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F1深孔钻刀体与硬质合金钻尖





可换硬质合金钻尖方式的螺旋深孔钻的又一次突破, 世界首创 !! 钻头总长,最长可达到1.25米 可换钻尖式刀具的专业制造商-YESTOOL公司的新产品

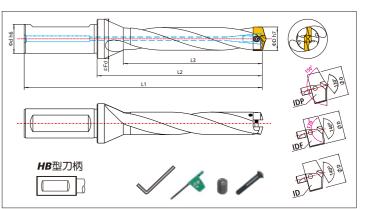


★ KRUZ-FSL、YTDI-FSL型法兰刀体与硬质合金钻尖



KRUZ-FSL 刀体

- ▶ 坚固的法兰式刀体,以减少震动或抖动
- ▶三种可通用的<IDP>、<IDF>、<ID>型硬质合金钻尖
- ▶ 刀体采用经过特殊热处理的优质工具钢,具有很好的刚性
- ▶ 通过减小振动,更能提高刀具寿命
- ▶ 内冷孔设计,可做到大进给、高速切削



订货时,请在口内标注孔深。如:T(3倍孔径), P(5倍孔径), H(7倍孔径), L(10倍孔径)

YTDI-FSL 刀体

孔径		力标尺寸	切削深度				法兰直径			锁紧螺栓	梅花型螺批	定位螺钉	" "型内六角扳手
范围	刀体型号	(Φd)	倍x孔径)	L1	L2	L3	(ΦFd)	适合刀体的刀片型号	IDP IDF I	-	14102200	8	
			T(3xD)	87	42	32		IDP 080, IDP 081, IDP	082. IDP 083. IDP 08	4			
Ф8.0	YTDI 080 □ FSL		P(5xD)	103	58	48		IDF 080, IDF 081, IDF					
~Ф8.4	KRUZ 080 □ FSL		H(7xD)	119	74	64				<u> </u>			
			L(10xD)	143	98	88		ID 080, ID 081, ID 0	J82, ID U83, ID U84	CS 080			
			T(3xD)	89	44	34		IDP 085, IDP 086, IDP	087, IDP 088, IDP 08	-085 SL			
Ф8.5	YTDI 085 □ FSL		P(5xD)	106	61	51		IDF 085, IDF 086, IDF	087 IDE 088 IDE 08	9			
~Ф8.9	KRUZ 085 □ FSL	(HA)	H(7xD)	123	78	68		ID 085, ID 086, ID 0					
			L(10xD)	_	104	94		10 003, 10 000, 10 C	367, ID 066, ID 063				
	VCED1 000 E FC1		T(3xD)	92	47	36		IDP 090, IDP 091, IDP	092, IDP 093, IDP 09	4			
Ф9.0	YTDI 090 □ FSL		P(5xD)	110	65	54		IDF 090, IDF 091, IDF	092. IDF 093. IDF 09	4			
~Ф9.4	KRUZ 090 □ FSL		H(7xD)	128	83	72		ID 090, ID 091, ID 0	•				
			L(10xD)		110	99		10 050, 10 051, 10 0	352, 10 033, 10 034	CS 090			
Ф9.5	YTDI 095 □ FSL		T(3xD)	97	49	38		IDP 095, IDP 096, IDP	097, IDP 098, IDP 09	9 -095 SL			
Ψ9.5			P(5xD)	116	68	57		IDF 095, IDF 096, IDF	097, IDF 098, IDF 09	9			
~Ф9.9	KRUZ 095 □ FSL		H(7xD)	135	87	76		ID 095, ID 096, ID 0	097. ID 098. ID 099				
			L(10xD)		116	105	18	,,			T6	None	None
Ф10.0	YTDI 100 □ FSL		T(3xD)	99	51	40		IDP 100, IDP 101, IDP	102, IDP 103, IDP 10	4			
			P(5xD) H(7xD)	119 139	71 91	60 80		IDF 100, IDF 101, IDF	102, IDF 103, IDF 10	4	扭矩		
~Ф10.4	KRUZ 100 □ FSL		L(10xD)		121	110		ID 100, ID 101, ID 1	102, ID 103, ID 104		0.6Nm		
			T(3xD)	103	54	42					(最大)		
Ф10.5	YTDI 105 ☐ FSL	12.0	P(5xD)	123	75	63		IDP 105, IDP 106, IDP	107, IDP 108, IDP 10	9			
	KRUZ 105 □ FSL	(HA)	H(7xD)	144	96	84		IDF 105, IDF 106, IDF	107, IDF 108, IDF 10	9			
~Ф10.9	KKUZ 105 🗆 FSL	(1.17.4)	L(10xD)		128	116	_	ID 105, ID 106, ID 1	107, ID 108, ID 109	CS100			
			T(3xD)	104	56	44		IDD 110 IDD 111 IDD	112 IDD 112 IDD 11	115 (1			
Ф11.0	YTDI 110 ☐ FSL		P(5xD)	126	78	66	1	IDP 110, IDP 111, IDP					
~Ф11.4	KRUZ 110 □ FSL		H(7xD)	148	100	88	1	IDF 110, IDF 111, IDF		4			
~Ψ11.4	ICHOZ TIO ETSE		L(10xD)	181	133	121	1	ID 110, ID 111, ID 1	112, ID 113, ID 114				
			T(3xD)	107	59	46		IDP 115, IDP 116, IDP	117 IND 118 IND 11	a			
Ф11.5	YTDI 115 ☐ FSL		P(5xD)	130	82	69	1						
~Ф11.9	KRUZ 115 □ FSL		H(7xD)	153	105	92	1	IDF 115, IDF 116, IDF		9			
11.5	1		L(10xD)	188	140	127]	ID 115, ID 116, ID 1	117, ID 118, ID 119				
			T(3xD)	109	61	48		IDP 120, IDP 121, IDP	122. IDP 123. IDP 12	4]		
Ф12.0	YTDI 120 ☐ FSL	16.0	P(5xD)	133	85	72	21	IDF 120, IDF 121, IDF	· ·	CS120		M2.5x4	1.3mm
~Ф12.4	KRUZ 120 □ FSL	10.0	H(7xD)	157	109	96	41		· ·	-135 SL		IVIZ.3X4	וווווכ.ו
			L(10xD)	193	145	132		ID 120, ID 121, ID 1	122, ID 123, ID 124				

KRUZ-FSL、YTDI-FSL型法兰刀体与硬质合金钻尖

孔径	刀体型号		切削深度	L1	L2	L3	法兰直径	1 适合力体的力方型专	-	梅花型螺批	定位螺钉	"1"型内六角扳手
范围		(Φd)	(倍 x 孔径)		62	50	(ΦFd)	IDP IDF III		8	•	/
Ф12.5	YTDI 125 □ FSL		T(3xD)	111	63	50		IDP 125, IDP 126, IDP 127, IDP 128, IDP 129	•			
			P(5xD) H(7xD)	136 161	88 113	75 100		IDF 125, IDF 126, IDF 127, IDF 128, IDF 129				
~Ф12.9	KRUZ 125 □ FSL	1	L(10xD)		151	138		ID 125-, ID 126, ID 127, ID 128, ID 129				
			T(3xD)	114	66	52		IDD 420 IDD 424 IDD 422 IDD 422 IDD 42		T6		
Ф13.0	YTDI 130 □ FSL		P(5xD)	140	92	78		IDP 130, IDP 131, IDP 132, IDP 133, IDP 134	CS 120			
~Ф13.4	KRUZ 130 □ FSL		H(7xD)	166	118	104		IDF 130, IDF 131, IDF 132, IDF 133, IDF 134	-135 SL	扭矩		
~Ψ13.4	KINGE ISO E ISE	46.0	L(10xD)		157	143		ID 130, ID 131, ID 132, ID 133, ID 134		0.6Nm (最大)		
		16.0	T(3xD)	116	68	54	21	IDP 135, IDP 136, IDP 137, IDP 138, IDP 13	,	収入		
Ф13.5	YTDI 135 ☐ FSL		P(5xD)	143	95	81		IDF 135, IDF 136, IDF 137, IDF 138, IDF 139				
~Ф13.9	KRUZ 135 □ FSL		H(7xD)	170	122	108						
			L(10xD)	211	163	149		ID 135, ID 136, ID 137, ID 138, ID 139				
4440	VTDI 440 🗆 FCI		T(3xD)	119	71	56		IDP 140, IDP 141, IDP 142, IDP 143, IDP 14	ı			
Ф14.0	YTDI 140 □ FSL		P(5xD)	147	99	84		IDF 140, IDF 141, IDF 142, IDF 143, IDF 144				
~Ф14.4	KRUZ 140 □ FSL		H(7xD)	175	127	112		ID 140, ID 141, ID 142, ID 143, ID 144				
			L(10xD)		169	154			-			
Ф14.5	YTDI 145 □ FSL		T(3xD)	123	73	58		IDP 145, IDP 146, IDP 147, IDP 148, IDP 149	9			
			P(5xD) H(7xD)	152 181	102 131	87 116		IDF 145, IDF 146, IDF 147, IDF 148, IDF 149				
~Ф14.9	KRUZ 145 □ FSL		L(10xD)		175	160		ID 145, ID 146, ID 147, ID 148, ID 149	CS 140			
			T(3xD)	127	77	60			-155 SI			
Ф15.0	YTDI 150 □ FSL		P(5xD)	157	107	90		IDP 150, IDP 151, IDP 152, IDP 153, IDP 15	*			
~Ф15.4	KRUZ 150 □ FSL		H(7xD)	187	137	120		IDF 150, IDF 151, IDF 152, IDF 153, IDF 154	1			
Ψ 13.4	KINGE 150 E 15E		L(10xD)	_	182	165		ID 150, ID 151, ID 152, ID 153, ID 154				
			T(3xD)	130	80	62		IDP 155, IDP 156, IDP 157, IDP 158, IDP 15	,			
Ф15.5	YTDI 155 ☐ FSL		P(5xD)	161	111	93		IDF 155, IDF 156, IDF 157, IDF 158, IDF 159				
~Ф15.9	KRUZ 155 □ FSL		H(7xD)	192	142	124						
			L(10xD)	239	189	171		ID 155, ID 156, ID 157, ID 158, ID 159		扭矩		
446.0	VTD1 460 🖂 F61		T(3xD)	132	82	64		IDP 160, IDP 161, IDP 162, IDP 163, IDP 16	ı	0.9Nm		
Ф16.0	YTDI 160 ☐ FSL		P(5xD)	164	114	96		IDF 160, IDF 161, IDF 162, IDF 163, IDF 164		(最大)	M2.5x4	1.3mm
~Ф16.4	KRUZ 160 □ FSL		H(7xD)	196	146	128		ID 160, ID 161, ID 162, ID 163, ID 164				
			L(10xD)		194	176			-			
Ф16.5	YTDI 165 □ FSL		T(3xD) P(5xD)	135 168	85 118	66		IDP 165, IDP 166, IDP 167, IDP 168, IDP 169	9			
			H(7xD)	201	151	99 132		IDF 165, IDF 166, IDF 167, IDF 168, IDF 169	•			
~Ф16.9	KRUZ 165 □ FSL		L(10xD)		201	182		ID 165, ID 166, ID 167, ID 168, ID 169	CS 160			
			T(3xD)	137	87	68		IDD 470 IDD 474 IDD 472 IDD 472 IDD 47	175 CI			
Ф17.0	YTDI 170 □ FSL		P(5xD)	171	121	102		IDP 170, IDP 171, IDP 172, IDP 173, IDP 174				
~Ф17.4	KRUZ 170 □ FSL	20.0	H(7xD)	205	155	136	27	IDF 170, IDF 171, IDF 172, IDF 173, IDF 174	1			
1711			L(10xD)		206	187		ID 170, ID 171, ID 172, ID 173, ID 174				
			T(3xD)	139	89	70		IDP 175, IDP 176, IDP 177, IDP 178, IDP 179	9			
Ф17.5	YTDI 175 ☐ FSL		P(5xD)	174	124	105		IDF 175, IDF 176, IDF 177, IDF 178, IDF 179				
~Ф17.9	KRUZ 175 □ FSL		H(7xD)	209	159	140		ID 175, ID 176, ID 177, ID 178, ID 179				
			L(10xD)		212	193		173, וט 170, וט 171, וט 176, וט 179				
ф19.0	VTDI 100 🗆 FCI		T(3xD)	142	92	72		IDP 180, IDP 181, IDP 182, IDP 183, IDP 18	ı			
Ф18.0	YTDI 180 □ FSL		P(5xD)	178	128	108		IDF 180, IDF 181, IDF 182, IDF 183, IDF 184				
~Ф18.4	KRUZ 180 □ FSL		H(7xD)	214	164	144		ID 180, ID 181, ID 182, ID 183, ID 184				
			L(10xD)	268 144	218 94	198 74			-			
Ф18.5	YTDI 185 □ FSL		T(3xD) P(5xD)	181	131	111		IDP 185, IDP 186, IDP 187, IDP 188, IDP 18	9			
~Ф18.9	KRUZ 185 □ FSL		H(7xD)	218	168	148		IDF 185, IDF 186, IDF 187, IDF 188, IDF 189	1			
~ 410.9	KNUZ 103 LI F3L		L(10xD)		224	204		ID 185, ID 186, ID 187, ID 188, ID 189	CS 180			
			T(3xD)	147	97	76		IDP 190, IDP 191, IDP 192, IDP 193, IDP 194	105 (1	T8		
Ф19.0	YTDI 190 □ FSL		P(5xD)	185	135	114				±π/r.5		
~Ф19.4	KRUZ 190 □ FSL		H(7xD)	223	173	152		IDF 190, IDF 191, IDF 192, IDF 193, IDF 194		扭矩 1.5Nm		
			L(10xD)	280	230	209		ID 190, ID 191, ID 192, ID 193, ID 194		(最大)		
445.5			T(3xD)	149	99	78		IDP 195, IDP 196, IDP 197, IDP 198, IDP 19	9	1400		
Ф19.5	YTDI 195 ☐ FSL		P(5xD)	188	138	117		IDF 195, IDF 196, IDF 197, IDF 198, IDF 199				
~Ф19.9	KRUZ 195 □ FSL		H(7xD)	227	177	156		ID 195, ID 196, ID 197, ID 198, ID 199				
			L(10xD)		236	215		ו מכן עו מכן עו מכן עו מכן עו מכן עו מכן עו				
Ф20.0	VTDI 200 🗆 ECI		T(3xD)	157	101	80		IDP 200, IDP 201, IDP 202, IDP 203, IDP 204				
	YTDI 200 □ FSL	25.0	P(5xD)	197	141	120 160	32	IDF 200, IDF 201, IDF 202, IDF 203, IDF 204	CS 200 -215 SL		М3х6	1.5mm
~Ф20.4	KRUZ 200 □ FSL		H(7xD)	237	181			ID 200, ID 201, ID 202, ID 203, ID 204	-215 SL			
			L(10xD)	29/	241	220		, , ,				

