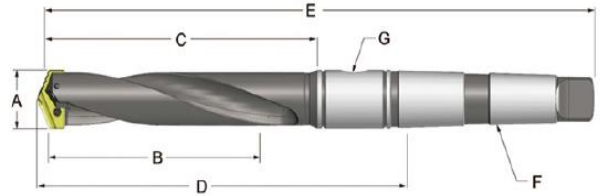
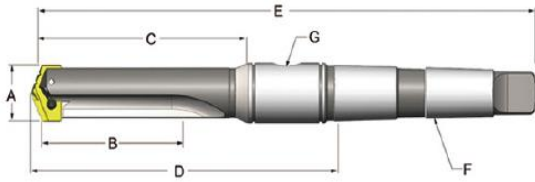


锥柄铲钻

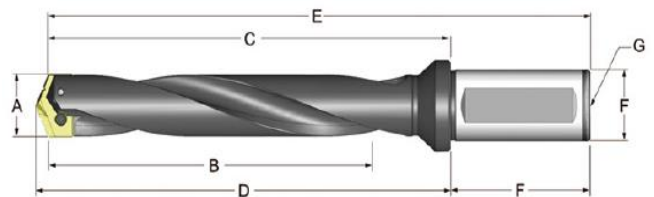
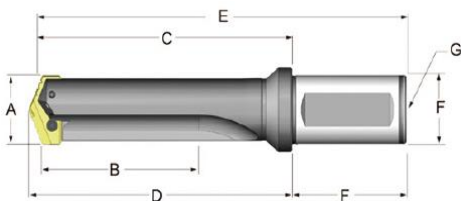
Spade Drill with Taper Shank



型号/直径 Type/Diameter			直槽锥柄系列 Straight Flutes (STM)				螺旋槽锥柄系列 Spiral Flutes (SPM)				
接口 Joint	钻孔直径 范围 Drill Range	柄部 尺寸 Shank#	20系列 20 series	50系列 50 series	70系列 70 series	90系列 90 series	20系列 20 series	30系列 30 series	40系列 40 series	50系列 50 series	60系列 60 series
			B 有效钻孔深度 Max. Drill Depth (mm)				B 有效钻孔深度 Max. Drill Depth (mm)				
Y0	9.5~11.0	MT2	31.8	/	/	/	31.8	/	60.3	111.1	/
Z0	11.5~12.5	MT2	31.8	/	/	/	31.8	/	60.3	111.1	/
00	13.0~15.0	MT2	35.0	/	/	/	35.0	/	63.5	114.3	177.8
05	15.5~17.5	MT2	35.0	/	/	/	35.0	/	63.5	114.3	177.8
10	18.0~21.5	MT3	69.8	/	/	/	69.8	120.7	171.5	273.1	/
15	22.0~24.0	MT3	69.8	/	/	/	69.8	120.7	171.5	273.1	/
20	25.0~29.0	MT4	85.7	/	/	/	85.7	136.5	187.3	289.0	/
25	30.0~35.0	MT4	85.7	/	/	/	85.7	136.5	187.3	289.0	/
30	36.0~41.0	MT4	120.6	349.3	558.8	787.4	120.6	165.1	209.5	349.3	/
35	42.0~47.0	MT4	120.6	349.3	558.8	787.4	120.6	165.1	209.5	349.3	/
40	48.0~55.0	MT5	130.1	422.3	625.0	879.0	130.1	/	231.8	422.3	/
45	56.0~65.0	MT5	130.1	422.3	625.0	879.0	130.1	/	231.8	422.3	/
50	64.0~76.0	MT5	171.5	463.6	660.0	889.0	171.5	/	273.1	463.6	/
55	77.0~89.0	MT5	171.5	463.6	660.0	889.0	171.5	/	273.1	463.6	/
70	90.0~100.0	MT5	171.5	555.6	685.0	939.0	171.5	/	273.1	555.6	/
80	102.0~114.0	MT5	171.5	555.6	685.0	939.0	171.5	/	273.1	555.6	/

