		
DNHC-50280	28*75		
DNHC-50290	29*75		
DNHC-50300	30*75		
DNHC-50310	31*75		
DNHC-50320	32*75		
DNHC-50330	33*75		
DNHC-50340	34*75		
DNHC-50350	35*75		
DNHC-50360	36*75		
DNHC-50370	37*75		
DNHC-50380	38*75		
DNHC-50390	39*75		
DNHC-50400	40*75		
DNHC-50410	41*75		
DNHC-50420	42*75		

注 英制规格详见第38页 Note: Imperial sizes on Page 38

- ◎通用柄型，适合多种钻机接口；
- ◎选用超硬高速钢，结合分层切削与低摩擦力切削几何，获得良好耐磨性能与排屑性能；
- ◎适合在各种磁座钻机、钻床等机械设备上进行钻孔或环形槽加工。
- ◎Universal shank for various magnetic drills;
- ◎Made of super tough high speed steel with multi-cut geometry for ply-cutting and lower friction to reach better performance of endurance and removal of chips;
- ◎Applicable to hole cutting and process of annular groove on various magnetic drills and press.

匹配的顶针 Suitable pins



型号 Type	规格 Size	配刀直径 Matching Cutter
DPB-81130	7.98*130	18mm~50mm
DPT-82130	7.98*130	18mm~50mm

单位 Unit: mm

型号 Type	规格 Size	型号 Type	规格 Size
DNHC-60180	18*100	DNHC-60430	43*100
DNHC-60190	19*100	DNHC-60440	44*100
DNHC-60200	20*100	DNHC-60450	45*100
DNHC-60210	21*100	DNHC-60460	46*100
DNHC-60220	22*100	DNHC-60470	47*100
DNHC-60230	23*100	DNHC-60480	48*100
DNHC-60240	24*100	DNHC-60490	49*100
DNHC-60250	25*100	DNHC-60500	50*100
DNHC-60260	26*100		
DNHC-60270	27*100		
DNHC-60280	28*100		
DNHC-60290	29*100		
DNHC-60300	30*100		
DNHC-60310	31*100		
DNHC-60320	32*100		
DNHC-60330	33*100		
DNHC-60340	34*100		
DNHC-60350	35*100		
DNHC-60360	36*100		
DNHC-60370	37*100		
DNHC-60380	38*100		
DNHC-60390	39*100		
DNHC-60400	40*100		
DNHC-60410	41*100		
DNHC-60420	42*100		

注 英制规格详见第38页 Note: Imperial sizes on Page 38

- ◎通用柄型，适合多种钻机接口；
- ◎选用超硬高速钢，结合分层切削与低摩擦力切削几何，获得良好耐磨性能与排屑性能；
- ◎适合在各种磁座钻机、钻床等机械设备上进行钻孔或环形槽加工。
- ◎Universal shank for various magnetic drills;
- ◎Made of super tough high speed steel with multi-cut geometry for ply-cutting and lower friction to reach better performance of endurance and removal of chips;
- ◎Applicable to hole cutting and process of annular groove on various magnetic drills and press.

匹配的顶针 Suitable pins



型号 Type	规格 Size	配刀直径 Matching Cutter
DPB-81160	7.98*160	18mm~50mm
DPT-82157	7.98*157	18mm~50mm

高速钢直角柄钢板钻 HSS-E annular cutter with weldon shank



DNHX-2

切深 D.O.C. 25mm



DNHX-4

切深 D.O.C. 50mm

DNHX系列 Range

单位 Unit: mm

型号 Type	规格 Size	型号 Type	规格 Size
DNHX-20120	12*25	DNHX-20350	35*25
DNHX-20130	13*25	DNHX-20360	36*25
DNHX-20140	14*25	DNHX-20370	37*25
DNHX-20150	15*25	DNHX-20380	38*25
DNHX-20160	16*25	DNHX-20390	39*25
DNHX-20170	17*25	DNHX-20400	40*25
DNHX-20175	17.5*25	DNHX-20410	41*25
DNHX-20180	18*25	DNHX-20420	42*25
DNHX-20185	18.5*25	DNHX-20430	43*25
DNHX-20190	19*25	DNHX-20440	44*25
DNHX-20200	20*25	DNHX-20450	45*25
DNHX-20210	21*25	DNHX-20460	46*25
DNHX-20215	21.5*25	DNHX-20470	47*25
DNHX-20220	22*25	DNHX-20480	48*25
DNHX-20225	22.5*25	DNHX-20490	49*25
DNHX-20230	23*25	DNHX-20500	50*25
DNHX-20240	24*25	DNHX-20510	51*25
DNHX-20250	25*25	DNHX-20520	52*25
DNHX-20260	26*25	DNHX-20530	53*25
DNHX-20270	27*25	DNHX-20540	54*25
DNHX-20280	28*25	DNHX-20550	55*25
DNHX-20290	29*25	DNHX-20560	56*25
DNHX-20300	30*25	DNHX-20570	57*25
DNHX-20310	31*25	DNHX-20580	58*25
DNHX-20320	32*25	DNHX-20590	59*25
DNHX-20330	33*25	DNHX-20600	60*25
DNHX-20340	34*25	DNHX-20650	65*25

注 英制规格详见第39页 Note: Imperial sizes on Page 39

- ◎直角柄型，有稳固的夹持力，更好的钻孔稳定性与钻孔精度；
- ◎选用超硬高速钢，结合分层切削及低摩擦力切削几何，获得良好耐磨性能与排屑性能；
- ◎适合在欧霸、欧博、百德、锐科等国内外磁座钻机以及各类钻床、车床等机械设备上进行钻孔或环形槽加工。

- ◎Weldon shank, with more stable clamping for stable cutting and finish of holes;
- ◎Made of super tough high speed steel with multi-cut geometry for ply-cutting and lower friction to reach better performance of endurance and removal of chips;
- ◎Applicable to hole cutting and process of annular groove on various magnetic drills and press, like Alfa, Euroboor, BDS, Ruko;

匹配的顶针 Suitable pins



型号 Type	规格 Size	配刀直径 Matching Cutter
DPB-62077	6.34/5.3*77	12mm-65mm

单位 Unit: mm

型号 Type	规格 Size	型号 Type	规格 Size
DNHX-40120	12*50	DNHX-40350	35*50
DNHX-40130	13*50	DNHX-40360	36*50
DNHX-40140	14*50	DNHX-40370	37*50
DNHX-40150	15*50	DNHX-40380	38*50
DNHX-40160	16*50	DNHX-40390	39*50
DNHX-40170	17*50	DNHX-40400	40*50
DNHX-40175	17.5*50	DNHX-40410	41*50
DNHX-40180	18*50	DNHX-40420	42*50
DNHX-40185	18.5*50	DNHX-40430	43*50
DNHX-40190	19*50	DNHX-40440	44*50
DNHX-40200	20*50	DNHX-40450	45*50
DNHX-40210	21*50	DNHX-40460	46*50
DNHX-40215	21.5*50	DNHX-40470	47*50
DNHX-40220	22*50	DNHX-40480	48*50
DNHX-40225	22.5*50	DNHX-40490	49*50
DNHX-40230	23*50	DNHX-40500	50*50
DNHX-40240	24*50	DNHX-40510	51*50
DNHX-40250	25*50	DNHX-40520	52*50
DNHX-40260	26*50	DNHX-40530	53*50
DNHX-40270	27*50	DNHX-40540	54*50
DNHX-40280	28*50	DNHX-40550	55*50
DNHX-40290	29*50	DNHX-40560	56*50
DNHX-40300	30*50	DNHX-40570	57*50
DNHX-40310	31*50	DNHX-40580	58*50
DNHX-40320	32*50	DNHX-40590	59*50
DNHX-40330	33*50	DNHX-40600	60*50
DNHX-40340	34*50	DNHX-40650	65*50

注 英制规格详见第39页 Note: Imperial sizes on Page 39

- ◎直角柄型，有稳固的夹持力，更好的钻孔稳定性与钻孔精度；
- ◎选用超硬高速钢，结合分层切削及低摩擦力切削几何，获得良好耐磨性能与排屑性能；
- ◎适合在欧霸、欧博、百德、锐科等国内外磁座钻机以及各类钻床、车床等机械设备上进行钻孔或环形槽加工。

- ◎Weldon shank, with more stable clamping for stable cutting and finish of holes;
- ◎Made of super tough high speed steel with multi-cut geometry for ply-cutting and lower friction to reach better performance of endurance and removal of chips;
- ◎Applicable to hole cutting and process of annular groove on various magnetic drills and press, like Alfa, Euroboor, BDS, Ruko;

匹配的顶针 Suitable pins



型号 Type	规格 Size	配刀直径 Matching Cutter
DPB-62102	6.34/5.3*102	12mm-65mm

高速钢直角柄钢板钻 HSS-E annular cutter with weldon shank



DNHX-5

切深 D.O.C. 75mm



DNHX-6

切深 D.O.C. 100mm

单位 Unit: mm

型号 Type	规格 Size	型号 Type	规格 Size
DNHX-50180	18*75	DNHX-50430	43*75
DNHX-50190	19*75	DNHX-50440	44*75
DNHX-50200	20*75	DNHX-50450	45*75
DNHX-50210	21*75	DNHX-50460	46*75
DNHX-50220	22*75	DNHX-50470	47*75
DNHX-50230	23*75	DNHX-50480	48*75
DNHX-50240	24*75	DNHX-50490	49*75
DNHX-50250	25*75	DNHX-50500	50*75
DNHX-50260	26*75		
DNHX-50270	27*75		
DNHX-50280	28*75		
DNHX-50290	29*75		
DNHX-50300	30*75		
DNHX-50310	31*75		
DNHX-50320	32*75		
DNHX-50330	33*75		
DNHX-50340	34*75		
DNHX-50350	35*75		
DNHX-50360	36*75		
DNHX-50370	37*75		
DNHX-50380	38*75		
DNHX-50390	39*75		
DNHX-50400	40*75		
DNHX-50410	41*75		
DNHX-50420	42*75		

注 英制规格详见第40页 Note: Imperial sizes on Page 40

- ◎直角柄型，有稳固的夹持力，更好的钻孔稳定性与钻孔精度；
- ◎选用超硬高速钢，结合分层切削及低摩擦力切削几何，获得良好耐磨性能与排屑性能；
- ◎适合在欧霸、获劲、祥喜、欧博、百德、锐科等国内外磁座钻机以及各类钻床、车床等机械上进行钻孔或环形槽加工。
- ◎Weldon shank, with more stable clamping for stable cutting and finish of holes;
- ◎Made of super tough high speed steel with multi-cut geometry for ply-cutting and lower friction to reach better performance of endurance and removal of chips;
- ◎Applicable to hole cutting and process of annular groove on various magnetic drills and press, like Alfa, Hougen, Jancy, Euroboor, BDS, Ruko.

匹配的顶针 Suitable pins



型号 Type	规格 Size	配刀直径 Matching Cutter
DPB-81130	7.98*130	18mm~50mm
DPT-82130	7.98*130	18mm~50mm

单位 Unit: mm

型号 Type	规格 Size	型号 Type	规格 Size
DNHX-60180	18*100	DNHX-60430	43*100
DNHX-60190	19*100	DNHX-60440	44*100
DNHX-60200	20*100	DNHX-60450	45*100
DNHX-60210	21*100	DNHX-60460	46*100
DNHX-60220	22*100	DNHX-60470	47*100
DNHX-60230	23*100	DNHX-60480	48*100
DNHX-60240	24*100	DNHX-60490	49*100
DNHX-60250	25*100	DNHX-60500	50*100
DNHX-60260	26*100		
DNHX-60270	27*100		
DNHX-60280	28*100		
DNHX-60290	29*100		
DNHX-60300	30*100		
DNHX-60310	31*100		
DNHX-60320	32*100		
DNHX-60330	33*100		
DNHX-60340	34*100		
DNHX-60350	35*100		
DNHX-60360	36*100		
DNHX-60370	37*100		
DNHX-60380	38*100		
DNHX-60390	39*100		
DNHX-60400	40*100		
DNHX-60410	41*100		
DNHX-60420	42*100		

注 英制规格详见第40页 Note: Imperial sizes on Page 40

- ◎直角柄型，有稳固的夹持力，更好的钻孔稳定性与钻孔精度；
- ◎选用超硬高速钢，结合分层切削及低摩擦力切削几何，获得良好耐磨性能与排屑性能；
- ◎适合在欧霸、获劲、祥喜、欧博、百德、锐科等国内外磁座钻机以及各类钻床、车床等机械上进行钻孔或环形槽加工。
- ◎Weldon shank, with more stable clamping for stable cutting and finish of holes;
- ◎Made of super tough high speed steel with multi-cut geometry for ply-cutting and lower friction to reach better performance of endurance and removal of chips;
- ◎Applicable to hole cutting and process of annular groove on various magnetic drills and press, like Alfa, Hougen, Jancy, Euroboor, BDS, Ruko.

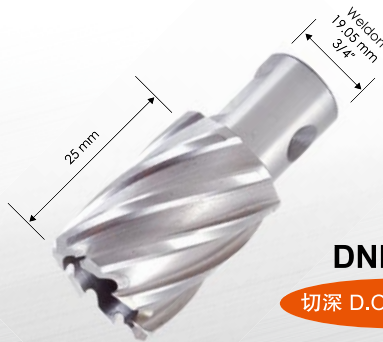
匹配的顶针 Suitable pins



型号 Type	规格 Size	配刀直径 Matching Cutter
DPB-81160	7.98*160	18mm~50mm
DPT-82157	7.98*157	18mm~50mm

高速钢单孔直角柄钢板钻

HSS-E annular cutter with weldon + 1 additional hole



DNHK-2

切深 D.O.C. 25mm



DNHK-4

切深 D.O.C. 50mm

DNHK系列Range

型号 Type	规格 Size	型号 Type	规格 Size
DNHK-20120	12*25	DNHK-20350	35*25
DNHK-20130	13*25	DNHK-20360	36*25
DNHK-20140	14*25	DNHK-20370	37*25
DNHK-20150	15*25	DNHK-20380	38*25
DNHK-20160	16*25	DNHK-20390	39*25
DNHK-20170	17*25	DNHK-20400	40*25
DNHK-20175	17.5*25		
DNHK-20180	18*25		
DNHK-20185	18.5*25		
DNHK-20190	19*25		
DNHK-20200	20*25		
DNHK-20210	21*25		
DNHK-20215	21.5*25		
DNHK-20220	22*25		
DNHK-20225	22.5*25		
DNHK-20230	23*25		
DNHK-20240	24*25		
DNHK-20250	25*25		
DNHK-20260	26*25		
DNHK-20270	27*25		
DNHK-20280	28*25		
DNHK-20290	29*25		
DNHK-20300	30*25		
DNHK-20310	31*25		
DNHK-20320	32*25		
DNHK-20330	33*25		
DNHK-20340	34*25		

◎单孔直角柄型，有稳固的夹持力，更好的钻孔稳定性与钻孔精度；同时也能适合单粒快速夹具夹持。

◎选用超硬高速钢，结合分层切削及低摩擦力切削几何，获得良好耐磨性能与排屑性能；

◎适合在欧霸、欧博、百德、锐科等国内外磁座钻机以及各类钻床、车床等机械设备上钻孔或环形槽加工。

◎Weldon shank + 1 additional hole, with stable clamping force, better stability for hole cutting and better precision of holes. Suitable for quick-change arbor with one bal;

◎Made of super tough high speed steel with multi-cut geometry for ply-cutting and lower friction to reach better performance of endurance and removal of chips;

◎Applicable to hole cutting and process of annular groove on various magnetic drills and press, like Alfa, Euroboor, BDS, Ruko.

匹配的顶针 Suitable pins



型号 Type	规格 Size	配刀直径 Matching Cutter
DPB-62077	6.34/5.3*77	12mm-40mm

型号 Type	规格 Size	型号 Type	规格 Size
DNHK-40120	12*50	DNHK-40350	35*50
DNHK-40130	13*50	DNHK-40360	36*50
DNHK-40140	14*50	DNHK-40370	37*50
DNHK-40150	15*50	DNHK-40380	38*50
DNHK-40160	16*50	DNHK-40390	39*50
DNHK-40170	17*50	DNHK-40400	40*50
DNHK-40175	17.5*50		
DNHK-40180	18*50		
DNHK-40185	18.5*50		
DNHK-40190	19*50		
DNHK-40200	20*50		
DNHK-40210	21*50		
DNHK-40215	21.5*50		
DNHK-40220	22*50		
DNHK-40225	22.5*50		
DNHK-40230	23*50		
DNHK-40240	24*50		
DNHK-40250	25*50		
DNHK-40260	26*50		
DNHK-40270	27*50		
DNHK-40280	28*50		
DNHK-40290	29*50		
DNHK-40300	30*50		
DNHK-40310	31*50		
DNHK-40320	32*50		
DNHK-40330	33*50		
DNHK-40340	34*50		

◎单孔直角柄型，有稳固的夹持力，更好的钻孔稳定性与钻孔精度；同时也能适合单粒快速夹具夹持；

◎选用超硬高速钢，结合分层切削及低摩擦力切削几何，获得良好耐磨性能与排屑性能；

◎适合在欧霸、欧博、百德、锐科等国内外磁座钻机以及各类钻床、车床等机械设备上钻孔或环形槽加工。

◎Weldon shank + 1 additional hole, with stable clamping force, better stability for hole cutting and better precision of holes. Suitable for quick-change arbor with one bal;

◎Made of super tough high speed steel with multi-cut geometry for ply-cutting and lower friction to reach better performance of endurance and removal of chips;

◎Applicable to hole cutting and process of annular groove on various magnetic drills and press, like Alfa, Euroboor, BDS, Ruko.

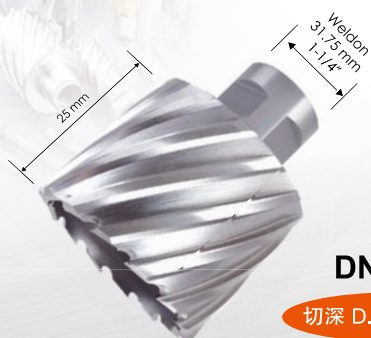
匹配的顶针 Suitable pins



型号 Type	规格 Size	配刀直径 Matching Cutter
DPB-62102	6.34/5.3*102	12mm-40mm

高速钢P型直角柄钢板钻 HSS-E annular cutter with weldon shank

DNHP系列Range



DNHP-2

切深 D.O.C. 25mm



DNHP-4

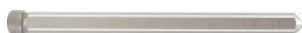
切深 D.O.C. 50mm

单位 Unit: mm

型号 Type	规格 Size	型号 Type	规格 Size
DNHP-20610	61*25		
DNHP-20620	62*25		
DNHP-20630	63*25		
DNHP-20640	64*25		
DNHP-20650	65*25		
DNHP-20700	70*25		
DNHP-20750	75*25		
DNHP-20800	80*25		
DNHP-20850	85*25		
DNHP-20900	90*25		
DNHP-20950	95*25		
DNHP-21000	100*25		

- ◎直角柄型，有稳固的夹持力，更好的钻孔稳定性与钻孔精度；
- ◎选用超硬高速钢，结合分层切削及低摩擦力切削几何，获得良好耐磨性能与排屑性能；
- ◎适合在欧霸、获劲、百得、锐科等国内外大型磁座钻机以及各类大型钻床、车床等机械设备上进行钻孔或环形槽加工。
- ◎Weldon shank, with more stable clamping for stable cutting and finish of holes;
- ◎Made of super tough high speed steel with multi-cut geometry for ply-cutting and lower friction to reach better performance of endurance and removal of chips.
- ◎Applicable to hole cutting and process of annular groove on various magnetic drills and press, like Alfa, Hougen, Jancy, Euroboor, BDS, Ruko.