	孔径 范围	刀体型号	刀柄尺寸 (Φd)	切削深度 (倍x孔径)	L1	L2	L3	法兰直径 (ΦFd)	适合刀体的刀片型号 10月 10月	锁紧螺栓	梅花型螺批	定位螺钉	"L"型内六角扳
	Φ20 E	VTDI 205 □ FSI		-		_			IDP 205, IDP 206, IDP 207, IDP 208, IDP	209			
10 10 10 10 10 10 10 10									IDF 205, IDF 206, IDF 207, IDF 208, IDF 2	209			
	~Ф20.9	KKUZ 205 🗆 FSL				_			ID 205, ID 206, ID 207, ID 208, ID 209	•			
Proprint						_			IDP 210 IDP 211 IDP 212 IDP 213 IDP	214			
1.5 1.5	Ф 21.0	YTDI 210 □ FSL		P(5xD)	204	148	126			CS 200			
Company Comp	~Ф21.4	KRUZ 210 □ FSL		-		_				-215 SL			
Property													
March Micro Micr	Ф21.5	YTDI 215 □ FSL				_							
	~Ф21.9	KRUZ 215 □ FSL											
************************************				L(10xD)	316	260	237		ID 215, ID 216, ID 217, ID 218, ID 219		то		
### RVZ 220 □ FSL	ታ 33 ሀ	VTDI 220 □ FSI					_		IDP 220, IDP 221, IDP 222, IDP 223, IDP	224			
			25.0	-		_		32	IDF 220, IDF 221, IDF 222, IDF 223, IDF 2	224	扭矩		
Transport 169 113 90 1	~Ф22.4	KKUZ ZZU 🗆 FSL							ID 220, ID 221, ID 222, ID 223, ID 224				
-0-22.9 KRUZ 25 FSL H(7XD) 259 30 80 100 101 101 102 225, ID F 226, ID F 227, ID F 238, ID F 239 102 230 102 230, ID F 231, ID F 236, ID F 233, ID F 234 ID F 236, ID F 236, ID F 237, ID F 238, ID F 239 102 230, ID F 238, ID F 239 102 230, ID F 231, ID F 238, ID F 239 102 230, ID F 231, ID F 238, ID F 239 102 230, ID F 231, ID F 238, ID F 239 ID F 230, ID F 231, ID F 238, ID F 239 ID F 230, ID F 231, ID F 238, ID F 239 ID F 230, ID F 231, ID F 238, ID F 239 ID F 230, ID F 231, ID F 238, ID F 239 ID F 230, ID F 231, ID F 238, ID F 239 ID F 230, ID F 231, ID F 238, ID F 239 ID F 230, ID F 231, ID F 238, ID F 239 ID F 230, ID F 231, ID F 238, ID F 239 ID F 230, ID F 231, ID F 238, ID F 239 ID F 230, ID F 231, ID F 238, ID F 239 ID F 230, ID F 231, ID F 238, ID F 239 ID F 230, ID F 231, ID F 238, ID F 239 ID F 230, ID F 231, ID F 238, ID F 239 ID F 230, ID F 231, ID F 238, ID F 239 ID F 230, ID F 231, ID F 232, ID F 238, ID F 239 ID F 230, ID F 231, ID F 232, ID F 233, ID F 234 ID F 230, ID F 231, ID F 232, ID F 238, ID F 239 ID F 230, ID F 231, ID F 232, ID F 233, ID F 234 ID F 230, ID F 231, ID F 232, ID F 233, ID F 234 ID F 230, ID F 231, ID F 234, ID									IDP 225 IDP 226 IDP 227 IDP 228 IDP	229	(取入)		
	Ф22.5	YTDI 225 □ FSL		P(5xD)			135						
Company Comp	~Ф22.9	KRUZ 225 □ FSL								,			
May 1										-235 SI			
H(7/KD) 264 208 184	Ф23.0	YTDI 230 □ FSL		-		_				234			
	~Ф23.4	KRUZ 230 □ FSL				_							
Property	+ 23.1			L(10xD)		_	253		ID 230, ID 231, ID 232, ID 233, ID 234				
M3x6 No. No.	Ф22 Е	VTDI 225 □ ECI							IDP 235, IDP 236, IDP 237, IDP 238, IDP	239			
L L L L L L L L L L						_			IDF 235, IDF 236, IDF 237, IDF 238, IDF 3	239		М3х6	1.5mi
Time	~Ф23.9	KRUZ 235 LI FSL							ID 235, ID 236, ID 237, ID 238, ID 239)			
P(SxD) 229 169 144				-					IDD 240 IDD 241 IDD 242 IDD 242 IDD	244		_	
Company Com	Ф 24.0	YTDI 240 □ FSL			229	169	144						
Page 24.5 YTD 245 FSL	~Ф24.4	KRUZ 240 □ FSL				_							
P(5xD) 232 172 147				-		_			10 240, 10 241, 10 242, 10 243, 10 24				
- Ф24.9 KRUZ 245 □ FSL H(7xD) 281 221 196 L(10xD) 355 295 270 T(3xD) 185 125 100 P(5xD) 235 175 150 H(7xD) 285 225 200 L(10xD) 360 300 275 T(3xD) 188 128 102 P(5xD) 239 179 153 H(7xD) 290 230 204 L(10xD) 372 312 286 T(3xD) 193 133 106 P(5xD) 240 185 128 102 P(5xD) 247 107 248, ID 249 L(10xD) 357 307 247 120 247, ID 248, ID 249 L(10xD) 357 307 247 120 247, ID 248, ID 249 L(10xD) 357 307 247 120	Ф24.5	YTDI 245 □ FSL		$\overline{}$					IDP 245, IDP 246, IDP 247, IDP 248, IDP	249			
10 245, ID 246, ID 247, ID 248, ID 249 CS 240 CS 2	~ ⊕24 9												
◆25.0	+2.115			L(10xD)	355	295	270		ID 245, ID 246, ID 247, ID 248, ID 249	CS 240			
- Ф25.4 RRUZ 250 □ FSL	Φ2Ε 0	VTD1 250 🗆 501		<u> </u>					IDP 250, IDP 251, IDP 252, IDP 253, IDP	-255 SL			
◆25.5									IDF 250, IDF 251, IDF 252, IDF 253, IDF 2	254			
Ф25.5 YTDI 255 □ FSL Ф25.9 KRUZ 255 □ FSL Ф26.0 YTDI 260 □ FSL Ф26.4 KRUZ 260 □ FSL Ф26.9 KRUZ 265 □ FSL Ф27.0 YTDI 270 □ FSL Ф27.0 YTDI 270 □ FSL Ф27.5 YTDI 275 □ FSL Ф27.5 YTDI 275 □ FSL Ф27.5 YTDI 275 □ FSL Ф27.6 KRUZ 275 □ FSL Ф28.0 YTDI 280 □ FSL Ф28.0 KRUZ 285 □ FSL Ф28.0 KRUZ 285 □ FSL Ф28.0 YTDI 280 □ FSL Ф28.0 KRUZ 275 □ FSL Ф28.0 KRUZ 285 □ FSL Ф28.0 KRUZ 275 □ FSL Ф28.0 KRUZ 285 □ FSL Ф28.0 KRUZ 285 □ FSL Ф28.0 KRUZ 285 □ FSL Ф28.0 KRUZ 275 □ FSL Ф28.0 KRUZ 285 □ FSL Ф28.0 KRUZ 285 □ FSL Ф28.0 KRUZ 285 □ FSL Ф28.0 KRUZ 275 □ FSL Ф28.0 KRUZ 275 □ FSL Ф28.0 KRUZ 280 □ FSL Ф28.0 KRUZ 285 □ FSL Ф28.0 KRUZ 280 □ FSL Ф29.0 KRUZ 297 □ M	~Ф25.4	KRUZ 250 LJ FSL							ID 250, ID 251, ID 252, ID 253, ID 254				
Ф25.5 YTDI 255 □ FSL Ф25.9 KRUZ 255 □ FSL Ф26.0 YTDI 260 □ FSL Ф26.4 KRUZ 260 □ FSL Ф26.5 YTDI 265 □ FSL Ф26.5 YTDI 265 □ FSL Ф27.0 YTDI 270 □ FSL Ф27.5 YTDI 275 □ FSL Ф27.5 YTDI 275 □ FSL Ф27.6 KRUZ 270 □ FSL Ф27.6 KRUZ 270 □ FSL Ф27.6 YTDI 275 □ FSL Ф27.7 KRUZ 275 □ FSL Ф27.8 KRUZ 275 □ FSL Ф28.0 YTDI 280 □ FSL Ф28.0 YTDI 280 □ FSL Ф28.0 KRUZ 280 □ FSL Ф28.4 KRUZ 280 □ FSL Ф28.4 KRUZ 280 □ FSL Ф28.4 KRUZ 280 □ FSL Ф28.6 KRUZ 280 □ FSL Ф29.6 KRUZ 297 Ф2						_			IDD 255 IDD 256 IDD 257 IDD 259 IDD	250			
- Φ25.9 KRUZ 255 □ FSL	Ф 25.5	YTDI 255 □ FSL		P(5xD)	239	179	153						
Ф26.0 YTDI 260 □ FSL ~ Ф26.4 KRUZ 260 □ FSL ~ Ф26.5 YTDI 265 □ FSL ~ Ф26.9 KRUZ 260 □ FSL ~ Ф27.4 KRUZ 270 □ FSL ~ Ф27.4 KRUZ 270 □ FSL ~ Ф27.5 YTDI 275 □ FSL ~ Ф27.9 KRUZ 275 □ FSL ~ Ф27.5 YTDI 275 □ FSL ~ Ф28.4 KRUZ 280 □ FS	~Ф 25.9	KRUZ 255 □ FSL		$\overline{}$	_	_	_						
◆26.0				-							T15		
Application	Ф26.0	YTDI 260 □ FSL					_				1		
L(10xD) 372 312 286 T(3xD) 193 133 106 T(3xD) 193 133 106 P(5xD) 246 186 159 H(7xD) 299 239 212 L(10xD) 379 319 292 L(10xD) 379 319 292 L(10xD) 379 319 292 L(10xD) 384 324 297 L(10xD) 384 324 297 T(3xD) 197 137 110 P(5xD) 252 192 165 H(7xD) 307 247 220 L(10xD) 390 330 303 T(3xD) 200 140 112 P(5xD) 256 196 168 H(7xD) 312 252 224 ID 280 ID 281, ID 282, ID 283, ID 284 ID 283 ID 284 ID 280 ID 281, ID 282, ID 283, ID 284 ID 283 ID 284 ID 280 ID 281, ID 282, ID 283, ID 284 ID 280 ID 281, ID 282, ID 283, ID 284 ID 280 ID 281, ID 282, ID 283, ID 284 ID 282, ID 284, ID	~Ф26.4		32.0	-	_	_	_	39					
Φ26.5 YTDI 265 □ FSL Φ26.9 KRUZ 265 □ FSL Φ27.0 YTDI 270 □ FSL Φ27.4 KRUZ 270 □ FSL Φ27.5 YTDI 275 □ FSL Φ27.5 YTDI 275 □ FSL Φ27.9 KRUZ 275 □ FSL Φ28.0 YTDI 280 □ FSL Φ28.0 KRUZ 280 □ FSL Φ28.4 KRUZ 280 □ FSL Φ28.4 KRUZ 280 □ FSL Φ28.4 KRUZ 280 □ FSL Φ26.5 YTDI 265 □ FSL F(5xD) 193 133 106 P(5xD) 246 186 159 H(7xD) 379 319 292 T(3xD) 195 135 108 P(5xD) 249 189 162 H(7xD) 303 243 216 L(10xD) 384 324 297 T(3xD) 197 137 110 P(5xD) 252 192 165 H(7xD) 307 247 220 L(10xD) 390 330 303 T(3xD) 200 140 112 P(5xD) 256 196 168 H(7xD) 312 252 224 DDP 266, IDP 266, IDP 268, IDP 269 IDF 265, IDF 266, IDF 268, IDF 269 IDF 270, IDF 271, IDF 272, IDF 273, IDF 274 IDF 270, IDF 271, IDF 272, IDF 273, IDF 274 IDF 270, IDF 271, IDF 272, IDF 273, IDF 274 IDF 275, IDF 276, IDF 277, IDF 278, IDF 279 IDF 275, IDF 276, IDF 277, IDF 278, IDF 279 IDF 275, IDF 276, IDF 277, IDF 278, IDF 279 IDF 280, IDF 281, IDF 282, IDF 283, IDF 284 CS 280 -295 SL	+ 2011	KNOL 200 L 132				_	286		ID 260, ID 261, ID 262, ID 263, ID 264		1		
Φ26.9 KRUZ 265 □ FSL H(7xD) 299 239 212 L(10xD) 379 319 292 T(3xD) 195 135 108 P(5xD) 249 189 162 H(7xD) 303 243 216 L(10xD) 384 324 297 IDF 265, IDF 266, IDF 267, IDF 268, IDF 269 ID 265, ID 266, ID 267, ID 268, ID 269 CS 260 CS 250 Φ27.4 KRUZ 270 □ FSL H(7xD) 303 243 216 L(10xD) 384 324 297 H(7xD) 303 243 216 L(10xD) 384 324 297 IDF 270, IDF 271, IDF 272, IDF 273, IDF 274 IDF 270, ID 271, ID 272, ID 273, ID 274 IDF 275, IDF 276, IDF 277, IDF 278, IDF 279 IDF 275, IDF 276, IDF 277, IDF 278, IDF 279 IDF 275, IDF 276, ID 277, ID 278, IDF 279 IDF 275, IDF 276, ID 277, ID 278, IDF 279 IDF 275, IDF 276, IDF 277, IDF 278, IDF 279 IDF 275, IDF 276, IDF 277, IDF 278, IDF 279 IDF 275, IDF 276, IDF 281, IDF 282, IDF 284 IDF 280, IDF 281, IDF 282, IDF 283, IDF 284 IDF 280, IDF 281, IDF 2	Φ26 E	VTDI 265 🗆 FCI		-		_	_		IDP 265, IDP 266, IDP 267, IDP 268, IDP	269	1-20 (7		
L(10xD) 379 319 292 T(3xD) 195 135 108 P(5xD) 249 189 162 H(7xD) 303 243 216 L(10xD) 384 324 297 T(3xD) 197 137 110 P(5xD) 252 192 165 H(7xD) 307 247 220 L(10xD) 390 330 303 T(3xD) 200 140 112 P(5xD) 256 196 168 P(5xD) 256 196 168 H(7xD) 312 252 224 D 266, ID 267, ID 268, ID 269 L(10xD, 10 271, IDP 273, IDP 274, IDP 273, IDP 274 IDP 270, IDP 271, IDP 272, IDP 273, IDP 274 IDP 270, IDP 271, IDP 273, IDP 274 IDP 270, IDP 271, IDP 273, IDP 274 IDP 270, IDP 271, IDP 273, IDP 274 IDP 275, IDP 276, IDP 277, IDP 278, IDP 279 IDP 275, IDP 276, IDP 277, IDP 278, IDP 279 IDP 275, IDP 276, IDP 277, IDP 278, IDP 279 IDP 275, IDP 276, IDP 277, IDP 278, IDP 279 IDP 275, IDP 276, IDP 277, IDP 278, IDP 279 IDP 275, IDP 276, IDP 271, IDP 278, IDP 279 IDP 275, IDP 276, IDP 277, IDP 278, IDP 279 IDP 275, IDP 276, IDP 277, IDP 278, IDP 279 IDP 275, IDP 276, IDP 271, IDP 278, IDP 279 IDP 275, IDP 276, IDP 277, IDP 278, IDP 279 IDP 275, IDP 276, IDP 277, IDP 278, IDP 279 IDP 275, IDP 276, IDP 277, IDP 278, IDP 279 IDP 275, IDP 276, IDP 277, IDP 278, IDP 279 IDP 275, IDP 276, IDP 277, IDP 278, IDP 279 IDP 275, IDP 276, IDP 271, IDP 278, IDP 279 IDP 275, IDP 276, IDP 277, IDP 278, IDP 279 IDP 275, IDP 276, IDP 277, IDP 278, IDP 279 IDP 275, IDP 276, IDP 271, IDP 272, IDP 273, IDP 274 IDP 275, IDP 276, IDP 277, IDP 278, IDP 279 IDP 275, IDP 276, IDP 277, IDP 278, IDP 279 IDP 275, IDP 276, IDP 271, IDP 272, IDP 273, IDP 274 IDP 275, IDP 276, IDP 277, IDP 278, IDP 279 IDP 275, IDP 276, IDP 277, IDP 278, IDP 279 IDP 275, IDP 276, IDP 271, IDP 272, IDP 273, IDP 274 IDP 275, IDP 276, IDP 277, IDP 278, IDP 278 IDP 275, IDP 276, IDP 277, IDP 278, IDP 278 IDP 276, IDP 276, IDP 277, IDP 278, IDP 278 IDP 276, IDP 276, IDP 277, IDP 278, IDP 278 IDP 276, IDP 276, IDP 277, IDP 278, I									IDF 265, IDF 266, IDF 267, IDF 268, IDF 2	269			
Φ27.0 YTDI 270 □ FSL	~Ф26.9	KRUZ 265 ∐ FSL							ID 265, ID 266, ID 267, ID 268, ID 269	CS 260			
Φ27.0 YTDI 270 □ FSL Φ27.4 KRUZ 270 □ FSL Φ27.5 YTDI 275 □ FSL Φ27.9 KRUZ 275 □ FSL Φ28.0 YTDI 280 □ FSL Φ28.4 KRUZ 280 □ FSL Φ28.4 KRUZ 280 □ FSL Φ27.5 YTDI 280 □ FSL Φ28.4 KRUZ 280 □ FSL Φ28.4 KRUZ 280 □ FSL Φ28.4 KRUZ 280 □ FSL Φ28.6 KRUZ 280 □ FSL Φ28.7 YTDI 280 □ FSL Φ28.6 KRUZ 280 □ FSL Φ28.7 YTDI 280 □ FSL Φ28.7 YTDI 280 □ FSL Φ28.8 KRUZ 280 □ FSL Φ28.9 YTDI 280 □ FSL Φ28.0 YTDI 280 □ FSL Φ28.0 YTDI 280 □ FSL Φ28.0 KRUZ 280 □ FSL Φ28.0 YTDI 280 □ FSL Φ28.0 KRUZ 280 □ FSL Φ28.1 KRUZ 280 □ FSL Φ28.2 YTDI 280 □ FSL Φ28.3 KRUZ 280 □ FSL Φ28.4 KRUZ 280 □ FSL Φ28.4 KRUZ 280 □ FSL Φ28.5 YTDI 280 □ FSL Φ28.6 KRUZ 280 □ FSL Φ28.7 YTDI 280 □ FSL Φ28.8 KRUZ 280 □ FSL Φ28.9 YTDI 280 □ FSL Φ28.9 YTDI 280 □ FSL Φ28.0 YTDI 280 □ FSL Φ28.1 YTDI 280 □ FSL Φ28.1 YTDI 280 □ FSL Φ29.1 YTDI 280 □ FSL Φ29.1 YTDI 280 □ FSL Φ29.1 YTDI 280 □ FSL Φ29.2 YTDI 275, IDP				-	_	_			IDD 270 IDD 271 IDD 272 IDD 272 IDD	275 SI			
-Φ27.4 KRUZ 270 □ FSL	Ф 27.0	YTDI 270 □ FSL		P(5xD)		_	162						
Φ27.5 YTDI 275 □ FSL Φ27.9 KRUZ 275 □ FSL Φ28.0 YTDI 280 □ FSL ~Φ28.4 KRUZ 280 □ FSL ~Φ28.5 YTDI 280 □ FSL ~Φ28.6 KRUZ 280 □ FSL ~Φ28.7 KRUZ 280 □ FSL ~Φ28.7 KRUZ 280 □ FSL ~Φ28.8 KRUZ 280 □ FSL ~Φ28.9 KRUZ 280 □ FSL	~Ф27.4	KRUZ 270 □ FSL											
Φ27.5 YTDI 275 □ FSL Φ27.9 KRUZ 275 □ FSL Φ28.0 YTDI 280 □ FSL Φ28.4 KRUZ 280 □ FSL Φ28.5 YTDI 275 □ FSL P(5xD) 252 □ 192 □ 165 □ H(7xD) 307 247 220 □ L(10xD) 390 330 303 □ T(3xD) 200 □ 140 □ 112 □ P(5xD) 256 □ 196 □ 168 □ H(7xD) 312 252 224 □ P(5xD) 256 □ 196 □ 168 □ H(7xD) 312 252 224 □ P(5xD) 256 □ 196 □ 168 □ H(7xD) 312 252 224 □ P(5xD) 256 □ 196 □ 168 □ H(7xD) 312 252 224 □ P(5xD) 256 □ 196 □ 168 □ H(7xD) 312 252 224 □ P(5xD) 256 □ 196 □ 168 □ FSL □									10 210, 10 211, 10 212, 10 213, 10 214				
-Φ27.9 KRUZ 275 □ FSL Φ28.0 YTDI 280 □ FSL -Φ28.4 KRUZ 280 □ FSL -Φ28.4 KRUZ 280 □ FSL -Φ28.4 KRUZ 280 □ FSL -Φ28.5 KRUZ 280 □ FSL -Φ28.6 KRUZ 280 □ FSL -Φ28.7 KRUZ 280 □ FSL -Φ28.6 KRUZ 280 □ FSL -Φ28.7 KRUZ 280 □ FSL -Φ28.7 KRUZ 280 □ FSL -Φ28.8 KRUZ 280 □ FSL -Φ28.9 KRUZ 280 □ FSL -Φ28.9 KRUZ 280 □ FSL -Φ28.0 KRUZ 280 □ FSL	Ф27.5	YTDI 275 □ FSI											
L(10xD) 390 330 303 T(3xD) 200 140 112 P(5xD) 256 196 168 H(7xD) 312 252 224 L(10xD) 390 330 303 T(3xD) 200 140 112 P(5xD) 256 196 168 H(7xD) 312 252 224 L(10xD) 390 390 390 390 390 390 390 390 390 390				$\overline{}$		_						M4x8	2.0m
Φ28.0 YTDI 280 □ FSL P(5xD) 256 196 168 -Φ28.4 KRUZ 280 □ FSL H(7xD) 312 252 224 H(7xD) 312 252 224 H(7xD) 312 252 224 H(7xD) 312 252 224 H(7xD) 312 252 224 H(7xD) 312 252 224 H(7xD) 312 252 224 H(7xD) 312 252 224 H(7xD) 312 252 252 252 H(7xD) 312 H(7xD) 312 252 H(7xD) 312 H(7	· 421.3	KNUZ Z/J 🗆 F3L		-		_			ID 275, ID 276, ID 277, ID 278, ID 279	•			
Φ28.0 YTDI 280 ☐ FSL P(5xD) 256 196 168 P(5xD) 256 196 168 P(5xD) 312 252 224 P(5xD) 256 P(5xD) 312 252 224 P(5xD) 256 P	420.0								IDP 280, IDP 281, IDP 282, IDP 283, IDP	284	1		
~ \$\Phi 28.4 \ KRUZ 280 \ FSL \ \ \ \ \ \ \ \ \ \ \ \ \	Φ28.0	YTDI 280 □ FSL					_			CS 280			
	~Ф28.4	KRUZ 280 □ FSL		-	_	_	_			-295 SL			