侧固式直柄铲钻

Spade Drill with Shank for Side Lock



型号/直径 Type/Diameter			直槽侧固式柄系列 Straight Flutes (STS)					螺旋槽侧固式柄系列 Spiral Flutes (SPS)			
接口 Joint	钻孔直径 范围 Drill Range	柄部 尺寸 Shank#	10系列 10 series	20系列 20 series	50系列 50 series	70系列 70 series	90系列 90 series	30系列 30 series	40系列 40 series	50系列 50 series	60系列 60 series
			B 有效钻孔深度 Max. Drill Depth (mm)					B 有效钻孔深度 Max. Drill Depth (mm)			
Y0	9.5~11.0	20	19.1	31.8	/	222.0	290.0	/	60.3	111.1	/
Z0	11.5~12.5	20	19.1	31.8	/	222.0	290.0	/	60.3	111.1	/
00	13.0~15.0	20	22.2	34.9	/	295.0	387.0	/	63.5	114.3	177.8
05	15.5~17.5	20	22.2	34.9	/	295.0	387.0	/	63.5	114.3	177.8
10	18.0~21.5	25	47.6	66.7	/	457.0	569.0	117.5	168.3	269.9	/
15	22.0~24.0	25	47.6	66.7	/	457.0	569.0	117.5	168.3	269.9	/
20	25.0~29.0	32	57.2	85.7	/	511.0	692.0	136.5	187.3	288.9	/
25	30.0~35.0	32	57.2	85.7	/	511.0	692.0	136.5	187.3	288.9	/
30	36.0~41.0	40	76.2	120.7	349.3	558.8	787.4	165.1	209.6	/	/
35	42.0~47.0	40	76.2	120.7	349.3	558.8	787.4	165.1	209.6	/	/
40	48.0~55.0	40	/	130.2	422.3	625.0	879.0	/	231.8	/	/
45	56.0~65.0	40	/	130.2	422.3	625.0	879.0	/	231.8	/	/

刀片型号说明

Description of Insert Model

—10材料（粉末高速钢）用于普通钢和铸铁的钻削
 10 materials(powder high speed steel), for drilling carbon steel and cast iron.

—15材料（高性能粉末高速钢）用于高强度材料的钻削，如高镍合金
 15 materials(high performance powder high speed steel), for drilling high strength materials, such as high—nickel alloys.

—25材料（顶级性能粉末高速钢）用于难加工材料钻削，如高温合金
 25 materials(Top level performance powder high speed steel) for drilling difficult—to—machine material,such as high temperature alloy.

涂层 Coating	订货号 Number of crder	涂层材料 Coating
T	XX-XXXX-XXXT	TIN
A	XX-X-XXXXX-XXXXA	TIAIN
H	XX-X-XXXXX-XXXH	专用 Special

S P — Y — I 0750 — 10 X A

SP	Y			I	0750	10	X	A
分类 Category	接口代码 Connector code			公英制 Metric and Imperial	刀片直径 Insert diameter	材料 Material	几何 Geometry	涂层 Coating
铲钻刀片 Insert for Spade drills	接口 Connector	公制 Metric	英制 Imperia	I - 英制 Imperial	For "I" 0750 - 3/4"	10-粉末高速钢 Powder HSS	X-标准几何 X-Standard geometry	T
	Y	9.5~11.0	3/8"~27/64"					
	Z	11.5~12.5	7/16"~1/2"					
	O	13~17.5	33/64"~11/16"					
	1	18~24	45/64"~15/16"	M - 公制 Metric	For "M" 0750-75mm	15-高性能粉末 高速钢 High - performance powder HSS	W-多刃几何 S-Multi-edges geometry	A
	2	25~35	31/32"~1-3/8"					
	3	36~47	1-13/32"~1-7/8"					
	4	48~65	1-29/32"~2-9/16"					
	5	64~77	2-1/2"~3"					
	6	78~89	3-1/32"~3-1/2"					
7	90~100	3-17/32"~4"	25-顶级性能粉 末高速钢 Top-level powder HSS	H-阶梯刃几何 H-Step-edges- geometry	H			
8	102~114	4-1/64"~4-1/2"				P-平底几何 P-Flat-base geometry		