匹配的顶针 Suitable pins



型号 Type	规格 Size	配刀直径 Matching Cutter
DPB-81090	7.98*90	≥61mm

单位 Unit: mm

型号 Type	规格 Size	型号 Type	规格 Size
DNHP-40610	61*50		
DNHP-40620	62*50		
DNHP-40630	63*50		
DNHP-40640	64*50		
DNHP-40650	65*50		
DNHP-40700	70*50		
DNHP-40750	75*50		
DNHP-40800	80*50		
DNHP-40850	85*50		
DNHP-40900	90*50		
DNHP-40950	95*50		
DNHP-41000	100*50		

- ◎直角柄型，有稳固的夹持力，更好的钻孔稳定性与钻孔精度；
- ◎选用超硬高速钢，结合分层切削及低摩擦力切削几何，获得良好耐磨性能与排屑性能；
- ◎适合在欧霸、获劲、百得、锐科等国内外大型磁座钻机以及各类大型钻床、车床等机械设备上进行钻孔或环形槽加工。
- ◎Weldon shank, with more stable clamping for stable cutting and finish of holes;
- ◎Made of super tough high speed steel with multi-cut geometry for ply-cutting and lower friction to reach better performance of endurance and removal of chips.
- ◎Applicable to hole cutting and process of annular groove on various magnetic drills and press, like Alfa, Hougen, Jancy, Euroboor, BDS, Ruko.

匹配的顶针 Suitable pins



型号 Type	规格 Size	配刀直径 Matching Cutter
DPB-81118	7.98*118	≥61mm

高速钢四孔柄钢板钻 HSS-E annular cutter with FEIN Quick-IN shank



DNHF-3

切深 D.O.C. 35mm



DNHF-4

切深 D.O.C. 50mm

DNHF系列Range

单位 Unit: mm

型号 Type	规格 Size	型号 Type	规格 Size
DNHF-30120	12*35	DNHF-30370	37*35
DNHF-30130	13*35	DNHF-30380	38*35
DNHF-30140	14*35	DNHF-30390	39*35
DNHF-30150	15*35	DNHF-30400	40*35
DNHF-30160	16*35	DNHF-30410	41*35
DNHF-30170	17*35	DNHF-30420	42*35
DNHF-30180	18*35	DNHF-30430	43*35
DNHF-30190	19*35	DNHF-30440	44*35
DNHF-30200	20*35	DNHF-30450	45*35
DNHF-30210	21*35	DNHF-30460	46*35
DNHF-30220	22*35	DNHF-30470	47*35
DNHF-30230	23*35	DNHF-30480	48*35
DNHF-30240	24*35	DNHF-30490	49*35
DNHF-30250	25*35	DNHF-30500	50*35
DNHF-30260	26*35	DNHF-30510	51*35
DNHF-30270	27*35	DNHF-30520	52*35
DNHF-30280	28*35	DNHF-30530	53*35
DNHF-30290	29*35	DNHF-30540	54*35
DNHF-30300	30*35	DNHF-30550	55*35
DNHF-30310	31*35	DNHF-30560	56*35
DNHF-30320	32*35	DNHF-30570	57*35
DNHF-30330	33*35	DNHF-30580	58*35
DNHF-30340	34*35	DNHF-30590	59*35
DNHF-30350	35*35	DNHF-30600	60*35
DNHF-30360	36*35		

单位 Unit: mm

型号 Type	规格 Size	型号 Type	规格 Size
DNHF-40120	12*50	DNHF-40370	37*50
DNHF-40130	13*50	DNHF-40380	38*50
DNHF-40140	14*50	DNHF-40390	39*50
DNHF-40150	15*50	DNHF-40400	40*50
DNHF-40160	16*50	DNHF-40410	41*50
DNHF-40170	17*50	DNHF-40420	42*50
DNHF-40180	18*50	DNHF-40430	43*50
DNHF-40190	19*50	DNHF-40440	44*50
DNHF-40200	20*50	DNHF-40450	45*50
DNHF-40210	21*50	DNHF-40460	46*50
DNHF-40220	22*50	DNHF-40470	47*50
DNHF-40230	23*50	DNHF-40480	48*50
DNHF-40240	24*50	DNHF-40490	49*50
DNHF-40250	25*50	DNHF-40500	50*50
DNHF-40260	26*50	DNHF-40510	51*50
DNHF-40270	27*50	DNHF-40520	52*50
DNHF-40280	28*50	DNHF-40530	53*50
DNHF-40290	29*50	DNHF-40540	54*50
DNHF-40300	30*50	DNHF-40550	55*50
DNHF-40310	31*50		
DNHF-40320	32*50		
DNHF-40330	33*50		
DNHF-40340	34*50		
DNHF-40350	35*50		
DNHF-40360	36*50		

- 直径18mm四孔柄，适合Fein等钻机的专用快速接口；
- 选用超硬高速钢，结合分层切削及低摩擦力切削几何，获得良好耐磨性能与排屑性能。
- 18mm Fein Quick-IN shank. Suitable on Fein Magnetic drills;
- Made of super tough high speed steel with multi-cut geometry for ply-cutting and lower friction to reach better performance of endurance and removal of chips.

- 直径18mm四孔柄，适合Fein等钻机的专用快速接口；
- 选用超硬高速钢，结合分层切削及低摩擦力切削几何，获得良好耐磨性能与排屑性能。
- 18mm Fein Quick-IN shank. Suitable on Fein Magnetic drills;
- Made of super tough high speed steel with multi-cut geometry for ply-cutting and lower friction to reach better performance of endurance and removal of chips.

匹配的顶针 Suitable pins



型号 Type	规格 Size	配刀直径 Matching Cutter
DPB-62090	6.34/5.3*90	12mm~60mm

匹配的顶针 Suitable pins



型号 Type	规格 Size	配刀直径 Matching Cutter
DPB-62102	6.34/5.3*102	12mm~55mm

高速钢螺纹柄钢板钻&R型柄钢板钻

HSS annular cutter with thread shank & round shank (version R)



DNHL-4

切深 D.O.C. 50mm



DNHR-2

切深 D.O.C. 25mm

单位 Unit: mm

型号 Type	规格 Size	型号 Type	规格 Size
DNHL-40120	12*50	DNHL-40370	37*50
DNHL-40130	13*50	DNHL-40380	38*50
DNHL-40140	14*50	DNHL-40390	39*50
DNHL-40150	15*50	DNHL-40400	40*50
DNHL-40160	16*50	DNHL-40410	41*50
DNHL-40170	17*50	DNHL-40420	42*50
DNHL-40180	18*50	DNHL-40430	43*50
DNHL-40190	19*50	DNHL-40440	44*50
DNHL-40200	20*50	DNHL-40450	45*50
DNHL-40210	21*50	DNHL-40460	46*50
DNHL-40220	22*50	DNHL-40470	47*50
DNHL-40230	23*50	DNHL-40480	48*50
DNHL-40240	24*50	DNHL-40490	49*50
DNHL-40250	25*50	DNHL-40500	50*50
DNHL-40260	26*50		
DNHL-40270	27*50		
DNHL-40280	28*50		
DNHL-40290	29*50		
DNHL-40300	30*50		
DNHL-40310	31*50		
DNHL-40320	32*50		
DNHL-40330	33*50		
DNHL-40340	34*50		
DNHL-40350	35*50		
DNHL-40360	36*50		

单位 Unit: mm

型号 Type	规格 Size	型号 Type	规格 Size
DNHR-20120	12*25		
DNHR-20130	13*25		
DNHR-20140	14*25		
DNHR-20150	15*25		
DNHR-20160	16*25		
DNHR-20170	17*25		
DNHR-20180	18*25		
DNHR-20190	19*25		
DNHR-20200	20*25		
DNHR-20210	21*25		
DNHR-20220	22*25		
DNHR-20230	23*25		
DNHR-20240	24*25		
DNHR-20250	25*25		
DNHR-20260	26*25		
DNHR-20270	27*25		
DNHR-20280	28*25		
DNHR-20290	29*25		
DNHR-20300	30*25		
DNHR-20310	31*25		
DNHR-20320	32*25		

- ◎ M18*6/P1.5螺纹柄，适合Fein等钻机专用接口；
- ◎ 选用超硬高速钢，结合分层切削及低摩擦力切削几何，获得良好耐磨性能与排屑性能。
- ◎ M18*6/P1.5 thread shank. Suitable on Fein magnetic drills;
- ◎ Made of super tough high speed steel with multi-cut geometry for ply-cutting and lower friction to reach better performance of endurance and removal of chips.

- ◎ 圆销快速柄，有稳固的夹持力，更好的钻孔稳定性与钻孔精度；同时也能适合单粒快速夹具夹持；
- ◎ 选用超硬高速钢，结合分层切削及低摩擦力切削几何，获得良好耐磨性能与排屑性能；
- ◎ 适合在获劲等进口磁力钻机设备上进行钻孔或环形槽加工。

- ◎ Round pin handle fast, strong clamping force better borehole stability and drilling accuracy; also suitable for the rapid fixture holding single grain;
- ◎ Optional superhard high-speed steel cutting geometry combined with the hierarchical cutting and low friction, good wear resistance and chip evacuation;
- ◎ Fit was fresh import magnetic drilling equipment for drilling or annular groove processing.

匹配的夹具 Suitable arbors



型号 Type	规格 Size
DJLY-50K-MT2	MT2*50*M18

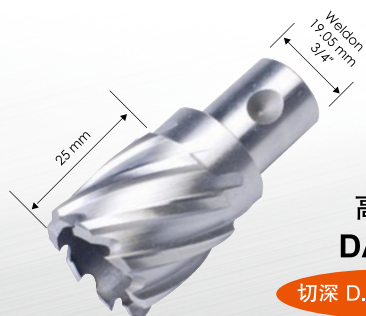
匹配的顶针 Suitable pins



型号 Type	规格 Size	配刀直径 Matching Cutter
DPB-41062	4.76*62	12mm~32mm

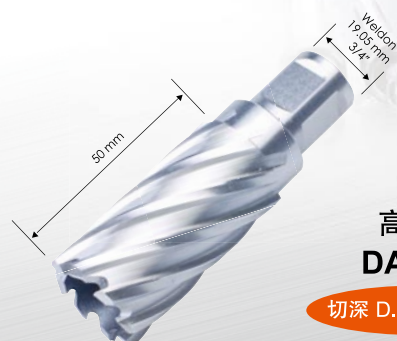
高性能高速钢钢板钻

HSS annular cutter (High performance version)



高性能
DAHK-2

切深 D.O.C. 25mm



高性能
DAHK-4

切深 D.O.C. 50mm

DAHK系列Range



单位 Unit: mm

型号 Type	规格 Size	型号 Type	规格 Size
DAHK-20120	12*25	DAHK-20370	37*25
DAHK-20130	13*25	DAHK-20380	38*25
DAHK-20140	14*25	DAHK-20390	39*25
DAHK-20150	15*25	DAHK-20400	40*25
DAHK-20160	16*25		
DAHK-20170	17*25		
DAHK-20180	18*25		
DAHK-20190	19*25		
DAHK-20200	20*25		
DAHK-20210	21*25		
DAHK-20220	22*25		
DAHK-20230	23*25		
DAHK-20240	24*25		
DAHK-20250	25*25		
DAHK-20260	26*25		
DAHK-20270	27*25		
DAHK-20280	28*25		
DAHK-20290	29*25		
DAHK-20300	30*25		
DAHK-20310	31*25		
DAHK-20320	32*25		
DAHK-20330	33*25		
DAHK-20340	34*25		
DAHK-20350	35*25		
DAHK-20360	36*25		

◎选用高性能超硬高速钢，结合分层切削及低摩擦切削几何，保持更持久的耐磨性，适合难加工的材料钻孔；

◎根据客户要求，可进行TiN、TiAlN表面涂层；

◎适合在欧霸、获劲、祥喜、欧博、百德、锐科等国内外磁座钻机以及各类钻床、车床等机械设备上进行钻孔或环形槽加工。

◎Made of high quality & super tough high speed steel with multi-cut geometry for ply-cutting and lower friction to reach better endurance and less breakage.

Applicable to hole cutting on hard-cut materials;

◎TiN or TiAlN coating are available upon request;

◎Applicable to hole cutting and process of annular groove on various magnetic drills and press, like Alfra, Hougen, Jancy, Euroboor, BDS, Ruko.

匹配的顶针 Suitable pins



型号 Type	规格 Size	配刀直径 Matching Cutter
DPB-62077	6.34/5.3*77	12mm~40mm



单位 Unit: mm

型号 Type	规格 Size	型号 Type	规格 Size
DAHK-40120	12*50	DAHK-40370	37*50
DAHK-40130	13*50	DAHK-40380	38*50
DAHK-40140	14*50	DAHK-40390	39*50
DAHK-40150	15*50	DAHK-40400	40*50
DAHK-40160	16*50		
DAHK-40170	17*50		
DAHK-40180	18*50		
DAHK-40190	19*50		
DAHK-40200	20*50		
DAHK-40210	21*50		
DAHK-40220	22*50		
DAHK-40230	23*50		
DAHK-40240	24*50		
DAHK-40250	25*50		
DAHK-40260	26*50		
DAHK-40270	27*50		
DAHK-40280	28*50		
DAHK-40290	29*50		
DAHK-40300	30*50		
DAHK-40310	31*50		
DAHK-40320	32*50		
DAHK-40330	33*50		
DAHK-40340	34*50		
DAHK-40350	35*50		
DAHK-40360	36*50		

◎选用高性能超硬高速钢，结合分层切削及低摩擦切削几何，保持更持久的耐磨性，适合难加工的材料钻孔；

◎根据客户要求，可进行TiN、TiAlN表面涂层；

◎适合在欧霸、获劲、祥喜、欧博、百德、锐科等国内外磁座钻机以及各类钻床、车床等机械设备上进行钻孔或环形槽加工。

◎Made of high quality & super tough high speed steel with multi-cut geometry for ply-cutting and lower friction to reach better endurance and less breakage.

Applicable to hole cutting on hard-cut materials;

◎TiN or TiAlN coating are available upon request;

◎Applicable to hole cutting and process of annular groove on various magnetic drills and press, like Alfra, Hougen, Jancy, Euroboor, BDS, Ruko.

匹配的顶针 Suitable pins



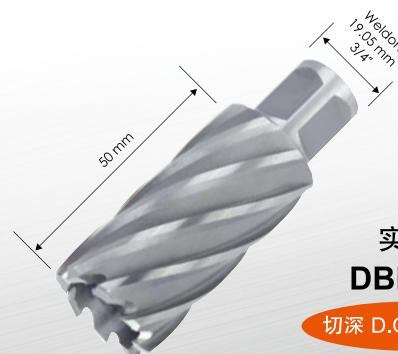
型号 Type	规格 Size	配刀直径 Matching Cutter
DPB-62102	6.34/5.3*102	12mm~40mm

实用型高速钢钢板钻 HSS annular cutter (Practical version)



实用型
DBHX-2

切深 D.O.C. 25mm



实用型
DBHX-4

切深 D.O.C. 50mm

单位 Unit: mm

型号 Type	规格 Size	型号 Type	规格 Size
DBHX-20120	12*25	DBHX-20370	37*25
DBHX-20130	13*25	DBHX-20380	38*25
DBHX-20140	14*25	DBHX-20390	39*25
DBHX-20150	15*25	DBHX-20400	40*25
DBHX-20160	16*25	DBHX-20410	41*25
DBHX-20170	17*25	DBHX-20420	42*25
DBHX-20180	18*25	DBHX-20430	43*25
DBHX-20190	19*25	DBHX-20440	44*25
DBHX-20200	20*25	DBHX-20450	45*25
DBHX-20210	21*25	DBHX-20460	46*25
DBHX-20220	22*25	DBHX-20470	47*25
DBHX-20230	23*25	DBHX-20480	48*25
DBHX-20240	24*25	DBHX-20490	49*25
DBHX-20250	25*25	DBHX-20500	50*25
DBHX-20260	26*25	DBHX-20510	51*25
DBHX-20270	27*25	DBHX-20520	52*25
DBHX-20280	28*25	DBHX-20530	53*25
DBHX-20290	29*25	DBHX-20540	54*25
DBHX-20300	30*25	DBHX-20550	55*25
DBHX-20310	31*25	DBHX-20560	56*25
DBHX-20320	32*25	DBHX-20570	57*25
DBHX-20330	33*25	DBHX-20580	58*25
DBHX-20340	34*25	DBHX-20590	59*25
DBHX-20350	35*25	DBHX-20600	60*25
DBHX-20360	36*25		

单位 Unit: mm

型号 Type	规格 Size	型号 Type	规格 Size
DBHX-40120	12*50	DBHX-40370	37*50
DBHX-40130	13*50	DBHX-40380	38*50
DBHX-40140	14*50	DBHX-40390	39*50
DBHX-40150	15*50	DBHX-40400	40*50
DBHX-40160	16*50	DBHX-40410	41*50
DBHX-40170	17*50	DBHX-40420	42*50
DBHX-40180	18*50	DBHX-40430	43*50
DBHX-40190	19*50	DBHX-40440	44*50
DBHX-40200	20*50	DBHX-40450	45*50
DBHX-40210	21*50	DBHX-40460	46*50
DBHX-40220	22*50	DBHX-40470	47*50
DBHX-40230	23*50	DBHX-40480	48*50
DBHX-40240	24*50	DBHX-40490	49*50
DBHX-40250	25*50	DBHX-40500	50*50
DBHX-40260	26*50	DBHX-40510	51*50
DBHX-40270	27*50	DBHX-40520	52*50
DBHX-40280	28*50	DBHX-40530	53*50
DBHX-40290	29*50	DBHX-40540	54*50
DBHX-40300	30*50	DBHX-40550	55*50
DBHX-40310	31*50	DBHX-40560	56*50
DBHX-40320	32*50	DBHX-40570	57*50
DBHX-40330	33*50	DBHX-40580	58*50
DBHX-40340	34*50	DBHX-40590	59*50
DBHX-40350	35*50	DBHX-40600	60*50
DBHX-40360	36*50		

- 选用质量稳定的国标高速钢制成，分层端刃几何，保持良好的排屑性能；
- 适合在欧霸、欧博、百德、锐科等国内外磁座钻机以及各类钻床、车床等机械设备上进行钻孔或环形槽加工。
- Made of national-standard high speed steel with multi-cut geometry for ply-cutting to reach better removal of chips;
- Applicable to hole cutting and process of annular groove on various magnetic drills and press, like Alfra, Euroboor, BDS, Ruko.

- 选用质量稳定的国标高速钢制成，分层端刃几何，保持良好的排屑性能；
- 适合在欧霸、欧博、百德、锐科等国内外磁座钻机以及各类钻床、车床等机械设备上进行钻孔或环形槽加工。
- Made of national-standard high speed steel with multi-cut geometry for ply-cutting to reach better removal of chips;
- Applicable to hole cutting and process of annular groove on various magnetic drills and press, like Alfra, Euroboor, BDS, Ruko.