KRUZ-FSL、YTDI-FSL型法兰刀体与硬质合金钻尖

孔径 范围	刀体型号	刀柄尺寸 (Φd)	切削深度 (倍×孔径)	L1	L2	L3	法兰直径 (ΦFd)	适合刀体的刀片型号 PIDP IIDP IIDF IIDF		梅花型螺批	定位螺钉	"1"型内六角扳手
420 F	VTDI 20E □ ECI		T(3xD)	202	142	114		IDP 285, IDP 286, IDP 287, IDP 288, IDP 289)			
Ф28.5	YTDI 285 🗆 FSL		P(5xD)	259	199	171	-	IDF 285, IDF 286, IDF 287, IDF 288, IDF 289				
~Ф28.9	KRUZ 285 □ FSL		H(7xD) L(10xD)	316	256 342	228 314		ID 285, ID 286, ID 287, ID 288, ID 289				
			T(3xD)	205	145	116		IDD 200 IDD 201 IDD 202 IDD 202		T15		
Ф29.0	YTDI 290 □ FSL		P(5xD)	263	203	174	-	IDP 290, IDP 291, IDP 292, IDP 293, IDP 294	CC 280	±π/rc		
~Ф29.4	KRUZ 290 □ FSL		H(7xD)	321	261	232		IDF 290, IDF 291, IDF 292, IDF 293, IDF 294	-295 SL	扭矩 3.5Nm		
			L(10xD)		348	319		ID 290, ID 291, ID 292, ID 293, ID 294		(最大)		
Ф29.5	YTDI 295 □ FSL		T(3xD)	207	147	118	-	IDP 295, IDP 296, IDP 297, IDP 298, IDP 299	<u> </u>			
			P(5xD) H(7xD)	266 325	206	177 236		IDF 295, IDF 296, IDF 297, IDF 298, IDF 299			M4x8	2.0mm
~Ф29.9	KRUZ 295 □ FSL		L(10xD)			325		ID 295, ID 296, ID 297, ID 298, ID 299				
			T(3xD)	209	149	120		IDP 300, IDP 301, IDP 302, IDP 303, IDP 304			1	
Ф30.0	YTDI 300 □ FSL		P(5xD)	269	209	180		IDF 300, IDF 301, IDF 302, IDF 303, IDF 304				
~Ф30.4	KRUZ 300 □ FSL		H(7xD)	329	269	240		ID 300, ID 301, ID 302, ID 303, ID 304				
			L(10xD)		359	330		10 300, 10 301, 10 302, 10 303, 10 304	_			
Ф30.5	YTDI 305 □ FSL		T(3xD)	212	152	122		IDP 305, IDP 306, IDP 307, IDP 308, IDP 309	•			
			P(5xD) H(7xD)	273 334	213	183 244	_	IDF 305, IDF 306, IDF 307, IDF 308, IDF 309				
~Ф30.9	KRUZ 305 □ FSL		L(10xD)		366	336		ID 305, ID 306, ID 307, ID 308, ID 309	CS 300			
			T(3xD)		154	124		IDP 310, IDP 311, IDP 312, IDP 313, IDP 314	-315 SI			
Ф31.0	YTDI 310 □ FSL	32.0	P(5xD)	276	216	186	39	IDF 310, IDF 311, IDF 312, IDF 313, IDF 314				
~Ф31.4	KRUZ 310 □ FSL	32.0		338	278	248		ID 310, ID 311, ID 312, ID 313, ID 314				
			L(10xD)		371	341		10 310, 10 311, 10 312, 10 313, 10 314	-			
Ф31.5	YTDI 315 □ FSL		T(3xD) P(5xD)	217 280	157 220	126 189	_	IDP 315, IDP 316, IDP 317, IDP 318, IDP 319	<u> </u>			
	KRUZ 315 □ FSL		H(7xD)	343	283	252	-	IDF 315, IDF 316, IDF 317, IDF 318, IDF 319				
~Ф31.9	KROZ 3 I3 🗆 F3L		L(10xD)		378	347	-	ID 315, ID 316, ID 317, ID 318, ID 319				
			T(3xD)	219	159	128		IDP 320, IDP 321, IDP 322, IDP 323, IDP 324				
Ф32.0	YTDI 320 □ FSL		P(5xD)	283	223	192		IDF 320, IDF 321, IDF 322, IDF 323, IDF 324				
~Ф32.4	KRUZ 320 □ FSL		H(7xD)	347	287	256	-	ID 320, ID 321, ID 322, ID 323, ID 324				
			L(10xD) T(3xD)	221	383 161	352 130			-			
Ф32.5	YTDI 325 □ FSL		P(5xD)	286	226	195	-	IDP 325, IDP 326, IDP 327, IDP 328, IDP 329				
~Ф32.9	KRUZ 325 □ FSL		H(7xD)	351	291	260	-	IDF 325, IDF 326, IDF 327, IDF 328, IDF 329				
452.5	KROE SES ET SE		L(10xD)	449	389	358		ID 325, ID 326, ID 327, ID 328, ID 329		T20		
\$33.0	VTD1 220 El FC1		T(3xD)	224	164	132		IDP 330, IDP 331, IDP 332, IDP 333, IDP 334		T20		
Ф33.0	YTDI 330 □ FSL		P(5xD)	290	230	198		IDF 330, IDF 331, IDF 332, IDF 333, IDF 334		扭矩		
~Ф33.4	KRUZ 330 □ FSL		H(7xD) L(10xD)			363		ID 330, ID 331, ID 332, ID 333, ID 334		5.0Nm		
		-	T(3xD)	226		134			-	(最大)		
Ф33.5	YTDI 335 □ FSL		P(5xD)	293	233	201	-	IDP 335, IDP 336, IDP 337, IDP 338, IDP 339				
~Ф33.9	KRUZ 335 □ FSL		H(7xD)	360	300	268		IDF 335, IDF 336, IDF 337, IDF 338, IDF 339			M5x10	2.5mm
			L(10xD)	461	401	369		ID 335, ID 336, ID 337, ID 338, ID 339	CS 320			
Ф34.0	YTDI 340 □ FSL		T(3xD)	239	169	136		IDP 340, IDP 341, IDP 342, IDP 343, IDP 344	-355 SL			
			P(5xD) H(7xD)	307	305	204 272		IDF 340, IDF 341, IDF 342, IDF 343, IDF 344				
~Ф34.4	KRUZ 340 □ FSL		L(10xD)		407	374		ID 340, ID 341, ID 342, ID 343, ID 344				
			T(3xD)	241	171	138		IDP 345, IDP 346, IDP 347, IDP 348, IDP 349				
Ф34.5	YTDI 345 ☐ FSL		P(5xD)	310	240	207		IDF 345, IDF 346, IDF 347, IDF 348, IDF 349				
~Ф34.9	KRUZ 345 □ FSL		H(7xD)		309	276		ID 345, ID 346, ID 347, ID 348, ID 349				
			L(10xD)		413	380		10 343, 10 340, 10 347, 10 346, 10 343				
Ф35.0	YTDI 350 □ FSL		T(3xD) P(5xD)	243 313	173 243	140 210		IDP 350, IDP 351, IDP 352, IDP 353, IDP 354				
		40.0	H(7xD)		313	280	55	IDF 350, IDF 351, IDF 352, IDF 353, IDF 354				
~Ф35.4	KRUZ 350 □ FSL		L(10xD)		418	385		ID 350, ID 351, ID 352, ID 353, ID 354				
			T(3xD)	246	176	142		IDP 355, IDP 356, IDP 357, IDP 358, IDP 359				
Ф35.5	YTDI 355 □ FSL		P(5xD)	317	247	213		IDF 355, IDF 356, IDF 357, IDF 358, IDF 359				
~Ф35.9	KRUZ 355 □ FSL		H(7xD)	388	318	284		ID 355, ID 356, ID 357, ID 358, ID 359				
		-	L(10xD)		178	391 144				-		
Ф36.0	YTDI 360 □ FSL		T(3xD) P(5xD)	320	178 250	216		IDP 360, IDP 361, IDP 362, IDP 363, IDP 364	CS 360			
~Ф36.4	KRUZ 360 □ FSL		H(7xD)	_		288		IDF 360, IDF 361, IDF 362, IDF 363, IDF 364	-395 SL			
\$30.4	KNOZ JOU LI F3L		L(10xD)				1	ID 360, ID 361, ID 362, ID 363, ID 364				