**切屑槽
Chip breaker**
折断切屑,易于排屑
减小钻削扭矩

**倒角
Chamfer**
增加刀片的强度
减少外圆的磨损
提高工件表面光洁度

**定位槽
Location groove**
保证径向的精度
Ensure the acuracy of the radial direction

**巩固螺丝孔
Fix screw holes**
安全可靠装夹
确保钻削过程中的稳定性
矩

- Safe and reliable clamping
- Ensure the stability during drilling

**分屑槽
Chip dividing groove**
减小切削宽度
减小钻削扭矩

- Reduce cutting width
- Better chip removal
- Reduce drilling torque

**XR型横刃修磨
XR chisel edge regrinding**
提高刃口强度
增强稳定性

- Improve the strength of cutting edges
- Increase the stability

**钻芯
Core drilling**
钻芯薄与一般钻头产品相比降低20%的轴向阻力
。 Thinner core drilling, which reduces 20% axial resistance compared with normal drills

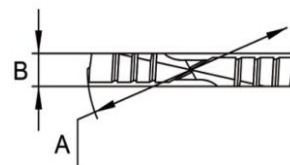
- Better self-centering

**两个后面刀
Two back flank surface**
减少与工件的摩擦
良好的自定心
降低轴向阻力

- Reduce the friction with the workpiece
- Better self-centering
- Reduce the axial resistance-force

刀片参数 (公制)

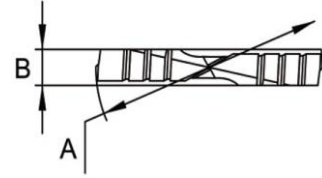
Parameters of Insert (Metric)