匹配的顶针 Suitable pins



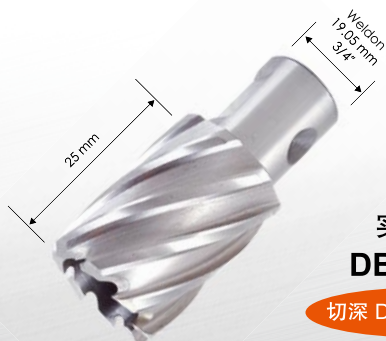
型号 Type	规格 Size	配刀直径 Matching Cutter
DPB-62077	6.34/5.3*77	12mm-60mm

匹配的顶针 Suitable pins



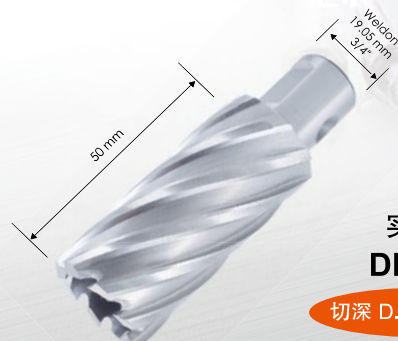
型号 Type	规格 Size	配刀直径 Matching Cutter
DPB-62102	6.34/5.3*102	12mm-60mm

实用型高速钢钢板钻 HSS annular cutter (Practical version)



实用型
DBHK-2

切深 D.O.C. 25mm



实用型
DBHK-4

切深 D.O.C. 50mm

单位 Unit: mm

型号 Type	规格 Size	型号 Type	规格 Size
DBHK-20120	12*25	DBHK-20370	37*25
DBHK-20130	13*25	DBHK-20380	38*25
DBHK-20140	14*25	DBHK-20390	39*25
DBHK-20150	15*25	DBHK-20400	40*25
DBHK-20160	16*25		
DBHK-20170	17*25		
DBHK-20180	18*25		
DBHK-20190	19*25		
DBHK-20200	20*25		
DBHK-20210	21*25		
DBHK-20220	22*25		
DBHK-20230	23*25		
DBHK-20240	24*25		
DBHK-20250	25*25		
DBHK-20260	26*25		
DBHK-20270	27*25		
DBHK-20280	28*25		
DBHK-20290	29*25		
DBHK-20300	30*25		
DBHK-20310	31*25		
DBHK-20320	32*25		
DBHK-20330	33*25		
DBHK-20340	34*25		
DBHK-20350	35*25		
DBHK-20360	36*25		

- ◎选用质量稳定的国标高速钢制成，分层端刃几何，保持良好的排屑性能；
- ◎适合在欧霸、欧博、百德、锐科等国内外磁座钻机以及各类钻床、车床等机械设备上进行钻孔或环形槽加工。
- ◎Made of national-standard high speed steel with multi-cut geometry for ply-cutting to reach better removal of chips;
- ◎Applicable to hole cutting and process of annular groove on various magnetic drills and press, like Alfra, Euroboor, BDS, Ruko.

匹配的顶针 Suitable pins



型号 Type	规格 Size	配刀直径 Matching Cutter
DPB-62077	6.34/5.3*77	12mm-40mm

单位 Unit: mm

型号 Type	规格 Size	型号 Type	规格 Size
DBHK-40120	12*50	DBHK-40370	37*50
DBHK-40130	13*50	DBHK-40380	38*50
DBHK-40140	14*50	DBHK-40390	39*50
DBHK-40150	15*50	DBHK-40400	40*50
DBHK-40160	16*50		
DBHK-40170	17*50		
DBHK-40180	18*50		
DBHK-40190	19*50		
DBHK-40200	20*50		
DBHK-40210	21*50		
DBHK-40220	22*50		
DBHK-40230	23*50		
DBHK-40240	24*50		
DBHK-40250	25*50		
DBHK-40260	26*50		
DBHK-40270	27*50		
DBHK-40280	28*50		
DBHK-40290	29*50		
DBHK-40300	30*50		
DBHK-40310	31*50		
DBHK-40320	32*50		
DBHK-40330	33*50		
DBHK-40340	34*50		
DBHK-40350	35*50		
DBHK-40360	36*50		

- ◎选用质量稳定的国标高速钢制成，分层端刃几何，保持良好的排屑性能；
- ◎适合在欧霸、欧博、百德、锐科等国内外磁座钻机以及各类钻床、车床等机械设备上进行钻孔或环形槽加工。
- ◎Made of national-standard high speed steel with multi-cut geometry for ply-cutting to reach better removal of chips;
- ◎Applicable to hole cutting and process of annular groove on various magnetic drills and press, like Alfra, Euroboor, BDS, Ruko.

匹配的顶针 Suitable pins



型号 Type	规格 Size	配刀直径 Matching Cutter
DPB-62102	6.34/5.3*102	12mm-40mm

高速钢通用柄钢板钻(英制) HSS-E annular cutter with Universal shank (Imperial size)



DNHC-B
(英制 Imperial)

切深 D.O.C. 1"



DNHC-D
(英制 Imperial)

切深 D.O.C. 2"

单位 Unit: inch

型号 Type	规格 Size	型号 Type	规格 Size
DNHC-B0437	7/16"×1"	DNHC-B2000	2"×1"
DNHC-B0500	1/2"×1"	DNHC-B2062	2-1/16"×1"
DNHC-B0562	9/16"×1"	DNHC-B2125	2-1/8"×1"
DNHC-B0625	5/8"×1"	DNHC-B2187	2-3/16"×1"
DNHC-B0687	11/16"×1"	DNHC-B2250	2-1/4"×1"
DNHC-B0750	3/4"×1"	DNHC-B2312	2-5/16"×1"
DNHC-B0812	13/16"×1"	DNHC-B2375	2-3/8"×1"
DNHC-B0875	7/8"×1"		
DNHC-B0937	15/16"×1"		
DNHC-B1000	1"×1"		
DNHC-B1062	1-1/16"×1"		
DNHC-B1125	1-1/8"×1"		
DNHC-B1187	1-3/16"×1"		
DNHC-B1250	1-1/4"×1"		
DNHC-B1312	1-5/16"×1"		
DNHC-B1375	1-3/8"×1"		
DNHC-B1437	1-7/16"×1"		
DNHC-B1500	1-1/2"×1"		
DNHC-B1562	1-9/16"×1"		
DNHC-B1625	1-5/8"×1"		
DNHC-B1687	1-11/16"×1"		
DNHC-B1750	1-3/4"×1"		
DNHC-B1812	1-13/16"×1"		
DNHC-B1875	1-7/8"×1"		
DNHC-B1937	1-15/16"×1"		

注 公制规格详见第26页 Note: Metric size on Page 26

- 通用柄型，适合多种钻机接口；
- 选用超硬高速钢，结合分层切削与低摩擦力切削几何，获得良好耐磨性能与排屑性能；
- 适合在各种磁座钻机、钻床等机械装备上进行钻孔或环形槽加工。
- Universal shank for various magnetic drills;
- Made of super tough high speed steel with multi-cut geometry for ply-cutting and lower friction to reach better performance of endurance and removal of chips;
- Applicable to hole cutting and process of annular groove on various magnetic drills and press.

匹配的顶针 Suitable pins



型号 Type	规格 Size (mm)	配刀直径 Matching Cutter
DPB-42077	4.74×77	7/16"
DPB-62077	6.34/5.3×77	1/2" ~ 2-3/8"

单位 Unit: inch

型号 Type	规格 Size	型号 Type	规格 Size
DNHC-D0437	7/16"×2"	DNHC-D2000	2"×2"
DNHC-D0500	1/2"×2"	DNHC-D2062	2-1/16"×2"
DNHC-D0562	9/16"×2"	DNHC-D2125	2-1/8"×2"
DNHC-D0625	5/8"×2"	DNHC-D2187	2-3/16"×2"
DNHC-D0687	11/16"×2"	DNHC-D2250	2-1/4"×2"
DNHC-D0750	3/4"×2"	DNHC-D2312	2-5/16"×2"
DNHC-D0812	13/16"×2"	DNHC-D2375	2-3/8"×2"
DNHC-D0875	7/8"×2"		
DNHC-D0937	15/16"×2"		
DNHC-D1000	1"×2"		
DNHC-D1062	1-1/16"×2"		
DNHC-D1125	1-1/8"×2"		
DNHC-D1187	1-3/16"×2"		
DNHC-D1250	1-1/4"×2"		
DNHC-D1312	1-5/16"×2"		
DNHC-D1375	1-3/8"×2"		
DNHC-D1437	1-7/16"×2"		
DNHC-D1500	1-1/2"×2"		
DNHC-D1562	1-9/16"×2"		
DNHC-D1625	1-5/8"×2"		
DNHC-D1687	1-11/16"×2"		
DNHC-D1750	1-3/4"×2"		
DNHC-D1812	1-13/16"×2"		
DNHC-D1875	1-7/8"×2"		
DNHC-D1937	1-15/16"×2"		

注 公制规格详见第26页 Note: Metric size on Page 26

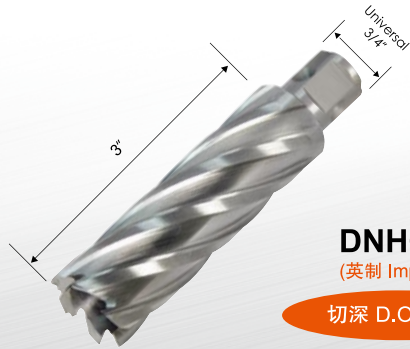
- 通用柄型，适合多种钻机接口；
- 选用超硬高速钢，结合分层切削与低摩擦力切削几何，获得良好耐磨性能与排屑性能；
- 适合在各种磁座钻机、钻床等机械装备上进行钻孔或环形槽加工。
- Universal shank for various magnetic drills;
- Made of super tough high speed steel with multi-cut geometry for ply-cutting and lower friction to reach better performance of endurance and removal of chips;
- Applicable to hole cutting and process of annular groove on various magnetic drills and press.

匹配的顶针 Suitable pins



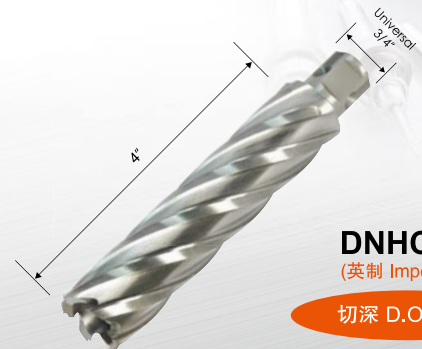
型号 Type	规格 Size (mm)	配刀直径 Matching Cutter
DPB-42102	4.74×102	7/16"
DPB-62102	6.34/5.3×102	1/2" ~ 2-3/8"

高速钢通用柄钢板钻(英制) HSS-E annular cutter with Universal shank (Imperial size)



DNHC-E
(英制 Imperial)

切深 D.O.C. 3"



DNHC-F
(英制 Imperial)

切深 D.O.C. 4"

单位 Unit: inch

型号 Type	规格 Size	型号 Type	规格 Size
DNHC-E0687	11/16"×3"		
DNHC-E0750	3/4"×3"		
DNHC-E0812	13/16"×3"		
DNHC-E0875	7/8"×3"		
DNHC-E0937	15/16"×3"		
DNHC-E1000	1"×3"		
DNHC-E1062	1-1/16"×3"		
DNHC-E1125	1-1/8"×3"		
DNHC-E1187	1-3/16"×3"		
DNHC-E1250	1-1/4"×3"		
DNHC-E1312	1-5/16"×3"		
DNHC-E1375	1-3/8"×3"		
DNHC-E1437	1-7/16"×3"		
DNHC-E1500	1-1/2"×3"		
DNHC-E1562	1-9/16"×3"		
DNHC-E1625	1-5/8"×3"		
DNHC-E1687	1-11/16"×3"		
DNHC-E1750	1-3/4"×3"		
DNHC-E1812	1-13/16"×3"		
DNHC-E1875	1-7/8"×3"		
DNHC-E1937	1-15/16"×3"		
DNHC-E2000	2"×3"		

注 公制规格详见第27页 Note: Metric size on Page 27

- 通用柄型，适合多种钻机接口；
- 选用超硬高速钢，结合分层切削与低摩擦力切削几何，获得良好耐磨性能与排屑性能；
- 适合在各种磁座钻机、钻床等机械设备上进行钻孔或环形槽加工。
- Universal shank for various magnetic drills;
- Made of super tough high speed steel with multi-cut geometry for ply-cutting and lower friction to reach better performance of endurance and removal of chips;
- Applicable to hole cutting and process of annular groove on various magnetic drills and press.

匹配的顶针 Suitable pins



型号 Type	规格Size (mm)	配刀直径 Matching Cutter
DPB-81130	7.98*130	11/16"~2"
DPT-82130	7.98*130	11/16"~2"

单位 Unit: inch

型号 Type	规格 Size	型号 Type	规格 Size
DNHC-F0687	11/16"×4"		
DNHC-F0750	3/4"×4"		
DNHC-F0812	13/16"×4"		
DNHC-F0875	7/8"×4"		
DNHC-F0937	15/16"×4"		
DNHC-F1000	1"×4"		
DNHC-F1062	1-1/16"×4"		
DNHC-F1125	1-1/8"×4"		
DNHC-F1187	1-3/16"×4"		
DNHC-F1250	1-1/4"×4"		
DNHC-F1312	1-5/16"×4"		
DNHC-F1375	1-3/8"×4"		
DNHC-F1437	1-7/16"×4"		
DNHC-F1500	1-1/2"×4"		
DNHC-F1562	1-9/16"×4"		
DNHC-F1625	1-5/8"×4"		
DNHC-F1687	1-11/16"×4"		
DNHC-F1750	1-3/4"×4"		
DNHC-F1812	1-13/16"×4"		
DNHC-F1875	1-7/8"×4"		
DNHC-F1937	1-15/16"×4"		
DNHC-F2000	2"×4"		

注 公制规格详见第27页 Note: Metric size on Page 27

- 通用柄型，适合多种钻机接口；
- 选用超硬高速钢，结合分层切削与低摩擦力切削几何，获得良好耐磨性能与排屑性能；
- 适合在各种磁座钻机、钻床等机械设备上进行钻孔或环形槽加工。
- Universal shank for various magnetic drills;
- Made of super tough high speed steel with multi-cut geometry for ply-cutting and lower friction to reach better performance of endurance and removal of chips;
- Applicable to hole cutting and process of annular groove on various magnetic drills and press.

匹配的顶针 Suitable pins



型号 Type	规格Size (mm)	配刀直径 Matching Cutter
DPB-81160	7.98*160	11/16"~2"
DPT-82157	7.98*157	11/16"~2"

高速钢直角柄钢板钻(英制)

HSS-E annular cutter with weldon shank (Imperial size)



DNHX-B

(英制 Imperial)

切深 D.O.C. 1"



DNHX-D

(英制 Imperial)

切深 D.O.C. 2"

单位 Unit: inch

型号 Type	规格 Size	型号 Type	规格 Size
DNHX-B0437	7/16"×1"	DNHX-B2000	2"×1"
DNHX-B0500	1/2"×1"	DNHX-B2062	2-1/16"×1"
DNHX-B0562	9/16"×1"	DNHX-B2125	2-1/8"×1"
DNHX-B0625	5/8"×1"	DNHX-B2187	2-3/16"×1"
DNHX-B0687	11/16"×1"	DNHX-B2250	2-1/4"×1"
DNHX-B0750	3/4"×1"	DNHX-B2312	2-5/16"×1"
DNHX-B0812	13/16"×1"	DNHX-B2375	2-3/8"×1"
DNHX-B0875	7/8"×1"		
DNHX-B0937	15/16"×1"		
DNHX-B1000	1"×1"		
DNHX-B1062	1-1/16"×1"		
DNHX-B1125	1-1/8"×1"		
DNHX-B1187	1-3/16"×1"		
DNHX-B1250	1-1/4"×1"		
DNHX-B1312	1-5/16"×1"		
DNHX-B1375	1-3/8"×1"		
DNHX-B1437	1-7/16"×1"		
DNHX-B1500	1-1/2"×1"		
DNHX-B1562	1-9/16"×1"		
DNHX-B1625	1-5/8"×1"		
DNHX-B1687	1-11/16"×1"		
DNHX-B1750	1-3/4"×1"		
DNHX-B1812	1-13/16"×1"		
DNHX-B1875	1-7/8"×1"		
DNHX-B1937	1-15/16"×1"		

注 公制规格详见第28页 Note: Metric size on Page 28

- ◎直角柄型，有稳固的夹持力，更好的钻孔稳定性与钻孔精度；
- ◎选用超硬高速钢，结合分层切削及低摩擦系数切削几何，获得良好耐磨性能与排屑性能；
- ◎适合在欧霸、获劲、祥喜、欧博、百德、锐科等国内外磁座钻机以及各类钻床、车床等机械设备上进行钻孔或环形槽加工；
- ◎直径40mm以下为单孔直角柄，可同时适合直角柄夹持与单孔快速夹具夹持。
- ◎Weldon shank, with more stable clamping for stable cutting and finish of holes;
- ◎Made of super tough high speed steel with multi-cut geometry for ply-cutting and lower friction to reach better performance of endurance and removal of chips;
- ◎Applicable to hole cutting and process of annular groove on various magnetic drills and press, like Alfra, Hougen, Jancy, Euroboor, BDS, Ruko;
- ◎Additional one hole on the shank of cutters ≤Φ40mm, fit arbors with 19.05 bore as well as quick-change system.

匹配的顶针 Suitable pins



型号 Type	规格 Size (mm)	配刀直径 Matching Cutter
DPB-42077	4.74*77	7/16"
DPB-62077	6.34/5.3*77	1/2" ~ 2-3/8"

单位 Unit: inch

型号 Type	规格 Size	型号 Type	规格 Size
DNHX-D0437	7/16"×2"	DNHX-D2000	2"×2"
DNHX-D0500	1/2"×2"	DNHX-D2062	2-1/16"×2"
DNHX-D0562	9/16"×2"	DNHX-D2125	2-1/8"×2"
DNHX-D0625	5/8"×2"	DNHX-D2187	2-3/16"×2"
DNHX-D0687	11/16"×2"	DNHX-D2250	2-1/4"×2"
DNHX-D0750	3/4"×2"	DNHX-D2312	2-5/16"×2"
DNHX-D0812	13/16"×2"	DNHX-D2375	2-3/8"×2"
DNHX-D0875	7/8"×2"		
DNHX-D0937	15/16"×2"		
DNHX-D1000	1"×2"		
DNHX-D1062	1-1/16"×2"		
DNHX-D1125	1-1/8"×2"		
DNHX-D1187	1-3/16"×2"		
DNHX-D1250	1-1/4"×2"		
DNHX-D1312	1-5/16"×2"		
DNHX-D1375	1-3/8"×2"		
DNHX-D1437	1-7/16"×2"		
DNHX-D1500	1-1/2"×2"		
DNHX-D1562	1-9/16"×2"		
DNHX-D1625	1-5/8"×2"		
DNHX-D1687	1-11/16"×2"		
DNHX-D1750	1-3/4"×2"		
DNHX-D1812	1-13/16"×2"		
DNHX-D1875	1-7/8"×2"		
DNHX-D1937	1-15/16"×2"		

注 公制规格详见第28页 Note: Metric size on Page 28

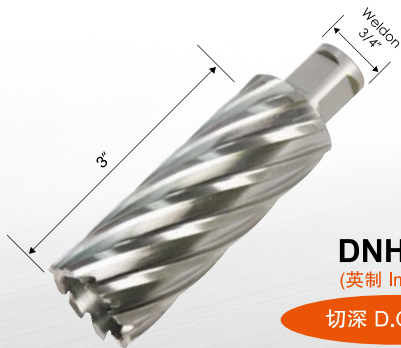
- ◎直角柄型，有稳固的夹持力，更好的钻孔稳定性与钻孔精度；
- ◎选用超硬高速钢，结合分层切削及低摩擦系数切削几何，获得良好耐磨性能与排屑性能；
- ◎适合在欧霸、获劲、祥喜、欧博、百德、锐科等国内外磁座钻机以及各类钻床、车床等机械设备上进行钻孔或环形槽加工；
- ◎直径40mm以下为单孔直角柄，可同时适合直角柄夹持与单孔快速夹具夹持。
- ◎Weldon shank, with more stable clamping for stable cutting and finish of holes;
- ◎Made of super tough high speed steel with multi-cut geometry for ply-cutting and lower friction to reach better performance of endurance and removal of chips;
- ◎Applicable to hole cutting and process of annular groove on various magnetic drills and press, like Alfra, Hougen, Jancy, Euroboor, BDS, Ruko;
- ◎Additional one hole on the shank of cutters ≤Φ40mm, fit arbors with 19.05 bore as well as quick-change system.