0-36.5 YTDI 365 FSL T1620 251 818 146	孔径 范围	刀体型号	刀柄尺寸 (Φd)	切削深度 (倍 x 孔径)	L1	L2	L3	法兰直径 (ΦFd)	适合刀体的刀片型号	IDP IDF ID	锁紧螺栓	梅花型螺批	定位螺钉	"L"型内六角扳手
93.65 YID J 95 L PSL						181	146		IDP 365, IDP 366, IDP					*
	Ф36.5	YTDI 365 □ FSL		P(5xD)	324	254	219							
0-37.0	~Ф36.9	KRUZ 365 □ FSL	,											
9-37.6 YTDI 370 FSL									. או ,ספר עו ,ספר עו	307, ID 300, ID 309				
	Φ27.0	VTDI 370 □ FSI							IDP 370, IDP 371, IDP	372, IDP 373, IDP 374				
10 370, 10 371, 10 372, 10 373, 10 374, 10 372, 10 374, 10 375, 10 376, 10 376, 10 377, 10 372, 10 379, 10 376, 10 376, 10 377, 10 372, 10 379, 10 379, 10 379, 10 376, 10 376, 10 376, 10 377, 10 378, 10 379, 10 379, 10 378, 10 378, 10 379, 10 378, 10 379, 10 378, 10 3				· ·					IDF 370, IDF 371, IDF	372, IDF 373, IDF 374				
0-37.5 YTDI 375 FSL FSL FSC F	~Ф37.4	KKUZ 3/0 🗆 FSL							ID 370, ID 371, ID 3	372, ID 373, ID 374				
				$\overline{}$					IDD 275 IDD 276 IDD	277 IDD 270 IDD 270	-			
-037.9 KRUZ 375 FSL H(ZND) 405 335 535 448 413 1(300) 538 448 413 1(300) 528 188 152 1(300) 538 448 413 1(300) 526 656 539 1(300) 534 444 418 1(300) 524 422 428 418 1(300) 524 428 418 1(300) 524 428 418 1(300) 524 428 418 1(300) 524 428 418 1(300) 524 428 418 1(300) 524 428 418 1(300) 524 428 418 1(300) 524 428 418 1(300) 524 428 418 1(300) 524 428 418 1(300) 524 428 418 1(300) 524 428 418 1(300) 524 428 418 1(300) 524 428 418 1(300) 524 428 418 1(300) 524 428 418 1(300) 524 428 418 1(300) 526 466 429 1(300) 524 422 435 1(300) 524 424 435 1(300) 524 428 418 1(Ф37.5	YTDI 375 ☐ FSL					_							
0-38.0 TOL 380 FSL C10000 558 448 413	~⊕37 9	KRUZ 375 □ FSL		$\overline{}$				1						
	437.3			L(10xD)	518	448	413		ID 375, ID 376, ID 3	377, ID 378, ID 379				
		\/		T(3xD)	258	188	152		IDP 380, IDP 381, IDP	382, IDP 383, IDP 384				
	Ф38.0	YTDI 380 ∐ FSL											M5x10	2 5mm
	~Ф38.4	KRUZ 380 □ FSL									-395 SL		IVISATO	2.311111
0-38.9 YTDI 385 FSL H(70.0) 141 444 344 368 1(10.00) 530 460 424 1(70.00) 141 344 341			-						10 300, 10 301, 10 .	J02, 1D J03, 1D J04				
0-38.9 KRUZ 385 FSL FIL F	Ф38 5	VTDI 385 □ FSI		<u> </u>	_				IDP 385, IDP 386, IDP	387, IDP 388, IDP 389				
1.0 1.0									IDF 385, IDF 386, IDF	387, IDF 388, IDF 389				
● 93.0 YTDI 390 FSL ● 75.0 341 271 234 172 124 172 172 124 172 124 172 172 124 172 172 124 172 172 124 172 172 124 172 17	~Ф38.9	KKUZ 385 🗆 FSL			_				ID 385, ID 386, ID 3	387, ID 388, ID 389				
●39.0 YTDI 390 FSL P (5.KD) 341 271 234 H(7.KD) 419 349 312 349 349 312 349 312 349 312 349 312 349 312 349									IDD 200 IDD 204 IDD	202 IDD 202 IDD 204				
	Ф39.0	YTDI 390 □ FSL								· ·				
039.5	~⊕39. 4	KRUZ 390 □ FSL			_					•				
中の	733.1			L(10xD)	536	466	429]	ID 390, ID 391, ID 3	392, ID 393, ID 394				
DF 395, IDF 396, IDF 397, IDF 398, IDF 399 DF 395, IDF 398, IDF 399 DF 400, IDF 401, IDF 402, IDF 403, IDF 404 DF 400, IDF 401, IDF 402, IDF 403, IDF 404 DF 400, IDF 401, IDF 402, IDF 403, IDF 404 DF 400, IDF 401, IDF 402, IDF 403, IDF 404 DF 400, IDF 401, IDF 402, IDF 403, IDF 404 DF 400, IDF 401, IDF 402, IDF 403, IDF 404 DF 400, IDF 401, IDF 402, IDF 403, IDF 404 DF 400, IDF 401, IDF 402, IDF 403, IDF 404 DF 405, IDF 406, IDF 407, IDF 408, IDF 409 DF 410, IDF 411, IDF 411, IDF 4112, IDF 413, IDF 414 IDF 410, IDF 411, IDF 4112, IDF 413, IDF 414 IDF 410, IDF 411, IDF 4112, IDF 413, IDF 414 IDF 410, IDF 411, IDF 412, IDF 413, IDF 414 IDF 410, IDF 411, IDF 412, IDF 413, IDF 414 IDF 410, IDF 417, IDF 418, IDF 419 DF 415, IDF 416, IDF 417, IDF 418, IDF 419 DF 415, I				T(3xD)	265	195	158		IDP 395, IDP 396, IDP	397. IDP 398. IDP 399				
-0-39.9 KRUZ 395 □ FSL	Ф39.5	YTDI 395 □ FSL		P(5xD)	_		237							
Φ40.0 YTDI 400 FSL -Φ40.4 KRUZ 400 FSL -Φ40.5 YTDI 405 FSL -Φ40.9 KRUZ 405 FSL -Φ41.0 YTDI 410 FSL -Φ41.1 YTDI 410 FSL -Φ41.2 YTDI 415 FSL -Φ41.9 KRUZ 415 FSL -Φ42.0 YTDI 420 FSL -Φ42.0 YTDI 420 FSL -Φ42.4 KRUZ 420 FSL -Φ42.5 YTDI 425 FSL -Φ43.5 YTDI 425 FSL -Φ43.5 YTDI 435 FSL -Φ43.5 YTDI 435 FSL -Φ43.5 YTDI 435 FSL -Φ43.6 YTDI 430 FSL -Φ43.5 YTDI 435 FSL -Φ43.6 YTDI 430 FSL -Φ43.6 YTDI 430 FSL -Φ43.7 YTDI 430 FSL -Φ43.8 XRUZ 430 FSL -Φ43.8 XRUZ 430 FSL -Φ44.4 KRUZ 440 FSL -Φ44.6 KRUZ 440 FSL -Φ44.4 KRUZ 440 FSL -Φ44.4 KRUZ 440 FSL -Φ44.4 KRUZ 440 FSL -Φ44.4 KRUZ 440 FSL -Φ44.6 KRUZ 440	~Ф39.9	KRUZ 395 □ FSL		<u> </u>										
中央40.0 YTDI 400 FSL									10 333, 10 330, 10 .	337, 10 330, 10 333				
- Φ40.4 KRUZ 400 □ FSL	Φ40.0	VTDI 400 □ FSI		<u> </u>	_				IDP 400, IDP 401, IDP	402, IDP 403, IDP 404				
040.5									IDF 400, IDF 401, IDF	402, IDF 403, IDF 404		T20		
040.5	~Ф40.4	KRUZ 400 🗆 FSL						<u> </u>	ID 400, ID 401, ID 4	402, ID 403, ID 404		_		
中の			40.0					55	IDD 405 IDD 406 IDD	407 IDD 400 IDD 400				
H(7xD) 432 362 324 L(10xD) 554 484 446 T(3xD) 272 202 164 P(5xD) 354 284 246 H(7xD) 436 366 328 L(10xD) 559 489 451 T(3xD) 275 205 166 P(5xD) 358 288 249 H(7xD) 441 371 332 L(10xD) 556 496 457 T(3xD) 277 207 168 P(5xD) 356 288 249 H(7xD) 441 371 332 L(10xD) 566 496 457 T(3xD) 277 207 168 P(5xD) 361 291 252 H(7xD) 444 377 336 L(10xD) 571 501 462 T(3xD) 279 209 170 P(5xD) 364 294 255 H(7xD) 449 379 340 L(10xD) 571 507 468 T(3xD) 279 209 170 P(5xD) 368 288 249 H(7xD) 449 379 340 L(10xD) 571 507 468 T(3xD) 282 212 172 P(5xD) 358 388 348 L(10xD) 571 507 468 T(3xD) 282 212 172 P(5xD) 358 388 348 L(10xD) 571 507 468 T(3xD) 282 212 172 P(5xD) 358 388 348 L(10xD) 571 507 468 H(7xD) 443 373 305 RRUZ 430 FSL P(5xD) 375 305 264 P(5xD) 375	Ф40.5	YTDI 405 ☐ FSL			_		_							
L(10xD) 554 484 446 T(3xD) 272 202 164 P(5xD) 354 284 246 P(5xD) 354 284 246 P(7xD) 436 366 328 L(10xD) 559 489 451 T(3xD) 275 205 166 P(5xD) 365 288 249 P(7xD) 441 371 332 L(10xD) 550 489 451 T(3xD) 275 205 166 P(5xD) 361 291 252 P(5xD) 361 291 252 P(7xD) 445 375 336 L(10xD) 571 501 462 T(3xD) 277 207 168 P(5xD) 361 291 252 P(7xD) 474 377 336 L(10xD) 571 501 462 T(3xD) 277 207 168 P(5xD) 361 291 252 P(7xD) 474 377 336 L(10xD) 571 501 462 T(3xD) 277 207 168 P(5xD) 364 294 255 P(5xD) 364 294 255 P(5xD) 364 294 255 P(7xD) 449 379 340 L(10xD) 577 507 468 T(3xD) 282 212 172 P(5xD) 368 298 258 P(7xD) 474 377 301 284 214 P(7xD) 445 375 368 P(7xD) 458 384 344 L(10xD) 587 507 368 P(7xD) 458 384 344 L(10xD) 587 507 368 P(7xD) 458 384 344 L(10xD) 583 513 473 T(3xD) 284 214 174 P(5xD) 368 298 258 P(7xD) 458 388 348 L(10xD) 583 513 473 T(3xD) 284 214 174 P(5xD) 458 388 348 L(10xD) 583 519 479 T(3xD) 287 217 176 P(5xD) 368 388 348 L(10xD) 589 519 479 T(3xD) 287 217 176 P(5xD) 365 388 348 L(10xD) 589 519 479 T(3xD) 287 217 176 P(5xD) 375 305 264 P(5xD) 375 305 264 P(7xD) 454 383 352 P(7xD) 440 P(7xD) 448 383 348 L(10xD) 589 519 479 T(3xD) 287 217 176 P(5xD) 375 305 264 P(7xD) 458 388 348 L(10xD) 589 519 479 T(3xD) 287 217 176 P(5xD) 375 305 264 P(5xD) 375 3	~Ф40.9	KRUZ 405 □ FSL				362	324	1						
P(5xD) 354 284 246 H(7xD) 436 366 328 L(10xD) 559 489 451 T(3xD) 275 205 166 P(5xD) 358 288 249 H(7xD) 441 371 332 L(10xD) 566 496 457 T(3xD) 277 207 168 P(5xD) 358 288 249 H(7xD) 441 371 332 L(10xD) 566 496 457 T(3xD) 277 207 168 P(5xD) 361 291 252 H(7xD) 445 375 336 L(10xD) 571 501 462 T(3xD) 275 205 166 P(5xD) 364 291 252 H(7xD) 445 375 336 L(10xD) 571 501 462 T(3xD) 279 270 H(7xD) 445 375 336 L(10xD) 571 501 462 T(3xD) 279 270 H(7xD) 449 379 340 L(10xD) 570 507 468 T(3xD) 282 212 H(7xD) 449 379 340 L(10xD) 570 507 468 T(3xD) 282 212 H(7xD) 445 384 H(7xD) 445 375				L(10xD)	554	484	446]	ID 405, ID 406, ID 4	407, ID 408, ID 409				
P(5xD) 354 284 246 H(7xD) 436 366 328 L(10xD) 559 489 451 DF 410, IDF 411, IDF 412, IDF 413, IDF 414 IDF 410, IDF 414, IDF 412, IDF 413, IDF 414 IDF 410, IDF 411, IDF 412, IDF 413, IDF 414 IDF 410, IDF 411, IDF 412, IDF 413, IDF 414 IDF 410, IDF 411, IDF 412, IDF 413, IDF 414 IDF 410, IDF 414, IDF 412, IDF 413, IDF 414 IDF 410, IDF 414, IDF 412, IDF 413, IDF 414 IDF 410, IDF 414, IDF 412, IDF 413, IDF 414 IDF 410, IDF 414, IDF 412, IDF 413, IDF 414 IDF 410, IDF 414, IDF 412, IDF 413, IDF 414 IDF 410, IDF 414, IDF 412, IDF 413, IDF 414 IDF 410, IDF 414, IDF 412, IDF 413,				T(3xD)			164		IDP 410, IDP 411, IDP	412, IDP 413, IDP 414				
C	Φ41.0	YTDI 410 ∐ FSL		-										
Φ41.5 YTDI 415 □ FSL (1(3xD) 275 205 166 P(5xD) 358 288 249 H(7xD) 441 371 332 L(1(0xD) 566 496 457 T(3xD) 275 207 168 P(5xD) 361 291 252 H(7xD) 445 375 336 L(10xD) 571 501 462 T(3xD) 279 209 170 P(5xD) 364 294 255 H(7xD) 449 379 340 L(10xD) 577 507 468 T(3xD) 282 212 172 P(5xD) 368 298 258 H(7xD) 453 383 348 L(10xD) 577 507 468 T(3xD) 284 214 174 P(5xD) 371 301 261 H(7xD) 458 388 348 L(10xD) 589 519 479 T(3xD) 287 217 176 P(5xD) 375 305 264 H(7xD) 458 383 348 L(10xD) 589 519 479 T(3xD) 287 217 176 P(5xD) 375 305 264 H(7xD) 443 393 352 IDP 415, IDP 416, IDP 417, IDP 418, IDP 419 IDF 415, IDF 416, IDF 417, IDF 418, IDF 419 IDF 415, IDF 416, IDF 417, IDF 418, IDF 419 IDF 415, IDF 416, IDF 417, IDF 418, IDF 419 IDF 415, IDF 416, IDF 417, IDF 418, IDF 419 IDF 415, IDF 416, IDF 417, IDF 418, IDF 419 IDF 415, IDF 416, IDF 417, IDF 418, IDF 419 IDF 415, IDF 416, IDF 417, IDF 418, IDF 419 IDF 415, IDF 416, IDF 417, IDF 418, IDF 419 IDF 415, IDF 418, IDF 419 IDF 415, IDF 416, IDF 417, IDF 418, IDF 419 IDF 415, IDF 416, IDF 417, IDF 418, IDF 419 IDF 415, IDF 416, IDF 417, IDF 418, IDF 419 IDF 415, IDF 416, IDF 417, IDF 418, IDF 419 IDF 415, IDF 416, IDF 417, IDF 418, IDF 419 IDF 415, IDF 416, IDF 417, IDF 418, IDF 419 IDF 415, IDF 416, IDF 417, IDF 418, IDF 419 IDF 415, IDF 416, IDF 417, IDF 418, IDF 419 IDF 415, IDF 416, IDF 417, IDF 418, IDF 419 IDF 415, IDF 416, IDF 417, IDF 418, IDF 419 IDF 415, IDF 416, IDF 417, IDF 418, IDF 419 IDF 415, IDF 416, IDF 417, IDF 418, IDF 419 IDF 415, IDF 416, IDF 417, IDF 418, IDF 419 IDF 415, IDF 418, IDF 419 IDF 415, IDF 416, IDF 417, IDF 418, IDF 419 IDF 414, IDF 442, IDF 441, IDF 442, IDF 441, IDF 442, IDF 441, IDF 444, IDF 4	~Ф41.4	KRUZ 410 ☐ FSL					_							
Φ41.5 YTDI 415 □ FSL P(5xD) 358 288 249 H(7xD) 441 371 332 L(10xD) 566 496 457 T(3xD) 277 207 168 P(5xD) 361 291 252 H(7xD) 443 375 336 L(10xD) 566 496 457 1DF 415, ID 416, ID 417, ID 418, ID 419 LO 417, ID 418, ID 429 LO 420, ID 421, ID 422, ID 423, ID 424 LO 420, ID 421, ID 422, ID 423, ID 423, ID 424 LO 420, ID 421, ID 422, ID 423, ID 423, ID 424 LO 420, ID 427, ID 428, ID 429 LO 420, ID 427, ID 428, ID 429 LO 420, ID 428, ID 429, ID 428, ID 429 LO 425, ID 426, ID 427, ID 428, ID 428, ID 429 LO 425, ID 426, ID 427, ID 428, ID 429 LO 425, ID 426, ID 427, ID 428, ID 433, ID 434 LO 420, ID 431, ID 432, ID 433, ID 434 LO 430, ID 431, ID 432, ID 433, ID 434 LO 430, ID 431, ID 432, ID 433, ID 434 LO 430, ID			-							,,				
C C C C C C C C C C	Φ41.5	YTDI 415 □ FSL							IDP 415, IDP 416, IDP	417, IDP 418, IDP 419				
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Φ42.0 YTDI 420 □ FSL T(3xD) 277 207 168 P(5xD) 361 291 252 H(7xD) 445 375 336 L(10xD) 571 501 462 H(7xD) 445 375 336 L(10xD) 571 501 462 H(7xD) 445 375 336 L(10xD) 571 501 462 T(3xD) 279 209 170 H(7xD) 442 IDF 420, IDF 421, IDF 422, IDF 423, IDF 424 LIDF 420, IDF 421, IDF 422, IDF 423, IDF 424 LIDF 420, IDF 421, IDF 422, IDF 423, IDF 424 LIDF 420, IDF 421, IDF 422, IDF 423, IDF 424 LIDF 420, IDF 421, IDF 422, IDF 423, IDF 424 LIDF 420, IDF 421, IDF 422, IDF 423, IDF 424 LIDF 420, IDF 421, IDF 422, IDF 423, IDF 424 LIDF 420, IDF 421, IDF 422, IDF 423, IDF 424 LIDF 420, IDF 421, IDF 422, IDF 423, IDF 424 LIDF 420, IDF 421, IDF 422, IDF 423, IDF 424 LIDF 420, IDF 421, IDF 422, IDF 423, IDF 424 LIDF 420, IDF 421, IDF 422, IDF 423, IDF 424 LIDF 420, IDF 421, IDF 422, IDF 423, IDF 424 LIDF 420, IDF 421, IDF 422, IDF 423, IDF 424 LIDF 420, IDF 421, IDF 421, IDF 422, IDF 423, IDF 424 LIDF 420, IDF 421, IDF 421, IDF 422, IDF 423, IDF 424 LIDF 420, IDF 421, IDF 421, IDF 422, IDF 423, IDF 424 LIDF 420, IDF 421, IDF 421, IDF 421, IDF 421, IDF 422, I	~Ψ41.9	KKUZ 413 🗆 F3L		$\overline{}$	_		_	1	ID 415, ID 416, ID 4	417, ID 418, ID 419				
Φ42.0 YTDI 420 □ FSL P(5xD) 361 291 252 IDF 420, IDF 422, IDF 423, IDF 423, IDF 424 CS 400 445 SL Φ42.4 KRUZ 420 □ FSL H(7xD) 445 375 336 L(10xD) 571 501 462 IDF 420, IDF 421, IDF 422, IDF 423, IDF 424 CS 400 445 SL Φ42.5 YTDI 425 □ FSL T(3xD) 279 209 170 P(5xD) 364 294 255 H(7xD) 449 379 340 L(10xD) 577 507 468 H(7xD) 449 379 340 L(10xD) 577 507 468 IDF 426, IDF 426, IDF 427, IDF 428, IDF 429 IDF 428, IDF 429 IDF 425, IDF 426, IDF 427, IDF 428, IDF 429 IDF 425, IDF 426, IDF 427, IDF 428, IDF 429 IDF 425, IDF 426, IDF 427, IDF 428, IDF 429 IDF 425, IDF 426, IDF 427, IDF 428, IDF 429 IDF 425, IDF 426, IDF 427, IDF 428, IDF 429 IDF 425, IDF 426, IDF 427, IDF 428, IDF 429 IDF 425, IDF 426, IDF 427, IDF 428, IDF 429 IDF 425, IDF 426, IDF 427, IDF 428, IDF 429 IDF 425, IDF 426, IDF 427, IDF 428, IDF 429 IDF 425, IDF 426, IDF 427, IDF 428, IDF 429 IDF 427, IDF 428, IDF 429 IDF 428, IDF 429 IDF 425, IDF 426, IDF 427, IDF 428, IDF 429 IDF 425, IDF 426, IDF 427, IDF 428, IDF 429 IDF 428, IDF 429 IDF 425, IDF 430, IDF 431, IDF 432, IDF 434 ID 430, IDF 431, IDF 432, IDF 434 ID 430, IDF 431, IDF 432, IDF 433, IDF 434 ID 430, IDF 431, IDF 432, IDF 433, IDF 434 IDF 444 IDF 440, IDF 441, IDF 442, IDF 443, IDF 444 IDF 440, IDF 441, IDF 442, IDF 443, IDF 444 IDF 442, IDF 443, IDF 444 IDF 442, IDF 443, IDF 444 IDF 444, IDF 444, IDF 442, IDF 443, IDF 444 IDF 442, IDF 443, IDF 444 IDF 444, ID								1	IDP 420 IDP 421 IDP	422 IDP 423 IDP 424	1			
Φ42.4 KRUZ 420 □ FSL H(XD) 445 375 336 L(10xD) 571 501 462 T(3xD) 279 209 170 P(5xD) 364 294 255 H(7xD) 449 379 340 L(10xD) 577 507 468 T(3xD) 282 212 172 P(5xD) 368 298 258 H(7xD) 454 384 344 L(10xD) 583 513 473 ID 420, ID 421, ID 422, ID 423, ID 424 1445 SL Φ43.0 YTDI 430 □ FSL Φ43.4 H(7xD) 449 379 340 L(10xD) 577 507 468 T(3xD) 282 212 172 P(5xD) 368 298 258 H(7xD) 454 384 344 L(10xD) 583 513 473 IDP 430, IDP 431, IDP 432, IDP 438, IDP 439 IDP 430, IDF 431, IDF 432, IDF 433, IDF 434 ID 430, ID 431, ID 432, ID 433, ID 434 Φ43.5 YTDI 435 □ FSL Φ43.9 T(3xD) 284 214 174 P(5xD) 371 301 261 H(7xD) 458 388 348 L(10xD) 589 519 479 IDP 435, IDP 436, IDP 437, IDP 438, IDP 439 ID 435, ID 436, ID 437, ID 438, ID 439 Φ44.0 YTDI 440 □ FSL Φ44.4 YTDI 440 □ FSL P(5xD) 375 305 264 H(7xD) 463 393 352 IDP 440, IDP 441, IDP 442, IDP 443, IDP 444 IDF 440, IDF 441, IDF 442, IDF 443, IDF 444	Ф42.0	YTDI 420 ☐ FSL		P(5xD)	361	291	252			•	CS 400		M6v12	3 0mm
Φ42.5 YTDI 425 □ FSL CT(3xD) 279 209 170 P(5xD) 364 294 255 FFSL H(7xD) 449 379 340 IDP 425, IDP 426, IDP 427, IDP 428, IDP 429 IDF 425, IDF 426, IDF 427, IDF 428, IDF 429 IDF 425, IDF 426, IDF 427, IDF 428, IDF 429 IDF 425, IDF 426, IDF 427, IDF 428, IDF 429 IDF 425, IDF 426, IDF 427, IDF 428, IDF 429 IDF 425, IDF 426, IDF 427, IDF 428, IDF 429 IDF 425, IDF 426, IDF 427, IDF 428, IDF 429 IDF 425, IDF 426, IDF 427, IDF 428, IDF 429 IDF 425, IDF 426, IDF 427, IDF 428, IDF 429 IDF 425, IDF 436, IDF 437, IDF 438, IDF 439 IDF 430, IDF 431, IDF 432, IDF 433, IDF 434 IDF 430, IDF 431, IDF 432, IDF 433, IDF 434 IDF 430, IDF 431, IDF 432, IDF 433, IDF 434 IDF 430, IDF 431, IDF 432, IDF 436, IDF 437, IDF 438, IDF 439 IDF 435, IDF 436, IDF 437, IDF 438, IDF 439 IDF 435, IDF 436, IDF 437, IDF 438, IDF 439 IDF 435, IDF 436, IDF 437, IDF 438, IDF 439 IDF 440, IDF 441, IDF 442, IDF 443, IDF 444 IDF 440, IDF 441, IDF 442, IDF 443, IDF 444 IDF 440, IDF 441, IDF 442, IDF 443, IDF 444 IDF 440, IDF 441, IDF 442, IDF 443, IDF 444 IDF 440, IDF 441, IDF 442, IDF 443, IDF 444 IDF 440, IDF 441, IDF 442, IDF 443, IDF 444 IDF 440, IDF 441, IDF 442, IDF 443, IDF 444 IDF 440, IDF 441, IDF 442, IDF 443, IDF 444 IDF 440, IDF 441, IDF 442, IDF 443, IDF 444 IDF 440, IDF 441, IDF 442, IDF 443, IDF 444 IDF 440, IDF 441, IDF 442, IDF 443, IDF 444 IDF 440, IDF 441, IDF 442, IDF 443, IDF 444 IDF 440, IDF 441, IDF 442, IDF 443, IDF 444 IDF 440, IDF 441, IDF 442, IDF 443, IDF 444	~Ф42.4	KRUZ 420 □ FSL									-445 SL		IVIOXIZ	3.0111111
Φ42.5 YTDI 425 □ FSL P(5xD) 364 294 255 H(7xD) 449 379 340 IDF 425, IDF 426, IDF 427, IDF 428, IDF 429 Φ43.0 YTDI 430 □ FSL P(5xD) 368 298 258 P(5xD) 368 298 258 P(5xD) 368 298 258 Φ43.4 KRUZ 430 □ FSL P(5xD) 454 384 344 L(10xD) 583 513 473 H(7xD) 454 384 344 Φ43.5 YTDI 435 □ FSL P(5xD) 371 301 261 H(7xD) 458 388 348 H(7xD) 458 388 348 L(10xD) 589 519 479 T(3xD) 287 217 176 P(5xD) 375 305 264 H(7xD) 463 393 352									10 420, 10 421, 10 4	766, ID 463, ID 464				
Φ42.9 KRUZ 425 □ FSL H(7xD) 449 379 340 L(10xD) 577 507 468 T(3xD) 282 212 172 P(5xD) 368 298 258 H(7xD) 454 384 344 L(10xD) 583 513 473 T(3xD) 284 214 174 P(5xD) 371 301 261 H(7xD) 458 388 348 L(10xD) 589 519 479 IDF 425, IDF 426, IDF 427, IDF 428, IDF 429 ID 425, ID 426, ID 427, ID 428, ID 429 IDP 43.0 IDP 430, IDP 431, IDP 432, IDP 433, IDP 434 ID 430, ID 431, ID 432, ID 433, ID 434 IDP 43.5 YTDI 435 □ FSL WRUZ 435 □ FSL H(7xD) 458 388 348 L(10xD) 589 519 479 T(3xD) 287 217 176 P(5xD) 375 305 264 H(7xD) 463 393 352 IDP 440, IDP 441, IDP 442, IDP 443, IDP 444 Φ44.0 YTDI 440 □ FSL WRUZ 440 □ FSL H(7xD) 463 393 352 IDP 440, IDP 441, IDP 442, IDP 443, IDP 444	Φ/2.5	VTDI 425 □ ECI					_		IDP 425, IDP 426, IDP	427, IDP 428, IDP 429				
Φ43.0 YTDI 430 □ FSL C(10xD) 577 507 468 T(3xD) 282 212 172 ID 425, ID 426, ID 427, ID 428, ID 429 Φ43.4 KRUZ 430 □ FSL T(3xD) 282 212 172 IDP 430, IDP 431, IDP 432, IDP 433, IDP 434 L(10xD) 583 513 473 T(3xD) 284 214 174 ID 430, IDF 431, IDF 432, IDF 433, IDF 434 L(10xD) 583 513 473 T(3xD) 284 214 174 IDP 435, IDP 436, IDP 437, IDP 438, IDP 439 L(10xD) 583 513 473 T(3xD) 284 214 174 P(5xD) 371 301 261 H(7xD) 458 388 348 L(10xD) 589 519 479 IDP 435, IDF 436, IDF 437, IDF 438, IDF 439 L(10xD) 589 519 479 T(3xD) 287 217 176 P(5xD) 375 305 264 P(5xD) 375 305 264 P(5xD) 375 305 264 H(7xD) 463 393 352 H(7xD) 463 393 352					_				IDF 425, IDF 426, IDF	427, IDF 428, IDF 429				
Φ43.0 YTDI 430 □ FSL T(3xD) 282 212 172 P(5xD) 368 298 258 H(7xD) 454 384 344 L(10xD) 583 513 473 T(3xD) 284 214 174 P(5xD) 371 301 261 H(7xD) 458 388 348 L(10xD) 589 519 479 T(3xD) 287 217 176 P(5xD) 375 305 264 H(7xD) 463 393 352 IDP 430, IDP 431, IDP 432, IDP 433, IDP 434 ID 430, IDF 431, IDF 432, IDF 433, IDF 434 IDF 430, IDF 431, IDF 432, IDF 433, IDF 434 IDF 430, IDF 431, IDF 432, IDF 433, IDF 434 IDF 430, IDF 431, IDF 432, IDF 436, IDF 437, IDF 438, IDF 439 IDF 435, IDF 436, IDF 437, IDF 438, IDF 439 IDF 435, IDF 436, IDF 437, IDF 438, IDF 439 IDF 435, IDF 436, IDF 437, IDF 438, IDF 439 IDF 440, IDF 441, IDF 442, IDF 443, IDF 444	~Ф42.9	KRUZ 425 □ FSL							ID 425, ID 426, ID 4	427, ID 428, ID 429				
Φ43.0 YTDI 430 □ FSL P(5xD) 368 298 258 H(7xD) 454 384 344 H(7xD) 454 384 344 H(7xD) 454 384 344 ID 430, ID 431, ID 432, ID 433, ID 434 Φ43.5 YTDI 435 □ FSL T(3xD) 284 214 174 P(5xD) 371 301 261 H(7xD) 458 388 348 H(7xD) 458 388 348 H(7xD) 458 388 348 H(7xD) 458 388 348 H(10xD) 589 519 479 ID 435, ID 436, ID 437, ID 438, ID 439 ID 435, ID 436, ID 437, ID 438, ID 439 ID 435, ID 436, ID 437, ID 438, ID 439 ID 440, ID 441, ID 442, ID 443, ID 444 ID 440, ID 441, ID 442, ID 444, I									IDD 430 IDD 434 IDD	422 IDD 422 IDD 424				
Φ43.4 KRUZ 430 □ FSL H(7xD) 454 384 344 L(10xD) 583 513 473 Φ43.5 YTDI 435 □ FSL ~ Φ43.9 T(3xD) 284 214 174 P(5xD) 371 301 261 H(7xD) 458 388 348 L(10xD) 589 519 479 H(7xD) 458 388 348 L(10xD) 589 519 479 H(7xD) 458 388 348 L(10xD) 589 519 479 H(7xD) 458 383 348 L(10xD) 589 519 479 H(7xD) 463 393 352	Ф43.0	YTDI 430 □ FSL			_			1						
Φ43.5 YTDI 435 □ FSL Φ43.9 KRUZ 435 □ FSL Φ44.0 YTDI 440 □ FSL Φ44.4 KRUZ 440 □ FSL Φ44.4 KRUZ 440 □ FSL Φ44.6 YTDI 440 □ FSL Φ44.7 YTDI 440 □ FSL Φ44.8 KRUZ 440 □ FSL Φ44.9 YTDI 440 □ FSL Φ44.0 YTDI 440 □ FSL Φ44.1 KRUZ 440 □ FSL Φ44.1 KRUZ 440 □ FSL Φ44.2 YTDI 440 □ FSL Φ44.3 YTDI 440 □ FSL Φ44.4 KRUZ 440 □ FSL Φ44.4 KRUZ 440 □ FSL	~Ф43.4							†						
Φ43.5 YTDI 435 □ FSL Φ43.9 KRUZ 435 □ FSL Φ44.0 YTDI 440 □ FSL Φ44.4 KRUZ 440 □ FSL Φ44.4 KRUZ 440 □ FSL Φ44.6 VALUE 440 □ FSL Φ44.7 VALUE 440 □ FSL Φ44.8 VALUE 440 □ FSL Φ44.9 VALUE 440 □ FSL Φ44.1 VALUE 440 □ FSL Φ44.4 VALUE 440 □ FSL Φ44.4 VALUE 440 □ FSL					_]	ID 430, ID 431, ID 4	432, ID 433, ID 434				
Φ43.9 KRUZ 435 □ FSL Φ44.0 YTDI 440 □ FSL Φ44.4 KRUZ 440 □ FSL Φ44.4 KRUZ 440 □ FSL Φ44.6 KRUZ 440 □ FSL Φ44.7 KRUZ 440 □ FSL Φ44.8 KRUZ 440 □ FSL Φ44.9 KRUZ 440 □ FSL Φ44.0 KRUZ 440 □ FSL Φ44.1 KRUZ 440 □ FSL				T(3xD)	_	214	174		IDP 435, IDP 436, IDP	437, IDP 438. IDP 439				
Φ44.0 YTDI 440 □ FSL ~Φ44.4 KRUZ 440 □ FSL ~Φ44.4 KRUZ 440 □ FSL ~Φ44.4 KRUZ 440 □ FSL ~Φ44.6 KRUZ 440 □ FSL	Φ43.5	YTDI 435 □ FSL												
Φ44.0 YTDI 440 □ FSL ~Φ44.4 KRUZ 440 □ FSL H(7xD) 463 393 352 ID 444 ID 443 ID 443 ID 444 ID 443 ID 443 ID 444 ID 443 ID 444 ID 443 ID 443 ID 444 ID 444 ID 443 ID 444 I	~Ф43.9	KRUZ 435 □ FSL			_		_							
Φ44.0 YTDI 440 □ FSL P(5xD) 375 305 264 H(7xD) 463 393 352 ID 444, IDF 442, IDF 443, IDF 444 ID 443, ID 443, ID 444 ID 443, ID 443, ID 444									10 133, 10 430, 10 t	.5., 10 730, 10 733				
~044.4 KRUZ 440 □ FSL H(7xD) 463 393 352 IDF 440, IDF 441, IDF 442, IDF 443, IDF 444	Φ44.0	VTDI 440 □ ESI							IDP 440, IDP 441, IDP	442, IDP 443, IDP 444				
					_			-	IDF 440, IDF 441, IDF	442, IDF 443, IDF 444				
	~Ψ44.4	KKUZ 440 🗆 FSL			_		_	-	ID 440, ID 441, ID 4	442, ID 443, ID 444				