接口 Connector	A直径 Diameter (mm)	B厚度 Thickness (mm/inch)	10 (粉末高速钢) 10 (Powder HSS)	15 (高性能粉末高速钢) 15 (High-performance powder HSS)	25 (顶级性能粉末高速钢) 25 (Top-level powder HSS)		
规格区间 (mm)			型号 Type	型号 Type	型号 Type		
Y 9.5 to 11	9.50	2.38 (3/32")	---	---	SP-Y-M0095-25X*		
	9.80		---	---	SP-Y-M0098-25X*		
	10.00		---	---	SP-Y-M0100-25X*		
	10.20		---	---	SP-Y-M0102-25X*		
	10.50		---	---	SP-Y-M0105-25X*		
	10.80		---	---	SP-Y-M0108-25X*		
	11.00		---	---	SP-Y-M0110-25X*		
Z 11.5 to 12.5	11.50	2.38 (3/32")	---	---	SP-Z-M0115-25X*		
	12.00		---	---	SP-Z-M0120-25X*		
	12.50		---	---	SP-Z-M0125-25X*		
0 13 to 17.5	13.00	3.18 (1/8")	---	---	SP-O-M0130-25X*		
	13.50		---	---	SP-O-M0135-25X*		
	14.00		---	---	SP-O-M0140-25X*		
	14.50		---	---	SP-O-M0145-25X*		
	15.00		---	---	SP-O-M0150-25X*		
	15.50		---	---	SP-O-M0155-25X*		
	16.00		---	---	SP-O-M0160-25X*		
	16.50		---	---	SP-O-M0165-25X*		
	17.00		---	---	SP-O-M0170-25X*		
	17.50		---	---	SP-O-M0175-25X*		
	1 18 to 24		18.00	3.97 (5/32")	SP-1-M0180-10X*	SP-1-M0180-15X**	SP-1-M0180-25X*
18.50		SP-1-M0185-10X*	SP-1-M0185-15X*		SP-1-M0185-25X*		
19.00		SP-1-M0190-10X*	SP-1-M0190-15X*		SP-1-M0190-25X*		
19.50		SP-1-M0195-10X*	SP-1-M0195-15X*		SP-1-M0195-25X*		
20.00		SP-1-M0200-10X*	SP-1-M0200-15X*		SP-1-M0200-25X*		
20.50		SP-1-M0205-10X*	SP-1-M0205-15X*		SP-1-M0205-25X*		
21.00		SP-1-M0210-10X*	SP-1-M0210-15X*		SP-1-M0210-25X*		
22.00		SP-1-M0220-10X*	SP-1-M0220-15X*		SP-1-M0220-25X*		
23.00		SP-1-M0230-10X*	SP-1-M0230-15X*		SP-1-M0230-25X*		
24.00		SP-1-M0240-10X*	SP-1-M0240-15X*		SP-1-M0240-25X*		
2 25 to 35		25.00	4.76 (3/16")		SP-2-M0250-10X*	SP-2-M0250-15X*	SP-2-M0250-25X*
	26.00	SP-2-M0260-10X*		SP-2-M0260-15X*	SP-2-M0260-25X*		
	27.00	SP-2-M0270-10X*		SP-2-M0270-15X*	SP-2-M0270-25X*		
	28.00	SP-2-M0280-10X*		SP-2-M0280-15X*	SP-2-M0280-25X*		
	29.00	SP-2-M0290-10X*		SP-2-M0290-15X*	SP-2-M0290-25X*		
	30.00	SP-2-M0300-10X*		SP-2-M0300-15X*	SP-2-M0300-25X*		
	31.00	SP-2-M0310-10X*		SP-2-M0310-15X*	SP-2-M0310-25X*		
	32.00	SP-2-M0320-10X*		SP-2-M0320-15X*	SP-2-M0320-25X*		
	33.00	SP-2-M0330-10X*		SP-2-M0330-15X*	SP-2-M0330-25X*		
	34.00	SP-2-M0340-10X*		SP-2-M0340-15X*	SP-2-M0340-25X*		
	35.00	SP-2-M0350-10X*		SP-2-M0350-15X*	SP-2-M0350-25X*		
	3 36 to 47	36.00		6.35 (1/4")	SP-3-M0360-10X*	SP-3-M0360-15X*	SP-3-M0360-25X*
		37.00			SP-3-M0370-10X*	SP-3-M0370-15X*	SP-3-M0370-25X*
38.00		SP-3-M0380-10X*	SP-3-M0380-15X*		SP-3-M0380-25X*		
39.00		SP-3-M0390-10X*	SP-3-M0390-15X*		SP-3-M0390-25X*		
40.00		SP-3-M0400-10X*	SP-3-M0400-15X*		SP-3-M0400-25X*		
41.00		SP-3-M0410-10X*	SP-3-M0410-15X*		SP-3-M0410-25X*		
42.00		SP-3-M0420-10X*	SP-3-M0420-15X*		SP-3-M0420-25X*		
43.00		SP-3-M0430-10X*	SP-3-M0430-15X*		SP-3-M0430-25X*		
44.00		SP-3-M0440-10X*	SP-3-M0440-15X*		SP-3-M0440-25X*		
45.00		SP-3-M0450-10X*	SP-3-M0450-15X*		SP-3-M0450-25X*		
46.00		SP-3-M0460-10X*	SP-3-M0460-15X*		SP-3-M0460-25X*		
47.00		SP-3-M0470-10X*	SP-3-M0470-15X*		SP-3-M0470-25X*		

刀片参数 (公制)

Parameters of Insert (Metric)