匹配的顶针 Suitable pins



型号 Type	规格 Size (mm)	配刀直径 Matching Cutter
DPB-42102	4.74*102	7/16"
DPB-62102	6.34/5.3*102	1/2" ~ 2-3/8"

高速钢直角柄钢板钻(英制) HSS-E annular cutter with weldon shank (Imperial size)



DNHX-E
(英制 Imperial)
切深 D.O.C. 3"



DNHX-F
(英制 Imperial)
切深 D.O.C. 4"

DNHX系列Range

单位 Unit: inch

型号 Type	规格 Size	型号 Type	规格 Size
DNHX-E0687	11/16**3"		
DNHX-E0750	3/4**3"		
DNHX-E0812	13/16**3"		
DNHX-E0875	7/8**3"		
DNHX-E0937	15/16**3"		
DNHX-E1000	1**3"		
DNHX-E1062	1-1/16**3"		
DNHX-E1125	1-1/8**3"		
DNHX-E1187	1-3/16**3"		
DNHX-E1250	1-1/4**3"		
DNHX-E1312	1-5/16**3"		
DNHX-E1375	1-3/8**3"		
DNHX-E1437	1-7/16**3"		
DNHX-E1500	1-1/2**3"		
DNHX-E1562	1-9/16**3"		
DNHX-E1625	1-5/8**3"		
DNHX-E1687	1-11/16**3"		
DNHX-E1750	1-3/4**3"		
DNHX-E1812	1-13/16**3"		
DNHX-E1875	1-7/8**3"		
DNHX-E1937	1-15/16**3"		
DNHX-E2000	2**3"		

注 公制规格详见第29页 Note: Metric size on Page 29

- ◎直角柄型，有稳固的夹持力，更好的钻孔稳定性与钻孔精度；
- ◎选用超硬高速钢，结合分层切削及低摩擦力切削几何，获得良好耐磨性能与排屑性能；
- ◎适合在欧霸、获劲、祥喜、欧博、百德、锐科等国内外磁座钻机以及各类钻床、车床等机械装备上进行钻孔或环形槽加工。
- ◎Weldon shank, with more stable clamping for stable cutting and finish of holes;
- ◎Made of super tough high speed steel with multi-cut geometry for ply-cutting and lower friction to reach better performance of endurance and removal of chips;
- ◎Applicable to hole cutting and process of annular groove on various magnetic drills and press, like Alfa, Hougen, Jancy, Euroboor, BDS, Ruko.

匹配的顶针 Suitable pins



型号 Type	规格 Size (mm)	配刀直径 Matching Cutter
DPB-81130	7.98*130	11/16" ~ 2"
DPT-82130	7.98*130	3/4" ~ 2"

单位 Unit: inch

型号 Type	规格 Size	型号 Type	规格 Size
DNHX-F0687	11/16**4"		
DNHX-F0750	3/4**4"		
DNHX-F0812	13/16**4"		
DNHX-F0875	7/8**4"		
DNHX-F0937	15/16**4"		
DNHX-F1000	1**4"		
DNHX-F1062	1-1/16**4"		
DNHX-F1125	1-1/8**4"		
DNHX-F1187	1-3/16**4"		
DNHX-F1250	1-1/4**4"		
DNHX-F1312	1-5/16**4"		
DNHX-F1375	1-3/8**4"		
DNHX-F1437	1-7/16**4"		
DNHX-F1500	1-1/2**4"		
DNHX-F1562	1-9/16**4"		
DNHX-F1625	1-5/8**4"		
DNHX-F1687	1-11/16**4"		
DNHX-F1750	1-3/4**4"		
DNHX-F1812	1-13/16**4"		
DNHX-F1875	1-7/8**4"		
DNHX-F1937	1-15/16**4"		
DNHX-F2000	2**4"		

注 公制规格详见第29页 Note: Metric size on Page 29

- ◎直角柄型，有稳固的夹持力，更好的钻孔稳定性与钻孔精度；
- ◎选用超硬高速钢，结合分层切削及低摩擦力切削几何，获得良好耐磨性能与排屑性能；
- ◎适合在欧霸、获劲、祥喜、欧博、百德、锐科等国内外磁座钻机以及各类钻床、车床等机械装备上进行钻孔或环形槽加工。
- ◎Weldon shank, with more stable clamping for stable cutting and finish of holes;
- ◎Made of super tough high speed steel with multi-cut geometry for ply-cutting and lower friction to reach better performance of endurance and removal of chips;
- ◎Applicable to hole cutting and process of annular groove on various magnetic drills and press, like Alfa, Hougen, Jancy, Euroboor, BDS, Ruko.

匹配的顶针 Suitable pins



型号 Type	规格 Size (mm)	配刀直径 Matching Cutter
DPB-81160	7.98*160	11/16" ~ 2"
DPT-82157	7.98*157	3/4" ~ 2"

高速钢小钢板钻 HSS-E mini-cutter



DMHX-1

切深 D.O.C. 8mm

单位 Unit: mm

型号 Type	规格 Size	型号 Type	规格 Size
DMHX-10080	8*8		
DMHX-10100	10*8		
DMHX-10120	12*8		
DMHX-10130	13*8		
DMHX-10140	14*8		
DMHX-10160	16*8		
DMHX-10180	18*8		
DMHX-10200	20*8		
DMHX-10220	22*8		
DMHX-10240	24*8		
DMHX-10250	25*8		

- ◎微型钢板钻适用于各种手电钻、钻床的高效钻孔薄板刀具;
- ◎选用优质高速钢,保持良好的耐磨性;
- ◎可按客户要求,提供英制系列与套装包装。
- ◎Applicable to hole cutting on sheet metals with pistol drill and press;
- ◎Made of high quality high speed steel for better endurance;
- ◎Imperial sizes and set are available upon request.

匹配的顶针 Suitable pins



单位 Unit: mm

型号 Type	规格 Size	配刀直径 Matching Cutter
DPB-31043	3.95*43	8mm-25mm

中心冲 pin



单位 Unit: mm

订货号 Part no.	品名 Name	规格 Size
198109001	中心冲 Pin	8*110

小钢板钻夹具

Arbor for mini-cutter



单位 Unit: mm

订货号 Part no.	型号 Type	规格 Size
198103072	DJMW-08-S10	



◎适用于钻夹头装夹 Suitable for clamping with chucks.

小钢板钻转换接头

Adapter for mini-cutter



单位 Unit: mm



订货号 Part no.	型号 Type	规格 Size
198102039	DZKX-01	

单位 Unit: mm



订货号 Part no.	型号 Type	规格 Size
198101157	DPB-31068	3.95*68



◎适配于各种磁座钻 Suitable for various magnetic drills.

高速钢U型螺纹柄 套装小钢板钻 HSS mini annular cutter set with thread shank (version U)



DMFU-T001/T004



DMFU-T005

单位 Unit: mm		
套装刀型号 Type	包含的型号 Type	规格 Size
DMFU-T001	DMFU-10080	8*6.35
	DMFU-10100	10*6.35
	DMFU-10120	12*6.35
	DMFU-10140	14*6.35
	DMFU-10160	16*6.35
	DMFU-10180	18*6.35
	DMFU-10200	20*6.35
附件 Accessories	订货号 Part no.	规格 Size
	2301161	3.15*33*60°
	2301162	14.5*1.5
	2301163	22.5*1.5
	198103080	10*8*3/8-24UNF
	2502005	4
	2601214	8*108

单位 Unit: mm		
套装刀型号 Type	包含的型号 Type	规格 Size
DMFU-T004	DMFU-A0312	5/16" *1/4"
	DMFU-A0375	3/8" *1/4"
	DMFU-A0437	7/16" *1/4"
	DMFU-A0500	1/2" *1/4"
	DMFU-A0562	9/16" *1/4"
	DMFU-A0625	5/8" *1/4"
	DMFU-A0750	3/4" *1/4"
附件 Accessories	订货号 Part no.	规格 Size
	2301161	3.15*33*60°
	2301162	14.5*1.5
	2301163	22.5*1.5
	198103080	10*8*3/8-24UNF
	2502005	4
	2601214	8*108

单位 Unit: mm		
套装刀型号 Type	包含的型号 Type	规格 Size
DMFU-T005	DMFU-A0875	7/8" *1/2"
	DMFU-A1000	1" *1/2"
	DMFU-A1125	1-1/8" *1/2"
	DMFU-A1250	1-1/4" *1/2"
	DMFU-A1375	1-3/8" *1/2"
	DMFU-A1500	1-1/2" *1/2"
附件 Accessories	订货号 Part no.	规格 Size
	2601214	8*108*60°
	198101196	6.34*44
	198103081	1/2"*1/2"*1/2"-20UNF
	2301163	22.5*1.5

- ◎ 适合在手枪钻上来对金属薄板进行钻孔或环形槽加工。
- ◎ 选用高品质的高速钢来制造。
- ◎ 具体的尺寸和装置可按照客户的要求来定制。
- ◎ Applicable to hole cutting on sheet metals with pistol drill and press.
- ◎ Made of high quality high speed steel for better endurance.
- ◎ Imperial sizes and set are available upon request.

高速钢套装钢板钻 HSS-E annular cutter sets

单位 Unit: mm

套装刀型号 Type	包含的型号 Type	规格 Size
DNHX-T008	DNHX-20120	12*25
	DNHX-20140	14*25
	DNHX-20160	16*25
	DNHX-20180	18*25
	DNHX-20200	20*25
	DNHX-20220	22*25
	DPB-62077	6.34*77

单位 Unit: mm

套装刀型号 Type	包含的型号 Type	规格 Size
DNHX-T009	DNHX-40120	12*50
	DNHX-40140	14*50
	DNHX-40160	16*50
	DNHX-40180	18*50
	DNHX-40200	20*50
	DNHX-40220	22*50
	DPB-62102	6.34*102

单位 Unit: mm

套装刀型号 Type	包含的型号 Type	规格 Size
DNHC-T001	DNHC-20120	12*25
	DNHC-20140	14*25
	DNHC-20160	16*25
	DNHC-20180	18*25
	DNHC-20200	20*25
	DNHC-20220	22*25
	DPB-62077	6.34*77

单位 Unit: mm

套装刀型号 Type	包含的型号 Type	规格 Size
DNHC-T002	DNHC-40120	12*50
	DNHC-40140	14*50
	DNHC-40160	16*50
	DNHC-40180	18*50
	DNHC-40200	20*50
	DNHC-40220	22*50
	DPB-62102	6.34*102

单位 Unit: mm

套装刀型号 Type	包含的型号 Type	规格 Size
DBHX-T001	DBHX-20120	12*25
	DBHX-20140	14*25
	DBHX-20160	16*25
	DBHX-20180	18*25
	DBHX-20200	20*25
	DBHX-20220	22*25
	DPB-62077	6.34*77

单位 Unit: mm

套装刀型号 Type	包含的型号 Type	规格 Size
DBHX-T002	DBHX-40120	12*50
	DBHX-40140	14*50
	DBHX-40160	16*50
	DBHX-40180	18*50
	DBHX-40200	20*50
	DBHX-40220	22*50
	DPB-62102	6.34*102

单位 Unit: mm

套装刀型号 Type	包含的型号 Type	规格 Size
DNHK-T001	DNHK-40120	12*50
	DNHK-40140	14*50
	DNHK-40160	16*50
	DNHK-40180	18*50
	DNHK-40200	20*50
	DNHK-40220	22*50
	DPB-62102	6.34*102



**DNHX-T008
DNHC-T001
DBHX-T001**



**DNHX-T009
DNHC-T002
DBHX-T002
DNHC-T001**

- ◎ 选用高品质的高速钢来制造，采用低摩擦力切削。
- ◎ 结合分层切削及低摩擦力切削几何，获得良好的耐磨性与排屑性能
- ◎ 产品的各种性能来满足各种材料的切削打孔。
- ◎ 适用于各种磁座钻机以及各类钻床、车床等机械设备上来进行钻孔或环形槽加工。
- ◎ 每套中配有匹配的顶针。
- ◎ Made of high quality high speed steel. Adopting multiple-ply, which guarantee smooth cutting.
- ◎ Multi-cut geometry for ply-cutting to improve performance of centering as well as removal of chips.
- ◎ Various performance of products to meet requirements of hole cutting on various materials.
- ◎ Applicable to hole cutting and process of annular groove on various magnetic drills and press.
- ◎ Assemble with the pin in the set.

钢板钻附件

Accessories of annular cutter

- 1、钢板钻配用的各类附件，主要有顶针、夹具、转换接头等；
- 2、专业的设计与制造，确保产品的质量与应用的方便性；
- 3、多钟类型，满足各种场合需要；
- 4、可设计定制特殊的夹具，满足个性的工艺需要。

- 1、Accessories include pilot pin, arbor and adapter;
- 2、Professionally design and manufacture for quality and practical applications;
- 3、Various types for all applications;
- 4、Special arbors are available.



钢板钻附件 – 顶针 Pilot pin

单位 Unit: mm

型号 Type	规格 Size
DPB-31046	3.95*46
DPB-31068	3.95*68
DPB-42077	4.74*77
DPB-42102	4.74*102

型号 Type	规格 Size
DPB-62077	6.34/5.3*77
DPB-62090	6.34/5.3*90
DPB-62102	6.34/5.3*102
DPB-62106	6.34/5.3*106
DPB-62116	6.34/5.3*116
DPB-62127	6.34/5.3*127
DPB-62130	6.34/5.3*130
DPB-62140	6.34/5.3*140
DPB-62153	6.34/5.3*153
DPB-62178	6.34/5.3*178
DPB-62190	6.34/5.3*190
DPB-62203	6.34/5.3*203

型号 Type	规格 Size
DPB-81077	7.98*77
DPB-81088	7.98*88
DPB-81090	7.98*90
DPB-81103	7.98*103
DPB-81108	7.98*108
DPB-81113	7.98*113
DPB-81118	7.98*118
DPB-81128	7.98*128
DPB-81130	7.98*130
DPB-81134	7.98*134
DPB-81145	7.98*145
DPB-81154	7.98*154
DPB-81160	7.98*160
DPB-81165	7.98*165
DPB-81175	7.98*175
DPB-81180	7.98*180
DPB-81190	7.98*190
DPB-81205	7.98*205
DPB-C1192	12*192

型号 Type	规格 Size
DPC-83127	7.98/6.34/5.3*127
DPC-83140	7.98/6.34/5.3*140
DPC-83153	7.98/6.34/5.3*153
DPC-83165	7.98/6.34/5.3*165
DPC-83178	7.98/6.34/5.3*178
DPC-83190	7.98/6.34/5.3*190
DPC-83203	7.98/6.34/5.3*203





套式顶针 DPT range pilot pin

单位 Unit: mm

型号 Type	规格 Size
DPT-82130	7.98*130
DPT-82157	7.98*157
DPT-82158	7.98*158
DPT-82168	7.98*168
DPT-82184	7.98*184

套式顶针使用方法 Application of DPT range pilot pin

- DPT系列顶针使用时先将①主体放入钻头柄部孔中，再从钻头刃部插入②顶针套至①主体尖部。
- 钻孔时，当钻削剩余厚度60~50mm，取下②顶针套后才可继续钻削。
- 主要适用于切深50mm系列夹具，切削75mm、100mm的厚度的场合。

Remarks:

- Usage of DPT range pilot pin: insert section ① into the pilot bore on the cutter shank, push section ② into section ① from the cutter bore.
- Remove section ② when remaining depth of hole is approx. 50mm and continue drilling.
- Suitable on arbors with 50mm D.O.C. for cutting materials in 75mm or 100mm D.O.C.