★ KRUZ-FSL、YTDI-FSL型法兰刀体与硬质合金钻尖

孔径 范围	刀体型号	刀柄尺寸 (Φd)	切削深度 (倍 x 孔径)	L1	L2	L3	法兰直径 (ΦFd)	适合刀体的刀片型号	IDP IDF ID	锁紧螺栓	梅花型螺批	定位螺钉	"1"型内六角扳手
			T(3xD)	289	219	178	11127	IDP 445, IDP 446, IDP			**		
Ф44.5	YTDI 445 □ FSL		P(5xD)	378	308	267		IDF 445, IDF 446, IDF	-	CS 400			
~Ф44.9	KRUZ 445 □ FSL		H(7xD)	467	397	356				-445 SL			
			L(10xD)	601	531	490		ID 445, ID 446, ID 4	147, ID 440, ID 443				
D4E 0	VTDI 4E0 🗆 ECI		T(3xD)	291	221	180		IDP 450, IDP 451, IDP	452, IDP 453, IDP 454				
Ф 45.0	YTDI 450 □ FSL		P(5xD)	381	311	270		IDF 450, IDF 451, IDF	452, IDF 453, IDF 454				
~Ф45.4	KRUZ 450 □ FSL		H(7xD)	471	401	360		ID 450, ID 451, ID 4	452. ID 453. ID 454				
			L(10xD)		536	495			· · ·				
Ф45.5	YTDI 455 □ FSL		T(3xD) P(5xD)	294 385	224 315	182 273		IDP 455, IDP 456, IDP	457, IDP 458, IDP 459				
	KRUZ 455 □ FSL		H(7xD)	476	406	364		IDF 455, IDF 456, IDF	457, IDF 458, IDF 459				
~Ф45.9	KNUZ 455 🗆 FSL		L(10xD)		543	501		ID 455, ID 456, ID 4	457, ID 458, ID 459				
			T(3xD)	296	226	184		IDD 460 IDD 461 IDD	462 IDD 462 IDD 464				
Ф46.0	YTDI 460 □ FSL		P(5xD)	388	318	276		IDP 460, IDP 461, IDP					
~Ф46.4	KRUZ 460 □ FSL		H(7xD)	480	410	368		IDF 460, IDF 461, IDF					
7 10.1	100 _ 100		L(10xD)	618	548	506		ID 460, ID 461, ID 4	462, ID 463, ID 464				
			T(3xD)	299	229	186		IDP 465, IDP 466, IDP	467 IDP 468 IDP 469]			
Ф 46.5	YTDI 465 □ FSL		P(5xD)	392	322	279		IDF 465, IDF 466, IDF					
~Ф46.9	KRUZ 465 □ FSL	1	H(7xD)	485	415	372							
			L(10xD)	625	555	512		ID 465, ID 466, ID 4	+07, ID 400, ID 403				
447.0	VTD: 470 🗆 FCI		T(3xD)	301	231	188		IDP 470, IDP 471, IDP	472, IDP 473, IDP 474				
Φ47.0	YTDI 470 □ FSL		P(5xD)	395	325	282		IDF 470, IDF 471, IDF	472, IDF 473, IDF 474		T20		
~Ф47.4	KRUZ 470 □ FSL		H(7xD)	489	419	376		ID 470, ID 471, ID 4	472. ID 473. ID 474		120		
		40.0	L(10xD)		560	517	55	15 11 07 15 11 17 15	,,		扭矩	M6x12	3.0mm
Ф47.5	YTDI 475 □ FSL		T(3xD)	303	233 328	190 285		IDP 475, IDP 476, IDP	477, IDP 478, IDP 479	CC 4F0	5.0Nm		
			P(5xD) H(7xD)	398 493	423	380		IDF 475, IDF 476, IDF	477, IDF 478, IDF 479	CS 450 -500 SL	(最大)		
~Ф47.9	KRUZ 475 □ FSL				566			ID 475, ID 476, ID 4	477, ID 478, ID 479	300 32			
			T(3xD)	306	236	192		IDD 400 IDD 404 IDD	402 IDD 402 IDD 404				
Ф48.0	YTDI 480 □ FSL		P(5xD)	402	332	288		IDP 480, IDP 481, IDP					
~Ф48.4	KRUZ 480 □ FSL		H(7xD)	498	428	384		IDF 480, IDF 481, IDF	482, IDF 483, IDF 484				
7 1011			L(10xD)	642	572	528		ID 480, ID 481, ID 4	482, ID 483, ID 484				
			T(3xD)	308	238	194		IDP 485, IDP 486, IDP	487 IDP 488 IDP 489	1			
Ф48.5	YTDI 485 ☐ FSL		P(5xD)	405	335	291		IDF 485, IDF 486, IDF					
~Ф48.9	KRUZ 485 □ FSL		H(7xD)	502	432	388		ID 485, ID 486, ID 4					
			L(10xD)		578	534		עו ,400, וט 400, וט 4	407, ID 400, ID 403				
Ф49.0	VTDI 400 🗆 FCI		T(3xD)	311	241	196		IDP 490, IDP 491, IDP	492, IDP 493, IDP 494				
	YTDI 490 □ FSL		P(5xD)	409	339	294		IDF 490, IDF 491, IDF	492, IDF 493, IDF 494				
~Ф49.4	KRUZ 490 □ FSL		H(7xD)					ID 490, ID 491, ID 4	492, ID 493, ID 494				
			L(10xD)					, ,					
Ф49.5	YTDI 495 □ FSL		T(3xD)	313				IDP 495, IDP 496, IDP	497, IDP 498, IDP 499				
			P(5xD) H(7xD)	412 511	342 441	396		IDF 495, IDF 496, IDF	497, IDF 498, IDF 499				
~Ф49.9	KRUZ 495 □ FSL	1	L(10xD)		590			ID 495, ID 496, ID 4	497, ID 498, ID 499				
		1	T(3xD)	315				IDD 500 IDD 504 IDD	F02 IDD F02 IDD F04				
Ф 50.0	YTDI 500 □ FSL	1	P(5xD)	415	345			IDP 500, IDP 501, IDP					
~Ф50.4	KRUZ 500 □ FSL		H(7xD)					IDF 500, IDF 501, IDF					
7 30.4	1.11.02 300 LI I SL	1	L(10xD)					ID 500, ID 501, ID 5	502, ID 503, ID 504				

KRUZ-FSL钻头系列, 推荐切削参数

钻头	人直径	Ф8~	16mm	Ф16-	~25mm	Ф 25	~32mm	Ф 32	~40mm	Ф 40	~50mm
工件材质	創参数(r	线速度 m/分钟)	进给量 (mm/转)	线速度 (m/分钟)	进给量 (mm/转)	线速度 (m/分钟)	进给量 (mm/转)	线速度 (m/分钟)	进给量 (mm/转)	线速度 (m/分钟)	进给量 (mm/转)
灰口铸铁 (F	:C) 8	30~150	0.20~0.30	80~150	0.25~0.45	80~160	0.35~0.55	90~200	0.34~0.58	90~200	0.38~0.60
球墨铸铁 (FC	(D) 8	30~140	0.15~0.25	80~140	0.22~0.45	80~150	0.32~0.52	90~160	0.35~0.62	90~200	0.38~0.60
中碳钢 (\$45	i c) 8	30~140	0.15~0.30	80~140	0.16~0.40	80~150	0.20~0.40	80~150	0.22~0.48	80~160	0.25~0.54
合金钢 (SCM44	10) 7	70~140	0.15~0.30	70~140	0.15~0.40	70~140	0.18~0.40	80~140	0.25~0.47	80~140	0.27~0.52
淬硬钢 (SKD1	11) 4	40~50	0.10~0.20	40~50	0.12~0.28	40~50	0.16~0.35	40~60	0.20~0.38	40~60	0.22~0.42
不锈钢 (SU	IS)	30~40	0.10~0.20	35~50	0.10~0.22	35~50	0.15~0.28	40~55	0.18~0.30	40~55	0.22~0.32
铝 130HB (A	NL) 12	20~200	0.20~0.30	120~200	0.25~0.40	120~200	0.30~0.45	120~200	0.30~0.45	120~200	0.30~0.50

[☞] 上述推荐切削参数以3xD为准。当在5xD, 7xD或10xD时, 根据工况下降15~20%切削速度。

定位螺钉

KRUZ-FH 刀体

KRUZ"H"系列,法兰+大螺旋角刀体与硬质合金钻尖

注意 >> "H"系列刀体,只专用"H"系列钻尖(刀片),请勿失误。



订货时,请在口内标注孔深。如:T(3倍孔径), P(5倍孔径), H(7倍孔径), L(10倍孔径--->Ф11.0mm以上)