接口 Connector	A直径 Diameter (mm)	B厚度 Thickness (mm/inch)	10 (粉末高速钢) 10 (Powder HSS)	15 (高性能粉末高速钢) 15 (High-performance powder HSS)	25 (顶级性能粉末高速钢) 25 (Top-level powder HSS)
规格区间 (mm)			型号 Type	型号 Type	型号 Type
4 48 to 65	48.00	7.94 (5/16")	SP-4-M0480-10X*	SP-4-M0480-15X*	SP-4-M0480-25X*
	49.00		SP-4-M0490-10X*	SP-4-M0490-15X*	SP-4-M0490-25X*
	50.00		SP-4-M0500-10X*	SP-4-M0500-15X*	SP-4-M0500-25X*
	51.00		SP-4-M0510-10X*	SP-4-M0510-15X*	SP-4-M0510-25X*
	52.00		SP-4-M0520-10X*	SP-4-M0520-15X*	SP-4-M0520-25X*
	53.00		SP-4-M0530-10X*	SP-4-M0530-15X*	SP-4-M0530-25X*
	54.00		SP-4-M0540-10X*	SP-4-M0540-15X*	SP-4-M0540-25X*
	55.00		SP-4-M0550-10X*	SP-4-M0550-15X*	SP-4-M0550-25X*
	56.00		SP-4-M0560-10X*	SP-4-M0560-15X*	SP-4-M0560-25X*
	57.00		SP-4-M0570-10X*	SP-4-M0570-15X*	SP-4-M0570-25X*
	58.00		SP-4-M0580-10X*	SP-4-M0580-15X*	SP-4-M0580-25X*
	59.00		SP-4-M0590-10X*	SP-4-M0590-15X*	SP-4-M0590-25X*
	60.00		SP-4-M0600-10X*	SP-4-M0600-15X*	SP-4-M0600-25X*
	61.00		SP-4-M0610-10X*	SP-4-M0610-15X*	SP-4-M0610-25X*
	62.00		SP-4-M0620-10X*	SP-4-M0620-15X*	SP-4-M0620-25X*
	63.00		SP-4-M0630-10X*	SP-4-M0630-15X*	SP-4-M0630-25X*
	64.00		SP-4-M0640-10X*	SP-4-M0640-15X*	SP-4-M0640-25X*
65.00	SP-4-M0650-10X*	SP-4-M0650-15X*	SP-4-M0650-25X*		
5 64 to 77	64.00	11.1 (7/16")	SP-5-M0640-10X*	SP-5-M0640-15X*	---
	66.00		SP-5-M0660-10X*	SP-5-M0660-15X*	---
	68.00		SP-5-M0680-10X*	SP-5-M0680-15X*	---
	70.00		SP-5-M0700-10X*	SP-5-M0700-15X*	---
	72.00		SP-5-M0720-10X*	SP-5-M0720-15X*	---
	74.00		SP-5-M0740-10X*	SP-5-M0740-15X*	---
	76.00		SP-5-M0760-10X*	SP-5-M0760-15X*	---
	77.00		SP-5-M0770-10X*	SP-5-M0770-15X*	---
6 78 to 89	78.00	11.1 (7/16")	SP-6-M0780-10X*	SP-6-M0780-15X*	---
	80.00		SP-6-M0800-10X*	SP-6-M0800-15X*	---
	82.00		SP-6-M0820-10X*	SP-6-M0820-15X*	---
	84.00		SP-6-M0840-10X*	SP-6-M0840-15X*	---
	86.00		SP-6-M0860-10X*	SP-6-M0860-15X*	---
	88.00		SP-6-M0880-10X*	SP-6-M0880-15X*	---
	89.00		SP-6-M0890-10X*	SP-6-M0890-15X*	---
7 90 to 100	90.00	11.1 (7/16")	SP-7-M0900-10X*	SP-7-M0900-15X*	---
	92.00		SP-7-M0920-10X*	SP-7-M0920-15X*	---
	94.00		SP-7-M0940-10X*	SP-7-M0940-15X*	---
	96.00		SP-7-M0960-10X*	SP-7-M0960-15X*	---
	98.00		SP-7-M0980-10X*	SP-7-M0980-15X*	---
	100.00		SP-7-M1000-10X*	SP-7-M1000-15X*	---
8 102 to 114	102.00	11.1 (7/16")	SP-8-M1020-10X*	SP-8-M1020-15X*	---
	104.00		SP-8-M1040-10X*	SP-8-M1040-15X*	---
	106.00		SP-8-M1060-10X*	SP-8-M1060-15X*	---
	108.00		SP-8-M1080-10X*	SP-8-M1080-15X*	---
	110.00		SP-8-M1100-10X*	SP-8-M1100-15X*	---
	112.00		SP-8-M1120-10X*	SP-8-M1120-15X*	---
	114.00		SP-8-M1140-10X*	SP-8-M1140-15X*	---

材料对应涂层种类表

涂层代码 Coating code	10材料 10 Material	15材料 15 Material	25材料 25 Material
T	■	■	■
A	■	■	■
H		■	■