套式顶针配用图解法说明 Application of DPT range pilot pin

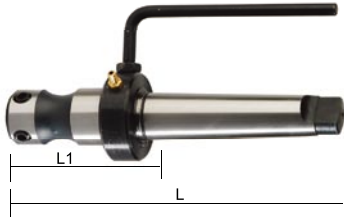
型号 Model	规格 Type	页码 Page
DNHC(X)-5/E	φ 18~50mm / 3/4"~2"	27/38、29/40
DNTC(X)-5/E	φ 18~60mm / 3/4"~2-3/8"	11/20、13/22
DNHC(X)-6/F	φ 18~50mm / 3/4"~2"	27/38、29/40
DNTC(X)-6/F	φ 18~60mm / 3/4"~2-3/8"	11/20、13/22

	DPT-82130 7.98*130mm	切深 D.O.C.:75mm		DNHC(X)-5/E	φ 18~50mm / 3/4"~2"	27/38、29/40
	DPT-82157 7.98*157mm	切深 D.O.C.:100mm		DNTC(X)-5/E	φ 18~60mm / 3/4"~2-3/8"	11/20、13/22
	DPT-82168 7.98*168mm	切深 D.O.C.:100mm		DNHC(X)-6/F	φ 18~50mm / 3/4"~2"	27/38、29/40
				DNTC(X)-6/F	φ 18~60mm / 3/4"~2-3/8"	11/20、13/22
				DNTP-6/F	φ 61~150mm/2-7/16"~6"	16/23

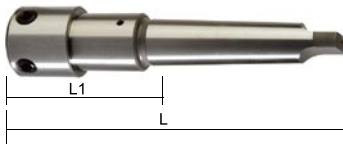
●莫氏锥柄内冷型螺钉夹紧钢板钻夹具

Arbor with morse taper, clamping with screws, internal cooling

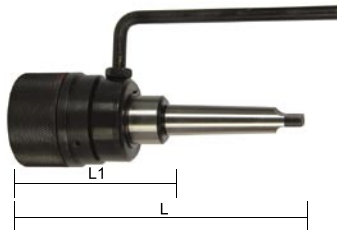
订货型号 Part no.	型号 Type	规格 Size	切深 D.O.C	夹持的规格 Clamping Size	连接柄规格 Morse taper number	L	L1
198103004	DJXY-50-MT2	MT2*50*19.05	50	19.05mm (3/4")	morse 2	168	93
198103005	DJXY-50-MT3	MT3*50*19.05	50	19.05mm (3/4")	morse 3	187	93
198103007	DJXY-75-MT3	MT3*75*19.05	75	19.05mm (3/4")	morse 3	203	109
198103009	DJXY-100-MT3	MT3*100*19.05	100	19.05mm (3/4")	morse 3	233	139
198103006	DJXY-50-MT4	MT4*50*19.05	50	19.05mm (3/4")	morse 4	212	95
198103008	DJXY-75-MT4	MT4*75*19.05	75	19.05mm (3/4")	morse 4	214	97
198103026	DJXY-100-MT4	MT4*100*19.05	100	19.05mm (3/4")	morse 4	238	121
198103025	DJXY-75-MT5	MT5*75*19.05	75	19.05mm (3/4")	morse 5	245	96
198103027	DJXY-100-MT5	MT5*100*19.05	100	19.05mm (3/4")	morse 5	250	101
198103093	DJXY-100-MT6	MT6*100*19.05	100	19.05mm (3/4")	morse 6	296	86
198103001	DJPY-50-MT3	MT3*50*31.75	50	31.75mm (1-1/4")	morse 3	202	108
198103028	DJPY-75-MT3	MT3*75*31.75	75	31.75mm (1-1/4")	morse 3	215	121
198103032	DJPY-100-MT3	MT3*100*31.75	100	31.75mm (1-1/4")	morse 3	248	154
198103002	DJPY-50-MT4	MT4*50*31.75	50	31.75mm (1-1/4")	morse 4	225	108
198103003	DJPY-75-MT4	MT4*75*31.75	75	31.75mm (1-1/4")	morse 4	235	118
198103030	DJPY-100-MT4	MT4*100*31.75	100	31.75mm (1-1/4")	morse 4	250	133
198103029	DJPY-75-MT5	MT5*75*31.75	75	31.75mm (1-1/4")	morse 5	264	115
198103031	DJPY-100-MT5	MT5*100*31.75	100	31.75mm (1-1/4")	morse 5	269	120
198103094	DJPY-100-MT6	MT6*100*31.75	100	31.75mm (1-1/4")	morse 6	324	114



适合通用柄, 19.05mm直角柄, 31.75直角柄
Suitable to Universal shank, 19.05mm weldon shank, 31.75mm weldon shank



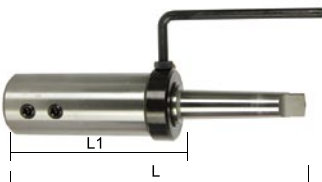
适合通用柄, 19.05mm直角柄, 31.75直角柄
Suitable to Universal shank, 19.05mm weldon shank, 31.75mm weldon shank



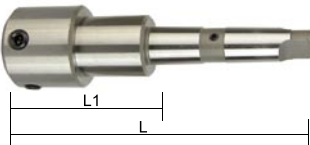
适合通用柄, 19.05mm直角柄
Suitable to Universal shank, 19.05mm weldon shank



适合通用柄, 19.05mm直角柄
Suitable to Universal shank, 19.05mm weldon shank



适合J型削平柄
Suitable to parallel shank (J type)



适合通用柄, 19.05mm直角柄, 31.75直角柄
Suitable to Universal shank, 19.05mm weldon shank, 31.75mm weldon shank

●莫氏锥柄外冷型螺钉夹紧钢板钻夹具

Arbor with morse taper, clamping with screws, outer cooling

订货型号 Part no.	型号 Type	规格 Size	切深 D.O.C	夹持的规格 Clamping Size	连接柄规格 Morse taper number	L	L1
198103013	DJXW-50-MT2	MT2*50*19.05	50	19.05mm (3/4")	morse 2	162	87
198103014	DJXW-50-MT3	MT3*50*19.05	50	19.05mm (3/4")	morse 3	176	82
198103015	DJXW-50-MT4	MT4*50*19.05	50	19.05mm (3/4")	morse 4	189	72
198103042	DJXW-75-MT4	MT4*75*19.05	75	19.05mm (3/4")	morse 4	210	93
198103016	DJXW-50-MT5	MT5*50*19.05	50	19.05mm (3/4")	morse 5	206	57
198103092	DJXW-50-MT6	MT6*50*19.05	50	19.05mm (3/4")	morse 6	272	62
198103010	DJPW-50-MT3	MT3*50*31.75	50	31.75mm (1-1/4")	morse 3	190	96
198103011	DJPW-50-MT4	MT4*50*31.75	50	31.75mm (1-1/4")	morse 4	204	87
198103012	DJPW-50-MT5	MT5*50*31.75	50	31.75mm (1-1/4")	morse 5	217	68
198103059	DJPW-75-MT5	MT5*75*31.75	75	31.75mm (1-1/4")	morse 5	228	79

●莫氏锥柄内冷型快速夹紧钢板钻夹具

Arbor with morse taper, quick-change clamping, internal cooling

订货型号 Part no.	型号 Type	规格 Size	切深 D.O.C	夹持的规格 Clamping Size	连接柄规格 Morse taper number	L	L1
198103065	DJXK-50-MT2	MT2*50*19.05	50	19.05mm (3/4")	morse 2	168	93
198103068	DJXK-50-MT3	MT3*50*19.05	50	19.05mm (3/4")	morse 3	185	91

注: 适用于磁座钻相对应的夹具更换

●螺纹柄外冷型螺钉夹紧钢板钻夹具

Arbor with morse taper, thread, outer cooling

订货型号 Part no.	型号 Type	规格 Size	切深 D.O.C	夹持的规格 Clamping Size	连接柄规格 Morse taper number	L
198103037	DJXW-25-1/2-20UNF	1/2-20UNF*25*19.05	25	19.05mm (3/4")	1/2-20UNF	99
198103038	DJXW-50-1/2-20UNF	1/2-20UNF*50*19.05	50	19.05mm (3/4")	1/2-20UNF	135

●莫氏锥柄内冷型螺钉夹紧钢板钻夹具

Arbor with morse taper, clamping with screws, internal cooling

订货型号 Part no.	型号 Type	规格 Size	切深 D.O.C	夹持的规格 Clamping Size	连接柄规格 Morse taper number	L	L1
198103040	DJJY-75-MT3	MT3*75*31.75	75	31.75mm (1-1/4")	morse 3	245	151
198103041	DJJY-75-MT4	MT4*75*31.75	75	31.75mm (1-1/4")	morse 4	250	133

●莫氏锥柄中心内冷型螺钉夹紧钢板钻夹具

Arbor with morse taper, clamping with screws, internal center cooling

订货型号 Part no.	型号 Type	规格 Size	切深 D.O.C	夹持的规格 Clamping Size	连接柄规格 Morse taper number	L	L1
198103045	DJXZ-50-MT3	MT3*50*19.05	50	19.05mm (3/4")	morse 3	178	84
198103043	DJPZ-50-MT3	MT3*50*31.75	50	31.75mm (1-1/4")	morse 3	190	96

快速夹具装刀示意图 Sketch of operation



- 1、逆时旋转②号夹紧套，使红色点对准白色点；
- 2、将①号刀的扁平面向向白点，装入夹具；
- 3、放开②号号夹紧套使之逆时回转，绿色点接近白色点位置示意装夹稳妥，可以钻孔。

- 1、Turn counter clockwise the clamping sleeve ② till the red dot align the white dot;
- 2、Align the flat on the cutter shank ① the white dot, and insert the cutter shank;
- 3、Release the clamping sleeve ②. The green dot must be exactly positioned under the white dot Ready for use .

夹具配件

● 压缩弹簧 Compressed spring

订货号 Part no.	规格 Size	匹配夹具型号 Part number of arbors
2106004	Φ9.8 × 125	DJXW-50-MT2
2106005	Φ9.8 × 133	DJXY-50-MT2、DJXK-50-MT2
2106006	Φ13 × 135	DJXW-50-MT3、DJPW-50-MT3、DJPW-50-MT4、DJXW-50-MT6
2106007	Φ13 × 150	DJXY-50-MT3、DJPW-50-MT5、DJPY-50-MT3、DJXY-50-MT4、DJXW-50-MT4、DJPY-50-MT4、DJXW-50-MT5、DJXK-50-MT3
2106008	Φ14.1 × 164	DJXY-75-MT3、DJPY-75-MT3、DJJY-75-MT3、DJXY-75-MT4、DJPY-75-MT4、DJJY-75-MT4、DJXY-75-MT5、DJPY-75-MT5
2106009	Φ14.1 × 195	DJXY-100-MT3、DJXY-100-MT4、DJPY-100-MT4、DJXY-100-MT5、DJPY-100-MT5、DJXY-100-MT6、DJPY-100-MT6
2106022	Φ16.4 × 66	DJXW-25-1/2-20UNF
2106023	Φ16.4 × 115	DJXW-50-1/2-20UNF
2106028	Φ13 × 135	DJXZ-50-MT3、DJPZ-50-MT3

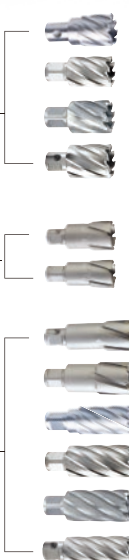
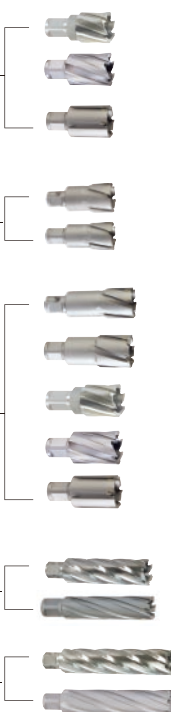
● 螺钉 Hexagon screw

订货号 Part no.	规格 Size	匹配夹具型号 Part number of arbors
2102006	M10 × 10	DJXW-50-MT2、DJXY-50-MT2、DJXW-50-MT3、DJXZ-50-MT3、DJXY-50-MT3、DJXY-50-MT4、DJXW-50-MT4、DJXW-50-MT5、DJXY-75-MT3、DJXY-75-MT4、DJXY-75-MT5、DJXY-100-MT3、DJXY-100-MT4、DJXY-100-MT5
2102007	M12 × 12	DJPW-50-MT3、DJPW-50-MT4、DJPZ-50-MT3、DJPW-50-MT5、DJPY-50-MT3、DJPY-50-MT4、DJPY-75-MT3、DJJY-75-MT3、DJPY-75-MT4、DJJY-75-MT4、DJPY-75-MT5、DJPY-100-MT4、DJPY-100-MT5、DJXW-50-MT6、DJPY-100-MT6
2102030	M8 × 8	DJXW-25-1/2-20UNF、DJXW-50-1/2-20UNF
2102021	M12 × 10	DJXY-100-MT6

附件—转换接头系列 Hexagon screws

DZFX-03		四孔柄转19.05直角柄，适合6.35mm的顶针孔 Fein Quick-In / 19.05 weldon (6.35mm pilot bore)
DZFX-04		四孔柄转19.05直角柄，适合8mm的顶针孔 Fein Quick-In / 19.05 weldon (8mm pilot bore)
DZCX-03		通用柄转19.05直角柄，适用于6.35mm顶针孔 Universal / 19.05 weldon (6.35mm pilot bore)
DZCX-04		通用柄转19.05直角柄，适用于8mm顶针孔 Universal / 19.05 weldon (8mm pilot bore)
DZLX-01		M18*6/P1.5螺纹柄转19.05直角柄 Fein M18*6/P1.5 / 19.05 weldon
DZCL-02		通用柄转M18*6/P1.5 Fein螺纹柄 Universal / Fein M18*6/P1.5
DZCU-01		通用柄转1/2-20UNF螺纹柄 universal / 1/2-20UNF
DZXL-01		19.05直角柄转M18*6/P1.5 Fein螺纹柄 19.05 weldon / Fein M18*6/P1.5
DZXU-01		19.05直角柄转1/2-20UNF螺纹柄 19.05 weldon / 1/2-20UNF
DZXZ-02		19.05直角柄转B16锥柄 19.05 weldon / DIN238 B16
DZCZ-01		通用柄转B16锥柄 Universal / DIN238 B16
DZfZ-01		四孔柄转B16锥柄 Fein Quick-In / DIN238 B16
DZXX-06		19.05直角柄延长50mm接头 Arbor extension for 50mm
DZXX-07		19.05直角柄延长75mm接头 Arbor extension for 75mm
DZXX-08		19.05直角柄延长100mm接头 Arbor extension for 100mm
DZMZ-01		莫氏2号锥柄转B16锥柄 Morse taper 2 / DIN238 B16
DZMZ-02		莫氏3号锥柄转B16锥柄 Morse taper 3 / DIN238 B16

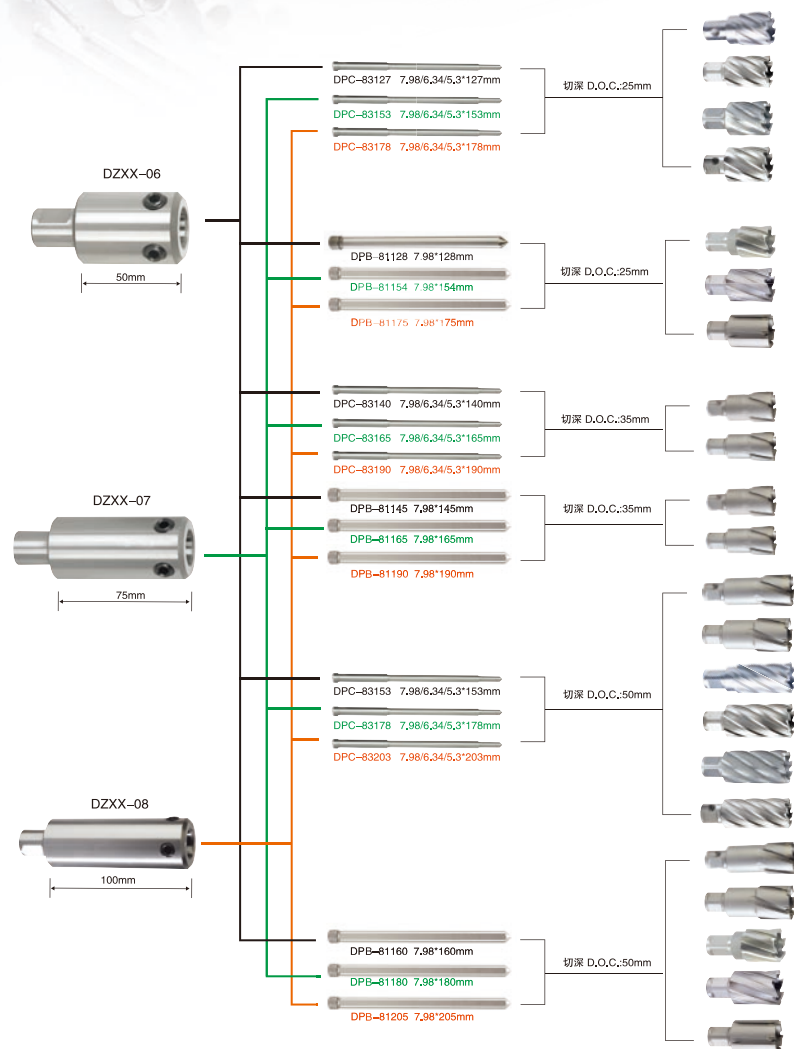
规格 Type	页码 Page
2-40mm	34
2-65mm / 1/2"~2-3/8"	28/30/39
2-60mm	35/36
2-65mm / 1/2"~2-3/8"	26/37

DZ系列Range

转换接头与顶针配刀的示意图

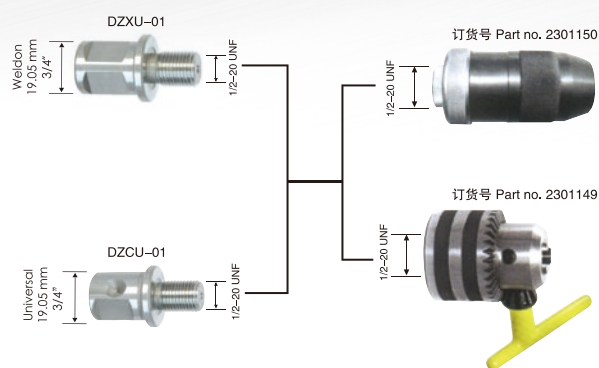
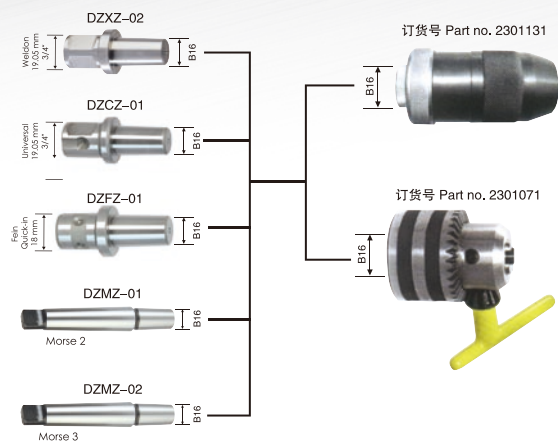
Sketch of matching for adapters, pilot pins and annular cutters

型号 Model	规格 Type	页码 Page
DAHK-2	φ 12~40mm	34
DNHX(K)-2/B	φ 12~65mm / 1/2"~2-3/8"	28/30/39
DBHX(K)-2	φ 12~60mm	35/36
DNHC-2/B	φ 12~65mm / 1/2"~2-3/8"	26/37
DRAX-2	φ 18~36mm	66
DRHX-2	φ 18~36mm	66
DRTX-2	φ 18~36mm	67
DNTC-3/C	φ 12~17mm / 1/2"~11/16"	10/19
DNTX(K)-3/C	φ 12~17mm / 1/2"~11/16"	12/14/21
DNTC-3/C	φ 18~60mm / 3/4"~2-3/8"	10/19
DNTX(K)-3/C	φ 18~60mm / 3/4"~2-3/8"	12/14/21
DNTC-4/D	φ 12~17mm / 1/2"~11/16"	10/19
DNTX(K)-4/D	φ 12~17mm / 1/2"~11/16"	12/14/21
DAHK-4	φ 12~40mm	34
DNHX(K)-4/D	φ 12~65mm / 1/2"~2-3/8"	28/30/39
DBHX(K)-4	φ 12~60mm	35/36
DNHC-4/D	φ 12~60mm / 1/2"~2-3/8"	26/37
DNTC-4/D	φ 18~60mm / 3/4"~2-3/8"	10/19
DNTX(K)-4/D	φ 18~60mm / 3/4"~2-3/8"	12/14/21
DRAX-4	φ 18~36mm	66
DRHX-4	φ 18~36mm	66
DRTX-4	φ 18~36mm	67



转换接头配钻夹头示意图

Sketch of matching for adapters and chucks



孔钻

Hole saw



- 1、选用高性能硬质合金制造，更出色体现钻孔性能，特别适合不锈钢板钻孔；
- 2、规格从 $\Phi 14\text{mm}$ ~ $\Phi 150\text{mm}$ ，钻削厚度4mm、20mm系列，以及可钻穿50mm、75mm的管状零件系列；
- 3、可订制对陶瓷、胶合板等材质的专用孔钻。

- 1、Made of high performance carbide tips for better performance of hole saw;
- 2、Diameter from 14mm to 150mm with 4, 20mm D.O.C. for sheet metal and 50, 75mm for pipe;
- 3、Applicable to hole cutting on ceramics, vaneers.