YTDI-FH 刀体

孔径 范围	刀体型号		切削深度 (倍 x 孔径)	L1	L2	L3	法兰直径 (ФFd)	适合刀体的刀片型号 IDPH IDPH IDPH IDPH USSH 锁紧螺栓 梅花型螺批 定位螺纹	丁 "L"型内六角扳手
	_		T(3xD)	109	61	48		IDPH 120, IDPH 121, IDPH 122, IDPH 123, IDPH 124	
Ф12.0	YTDI 120 □ FH		P(5xD)	133	85	72		IDFH 120, IDFH 121, IDFH 122, IDFH 123, IDFH 124	
~Ф12.4	KRUZ 120 □ FH		H(7xD)	157	109	96		IDH 120, IDH 121, IDH 122, IDH 123, IDH 124 IDSH 120, IDSH 121, IDSH 122, IDSH 123, IDSH 124	
			L(10xD)		145	132		1551 120, 1551 121, 1551 122, 1551 125, 1551 124	
Ф12.5	YTDI 125 □ FH		T(3xD)	111	63	50		IDPH 125, IDPH 126, IDPH 127, IDPH 128, IDPH 129	
Ψ12.3			P(5xD)	136	88	75		IDFH 125, IDFH 126, IDFH 127, IDFH 128, IDFH 129 IDH 125, IDH 126, IDH 127, IDH 128, IDH 129	
~Ф12.9	KRUZ 125 □ FH		H(7xD)	161 199	113 151	100 138		IDSH 125, IDSH 126, IDSH 127, IDSH 128, IDSH 129	
			L(10xD) T(3xD)	114	66	52		CS120 -135 SI	
Ф13.0	YTDI 130 □ FH		P(5xD)	140	92	78		IDPH 130, IDPH 131, IDPH 132, IDPH 133, IDPH 134	
		16.0	H(7xD)	166	118	104	21	IDFH 130, IDFH 131, IDFH 132, IDFH 133, IDFH 134 IDH 130, IDH 131, IDH 132, IDH 133, IDH 134	
~Ф13.4	KRUZ 130 □ FH		L(10xD)		157	143		IDSH 130, IDSH 131, IDSH 132, IDSH 133, IDSH 134	
			T(3xD)	116	68	54		IDDU 425 IDDU 426 IDDU 427 IDDU 420 IDDU 420	
Ф13.5	YTDI 135 □ FH		P(5xD)	143	95	81		IDPH 135, IDPH 136, IDPH 137, IDPH 138, IDPH 139 IDFH 135, IDFH 136, IDFH 137, IDFH 138, IDFH 139	
~Ф13.9	KRUZ 135 □ FH		H(7xD)	170	122	108		IDH 135, IDH 136, IDH 137, IDH 138, IDH 139	1 1.3mm
13.3	KK02 133 E 111		L(10xD)	211	163	149		IDSH 135, IDSH 136, IDSH 137, IDSH 138, IDSH 139	
			T(3xD)	119	71	56		IDPH 140, IDPH 141, IDPH 142, IDPH 143, IDPH 144	
Ф14.0	YTDI 140 □ FH		P(5xD)	147	99	84		IDFH 140, IDFH 141, IDFH 142, IDFH 143, IDFH 144	
~Ф14.4	KRUZ 140 □ FH		H(7xD)	175	127	112		IDH 140, IDH 141, IDH 142, IDH 143, IDH 144	
			L(10xD)	217	169	154		IDSH 140, IDSH 141, IDSH 142, IDSH 143, IDSH 144	
			T(3xD)	123	73	58		IDPH 145, IDPH 146, IDPH 147, IDPH 148, IDPH 149	
Ф14.5	YTDI 145 □ FH		P(5xD)	152	102	87		IDFH 145, IDFH 146, IDFH 147, IDFH 148, IDFH 149 CS140 扭矩	
~Ф14.9	KRUZ 145 □ FH		H(7xD)	181	131	116		10H 145, IDH 146, IDH 147, IDH 148, IDH 149 -1333L 0.9Nm	
		20.0	L(10xD)		175	160	27	ID3H 143, ID3H 146, ID3H 147, ID3H 148, ID3H 149	
Ф15.0	YTDI 150 □ FH		T(3xD)	127	77	60		IDPH 150, IDPH 151, IDPH 152, IDPH 153, IDPH 154	
			P(5xD)	157	107	90		IDFH 150, IDFH 151, IDFH 152, IDFH 153, IDFH 154	
~Ф15.4	KRUZ 150 □ FH		H(7xD)	187	137	120		IDH 150, IDH 151, IDH 152, IDH 153, IDH 154 IDSH 150, IDSH 151, IDSH 152, IDSH 153, IDSH 154	
			L(10xD)	232	182	165		100, 100, 100, 100, 100, 100, 100, 100,	

[☞] 上述推荐切削参数以正常工况和油污冷却(MQL)为准。



KRUZ"H"系列,法兰+大螺旋角刀体与硬质合金钻尖

孔径范围	刀体型号		切削深度 旧x孔径)	L1	L2	L3	法兰直径 (ΦFd)	适合刀体的刀片型号 Page Toph IDH IDSH	锁紧螺栓	梅花型螺批	定位螺钉	"L"型内六角扳手
706		` '	T(3xD)	130	80	62	(IDDU 4FF IDDU 4FC IDDU 4F7 IDDU 4F0 IDDU 4F0			- 0	
Ф15.5	YTDI 155 □ FH		P(5xD)	161	111	93		IDPH 155, IDPH 156, IDPH 157, IDPH 158, IDPH 159 IDFH 155, IDFH 156, IDFH 157, IDFH 158, IDFH 159	CS 140			
~Ф15.9	KRUZ 155 □ FH		H(7xD)	192	142	124		IDH 155, IDH 156, IDH 157, IDH 158, IDH 159	-155 SL			
~Ψ15.9	KKUZ 133 LI FII		L(10xD)		189	171		IDSH 155, IDSH 156, IDSH 157, IDSH 158, IDSH 159				
			T(3xD)	132	82	64		IDPH 160, IDPH 161, IDPH 162, IDPH 163, IDPH 164				
Ф16.0	YTDI 160 □ FH		P(5xD)	164	114	96		IDFH 160, IDFH 161, IDFH 162, IDFH 163, IDFH 164				
~Ф16.4	KRUZ 160 □ FH		H(7xD)	196	146	128		IDH 160, IDH 161, IDH 162, IDH 163, IDH 164				
			L(10xD)	244	194	176		IDSH 160, IDSH 161, IDSH 162, IDSH 163, IDSH 164				
			T(3xD)	135	85	66		IDPH 165, IDPH 166, IDPH 167, IDPH 168, IDPH 169				
Ф16.5	YTDI 165 □ FH		P(5xD)	168	118	99		IDFH 165, IDFH 166, IDFH 167, IDFH 168, IDFH 169		扭矩		
~Ф16.9	KRUZ 165 □ FH		H(7xD)	201	151	132		IDH 165, IDH 166, IDH 167, IDH 168, IDH 169		0.9Nm		
			L(10xD)		201	182		IDSH 165, IDSH 166, IDSH 167, IDSH 168, IDSH 169	CS 160	(最大)		
447.0	VTD1 470 T 511	1	T(3xD)	137	87	68		IDPH 170, IDPH 171, IDPH 172, IDPH 173, IDPH 174	-175 SL			
Ф17.0	YTDI 170 □ FH		P(5xD)	171	121	102		IDFH 170, IDFH 171, IDFH 172, IDFH 173, IDFH 174				
~Ф17.4	KRUZ 170 □ FH		H(7xD)	205	155	136		IDH 170, IDH 171, IDH 172, IDH 173, IDH 174 IDSH 170, IDSH 171, IDSH 172, IDSH 173, IDSH 174				
			L(10xD)		206	187		171, 103h 171, 103h 172, 103h 173, 103h 174				
Ф17.5	VTDI 175 🗆 EU		T(3xD)	139	89	70		IDPH 175, IDPH 176, IDPH 177, IDPH 178, IDPH 179				
Ψ17.5	YTDI 175 □ FH	20.0	P(5xD)	174	124	105	27	IDFH 175, IDFH 176, IDFH 177, IDFH 178, IDFH 179			M2.5x4	1.3mm
~Ф17.9	KRUZ 175 □ FH		H(7xD)	209	159	140		IDH 175, IDH 176, IDH 177, IDH 178, IDH 179 IDSH 175, IDSH 176, IDSH 177, IDSH 178, IDSH 179				
			L(10xD)		212	193		10311 173, 10311 173, 10311 177, 10311 173				
Ф18.0	YTDI 180 □ FH		T(3xD)	142	92	72		IDPH 180, IDPH 181, IDPH 182, IDPH 183, IDPH 184				
			P(5xD) H(7xD)	178 214	128 164	108 144		IDFH 180, IDFH 181, IDFH 182, IDFH 183, IDFH 184 IDH 180, IDH 181, IDH 182, IDH 183, IDH 184				
~Ф18.4	KRUZ 180 □ FH		L(10xD)		218	198		IDSH 180, IDSH 181, IDSH 182, IDSH 183, IDSH 184				
			T(3xD)	144	94	74		IRRU 405 IRRU 405 IRRU 405 IRRU 400 IRRU 400	-			
Ф18.5	YTDI 185 □ FH		P(5xD)	181	131	111		IDPH 185, IDPH 186, IDPH 187, IDPH 188, IDPH 189 IDFH 185, IDFH 186, IDFH 187, IDFH 188, IDFH 189				
~Ф18.9	KRUZ 185 □ FH		H(7xD)	218	168	148		IDH 185, IDH 186, IDH 187, IDH 188, IDH 189				
~ \$ 10.3	KKOZ 165 🗆 III		L(10xD)		224	204		IDSH 185, IDSH 186, IDSH 187, IDSH 188, IDSH 189	CS 180			
			T(3xD)	147	97	76		IDPH 190, IDPH 191, IDPH 192, IDPH 193, IDPH 194	-195 SL			
Ф19.0	YTDI 190 □ FH		P(5xD)	185	135	114		IDFH 190, IDFH 191, IDFH 192, IDFH 193, IDFH 194				
~Ф19.4	KRUZ 190 □ FH		H(7xD)	223	173	152		IDH 190, IDH 191, IDH 192, IDH 193, IDH 194				
			L(10xD)	280	230	209		IDSH 190, IDSH 191, IDSH 192, IDSH 193, IDSH 194				
			T(3xD)	149	99	78		IDPH 195, IDPH 196, IDPH 197, IDPH 198, IDPH 199				
Ф19.5	YTDI 195 □ FH		P(5xD)	188	138	117		IDFH 195, IDFH 196, IDFH 197, IDFH 198, IDFH 199				
~Ф19.9	KRUZ 195 □ FH		H(7xD)	227	177	156		IDH 195, IDH 196, IDH 197, IDH 198, IDH 199 IDSH 195, IDSH 196, IDSH 197, IDSH 198, IDSH 199				
			L(10xD)		236	215		10311 193, 10311 190, 10311 197, 10311 190, 10311 199				
Ф20.0	YTDI 200 □ FH		T(3xD)	157	101	80		IDPH 200, IDPH 201, IDPH 202, IDPH 203, IDPH 204				
			P(5xD)	197	141	120		IDFH 200, IDFH 201, IDFH 202, IDFH 203, IDFH 204 IDH 200, IDH 201, IDH 202, IDH 203, IDH 204		T8		
~Ф20.4	KRUZ 200 □ FH	1	H(7xD) L(10xD)	237	181 241	160		IDSH 200, IDSH 201, IDSH 202, IDSH 203, IDSH 204		100		
			T(3xD)	160	104	220 82			-	扭矩		
Ф20.5	YTDI 205 □ FH		P(5xD)	201	145	123		IDPH 205, IDPH 206, IDPH 207, IDPH 208, IDPH 209 IDFH 205, IDFH 206, IDFH 207, IDFH 208, IDFH 209		1.5Nm		
	KRUZ 205 □ FH		H(7xD)	242	186	164		IDH 205, IDH 206, IDH 207, IDH 208, IDH 209		(最大)		
~Ф20.9	KKUZ 203 LI FH		L(10xD)		248	226		IDSH 205, IDSH 206, IDSH 207, IDSH 208, IDSH 209	CS 200			
			T(3xD)	162	106	84		IDPH 210, IDPH 211, IDPH 212, IDPH 213, IDPH 214	-215 SL			
Ф21.0	YTDI 210 □ FH		P(5xD)	204	148	126		IDFH 210, IDFH 211, IDFH 212, IDFH 213, IDFH 214				
~Ф21.4	KRUZ 210 □ FH		H(7xD)	246	190	168		IDH 210, IDH 211, IDH 212, IDH 213, IDH 214				
721.4	I I I I I I I I I I I I I I I I I I I	25.0	L(10xD)	309	253	231	22	IDSH 210, IDSH 211, IDSH 212, IDSH 213, IDSH 214			Maric	1 5
		25.0	T(3xD)	165	109	86	32	IDPH 215, IDPH 216, IDPH 217, IDPH 218, IDPH 219	1		M3x6	1.5mm
Ф21.5	YTDI 215 ☐ FH		P(5xD)	208	152	129		IDFH 215, IDFH 216, IDFH 217, IDFH 218, IDFH 219				
~Ф21.9	KRUZ 215 □ FH		H(7xD)	251	195	172		IDH 215, IDH 216, IDH 217, IDH 218, IDH 219				
		1	L(10xD)	316	260	237		IDSH 215, IDSH 216, IDSH 217, IDSH 218, IDSH 219				
422.5	VTDI 220 🗆 5::		T(3xD)	167	111	88		IDPH 220, IDPH 221, IDPH 222, IDPH 223, IDPH 224				
Ф22.0	YTDI 220 □ FH		P(5xD)	211	155	132		IDFH 220, IDFH 221, IDFH 222, IDFH 223, IDFH 224				
~Ф22.4	KRUZ 220 □ FH	1	H(7xD)	255	199	176		IDH 220, IDH 221, IDH 222, IDH 223, IDH 224 IDSH 220, IDSH 221, IDSH 222, IDSH 223, IDSH 224				
			L(10xD)		265	242		10311 220, 10311 221, 10311 222, 10311 223, 10311 224	CS 220			
Ф22.5	YTDI 225 □ FH		T(3xD)	169	113	90		IDPH 225, IDPH 226, IDPH 227, IDPH 228, IDPH 229	-235 SL			
			P(5xD)	214	158	135		IDFH 225, IDFH 226, IDFH 227, IDFH 228, IDFH 229 IDH 225, IDH 226, IDH 227L, IDH 228L, IDH 229				
~Ф22.9	KRUZ 225 □ FH		H(7xD) L(10xD)	259	203	180		IDSH 225, IDSH 226, IDSH 227L, IDSH 228L, IDSH 229				
		I	L(IOXD)	24/	271	248	l	, , , , , , , , , , , , , , , , , , , ,	I	I	I	I

孔径 范围	刀体型号	刀柄尺寸 (Φd)	切削深度 (倍x孔径)	L1	L2	L3	法兰直径 (ФFd)	适合刀体的刀片型号	· · · · · · · · · · · · · · · · · · ·	梅花型螺批	定位螺钉	"L"型内六角扳手
Ф23.0	VTDI 220 □ EU		T(3xD)	172	116	92		IDPH 230, IDPH 231, IDPH 232, IDPH 233, IDPH 23				Ť
Ψ23.0	YTDI 230 □ FH		P(5xD)	218	162	138		IDFH 230, IDFH 231, IDFH 232, IDFH 233, IDFH 234	4	T8		
~Ф23.4	KRUZ 230 □ FH		H(7xD)		208	184	-	IDH 230, IDH 231, IDH 232, IDH 233, IDH 234 IDSH 230, IDSH 231, IDSH 232, IDSH 233, IDSH 23	4	10		
		25.0	L(10xD)		277	253 94	32		C2 220	扭矩		
Ф23.5	YTDI 235 □ FH		T(3xD) P(5xD)	174 221	118 165	141		IDPH 235, IDPH 236, IDPH 237, IDPH 238, IDPH 23	פי	1.5Nm		
			H(7xD)		212	188		IDFH 235, IDFH 236, IDFH 237, IDFH 238, IDFH 23 IDH 235, IDH 236, IDH 237, IDH 238, IDH 239	9	(最大)		
~Ф23.9	KRUZ 235 □ FH		L(10xD)		283	259		IDSH 235, IDSH 236, IDSH 237, IDSH 238, IDSH 23	9			
			T(3xD)	181	121	96		IDDU 240 IDDU 244 IDDU 242 IDDU 242 IDDU 2	4		-	
Ф24.0	YTDI 240 □ FH		P(5xD)	229	169	144		IDPH 240, IDPH 241, IDPH 242, IDPH 243, IDPH 24 IDFH 240, IDFH 241, IDFH 242, IDFH 243, IDFH 24				
~Ф24.4	KRUZ 240 □ FH		H(7xD)		217	192		IDH 240, IDH 241, IDH 242, IDH 243, IDH 244				
~ 424.4	KN02 240 🗆 111		L(10xD)		289	264		IDSH 240, IDSH 241, IDSH 242, IDSH 243, IDSH 24	4			
			T(3xD)	183	123	98		IDPH 245, IDPH 246, IDPH 247, IDPH 248, IDPH 2	19			
Ф 24.5	YTDI 245 □ FH		P(5xD)	232	172	147	1	IDFH 245, IDFH 246, IDFH 247, IDFH 248, IDFH 24				
~Ф24.9	KRUZ 245 □ FH		H(7xD)	281	221	196		IDH 245, IDH 246, IDH 247, IDH 248, IDH 249				
			L(10xD)	355	295	270]	IDSH 245, IDSH 246, IDSH 247, IDSH 248, IDSH 24	9 CS 240		Maye	1 5 00 00
			T(3xD)	185	125	100		IDPH 250, IDPH 251, IDPH 252, IDPH 253, IDPH 2	-255 SL		M3x6	1.5mm
Ф25.0	YTDI 250 □ FH		P(5xD)	235	175	150		IDFH 250, IDFH 251, IDFH 252, IDFH 253, IDFH 25	4			
~Ф25.4	KRUZ 250 □ FH		H(7xD)			200		IDH 250, IDH 251, IDH 252, IDH 253L, IDH 254	- 4			
			L(10xD)		300	275		IDSH 250, IDSH 251, IDSH 252, IDSH 253L, IDSH 2	24			
Ф2 Е Е	VTDI 3EE EI EII		T(3xD)	188	128	102		IDPH 255, IDPH 256, IDPH 257, IDPH 258, IDPH 25				
Ф25.5	YTDI 255 □ FH		P(5xD)	239	179	153	-	IDFH 255, IDFH 256, IDFH 257, IDFH 258, IDFH 25	9			
~Ф25.9	KRUZ 255 □ FH		H(7xD)	290	230	204		IDH 255, IDH 256, IDH 257, IDH 258, IDH 259 IDSH 255, IDSH 256, IDSH 257, IDSH 258, IDSH 25	9			
			L(10xD)		307	281				_		
Ф26.0	YTDI 260 □ FH		T(3xD) P(5xD)	190 242	130 182	104		IDPH 260, IDPH 261, IDPH 262, IDPH 263, IDPH 26				
			H(7xD)	294	234	156 208		IDFH 260, IDFH 261, IDFH 262, IDFH 263, IDFH 26 IDH 260, IDH 261, IDH 262, IDH 263, IDH 264	4			
~Ф26.4	KRUZ 260 □ FH		L(10xD)		312	286	<u> </u> 	IDSH 260, IDSH 261, IDSH 262, IDSH 263, IDSH 26	4			
			T(3xD)	193	133	106		IDDU 2CE IDDU 2CC IDDU 2C7 IDDU 2C0 IDDU 2	.0			
Ф26.5	YTDI 265 □ FH		P(5xD)	246	186	159	-	IDPH 265, IDPH 266, IDPH 267, IDPH 268, IDPH 26 IDFH 265, IDFH 266, IDFH 267, IDFH 268, IDFH 26				
~Ф26.9	KRUZ 265 □ FH		H(7xD)			212		IDH 265, IDH 266, IDH 267, IDH 268, IDH 269		T15		
~Ψ20.9	KN02 203 🗆 111		L(10xD)		319	292		IDSH 265, IDSH 266, IDSH 267, IDSH 268, IDSH 26	9 CS 260	ATTAC		
			T(3xD)	195	135	108		IDPH 270, IDPH 271, IDPH 272, IDPH 273, IDPH 2	275.01	扭矩 3.5Nm		
Ф27.0	YTDI 270 □ FH	32.0	P(5xD)	249	189	162	39	IDFH 270, IDFH 271, IDFH 272, IDFH 273, IDFH 27		(最大)		
~Ф27.4	KRUZ 270 □ FH	32.0	H(7xD)	303	243	216	39	IDH 270, IDH 271, IDH 272, IDH 273, IDH 274	_	1		
			L(10xD)			297		IDSH 270, IDSH 271, IDSH 272, IDSH 273, IDSH 27	4			
			T(3xD)		137	110		IDPH 275, IDPH 276, IDPH 277, IDPH 278, IDPH 2	9			
Ф27.5	YTDI 275 □ FH		P(5xD)		192	165		IDFH 275, IDFH 276, IDFH 277, IDFH 278, IDFH 27	9			
~Ф27.9	KRUZ 275 □ FH		H(7xD)		247	220		IDH 275, IDH 276, IDH 277, IDH 278, IDH 279 IDSH 275, IDSH 276, IDSH 277, IDSH 278, IDSH 27	0			
			L(10xD)		330	303		103H 273, 103H 276, 103H 277, 103H 276, 103H 27	9	_		
Ф28.0	YTDI 280 □ FH		T(3xD)	200	140	112		IDPH 280, IDPH 281, IDPH 282, IDPH 283, IDPH 28				
Ψ28.0			P(5xD)	256	196	168		IDFH 280, IDFH 281, IDFH 282, IDFH 283, IDFH 28 IDH 280, IDH 281, IDH 282, IDH 283, IDH 284	4			
~Ф28.4	KRUZ 280 □ FH		H(7xD) L(10xD)		252	224		IDSH 280, IDSH 281, IDSH 282, IDSH 283, IDSH 28	4			
			T(3xD)	202	336 142	308 114						
Ф28.5	YTDI 285 □ FH		P(5xD)	259	199	171	<u> </u>	IDPH 285, IDPH 286, IDPH 287, IDPH 288, IDPH 28 IDFH 285, IDFH 286, IDFH 287, IDFH 288, IDFH 28				
			H(7xD)			228	-	IDH 285, IDH 286, IDH 287, IDH 288, IDH 289	9		M4x8	2.0mm
~Ф28.9	KRUZ 285 □ FH		L(10xD)		342	314	-	IDSH 285, IDSH 286, IDSH 287, IDSH 288, IDSH 28	9 CS 280			
			T(3xD)	205	145	116		IDPH 290, IDPH 291, IDPH 292, IDPH 293, IDPH 29	205 (1			
Ф29.0	YTDI 290 □ FH		P(5xD)	263	203	174	1	IDFH 290, IDFH 291, IDFH 292, IDFH 293, IDFH 29				
~Ф29.4	KRUZ 290 □ FH		H(7xD)	321	261	232		IDH 290, IDH 291, IDH 292, IDH 293, IDH 294				
			L(10xD)	408	348	319		IDSH 290, IDSH 291, IDSH 292, IDSH 293, IDSH 29	4			
			T(3xD)	207	147	118		IDPH 295, IDPH 296, IDPH 297, IDPH 298, IDPH 29	9			
Ф29.5	YTDI 295 □ FH		P(5xD)	266	206	177		IDFH 295, IDFH 296, IDFH 297, IDFH 298, IDFH 29	9			
~Ф29.9	KRUZ 295 □ FH		H(7xD)		265	236		IDH 295, IDH 296, IDH 297, IDH 298, IDH 299	0			
			L(10xD)		354	325		IDSH 295, IDSH 296, IDSH 297, IDSH 298, IDSH 29	צ]	
430.0	VTDI 200 🗆 5		T(3xD)	209	149	120		IDPH 300, IDPH 301, IDPH 302, IDPH 303, IDPH 30		T20		
Ф30.0	YTDI 300 □ FH		P(5xD)	269	209	180		IDFH 300, IDFH 301, IDFH 302, IDFH 303, IDFH 30		扭矩		
~Ф30.4	KRUZ 300 □ FH		H(7xD)	_	_	240	-	IDH 300, IDH 301, IDH 302, IDH 303, IDH 304 IDSH 300, IDSH 301, IDSH 302, IDSH 303, IDSH 30	-315 SL	5.0Nm		
			L(10xD)	419	359	330	<u></u>	ו מכון ,כטכ חכעון ,טכר ווכעון ,ו שכ ווכעון ,טטכ ווכעון ,	7	(最大)		



KRUZ"H"系列,法兰+大螺旋角刀体与硬质合金钻尖

孔径 范围	刀体型号		切削深度 (倍 x 孔径)	L1	L2	L3	法兰直径 (ΦFd)	适合刀体的刀片型号	锁紧螺栓	梅花型螺批	定位螺钉	"L"型内六角扳手
	_		T(3xD)	212	152	122		IDPH 305, IDPH 306, IDPH 307, IDPH 308, IDPH 309				
Ф30.5	YTDI 305 □ FH		P(5xD)	273	213	183		IDFH 305, IDFH 306, IDFH 307, IDFH 308, IDFH 309			M4x8	2.0mm
~Ф30.9	KRUZ 305 □ FH		H(7xD)	334	274	244		IDH 305, IDH 306, IDH 307, IDH 308, IDH 309			IVIIIAO	2.0111111
			L(10xD)		366	336		IDSH 305, IDSH 306, IDSH 307, IDSH 308, IDSH 309				
Ф31.0	VTDI 240 🗆 FIL		T(3xD)	214	154	124	-	IDPH 310, IDPH 311, IDPH 312, IDPH 313, IDPH 314				
Ψ31.0	YTDI 310 □ FH		P(5xD)	276	216	186		IDFH 310, IDFH 311, IDFH 312, IDFH 313, IDFH 314	CS 300			
~Ф31.4	KRUZ 310 □ FH		H(7xD)	338	278	248		IDH 310, IDH 311, IDH 312, IDH 313, IDH 314 IDSH 310, IDSH 311, IDSH 312, IDSH 313, IDSH 314	-315 SL			
			L(10xD) T(3xD)	431 217	371 157	341 126						
Ф31.5	YTDI 315 □ FH		P(5xD)	280	220	189	_	IDPH 315, IDPH 316, IDPH 317, IDPH 318, IDPH 319 IDFH 315, IDFH 316, IDFH 317, IDFH 318, IDFH 319				
~Ф31.9			H(7xD)	343	283	252	-	IDH 315, IDH 316, IDH 317, IDH 318, IDH 319				
~Ψ31.9	KKUZ 313 LI FH		L(10xD)		378	347	-	IDSH 315, IDSH 316, IDSH 317, IDSH 318, IDSH 319				
			T(3xD)	219	159	128		IDPH 320, IDPH 321, IDPH 322, IDPH 323, IDPH 324				
Ф32.0	YTDI 320 □ FH		P(5xD)	283	223	192		IDFH 320, IDFH 321, IDFH 322, IDFH 323, IDFH 324				
~Ф32.4	KRUZ 320 □ FH	32.0	H(7xD)	347	287	256	39	IDH 320, IDH 321, IDH 322, IDH 323, IDH 324				
'51.	14402 320 2 111		L(10xD)	443	383	352		IDSH 320, IDSH 321, IDSH 322, IDSH 323, IDSH 324				
			T(3xD)	221	161	130		IDPH 325, IDPH 326, IDPH 327, IDPH 328, IDPH 329				
Ф32.5	YTDI 325 □ FH		P(5xD)	286	226	195		IDFH 325, IDFH 326, IDFH 327, IDFH 328, IDFH 329				
~Ф32.9	KRUZ 325 □ FH		H(7xD)	351	291	260		IDH 325, IDH 326, IDH 327, IDH 328, IDH 329				
			L(10xD)	449	389	358		IDSH 325, IDSH 326, IDSH 327, IDSH 328, IDSH 329				
422.0	VTD1 222 5 511		T(3xD)	224	164	132		IDPH 330, IDPH 331, IDPH 332, IDPH 333, IDPH 334				
Ф33.0	YTDI 330 □ FH		P(5xD)	290	230	198		IDFH 330, IDFH 331, IDFH 332, IDFH 333, IDFH 334				
~Ф33.4	KRUZ 330 □ FH		H(7xD)	356	296	264		IDH 330, IDH 331, IDH 332, IDH 333, IDH 334 IDSH 330, IDSH 331, IDSH 332, IDSH 333, IDSH 334				
			L(10xD)		395	363		10311 330, 10311 331, 10311 332, 10311 333, 10311 334				
Ф33.5	YTDI 335 □ FH		T(3xD)	226	166	134	-	IDPH 335, IDPH 336, IDPH 337, IDPH 338, IDPH 339				
			P(5xD) H(7xD)	293 360	233 300	201	_	IDFH 335, IDFH 336, IDFH 337, IDFH 338, IDFH 339 IDH 335, IDH 336, IDH 337, IDH 338, IDH 339				
~Ф33.9	KRUZ 335 □ FH		L(10xD)		401	369		IDSH 335, IDSH 336, IDSH 337, IDSH 338, IDSH 339	CC 220			
			T(3xD)	239	169	136		IDDU 240 IDDU 244 IDDU 242 IDDU 242 IDDU 244	CS 320 -355 SL	T20		
Ф34.0	YTDI 340 □ FH		P(5xD)	307	237	204		IDPH 340, IDPH 341, IDPH 342, IDPH 343, IDPH 344 IDFH 340, IDFH 341, IDFH 342, IDFH 343, IDFH 344				
~Ф34.4	KRUZ 340 □ FH	1	H(7xD)	375	305	272	-	IDH 340, IDH 341, IDH 342, IDH 343, IDH 344		扭矩		
~ \$\psi_4.4	KKOZ 340 🗆 III	1	L(10xD)	_	407	374	-	IDSH 340, IDSH 341, IDSH 342, IDSH 343, IDSH 344		5.0Nm (最大)		
			T(3xD)	241	171	138		IDPH 345, IDPH 346, IDPH 347, IDPH 348, IDPH 349		(AXZV)	M5x10	2.5mm
Ф 34.5	YTDI 345 □ FH		P(5xD)	310	240	207		IDFH 345, IDFH 346, IDFH 347, IDFH 348, IDFH 349				
~Ф34.9	KRUZ 345 □ FH		H(7xD)	379	309	276		IDH 345, IDH 346, IDH 347, IDH 348, IDH 349				
			L(10xD)		413	380		IDSH 345, IDSH 346, IDSH 347, IDSH 348, IDSH 349				
+25.0	VTD1 250 5 511		T(3xD)	243	173	140	_	IDPH 350, IDPH 351, IDPH 352, IDPH 353, IDPH 354				
Ф35.0	YTDI 350 □ FH		P(5xD)	313	243	210		IDFH 350, IDFH 351, IDFH 352, IDFH 353, IDFH 354				
~Ф35.4	KRUZ 350 □ FH	1	H(7xD)	383	313	280		IDH 350, IDH 351, IDH 352, IDH 353, IDH 354 IDSH 350, IDSH 351, IDSH 352, IDSH 353, IDSH 354				
			L(10xD)		418	385						
Ф35.5	YTDI 355 □ FH		T(3xD) P(5xD)	246 317	176 247	142 213		IDPH 355, IDPH 356, IDPH 357, IDPH 358, IDPH 359				
			H(7xD)	388	318	284		IDFH 355, IDFH 356, IDFH 357, IDFH 358, IDFH 359 IDH 355, IDH 356, IDH 357, IDH 358, IDH 359				
~Ф35.9	KRUZ 355 □ FH		L(10xD)		425	391	-	IDSH 355, IDSH 356, IDSH 357, IDSH 358, IDSH 359				
		40.0	T(3xD)	248	178	144	55	IDPH 360, IDPH 361, IDPH 362, IDPH 363, IDPH 364				
Ф36.0	YTDI 360 □ FH		P(5xD)	320	250	216	-	IDFH 360, IDFH 361, IDFH 362, IDFH 363, IDFH 364				
~Ф36.4	KRUZ 360 □ FH		H(7xD)	392	322	288		IDH 360, IDH 361, IDH 362, IDH 363, IDH 364				
750.4			L(10xD)	500	430	396	1	IDSH 360, IDSH 361, IDSH 362, IDSH 363, IDSH 364				
			T(3xD)	251	181	146		IDPH 365, IDPH 366, IDPH 367, IDPH 368, IDPH 369				
Ф36.5	YTDI 365 □ FH		P(5xD)	324	254	219		IDFH 365, IDFH 366, IDFH 367, IDFH 368, IDFH 369				
~Ф36.9	KRUZ 365 □ FH		H(7xD)	397	327	292		IDH 365, IDH 366, IDH 367, IDH 368, IDH 369				
		1	L(10xD)		437	402		IDSH 365, IDSH 366, IDSH 367, IDSH 368, IDSH 369	CS 360			
437.0	VTDI 270 🗆 511		T(3xD)	253	183	148		IDPH 370, IDPH 371, IDPH 372, IDPH 373, IDPH 374	-395 SL			
Ф37.0	YTDI 370 □ FH	1	P(5xD)	327	257	222		IDFH 370, IDFH 371, IDFH 372, IDFH 373, IDFH 374				
~Ф37.4	KRUZ 370 □ FH		H(7xD)	401	331	296		IDH 370, IDH 371, IDH 372, IDH 373, IDH 374 IDSH 370, IDSH 371, IDSH 372, IDSH 373, IDSH 374				
			L(10xD)		442	407						
Ф37.5	YTDI 375 □ FH		T(3xD) P(5xD)	255	185	150		IDPH 375, IDPH 376, IDPH 377, IDPH 378, IDPH 379				
			H(7xD)	330 405	260 335	225 300		IDFH 375, IDFH 376, IDFH 377, IDFH 378, IDFH 379 IDH 375, IDH 376, IDH 377, IDH 378, IDH 379				
~Ф37.9	KRUZ 375 □ FH		L(10xD)				-	IDSH 375, IDSH 376, IDSH 377, IDSH 378, IDSH 379				