●孔钻系列型号说明 Part numbers of hole saw range

H T T S - B 1500
H T T S - 2 1205

表示英制直径：1-1/2"
Imperial size.: 1-1/2"

表示公制直径：120.5mm
Metric size.: 120.5mm

型号 Model	类 型 Types		性 能 Performance		材 质 Material		柄 型 Shank		切深代码 Code of D.O.C.	
HMTS-	H	孔钻 hole saws	M	薄板型 Sheet metal type	T	硬质合金 T.C.T	S	S型三角柄 SDS PLUS shank	代码 code	切削深度 cutting depth
HTTS-	H	孔钻 hole saws	T	厚板型 Thick metal type	T	硬质合金 T.C.T	S	S型三角柄 SDS PLUS shank	1	≤10mm
									2	25mm
									4	50mm
									A	≤1/2"
									B	1"
									D	2"

硬质合金薄板孔钻系列 T.C.T. hole saw (Sheet metal)



HMTS

切深 D.O.C. 5mm



HMTS
(英制 Imperial)

切深 D.O.C. 3/16"

单位 Unit: mm

型号 Type	规格 Size	型号 Type	规格 Size
HMTS-10140	14*5	HMTS-10440	44*5
HMTS-10150	15*5	HMTS-10450	45*5
HMTS-10160	16*5	HMTS-10460	46*5
HMTS-10170	17*5	HMTS-10470	47*5
HMTS-10180	18*5	HMTS-10480	48*5
HMTS-10190	19*5	HMTS-10490	49*5
HMTS-10200	20*5	HMTS-10500	50*5
HMTS-10210	21*5	HMTS-10510	51*5
HMTS-10220	22*5	HMTS-10520	52*5
HMTS-10230	23*5	HMTS-10530	53*5
HMTS-10240	24*5	HMTS-10540	54*5
HMTS-10250	25*5	HMTS-10550	55*5
HMTS-10260	26*5	HMTS-10560	56*5
HMTS-10270	27*5	HMTS-10570	57*5
HMTS-10280	28*5	HMTS-10580	58*5
HMTS-10290	29*5	HMTS-10590	59*5
HMTS-10300	30*5	HMTS-10600	60*5
HMTS-10310	31*5	HMTS-10610	61*5
HMTS-10320	32*5	HMTS-10620	62*5
HMTS-10330	33*5	HMTS-10630	63*5
HMTS-10340	34*5	HMTS-10640	64*5
HMTS-10350	35*5	HMTS-10650	65*5
HMTS-10360	36*5	HMTS-10700	70*5
HMTS-10370	37*5	HMTS-10750	75*5
HMTS-10380	38*5	HMTS-10800	80*5
HMTS-10390	39*5	HMTS-10850	85*5
HMTS-10400	40*5	HMTS-10900	90*5
HMTS-10410	41*5	HMTS-10950	95*5
HMTS-10420	42*5	HMTS-11000	100*5
HMTS-10430	43*5		

单位 Unit: inch

型号 Type	规格 Size	型号 Type	规格 Size
HMTS-A0625S	5/8**3/16"		
HMTS-A0687S	11/16**3/16"		
HMTS-A0750S	3/4**3/16"		
HMTS-A0812S	13/16**3/16"		
HMTS-A0875S	7/8**3/16"		
HMTS-A0937S	15/16**3/16"		
HMTS-A1000S	1**3/16"		
HMTS-A1062S	1-1/16**3/16"		
HMTS-A1125S	1-1/8**3/16"		
HMTS-A1250S	1-1/4**3/16"		
HMTS-A1375S	1-3/8**3/16"		
HMTS-A1500S	1-1/2**3/16"		
HMTS-A1750S	1-3/4**3/16"		
HMTS-A2000S	2**3/16"		
HMTS-A2125S	2-1/8**3/16"		
HMTS-A2250S	2-1/4**3/16"		
HMTS-A2375S	2-3/8**3/16"		
HMTS-A2562S	2-9/16**3/16"		
HMTS-A2500S	2-1/2**3/16"		
HMTS-A2750S	2-3/4**3/16"		
HMTS-A3000S	3**3/16"		
HMTS-A3250S	3-1/4**3/16"		
HMTS-A3500S	3-1/2**3/16"		
HMTS-A3625S	3-5/8**3/16"		
HMTS-A3750S	3-3/4**3/16"		
HMTS-A4000S	4**3/16"		
HMTS-A4125S	4-1/8**3/16"		
HMTS-A4250S	4-1/4**3/16"		
HMTS-A4500S	4-1/2**3/16"		

- 选用优质的硬质合金刀片，减少刀刃的崩刃发生，增加刀刃的耐磨性；
- 配用优质的定心钻与弹簧；
- 按客户需求，可制成分体式。

- Made of high quality solide carbide tips, reduce the damage of tips,increase the endurance;
- Assembled with high quality center drill and spring;
- Exchangeable bodies are available upon request.

单位 Unit: mm

订货号 Part no.	名称 Name	规格 Size
2102017	螺钉 Hexagon screw	M6
2106001	弹簧 Spring	8.5*20
2501010	定心钻 Center drill	6*46.5

HMTI
(英制 Imperial)

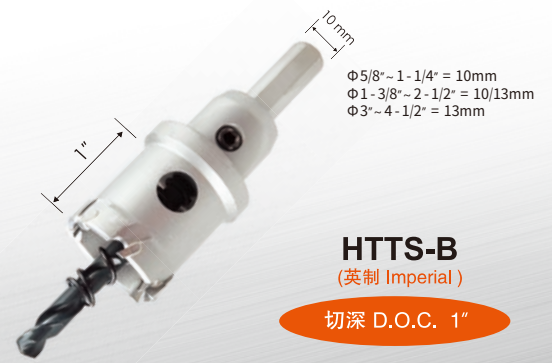
切深 D.O.C. 3/16"

[illegible]

- ◎Made of high quality solide carbide tips, reduce the damage of tips,increase the endurance;
- ◎Assembled with high quality center drill and spring;
- ◎Exchangeable bodies are available upon request.



硬质合金厚板孔钻系列 T.C.T. hole saw (Thick metal)



单位 Unit: mm

型号 Type	规格 Size	型号 Type	规格 Size
HTTS-20160	16*25	HTTS-20450	45*25
HTTS-20170	17*25	HTTS-20460	46*25
HTTS-20180	18*25	HTTS-20470	47*25
HTTS-20190	19*25	HTTS-20480	48*25
HTTS-20200	20*25	HTTS-20490	49*25
HTTS-20210	21*25	HTTS-20500	50*25
HTTS-20220	22*25	HTTS-20510	51*25
HTTS-20230	23*25	HTTS-20520	52*25
HTTS-20240	24*25	HTTS-20530	53*25
HTTS-20250	25*25	HTTS-20540	54*25
HTTS-20260	26*25	HTTS-20550	55*25
HTTS-20270	27*25	HTTS-20560	56*25
HTTS-20280	28*25	HTTS-20570	57*25
HTTS-20290	29*25	HTTS-20580	58*25
HTTS-20300	30*25	HTTS-20590	59*25
HTTS-20310	31*25	HTTS-20600	60*25
HTTS-20320	32*25	HTTS-20610	61*25
HTTS-20330	33*25	HTTS-20620	62*25
HTTS-20340	34*25	HTTS-20630	63*25
HTTS-20350	35*25	HTTS-20640	64*25
HTTS-20360	36*25	HTTS-20650	65*25
HTTS-20370	37*25	HTTS-20700	70*25
HTTS-20380	38*25	HTTS-20750	75*25
HTTS-20390	39*25	HTTS-20800	80*25
HTTS-20400	40*25	HTTS-20850	85*25
HTTS-20410	41*25	HTTS-20900	90*25
HTTS-20420	42*25	HTTS-20950	95*25
HTTS-20430	43*25	HTTS-21000	100*25
HTTS-20440	44*25		

单位 Unit: inch

型号 Type	规格 Size	型号 Type	规格 Size
HTTS-B0625	5/8"*1"		
HTTS-B0687	11/16"*1"		
HTTS-B0750	3/4"*1"		
HTTS-B0812	13/16"*1"		
HTTS-B0875	7/8"*1"		
HTTS-B0937	15/16"*1"		
HTTS-B1000	1"*1"		
HTTS-B1062	1-1/16"*1"		
HTTS-B1125	1-1/8"*1"		
HTTS-B1250	1-1/4"*1"		
HTTS-B1375	1-3/8"*1"		
HTTS-B1500	1-1/2"*1"		
HTTS-B1750	1-3/4"*1"		
HTTS-B2000	2-1/8"*1"		
HTTS-B2125	1-1/2"*1"		
HTTS-B2250	2-3/4"*1"		
HTTS-B2375	2-1/4"*1"		
HTTS-B2500	2-3/8"*1"		
HTTS-B2750	2-1/2"*1"		
HTTS-B3000	3"*1"		
HTTS-B3250	3-1/4"*1"		
HTTS-B3500	3-1/2"*1"		
HTTS-B3625	3-5/8"*1"		
HTTS-B3750	3-3/4"*1"		
HTTS-B4000	4"*1"		
HTTS-B4125	4-1/8"*1"		
HTTS-B4250	4-1/4"*1"		
HTTS-B4500	4-1/2"*1"		

- ◎选用优质的硬质合金刀片，减少刃刀的崩刃发生，增加刀刃的耐磨性；
- ◎配用优质的定心钻与弹簧；
- ◎手电钻使用对实心板切深15mm，磁座钻机使用钻透距离25mm；
- ◎刃径16mm~34mm柄为直径10mm，刃径35mm~100mm，柄为直径13mm。

- ◎Made of high quality solide carbide tips, reduce the damage of tips,increase the endurance;
- ◎Assembled with high quality center drill and spring;
- ◎Maxium cutting depth of 15mm on solid plate with pistol drills, and 25mm on solid plate with magnetic drills;
- ◎Shank diameter 10mm for hole saw Φ16mm~34mm, and Shank diameter 13mm for hole saw Φ35mm~100mm.

单位 Unit: mm

订货号 Part no.	名称 Name	规格 Size
2102017	螺钉 Hexagon screw	M6
2106002	弹簧 Spring	8.5*35
2501011	定心钻 Center drill	6*76

硬质合金厚板孔钻系列 T.C.T. hole saw (Thick metal)



单位 Unit: mm			
型号 Type	规格 Size	型号 Type	规格 Size
HTTS-40200	20*50	HTTS-40450	45*50
HTTS-40210	21*50	HTTS-40460	46*50
HTTS-40220	22*50	HTTS-40470	47*50
HTTS-40230	23*50	HTTS-40480	48*50
HTTS-40240	24*50	HTTS-40490	49*50
HTTS-40250	25*50	HTTS-40500	50*50
HTTS-40260	26*50	HTTS-40510	51*50
HTTS-40270	27*50	HTTS-40520	52*50
HTTS-40280	28*50	HTTS-40530	53*50
HTTS-40290	29*50	HTTS-40540	54*50
HTTS-40300	30*50	HTTS-40550	55*50
HTTS-40310	31*50	HTTS-40560	56*50
HTTS-40320	32*50	HTTS-40570	57*50
HTTS-40330	33*50	HTTS-40580	58*50
HTTS-40340	34*50	HTTS-40590	59*50
HTTS-40350	35*50	HTTS-40600	60*50
HTTS-40360	36*50		
HTTS-40370	37*50		
HTTS-40380	38*50		
HTTS-40390	39*50		
HTTS-40400	40*50		
HTTS-40410	41*50		
HTTS-40420	42*50		
HTTS-40430	43*50		
HTTS-40440	44*50		

单位 Unit: inch			
型号 Type	规格 Size	型号 Type	规格 Size
HTTS-D0812	13/16"*2"		
HTTS-D0875	7/8"*2"		
HTTS-D1000	1"*2"		
HTTS-D1062	1-1/16"*2"		
HTTS-D1125	1-1/8"*2"		
HTTS-D1250	1-1/4"*2"		
HTTS-D1375	1-3/8"*2"		
HTTS-D1500	1-1/2"*2"		
HTTS-D1750	1-3/4"*2"		
HTTS-D2000	2"*2"		
HTTS-D2125	2-1/8"*2"		

HTTS系列Range

- ◎选用优质的硬质合金刀片，减少刀刃的崩刃发生，增加刀刃的耐磨性;
- ◎配用优质的定心钻与弹簧;
- ◎手电钻使用对实心板切深15mm，磁座钻机使用钻透距离50mm;
- ◎刃径16mm~34mm柄为直径10mm，刃径35mm~100mm，柄为直径13mm。

- ◎Made of high quality solide carbide tips, reduce the damage of tips,increase the endurance;
- ◎Assembled with high quality center drill and spring;
- ◎Maxium cutting depth of 15mm on solid plate with pistol drills, and 25mm on solid plate with magnetic drills;
- ◎Shank diameter 10mm for hole saw Φ16mm~34mm, and Shank diameter 13mm for hole saw Φ35mm~100mm.

单位 Unit: mm		
订货号 Part no.	名称 Name	规格 Size
2102017	螺钉 Hexagon screw	M6
2501008	定心钻 Center drill	6*104

阶梯钻

Step drill

TiAlN

TiN

- ◎选用优质高速钢制造;
- ◎可按客户要求定制各种规格组合;
- ◎可进行TiAlN、TiN等多种表面处理。
- ◎Made of high quality high speed steel;
- ◎Various sizes are available upon request;
- ◎TiAlN、TiN coating are available.



●阶梯钻系列型号说明 Part numbers of step drill

英制（附加码） — I — S S H S — 101
Imperial (VerifyCode)

表示规格代码
Said specification code

型号 Model	类 型 Types	性 能 Performance	槽 型 Groove	柄 型 Shank
SSHS-	S 实心钻 Solid drill	S 阶梯钻 Step drill	H 直槽 straight flute	S S型三角柄 SDS PLUS shank
SSAS-	S 实心钻 Solid drill	S 阶梯钻 Step drill	A 螺旋槽 Spiral flute	S S型三角柄 SDS PLUS shank
SSHI-	S 实心钻 Solid drill	S 阶梯钻 Step drill	H 直槽 straight flute	I I型六角柄 I type hex shank
SSAI-	S 实心钻 Solid drill	S 阶梯钻 Step drill	A 螺旋槽 Spiral flute	I I型六角柄 I type hex shank

高速钢阶梯钻系列(英制) HSS step drill (imperial size)



I-SSAS-
(英制 Imperial)

螺旋槽阶梯钻
Step drill with spiral flute



I-SSHS-
(英制 Imperial)

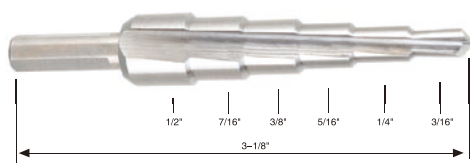
直槽阶梯钻
Step drill with straight flute

- ◎ 选用优质高速钢制造;
- ◎ 可按客户要求定制各种规格组合;
- ◎ 可进行TiAlN、TiN等多种表面处理。
- ◎ Made of high quality high speed steel;
- ◎ Various sizes are available upon request;
- ◎ TiAlN、TiN coating are available.

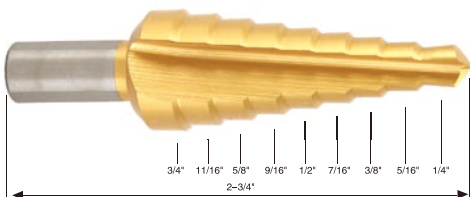
TiAlN

TiN

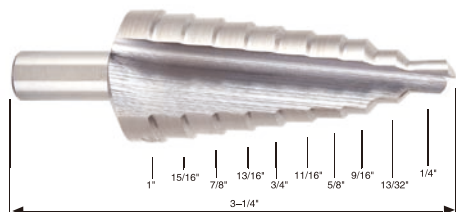
明细规格 Detail specifications



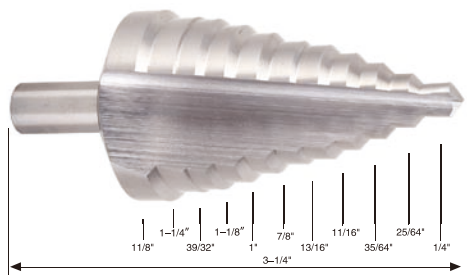
单位 Unit: inch	
型号 Type	规格 Size
I-SSHS-101 I-SSAS-101	3/16"、1/4"、5/16"、3/8"、7/16"、1/2"
总长 Overall length L	
3-1/8"	



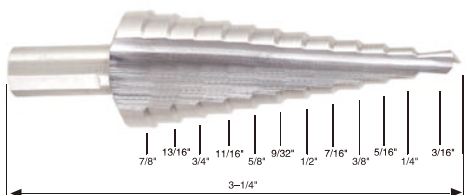
单位 Unit: inch	
型号 Type	规格 Size
I-SSHS-102 I-SSAS-102	1/4"、5/16"、3/8"、7/16"、1/2"、9/16"、5/8"、11/16"、3/4"
总长 Overall length L	
2-3/4"	



单位 Unit: inch	
型号 Type	规格 Size
I-SSHS-103 I-SSAS-103	1/4"、13/32"、9/16"、5/8"、11/16"、3/4"、13/16"、7/8"、15/16"、1"
总长 Overall length L	
3-1/4"	

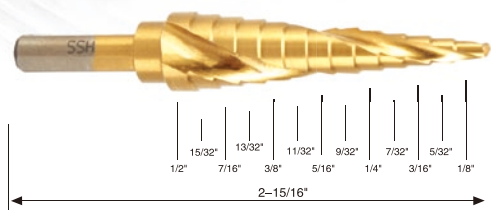


单位 Unit: inch	
型号 Type	规格 Size
I-SSHS-104 I-SSAS-104	1/4"、25/64"、35/64"、11/16"、13/16"、7/8"、1"、1-1/8"、1-7/32"、1-1/4"、1-3/8"
总长 Overall length L	
3-1/4"	

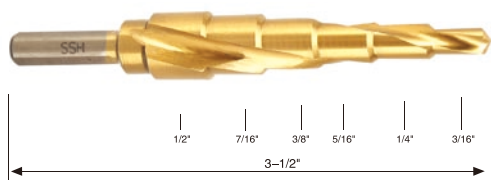


单位 Unit: inch	
型号 Type	规格 Size
I-SSHS-105 I-SSAS-105	3/16"、1/4"、5/16"、3/8"、7/16"、1/2"、9/32"、5/8"、11/16"、3/4"、13/16"、7/8"
总长 Overall length L	
3-1/4"	

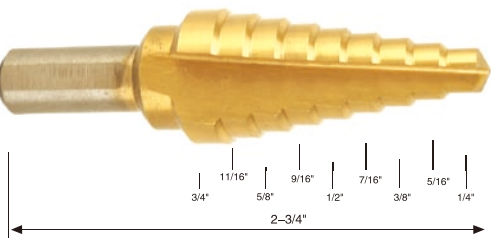
高速钢阶梯钻系列(英制) HSS step drill (imperial size)



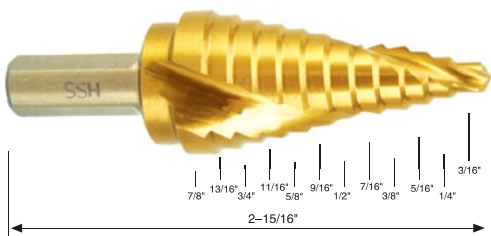
型号 Type	规格 Size	单位 Unit: inch 总长 Overall length L
I-SSHS-501 I-SSAS-501	1/8", 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 13/32", 7/16", 15/32", 1/2"	2-15/16"



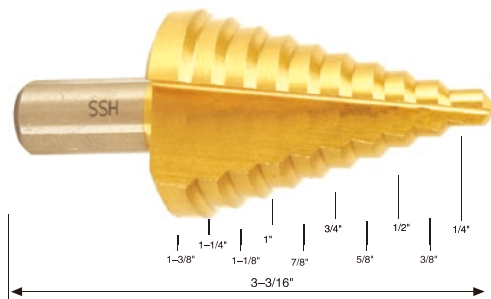
型号 Type	规格 Size	单位 Unit: inch 总长 Overall length L
I-SSAS-502	3/16", 1/4", 5/16", 3/8", 7/16", 1/2"	3-1/2"



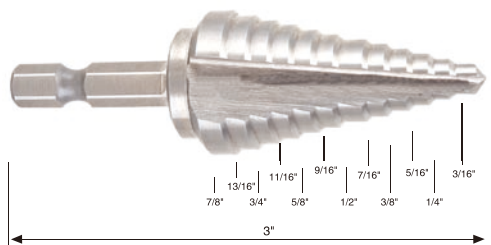
型号 Type	规格 Size	单位 Unit: inch 总长 Overall length L
I-SSHS-503	1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"	2-3/4"



型号 Type	规格 Size	单位 Unit: inch 总长 Overall length L
I-SSAS-504	3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8"	2-15/16"



型号 Type	规格 Size	单位 Unit: inch 总长 Overall length L
I-SSHS-506	1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1-1/8", 1-1/4", 1-3/8"	3-3/16"



型号 Type	规格 Size	单位 Unit: inch 总长 Overall length L
I-SSHI-106	3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8"	3"

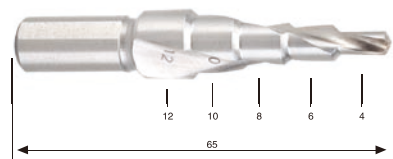


- ◎ 选用优质高速钢制造;
- ◎ 可按客户要求定制各种规格组合;
- ◎ 可进行TiAlN、TiN等多种表面处理。
- ◎ Made of high quality high speed steel;
- ◎ Various sizes are available upon request;
- ◎ TiAlN、TiN coating are available.

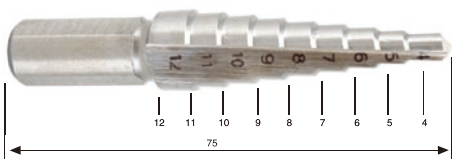
TiAlN

TiN

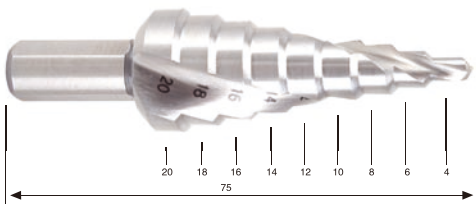
明细规格 Detail specifications



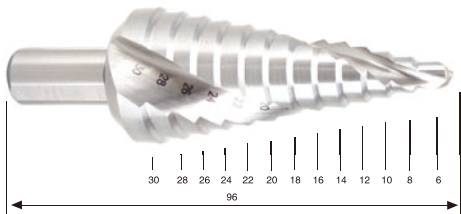
型号 Type	规格 Size	单位 Unit: mm 总长Overall length L
SSHS-101 SSAS-101 SSHS-109 SSAS-111	4、6、8、10、12	65



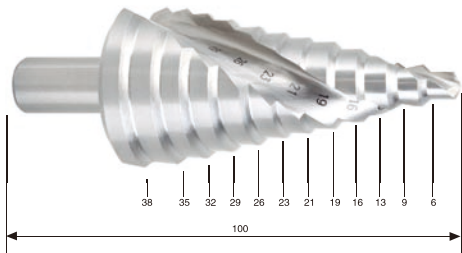
型号 Type	规格 Size	单位 Unit: mm 总长Overall length L
SSHS-102 SSAS-102 SSHS-110 SSAS-112	4、5、6、7、8、9、10、11、12	65



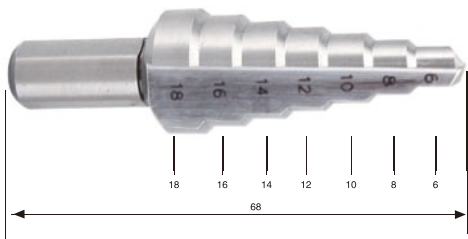
型号 Type	规格 Size	单位 Unit: mm 总长Overall length L
SSHS-103 SSAS-103 SSHS-115	4、6、8、10、12、14、16、18、20	75



型号 Type	规格 Size	单位 Unit: mm 总长Overall length L
SSHS-105 SSAS-105 SSHS-116	6、8、10、12、14、16、18、20、22、24、26、28、30	98

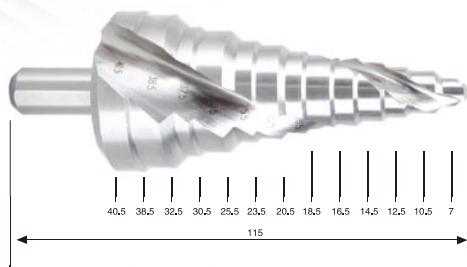


型号 Type	规格 Size	单位 Unit: mm 总长Overall length L
SSHS-104 SSAS-104	6、9、13、16、19、21、23、26、29、32、35、38	100

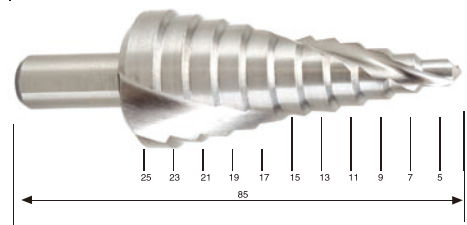


型号 Type	规格 Size	单位 Unit: mm 总长Overall length L
SSHS-111 SSAS-113	6、8、10、12、14、16、18	68

高速钢阶梯钻系列 HSS step drill



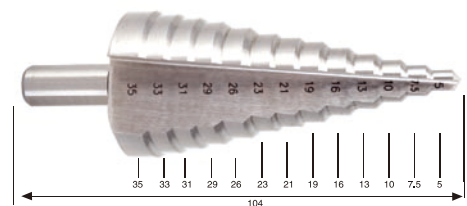
型号 Type	规格 Size	单位 Unit: mm 总长 Overall length L
SSAS-106	7、10.5、12.5、14.5、16.5、18.5、20.5、 23.5、25.5、30.5、32.5、38.5、40.5	115



型号 Type	规格 Size	单位 Unit: mm 总长 Overall length L
SSAS-110	5、7、9、11、13、15、17、19、21、23、 25	85



型号 Type	规格 Size	单位 Unit: mm 总长 Overall length L
SSHS-112 SSAS-114	4、6、8、10、12、14、16、18、20、22	81



型号 Type	规格 Size	单位 Unit: mm 总长 Overall length L
SSHS-113 SSAS-115	5、7.5、10、13、16、19、21、23、26、29、 31、33、35	104

高速钢阶梯钻套装刀系列 HSS step drill set



套裝刀型号 Type	包含的型号 Type	规格 Size
I-SSHS-T01	I-SSHS-501	3-1/8 **1/2" *1/4 **76.3
	I-SSHS-502	6-3/16" *1/2 **1/4" *90.9
	I-SSHS-503	9-1/4 **3/4" *3/8 **76.1

套裝刀型号 Type	包含的型号 Type	规格 Size
SSAS-T001	SSAS-101	5-4*12*8*65
SSAS-T002	SSAS-103	9-4*20*10*75
	SSAS-105	13-6*30*13*98

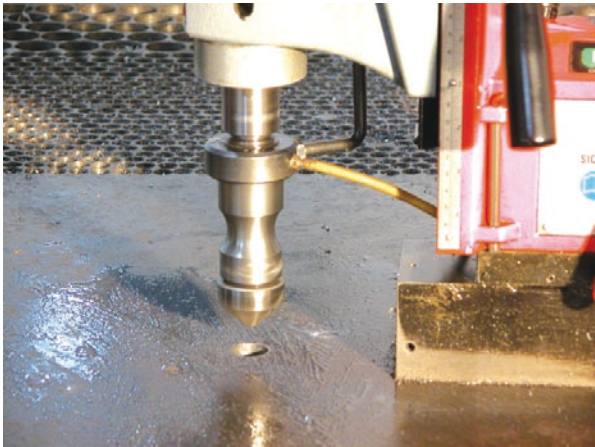
注: SSAS-T001为碳氮共渗, SSAS-T002为氮铝化钛

- ◎可按客户要求定制各种规格组合;
- ◎Various sizes are available upon request;
- ◎可进行TiAlN、TiN等多种表面处理。
- ◎TiAlN、TiN coating are available.

倒角刀

Countersink

- ◎ 选用优质超硬高速钢；
- ◎ 可定制硬质合金镶焊。
- ◎ selection of high-quality super-hard high speed steel;
- ◎ customizable carbide inserts welded.



●倒角刀系列型号说明 Part numbers of Countersink

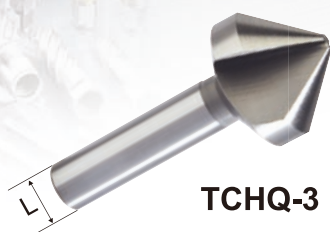
英制（附加码）
Imperial (VerifyCode)

— I — T C H Q — 301

表示规格代码
Said specification code

型号 Model	类 型 Types		性 能 Performance		材 质 Material	柄 型 Shank	
TCHX—	T	铇钻 Countersinks	C	倒角刀 Countersinks	H 高速钢 HSS	X	19.05直角柄 3/4" weldon shank
TCHQ—	T	铇钻 Countersinks	C	倒角刀 Countersinks	H 高速钢 HSS	Q	圆柱柄 Cylindrical shank

倒角刀系列 Countersink



TCHQ-3

单位 Unit: mm

型号 Type	规格 Size	L
TCHQ-304	3-12.4*56°90°	8
TCHQ-305	3-16.5*60°90°	10
TCHQ-306	3-20.5*63°90°	10
TCHQ-307	3-25*67°90°	10
TCHQ-308	3-31*71°90°	12
TCHQ-309	3-40*100°90°	16

- ◎选用超硬高速钢制造;
- ◎有单刃、多刃孔型, 适合钢件、软质材料的倒角;
- ◎适合各类钻床、手电钻进行倒角;
- ◎倒角刀底孔可从3mm-58mm;
- ◎倒角刀角度有82°、90°、100°、120°。
- ◎Selects of the super tough high-speed steel;
- ◎Supply three-edges and multi-edge, suit to the step drill of steel stock and the soft nature material;
- ◎Suitable for each kind of magnetic drilling machine and pistol drill to chamfer;
- ◎Chamfering diameter from 3mm to 58mm;
- ◎82°、90°、100°、120° are all available.



TCHX-3

单位 Unit: mm

型号 Type	规格 Size
TCHX-301	3-25*45°90°
TCHX-302	3-30*47°90°
TCHX-303	3-40*52°90°
TCHX-304	3-50*57°90°
TCHX-305	3-55*60°90°

单位 Unit: inch

型号 Type	规格 Size
I-TCHX-302	1-1/4**1-55/64**90°
I-TCHX-304	3-2**2-1/4**90°
I-TCHX-306	3-1-1/2**2-1/16**90°
I-TCHX-329	3-1-1/2**2-1/16**82°
I-TCHX-331	3-2**2-3/8**82°

- ◎选用超硬高速钢制造;
- ◎设有单刃与三刃;
- ◎标准的直角柄, 柄径19.05mm;
- ◎适合各类磁座钻机进行倒角。
- ◎Selects of the super tough high-speed steel;
- ◎Supply three-edges and multi-edge;
- ◎Weldon shank, 19.05mm;
- ◎Suitable for each kind of magnetic drilling machine and pistol drill to chamfer.



TCHQ-T001

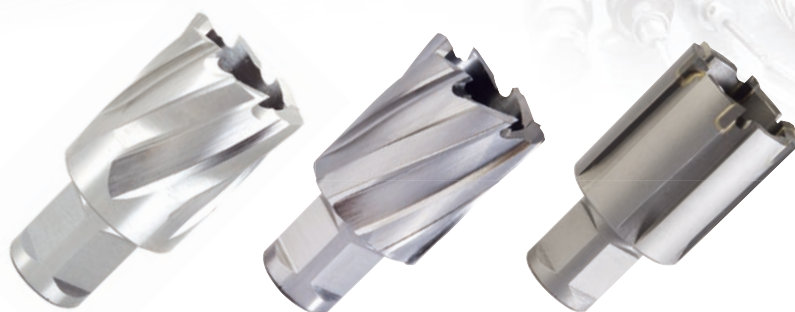
单位 Unit: mm

套装刀型号 Type	包含的型号 Type	规格 Size
TCHQ-T001	TCHQ-301	3-6.3*45°90°
	TCHQ-304	3-12.4*56°90°
	TCHQ-305	3-16.5*60°90°
	TCHQ-306	3-20.5*63°90°
	TCHQ-307	3-25*67°90°

- ◎Selects of the super tough high-speed steel.
- ◎Single-edge and multi-edges are available, suitable to chamfer on steel and soft materials.
- ◎选用超硬高速钢制造。
- ◎有单刃、多刃孔型, 适合钢件、软质材料的倒角。

钢轨钻系列

Rail cutter range



- 1、针对钢轨材质专用，使其具有卓越钻孔性能；
 - 2、多种性能系列，适合不同钢轨材质的钻孔要求；
 - 3、设有实心、空心、可转位三种类型，满足不同工艺的钻孔要求；
 - 4、规格从 $\Phi 6 \sim \Phi 38 \text{mm}$ ，切深25mm、50mm系列。
- 1、Superiorly-designed geometry for rails with remarkable performance;
 - 2、Various performance ranges with guide for various railtrack;
 - 3、Selections of solid, hollow, and exchangeable carbide tips for various requirements of hole cutting on railtrack;
 - 4、Diameter from $\Phi 6 \sim \Phi 38 \text{mm}$ with 25, 50mm D.O.C.

● 钢轨钻系列型号说明 Types of rail cutters

DR A X - 2 0250

表示直径: 25mm
DIA.: 25mm

型号 Model	类 型 TYPE		性能&材质 PROPERTY & MATERIAL		柄 型 shank		切深代码 code of D.O.C.						
DRAX-	DR	钢轨空心钻 rail core drill	A	高性能高速钢 high-performance HSS	X	19直角柄 19 weldon shank	<table><tr><td>代码 code</td><td>切削深度 cutting depth</td></tr><tr><td>2</td><td>25mm</td></tr><tr><td>4</td><td>50mm</td></tr></table>	代码 code	切削深度 cutting depth	2	25mm	4	50mm
代码 code	切削深度 cutting depth												
2	25mm												
4	50mm												
DRHX-	DR	钢轨空心钻 rail core drill	H	超硬高速钢 super tough HSS	X	19直角柄 19 weldon shank							
DRTX-	DR	钢轨空心钻 rail core drill	A	硬质合金 T.C.T	X	19直角柄 19 weldon shank							
SRHX-	SR	实心钢轨钻 solide rail cutter	H	超硬高速钢 super tough HSS	X	19直角柄 19 weldon shank							



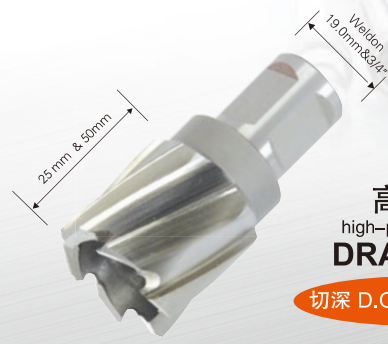
铁路钢轨钻 Rail cutter





标准型
Standard version
DRHX-2&4

切深 D.O.C. 25&50mm



高性能
high-performance
DRAX-2&4

切深 D.O.C. 25&50mm

单位 Unit: mm

型号 Type	规格 Size	型号 Type	规格 Size
DRHX-20135	13.5*20		
DRHX-20180	18*25	DRHX-40180	18*50
DRHX-20190	19*25	DRHX-40190	19*50
DRHX-20200	20*25	DRHX-40200	20*50
DRHX-20210	21*25	DRHX-40210	21*50
DRHX-20220	22*25	DRHX-40220	22*50
DRHX-20230	23*25	DRHX-40230	23*50
DRHX-20240	24*25	DRHX-40240	24*50
DRHX-20250	25*25	DRHX-40250	25*50
DRHX-20260	26*25	DRHX-40260	26*50
DRHX-20270	27*25	DRHX-40270	27*50
DRHX-20280	28*25	DRHX-40280	28*50
DRHX-20290	29*25	DRHX-40290	29*50
DRHX-20300	30*25	DRHX-40300	30*50
DRHX-20310	31*25	DRHX-40310	31*50
DRHX-20320	32*25	DRHX-40320	32*50
DRHX-20330	33*25	DRHX-40330	33*50
DRHX-20340	34*25	DRHX-40340	34*50
DRHX-20350	35*25	DRHX-40350	35*50
DRHX-20360	36*25	DRHX-40360	36*50

- ◎选用超硬高速钢，特殊设计的刀刃几何角度；
- ◎耐磨性能、抗冲击性能优越；
- ◎适合对U74、U71Mn、PD2、PD3 (U75V) 、BNbRE等淬火轨、普通轨材质的钻孔；
- ◎设有柄部直径19.0mm与19.05mm的直角柄型。
- ◎Made of super tough high speed steel, superiorly-designed geometry;
- ◎Super endurance and impact resistance;
- ◎Applicable to hole cutting on U74、U71Mn、PD2、PD3 (U75V) BNbRE,etc. head hardened rail and normal rail;
- ◎Supply Φ 19.0mm and Φ 19.05mm Weldon shank.

匹配的顶针 Suitable pins



型号 Type	规格 Size	配刀直径 Matching Cutter
DPB-62077	6.34/5.3*77	(12~17)*25mm
DPB-81077	7.98*77	(18~36)*25mm
DPB-81103	7.98*103	(18~36)*50mm

单位 Unit: mm

型号 Type	规格 Size	型号 Type	规格 Size
DRAX-20135	13.5*20		
DRAX-20180	18*25	DRAX-40180	18*50
DRAX-20190	19*25	DRAX-40190	19*50
DRAX-20200	20*25	DRAX-40200	20*50
DRAX-20210	21*25	DRAX-40210	21*50
DRAX-20220	22*25	DRAX-40220	22*50
DRAX-20230	23*25	DRAX-40230	23*50
DRAX-20240	24*25	DRAX-40240	24*50
DRAX-20250	25*25	DRAX-40250	25*50
DRAX-20260	26*25	DRAX-40260	26*50
DRAX-20270	27*25	DRAX-40270	27*50
DRAX-20280	28*25	DRAX-40280	28*50
DRAX-20290	29*25	DRAX-40290	29*50
DRAX-20300	30*25	DRAX-40300	30*50
DRAX-20310	31*25	DRAX-40310	31*50
DRAX-20320	32*25	DRAX-40320	32*50
DRAX-20330	33*25	DRAX-40330	33*50
DRAX-20340	34*25	DRAX-40340	34*50
DRAX-20350	35*25	DRAX-40350	35*50
DRAX-20360	36*25	DRAX-40360	36*50

- ◎选用超硬高性能高速钢，特殊设计的刀刃几何角度；
- ◎卓越的耐磨性能、抗冲击性能；
- ◎适合对U74、U71Mn、PD2、PD3 (U75V) 、BNbRE等淬火轨、普通轨材质的钻孔；
- ◎设有柄部直径19.0mm与19.05mm的直角柄型。
- ◎Made of super tough high speed steel, superiorly-designed geometry;
- ◎Super endurance and impact resistance;
- ◎Applicable to hole cutting on U74、U71Mn、PD2、PD3 (U75V) 、BNbRE , etc. head hardened rail and normal rail;
- ◎Supply Φ 19.0mm and Φ 19.05mm Weldon shank.

匹配的顶针 Suitable pins



型号 Type	规格 Size	配刀直径 Matching Cutter
DPB-62077	6.34/5.3*77	(12~17)*25mm
DPB-81077	7.98*77	(18~36)*25mm
DPB-81103	7.98*103	(18~36)*50mm

高速钢&硬质合金钢轨钻系列 HSS / T.C.T. rail cutter



标准型
Standard version
DRTX-2

切深 D.O.C. 25mm



DRHT-2

切深 D.O.C. 20mm

单位 Unit: mm

型号 Type	规格 Size	型号 Type	规格 Size
DRTX-20180	18*25	DRTX-20280	28*25
DRTX-20190	19*25	DRTX-20290	29*25
DRTX-20200	20*25	DRTX-20300	30*25
DRTX-20210	21*25	DRTX-20310	31*25
DRTX-20220	22*25	DRTX-20320	32*25
DRTX-20230	23*25	DRTX-20330	33*25
DRTX-20240	24*25	DRTX-20340	34*25
DRTX-20250	25*25	DRTX-20350	35*25
DRTX-20260	26*25	DRTX-20360	36*25
DRTX-20270	27*25		

- 选用进口硬质合金刀片，特殊设计的刀刃几何角度；
- 钻孔速度快，性能优越；
- 适合对U74、U71Mn、PD2、PD3 (U75V)、BNbRE等淬火轨、普通轨材质的钻孔；
- 设有柄部直径19.0mm与19.05mm的直角柄型。
- Made of special carbide tips, superiorly-designed geometry;
- high drilling speed, High performance ;
- Applicable to hole cutting on U74、U71Mn、PD2、PD3 (U75V)、BNbRE , etc. head hardened rail and normal rail;
- Supply Φ 19.0mm and Φ 19.05mm Weldon shank.

单位 Unit: mm

型号 Type	规格 Size	型号 Type	规格 Size
DRHT-10220	22*20	DRHT-10320	32*20
DRHT-10230	23*20	DRHT-10330	33*20
DRHT-10240	24*20	DRHT-10340	34*20
DRHT-10250	25*20	DRHT-10350	35*20
DRHT-10260	26*20	DRHT-10360	36*20
DRHT-10270	27*20		
DRHT-10280	28*20		
DRHT-10290	29*20		
DRHT-10300	30*20		
DRHT-10310	31*20		

- 选用超硬高速钢，特殊设计的刀刃几何角度；
- 耐磨性能、抗冲击性能优越；
- 适合对U74、U71Mn、PD2、PD3 (U75V)、BNbRE等淬火轨、普通轨材质的钻孔；
- 内孔14.0mm套式柄，匹配钻孔机专用接口。
- Made of super tough high speed steel, superiorly-designed geometry;
- Super endurance and impact resistance;
- Applicable to hole cutting on U74、U71Mn、PD2、PD3 (U75V)、BNbRE , etc. head hardened rail and normal rail;
- 14.0mm inner bore, match to the special Interface of magnetic drilling machine.

匹配的顶针 Suitable pins



型号 Type	规格 Size	配刀直径 Matching Cutter
DPB-62077	6.34/5.3*77	(12~17)*25mm
DPB-81077	7.98*77	(18~36)*25mm
DPB-81103	7.98*103	(18~36)*50mm

实心钢轨钻系列 Solid rail cutter

分体式Split



型号 Model	规格 Size	型号 Model	规格 Size
SRHJ-20060	6*25		
SRHJ-20080	8*25		
SRHJ-20098	9.8*25		
SRHJ-20100	10*25		
SRHJ-20120	12*25		
SRHJ-20135	13.5*25		
SRHJ-20160	16*25		

- 选用超硬高速钢，特殊设计的两刃几何角度；
- 卓越的耐磨性能、抗冲击性能；
- 适合对U74、U71Mn、PD2、PD3 (U75V)、BNbRE等淬火轨、普通轨材质的钻孔；
- 设有柄部直径19.05mm的直角柄型；
- 可重复修磨多次。
- Made of super tough high speed steel, superiorly-designed two cut geometry;
- Super endurance and impact resistance;
- Applicable to hole cutting on U74、U71Mn、PD2、PD3 (U75V)、BNbRE, etc. head hardened rail and normal rail;
- Supply Φ 19.05mm Weldon shank;
- Regrounding is available.

整体式Integral



型号 Model	规格 Size	型号 Model	规格 Size
SRHX-20060	6*25	SRHX-20180	18*25
SRHX-20080	8*25	SRHX-20190	19*25
SRHX-20098	9.8*25	SRHX-20200	20*25
SRHX-20100	10*25	SRHX-20220	22*25
SRHX-20110	11*25	SRHX-20275	27.5*25
SRHX-20120	12*25		
SRHX-20135	13.5*25		
SRHX-20160	16*25		
SRHX-20170	17*25		

分体式实心钢轨钻附件 Accessories of solid rail cutter

订货号 Part no.	名称 Name	规格 Size	配刀直径 Matching Cutter
198122001	接柄 after handle	19.05*8*35	6、8、10、11、12
198122003	接柄 after handle	19.05*13*35	13、13.5、16
2399006	顶杆 plunger	8.4*7*22	

可转位钢轨钻系列 Rail cutter with exchangeable carbide tips



型号 Model	规格 Size	型号 Model	规格 Size
SKSY-20180	18*25*68		30*25*68
SKSY-20190	19*25*68	SKSY-20320	32*25*68
SKSY-20220	22*25*68	SKSY-20325	32.5*25*68
SKSY-20240	24*25*68	SKSY-20330	33*25*68
SKSY-20260	26*25*68	SKSY-20340	34*25*68
SKSY-20280	28*25*68	SKSY-20360	36*25*68

- 新型的可转位钢轨钻孔刀具，可更换刀片，不一样的构造，不一样的效果；
- 适合与特殊匹配钻机或钢性良好的钻机。
- New rail cutter. Angles of carbide tips adjustable. Carbide tips exchangeable;
- Suitable on stable rail drills and machines.

可转位钢轨钻附件

Accessories of rail cutter with exchangeable carbide tips

订货号 Part no.	名称 Name	规格 Size	配刀直径 Matching Cutter
2501014	刀片 tip	6*6*2.4	18-21
2501015	刀片 tip	8*8*4	22-27.5
2501013	刀片 tip	10*10*4.3	28-34
2501016	刀片 tip	11.5*11.5*4.8	35-38
2102027	螺钉 screw	M2.2	18-21
2102028	螺钉 screw	M2.5	22-27.5
2102022	螺钉 screw	M3.5	28-34
2102029	螺钉 screw	M4	35-38
2502012	扳手 wrench	T6	18-21
2502011	扳手 wrench	T7	22-27.5
2502010	扳手 wrench	T15	28-38

钢板钻选择推荐表 Selections of annular cutter

产品系列 Range of annular cutter 适合度 Applications 材质 Materials	DNH*	DAH*	DBH*	DMH*	DNT*	DRH*	DRA*	DRT*	SRH*
页码 Page number	P26-33 P37-40	P34	P35-36	P41	P10-23	P66	P66	P67	P68
碳钢<500N Carbon steel<500N	★★★	★★★	★★★	★★★	★★★				★★
碳钢<750N Carbon steel<750N	★★★	★★★	★★	★★★	★★★				★★
合金钢<900N Alloy steel <900N	★★★	★★★	★	★★	★★★				★★
合金钢<1100N Alloy steel <1100N	★★	★★★		★	★★★	★	★		★★
合金钢<1400N Alloy steel <1400N	★	★★			★★★	★★	★★★		★★★
不锈钢<900N stainless steel<900N	★	★★		★	★★★	★	★		★★
不锈钢>900N Stainless steel >900N		★			★★★	★★	★★★		★
铝合金 Aluminum alloy	★★	★★★	★★	★★	★★★				★
铜、黄铜、镍、锡 Copper, brass, nickel, tin		★★		★★	★★				
塑料 Plastics	★★★	★★★	★★★	★★★					
铸铁 Cast iron		★			★★★				★★
石墨 Graphite					★★★				★
硬土、镍基合金 Hard soil, nickel base alloy rail					★★★				★★
钢轨 Railtracks		★			★	★★★	★★★	★★★	★★★

最佳的 Optimal ★★★ 适合的 Good ★★ 可行的 Possible ★

注：表中推荐值基于市场应用量，结合产品性能制定，横向间非等量关系。

Note: Recommend in the table, but customize in the basic of market application and performance, Non-equivalent between horizontal.

使用提示：

- 1、转速选择：参照“切削参数表”（69-70页）；
- 2、进给速度：进给速度一般按0.06-0.15mm/转，进给速度是在钻孔时比较关键的要素，不同的进给量可以形成不同的铁屑，不同的铁屑会影响排屑性能；
- 3、在钻孔开始与结束时，进给量降低1/3可以减少刀的损坏；
- 4、在钻削钢件时，保证充分的切削液给予冷却，有利于提高孔的光洁度与刀的钻孔数量；
- 5、对钻削时出现大量细小粉末的材料，如铸铁，铸铜等时，可改用压缩空气进行冷却；
- 6、及时清除缠绕在钻体上的铁屑，是保证良好排屑的有效方法，良好的排屑是至关重要的；
- 7、当刀刃出现局部磨损宽度0.4mm以上时，应考虑更换。

Operation manual:

- 1、Speed choice: refer to "cutting parameter table" (Page 69-70);
- 2、Feed recommendation: 0.06-0.15mm/cycle. Feed is the key point for hole cutting. Different feed forms different shaped chips, which determine the performance of chips removal;
- 3、During the beginning and termination of hole cutting, decrease feed 1/3 can reduce the damage of cutter;
- 4、Sufficient coolant supply can increase the smoothness of holes as well as quantities of holes to be cut;
- 5、Some materials, like cast iron/copper occur lots of powder when cutting. Compressed air is recommended for cooling instead of coolant;
- 6、Remove the chips twining around the cutter from time to time, which is the better way for chip removal. Better chips removal is quite important;
- 7、When the wear width of the cutting edges reaches 0.4mm, cutters should be replaced.



●磁座钻应用 Used on magnetic drill



●立钻上的应用 Used on the upright drill



●测试 Test



●钻铣上的应用 Used on the drill machine



●数控机床上的应用 Used on the CNC machine



●测试 Test



●孔钻应用在手电钻上 Hole saws used on the pistol drill



●摇臂钻床上应用 Used on the radial drill machine



●测试 Test



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高速钢切削参数表

Recommended cutting speed for HSS-E annular cutter

高速钢类切削速度推荐表 Recommended list of HSS cutting speed

单位 Unit: rpm

直径 mm Zoll / inch		低碳钢 500N/mm ² Steel ≤ 500N/mm ²	中碳钢 750N/mm ² Steel ≤ 750N/mm ²	高碳钢 900N/mm ² Steel ≤ 900N/mm ²	合金工具钢 1200N/mm ² Steel ≤ 1200N/mm ²	碳素工具钢 1400N/mm ² Steel ≤ 1400N/mm ²	不 锈 钢 Stainless steel	铝 Aluminium	铸 铁 Cast iron	铸 铜 Cast copper
12	7/16"	663	530	344	265	185	318	981	477	1061
13	17/32"	612	489	318	244	171	293	905	440	979
14	19/32"	568	454	295	227	159	272	841	409	909
15	5/8"	530	424	275	212	148	254	785	381	848
16	21/32"	497	397	258	198	139	238	736	358	795
17	11/16"	468	374	243	187	131	224	692	337	748
18		442	353	229	176	123	212	654	318	707
19	3/4"	418	335	217	167	117	201	619	301	670
20	25/32"	397	318	206	159	111	190	588	286	636
21	13/16"	378	303	197	151	106	181	560	272	606
22	7/8"	361	289	188	144	101	173	535	260	578
23	59/64"	345	276	179	138	96	166	512	249	553
24	15/16"	331	265	172	132	92	159	490	238	530
25	1"	318	254	165	127	89	152	471	229	509
26		306	244	159	122	85	146	452	220	489
27	1-1/16"	294	235	153	117	82	141	436	212	471
28	1-1/8"	284	227	147	113	79	136	420	204	454
29		274	219	142	109	76	131	406	197	439
30	1-3/16"	265	212	137	106	74	127	392	190	424
31		256	205	133	102	71	123	379	184	410
32	1-1/4"	248	198	129	99	69	119	368	179	397
33	1-5/16"	241	192	125	96	67	115	356	173	385
34		234	187	121	93	65	112	346	168	374
35	1-3/8"	227	181	118	90	63	109	336	163	363
36		221	176	114	88	61	106	327	159	353
37	1-7/16"	215	172	111	86	60	103	318	154	344
38	1-1/2"	209	167	108	83	58	100	309	150	335
39		204	163	106	81	57	97	301	146	326
40	1-9/16"	198	159	103	79	55	95	294	143	318
41	1-5/8"	194	155	100	77	54	93	287	139	310
42		189	151	98	75	53	90	280	136	303
43	1-11/16"	185	148	96	74	51	88	273	133	296
44	1-3/4"	180	144	94	72	50	86	267	130	289
45		176	141	91	70	49	84	261	127	282
46	1-13/16"	172	138	89	69	48	83	256	124	276
47		169	135	88	67	47	81	250	121	270
48	1-7/8"	165	132	86	66	46	79	245	119	265
49	1-15/16"	162	129	84	64	45	77	240	116	259
50		159	127	82	63	44	76	235	114	254
51	2"	156	124	81	62	43	74	230	112	249
52	2-1/16"	153	122	79	61	42	73	226	110	244
53		150	120	78	60	42	72	222	108	240
54	2-1/8"	147	117	76	58	41	70	218	106	235
55		144	115	75	57	40	69	214	104	231
56	2-3/16"	142	113	73	56	39	68	210	102	227
57	2-1/4"	139	111	72	55	39	67	206	100	223
58		137	109	71	54	38	65	203	98	219
59	2-5/16"	134	107	70	53	37	64	199	97	215
60	2-3/8"	132	106	68	53	37	63	196	95	212
61		130	104	67	52	36	62	193	93	208
62	2-7/16"	128	102	66	51	35	61	189	92	205
63		126	101	65	50	35	60	186	90	202
64	2-1/2"	124	99	64	49	34	59	184	89	198
65	2-9/16"	122	97	63	48	34	58	181	88	195

硬质合金切削参数表

Recommended cutting speed for T.C.T. annular cutter

硬质合金类切削速度推荐表 Recommended list of solide carbied cutting speed

单位 Unit: rpm

直径 Diameter mm Zoll / inch		低碳钢 500N/mm ² Steel ≤ 500N/mm ²	中碳钢 750N/mm ² Steel ≤ 750N/mm ²	高碳钢 900N/mm ² Steel ≤ 900N/mm ²	合金工具钢 1200N/mm ² Steel ≤ 1200N/mm ²	碳素工具钢 1400N/mm ² Steel ≤ 1400N/mm ²	不锈钢 Stainless steel	铝 Aluminium	铸铁 Cast iron	铸铜 Cast copper
12	7/16"	1061	981	928	795	663	530	2387	1591	928
13	17/32"	979	905	857	734	612	489	2203	1469	857
14	19/32"	909	841	795	682	568	454	2046	1364	795
15	5/8"	848	785	742	636	530	424	1909	1273	742
16	21/32"	795	736	696	596	497	397	1790	1193	696
17	11/16"	748	692	655	561	468	374	1685	1123	655
18		707	654	618	530	442	353	1591	1061	618
19	3/4"	670	619	586	502	418	335	1507	1005	586
20	25/32"	636	588	557	477	397	318	1432	954	557
21	13/16"	606	560	530	454	378	303	1364	909	530
22	7/8"	578	535	506	434	361	289	1302	868	506
23	59/64"	553	512	484	415	345	276	1245	830	484
24	15/16"	530	490	464	397	331	265	1193	795	464
25	1"	509	471	445	381	318	254	1145	763	445
26		489	452	428	367	306	244	1101	734	428
27	1-1/16"	471	436	412	353	294	235	1061	707	412
28	1-1/8"	454	420	397	341	284	227	1023	682	397
29		439	406	384	329	274	219	987	658	384
30	1-3/16"	424	392	371	318	265	212	954	636	371
31		410	379	359	308	256	205	924	616	359
32	1-1/4"	397	368	348	298	248	198	895	596	348
33	1-5/16"	385	356	337	289	241	192	868	578	337
34		374	346	327	280	234	187	842	561	327
35	1-3/8"	363	336	318	272	227	181	818	545	318
36		353	327	309	265	221	176	795	530	309
37	1-7/16"	344	318	301	258	215	172	774	516	301
38	1-1/2"	335	309	293	251	209	167	753	502	293
39		326	301	285	244	204	163	734	489	285
40	1-9/16"	318	294	278	238	198	159	716	477	278
41	1-5/8"	310	287	271	232	194	155	698	465	271
42		303	280	265	227	189	151	682	454	265
43	1-11/16"	296	273	259	222	185	148	666	444	259
44	1-3/4"	289	267	253	217	180	144	651	434	253
45		282	261	247	212	176	141	636	424	247
46	1-13/16"	276	256	242	207	172	138	622	415	242
47		270	250	237	203	169	135	609	406	237
48	1-7/8"	265	245	232	198	165	132	596	397	232
49	1-15/16"	259	240	227	194	162	129	584	389	227
50		254	235	222	190	159	127	572	381	222
51	2"	249	230	218	187	156	124	561	374	218
52	2-1/16"	244	226	214	183	153	122	550	367	214
53		240	222	210	180	150	120	540	360	210
54	2-1/8"	235	218	206	176	147	117	530	353	206
55		231	214	202	173	144	115	520	347	202
56	2-3/16"	227	210	198	170	142	113	511	341	198
57	2-1/4"	223	206	195	167	139	111	502	335	195
58		219	203	192	164	137	109	493	329	192
59	2-5/16"	215	199	188	161	134	107	485	323	188
60	2-3/8"	212	196	185	159	132	106	477	318	185
61		208	193	182	156	130	104	469	313	182
62	2-7/16"	205	189	179	154	128	102	462	308	179
63		202	186	176	151	126	101	454	303	176
64	2-1/2"	198	184	174	149	124	99	447	298	174
65		195	181	171	146	122	97	440	293	171
70	2-3/4"	181	168	159	136	113	90	409	272	159
75	2-15/16"	169	157	148	127	106	84	381	254	148
80	3-1/8"	159	147	139	119	99	79	358	238	139
85	3-5/16"	149	138	131	112	93	74	337	224	131
90	3-9/16"	141	130	123	106	88	70	318	212	123
95	3-3/4"	134	123	117	100	83	67	301	201	117
100	3-15/16"	127	117	111	95	79	63	286	190	111
105	4"	121	112	106	90	75	60	272	181	106
110		115	107	101	86	72	57	260	173	101
115		110	102	96	83	69	55	249	166	96
120		106	98	92	79	66	53	238	159	92
125		101	94	89	76	63	50	229	152	89
130		97	90	85	73	61	48	220	146	85
135		94	87	82	70	58	47	212	141	82
140		90	84	79	68	56	45	204	136	79
145		87	81	76	65	54	43	197	131	76
150		84	78	74	63	53	42	190	127	74