孔径 范围	刀体型号	刀柄尺寸 (Φd)	切削深度 (倍x孔径)	L1	L2	L3	法兰直径 (ΦFd)	适合刀体的刀片型号	IDPH IDFH IDH IDSH	锁紧螺栓	梅花型螺批	定位螺钉	"L"型内六角扳
Φ20 U	VTDI 200 🗆 FII		T(3xD)	258	188	152		IDPH 380, IDPH 381, IDPH					
Ф38.0	YTDI 380 □ FH		P(5xD)	334	264	228		IDFH 380, IDFH 381, IDFH					
~Ф38.4	KRUZ 380 □ FH		H(7xD)	410	340	304		IDH 380, IDH 381, IDH 300, IDSH 380, IDSH 381, IDSH					
			L(10xD)		454	418		, ,	<u> </u>				
Ф 38.5	YTDI 385 □ FH		T(3xD) P(5xD)	260 337	196 267	154 231		IDPH 385, IDPH 386, IDPH					
			H(7xD)	414	344	308		IDFH 385, IDFH 386, IDFH IDH 385, IDH 386, IDH					
~Ф38.9	KRUZ 385 □ FH		L(10xD)		460	424		IDSH 385, IDSH 386, IDSH		CS 360			
			T(3xD)	263	193	156		IDDII 200 IDDII 204 IDDII	202 IDDII 202 IDDII 204	-395 SL		M5x10	2.5mr
Ф39.0	YTDI 390 □ FH		P(5xD)	341	271	234		IDPH 390, IDPH 391, IDPH IDFH 390, IDFH 391, IDFH					
~Ф39.4	KRUZ 390 □ FH		H(7xD)	419	349	312		IDH 390, IDH 391, IDH	392, IDH 393, IDH 394				
433.4	KN02 330 🗆 111		L(10xD)	536	466	429		IDSH 390, IDSH 391, IDSH	392, IDSH 393, IDSH 394				
			T(3xD)	265	195	158		IDPH 395, IDPH 396, IDPH	397. IDPH 398. IDPH 399				
Ф 39.5	YTDI 395 □ FH		P(5xD)	344	274	237		IDFH 395, IDFH 396, IDFH					
~Ф39.9	KRUZ 395 □ FH		H(7xD)	423	353	316		IDH 395, IDH 396, IDH					
			L(10xD)	542	472	435		IDSH 395, IDSH 396, IDSH	397, IDSH 398, IDSH 399				
			T(3xD)	267	197	160		IDPH 400, IDPH 401, IDPH	402, IDPH 403, IDPH 404				
Ф40.0	YTDI 400 □ FH		P(5xD)	347	277	240		IDFH 400, IDFH 401, IDFH					
~Ф40.4	KRUZ 400 □ FH		H(7xD)	427	357	320		IDH 400, IDH 401, IDH IDSH 400, IDSH 401, IDSH					
			L(10xD)		477	440		IDSH 400, IDSH 401, IDSH	402, IDSR 403, IDSR 404				
Φ40 E	VTDI 40E 🗆 EII		T(3xD)	270	200	162		IDPH 405, IDPH 406, IDPH					
Ф40.5	YTDI 405 □ FH		P(5xD)	351	281	243		IDFH 405, IDFH 406, IDFH					
~Ф40.9	KRUZ 405 □ FH		H(7xD)	432	362	324		IDH 405, IDH 406, IDH IDSH 405, IDSH 406, IDSH					
			L(10xD)		484	446				-			
Ф41.0	YTDI 410 □ FH		T(3xD) P(5xD)	272 354	202	164 246		IDPH 410, IDPH 411, IDPH					
			H(7xD)	436		328		IDFH 410, IDFH 411, IDFH IDH 410, IDH 411, IDH					
~Ф41.4	KRUZ 410 □ FH		L(10xD)		489	451		IDSH 410, IDSH 411, IDSH					
			T(3xD)	275	205	166		IDDII 445 IDDII 446 IDDII	447 IDDU 440 IDDU 440		T20		
Ф41.5	YTDI 415 □ FH		P(5xD)	358	288	249		IDPH 415, IDPH 416, IDPH IDFH 415, IDFH 416, IDFH			67		
~Ф41.9	KRUZ 415 □ FH	40.0	H(7xD)	441	371	332	55	IDH 415, IDH 416, IDH			扭矩		
~Ψ41.5	KK02 413 🗆 111		L(10xD)			457		IDSH 415, IDSH 416, IDSH	417, IDSH 418, IDSH 419		5.0Nm (最大)		
			T(3xD)	277	207	168		IDPH 420, IDPH 421, IDPH	422 IDPH 423 IDPH 424		(AXZV)		
Ф42.0	YTDI 420 □ FH		P(5xD)	361	291	252		IDFH 420, IDFH 421, IDFH					
~Ф42.4	KRUZ 420 □ FH		H(7xD)	445	375	336		IDH 420, IDH 421, IDH					
			L(10xD)		501	462		IDSH 420, IDSH 421, IDSH	422, IDSH 423, IDSH 424	CS 400			
			T(3xD)	279	209	170		IDPH 425, IDPH 426, IDPH	427, IDPH 428, IDPH 429	-445 SL			
Ф 42.5	YTDI 425 □ FH		P(5xD)	364	294	255		IDFH 425, IDFH 426, IDFH				M6x12	3.0mr
~Ф42.9	KRUZ 425 □ FH		H(7xD)			340		IDH 425, IDH 426, IDH				IVIOXIZ	3.01111
			L(10xD)		507	468		IDSH 425, IDSH 426, IDSH	427, IDSH 428, IDSH 429				
420	VTD: 420 🗆 FII		T(3xD)	282		172		IDPH 430, IDPH 431, IDPH	432, IDPH 433, IDPH 434				
Ф43.0	YTDI 430 □ FH		P(5xD)	368		258		IDFH 430, IDFH 431, IDFH					
~Ф43.4	KRUZ 430 □ FH		H(7xD)	454		344		IDH 430, IDH 431, IDH IDSH 430, IDSH 431, IDSH					
			L(10xD)			473		· ' '	<u> </u>	-			
Ф43.5	YTDI 435 □ FH		T(3xD)	284		174		IDPH 435, IDPH 436, IDPH	· ·				
			P(5xD) H(7xD)	371 458	301 388	261 348		IDFH 435, IDFH 436, IDFH IDH 435, IDH 436, IDH					
~Ф43.9	KRUZ 435 □ FH		L(10xD)			479		IDSH 435, IDSH 436, IDSH					
			T(3xD)	287	217	176		IDDII 440 IDDII 444 IDDII	442 IDDU 442 IDDU 444				
Ф44.0	YTDI 440 □ FH			375	_	264		IDPH 440, IDPH 441, IDPH IDFH 440, IDFH 441, IDFH					
Ф44.4			H(7xD)			352		IDH 440, IDH 441, IDH					
~Ф44.4	KRUZ 440 □ FH		L(10xD)		_	484		IDSH 440, IDSH 441, IDSH					
			T(3xD)	289		178		IDPH 445, IDPH 446, IDPH	AA7 IDDH AAQ IDDH AAQ	†			
Ф44.5	YTDI 445 □ FH		P(5xD)	378		267		IDFH 445, IDFH 446, IDFH					
~Ф44.9	KRUZ 445 □ FH		H(7xD)	467	397	356		IDH 445, IDH 446, IDH					
·			L(10xD)		531	490		IDSH 445, IDSH 446, IDSH	447, IDSH 448, IDSH 449				
			T(3xD)	291	221	180		IDPH 450, IDPH 451, IDPH	452, IDPH 453, IDPH 454				
Ф 45.0	YTDI 450 □ FH		P(5xD)	381	311	270		IDFH 450, IDFH 451, IDFH		CS 450			
	KRUZ 450 □ FH		H(7xD)	471	401	360		IDH 450, IDH 451, IDH IDSH 450, IDSH 451, IDSH		-500 SL			
~Ф45.4	KNUZ 430 LI FR	l			536								



KRUZ "H"系列,法兰+大螺旋角刀体与硬质合金钻尖

孔径 范围	刀体型号		切削深度 (倍x孔径)	L1	L2	L3	法兰直径 (ΦFd)	适合刀体的刀片型号	锁紧螺栓	梅花型螺批	定位螺钉	"1"型内六角扳手
708			T(3xD)	294	224	182	(IDDIL AFE IDDIL AFC IDDIL AFT IDDIL AFO IDDIL AFO		W	-	
Ф45.5	YTDI 455 □ FH		P(5xD)	385	315	273		IDPH 455, IDPH 456, IDPH 457, IDPH 458, IDPH 459 IDFH 455, IDFH 456, IDFH 457, IDFH 458, IDFH 459				
~Ф45.9	KRUZ 455 □ FH		H(7xD)	476	406	364		IDH 455, IDH 456, IDH 457, IDH 458, IDH 459				
, 1010			L(10xD)	613	543	501		IDSH 455, IDSH 456, IDSH 457, IDSH 458, IDSH 459				
			T(3xD)	296	226	184		IDPH 460, IDPH 461, IDPH 462, IDPH 463, IDPH 464				
Ф 46.0	YTDI 460 □ FH		P(5xD)	388	318	276		IDFH 460, IDFH 461, IDFH 462, IDFH 463, IDFH 464				
~Ф46.4	KRUZ 460 □ FH		H(7xD)	480	410	368		IDH 460, IDH 461, IDH 462, IDH 463, IDH 464				
			L(10xD)	618	548	506		IDSH 460, IDSH 461, IDSH 462, IDSH 463, IDSH 464				
			T(3xD)	299	229	186		IDPH 465, IDPH 466, IDPH 467, IDPH 468, IDPH 469				
Ф46.5	YTDI 465 □ FH		P(5xD)	392	322	279		IDFH 465, IDFH 466, IDFH 467, IDFH 468, IDFH 469				
~Ф46.9	KRUZ 465 □ FH		H(7xD)	485	415	372		IDH 465, IDH 466, IDH 467, IDH 468, IDH 469				
			L(10xD)	625	555	512		IDSH 465, IDSH 466, IDSH 467, IDSH 468, IDSH 469				
			T(3xD)	301	231	188		IDPH 470, IDPH 471, IDPH 472, IDPH 473, IDPH 474				
Ф47.0	YTDI 470 □ FH		P(5xD)	395	325	282		IDFH 470, IDFH 471, IDFH 472, IDFH 473, IDFH 474				
~Ф47.4	KRUZ 470 □ FH		H(7xD)	489	419	376		IDH 470, IDH 471, IDH 472, IDH 473, IDH 474 IDSH 470, IDSH 471, IDSH 472, IDSH 473, IDSH 474				
			· /		560	517		10311 470, 10311 471, 10311 472, 10311 473, 10311 474				
Ф47.5	YTDI 475 □ FH		T(3xD)	303	233	190		IDPH 475, IDPH 476, IDPH 477, IDPH 478, IDPH 479				
Ψ47.5	Y I DI 4/5 LI FH		P(5xD)	398	328	285		IDFH 475, IDFH 476, IDFH 477, IDFH 478, IDFH 479		T0.0		
~Ф47.9	KRUZ 475 □ FH		H(7xD)	493	423	380		IDH 475, IDH 476, IDH 477, IDH 478, IDH 479 IDSH 475, IDSH 476, IDSH 477, IDSH 478, IDSH 479		T20		
		40.0	L(10xD)	636	566	523	55		CS 450 -500 SL	扭矩	M6x12	3.0mm
Ф48.0	YTDI 480 □ FH		T(3xD)	306	236	192		IDPH 480, IDPH 481, IDPH 482, IDPH 483, IDPH 484	-300 3L	5.0Nm		
			P(5xD)	402	332	288		IDFH 480, IDFH 481, IDFH 482, IDFH 483, IDFH 484 IDH 480, IDH 481, IDH 482, IDH 483, IDH 484		(最大)		
~Ф48.4	KRUZ 480 □ FH		H(7xD) L(10xD)	498 642	428 572	384 528		IDSH 480, IDSH 481, IDSH 482, IDSH 483, IDSH 484				
			T(3xD)	308	238	194						
Ф48.5	YTDI 485 □ FH		P(5xD)	405	335	291		IDPH 485, IDPH 486, IDPH 487, IDPH 488, IDPH 489 IDFH 485, IDFH 486, IDFH 487, IDFH 488, IDFH 489				
* 40.0			H(7xD)	502	432	388		IDH 485, IDH 486, IDH 487, IDH 488, IDH 489				
~Ф48.9	KRUZ 485 □ FH		L(10xD)	648	578	534		IDSH 485, IDSH 486, IDSH 487, IDSH 488, IDSH 489				
			T(3xD)	311	241	196		IDDIL 400 IDDIL 404 IDDIL 403 IDDIL 403 IDDIL 404				
Ф49.0	YTDI 490 □ FH		P(5xD)	409	339	294		IDPH 490, IDPH 491, IDPH 492, IDPH 493, IDPH 494 IDFH 490, IDFH 491, IDFH 492, IDFH 493, IDFH 494				
~Φ 49.4	KRUZ 490 □ FH		H(7xD)	507	437	392		IDH 490, IDH 491, IDH 492, IDH 493, IDH 494				
Ψ43.4	KK02 430 🗆 111		L(10xD)	654	584	539		IDSH 490, IDSH 491, IDSH 492, IDSH 493, IDSH 494				
			T(3xD)	313	243	198		IDPH 495, IDPH 496, IDPH 497, IDPH 498, IDPH 499				
Ф49.5	YTDI 495 □ FH		P(5xD)	412	342	297		IDFH 495, IDFH 496, IDFH 497, IDFH 498, IDFH 499				
~Ф49.9	KRUZ 495 □ FH		H(7xD)	511	441	396		IDH 495, IDH 496, IDH 497, IDH 498, IDH 499				
			L(10xD)	660	590	545		IDSH 495, IDSH 496, IDSH 497, IDSH 498, IDSH 499				
			T(3xD)	315	245	200		IDPH 500, IDPH 501, IDPH 502, IDPH 503, IDPH 504				
Ф 50.0	YTDI 500 □ FH		P(5xD)	415	345	300		IDFH 500, IDFH 501, IDFH 502, IDFH 503, IDFH 504				
~Ф50.4	KRUZ 500 □ FH		H(7xD)	515	445	400		IDH 500, IDH 501, IDH 502, IDH 503, IDH 504				
			L(10xD)	665	595	550		IDSH 500, IDSH 501, IDSH 502, IDSH 503, IDSH 504				

KRUZ-FH钻头系列, 推荐切削参数

	钻头直径	Ф8-	~16mm	Ф16	~25mm	Ф 25	~32mm	Ф 32	~40mm	Ф40	~50mm
工件材质	切削参数	线速度 (m/分钟)	进给量 (mm/转)								
灰□铸铁	(FC)	80~150	0.20~0.30	80~150	0.25~0.45	80~160	0.35~0.55	90~200	0.34~0.58	90~200	0.38~0.60
球墨铸铁	(FCD)	80~140	0.15~0.25	80~140	0.22~0.45	80~150	0.32~0.52	90~160	0.35~0.62	90~200	0.38~0.60
中碳钢	(S45C)	80~140	0.15~0.30	80~140	0.16~0.40	80~150	0.20~0.40	80~150	0.22~0.48	80~160	0.25~0.54
合金钢 (s	CM440)	70~140	0.15~0.30	70~140	0.15~0.40	70~140	0.18~0.40	80~140	0.25~0.47	80~140	0.27~0.52
淬硬钢	(SKD11)	40~50	0.10~0.20	40~50	0.12~0.28	40~50	0.16~0.35	40~60	0.20~0.38	40~60	0.22~0.42
不锈钢	(SUS)	30~40	0.10~0.20	35~50	0.10~0.22	35~50	0.15~0.28	40~55	0.18~0.30	40~55	0.22~0.32
铝130HB	(AL)	120~200	0.20~0.30	120~200	0.25~0.40	120~200	0.30~0.45	120~200	0.30~0.45	120~200	0.30~0.50

[☞] 上述推荐切削参数以3xD为准。当在5xD, 7xD或10xD时,根据工况下降15~20%切削速度。

KRUZ "K"系列刀体与硬质合金钻尖

注意!!!

"K"系列钻尖(IDFK或IDPK),

只专用"K"系列刀体(KRUZ-SLK或FSLK),请勿失误。

IDFK 硬质合金钻尖(刀片)

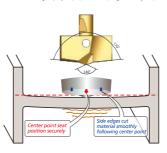
- 硬质合金刀片, 全部由CNC磨削程序来完成
- 140°+170°双角度结合平底钻尖,是我公司的专利品
- TiAIN涂层钻尖,具有优秀耐磨性和高进给加工性能
- 该系列是对型钢、角钢或薄板的钻孔,针对性地设计的产物

IDPK 硬质合金钻尖(刀片)

- 硬质合金刀片, 全部由CNC磨削程序来完成
- 120°+150°双角度结合钻尖角,是我公司的专利品
- TiAIN涂层钻尖,具有优秀耐磨性和高进给加工性能
- 优化的合理设计结构,适于多层叠加薄板的孔加工

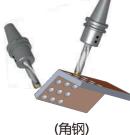
KRUZ-SLK / KRUZ-FSLK 钻头刀体

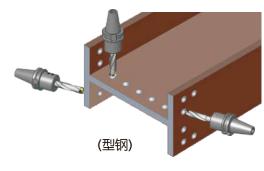
- 刀体采用经过特殊热处理的优质工具钢,具有很好的刚性
- TIN涂层的刀体,保证更长的刀具寿命和更好的润滑性能
- 经特殊设计的螺旋角和容屑槽,增加排屑性能,使屑更快地向外弹出
- 在0.5mm范围内,可通用IDFK与IDPK钻尖(刀片)
- 短而粗的刀体结构,对结构钢可最大发挥钻孔能力
- 内冷设计,提高效率、延长刀具寿命











(多层叠加的钢板)

钢构用

KRUZ-FSLK

(加工案例)

(钢板)





(专用钻床A)

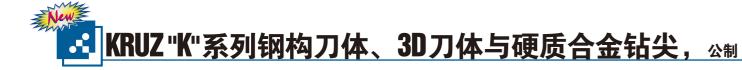


15 <u>Yes</u>



[☞] 上述推荐切削参数以正常工况和油污冷却(MQL)为准。

如果加工设备(机床)状态不好,或工件夹具(JIG)不合理,就会影响最佳切削速度的发挥。







适于加工型钢、角钢、单板





IDPK 适于加工多层叠加板

专为结构钢加工设备而设计的钻尖(刀片)

孔径(Φ)	 钢构刀体型号		尺寸		3xD刀体型号		尺寸		刀柄		锁紧螺栓	梅花型螺批	定位螺钉	"1"型内六角扳手
mm	例例の体型与	L1	L2	L3	300万件至5	L1	L2	L3	(Φd)	IDFK IDPK			9	
12.0~12.4	KRUZ 120 L3=50 SLK				KRUZ 120T SLK	105	57			IDFK 120~124 IDPK 120~124		T6		
12.5~12.9	KRUZ 125 L3=50 SLK				KRUZ 125T SLK	110	62	50		IDFK 125~129 IDPK 125~129	CS 120	Torque		
13.0~13.4	KRUZ 130 L3=50 SLK	110	62		KRUZ 130T SLK	110	02		16	IDFK 130~134 IDPK 130~134	-135 SL	0.6Nm		
13.5~13.9	KRUZ 135 L3=50 SLK	110	02		KRUZ 135T SLK	115	67	55	10	IDFK 135~139 IDPK 135~139		(Max)		
14.0~14.4	KRUZ 140 L3=50 SLK				KRUZ 140T SLK	113				IDFK 140~144 IDPK 140~144				
14.5~14.9	KRUZ 145 L3=50 SLK				KRUZ 145T SLK			58		IDFK 145~149 IDPK 145~149	CS 140			
15.0~15.4	KRUZ 150 L3=50 SLK				KRUZ 150T SLK	125	75	60		IDFK 150~154 IDPK 150~154	-155 SL	T7		
15.5~15.9	KRUZ 155 L3=50 SLK	115	65		KRUZ 155T SLK					IDFK 155~159 IDPK 155~159		Torque	M2.5x4	1.3mm
16.0~16.4	KRUZ 160 L3=50 SLK	115	03		KRUZ 160T SLK					IDFK 160~164 IDPK 160~164		0.9Nm	IVIZ.JA	1.5111111
16.5~16.9	KRUZ 165 L3=50 SLK				KRUZ 165T SLK	130	80	62		IDFK 165~169 IDPK 165~169	CS 160	(Max)		
17.0~17.4	KRUZ 170 L3=50 SLK				KRUZ 170T SLK	130		02	20	IDFK 170~174 IDPK 170~174	-175 SL			
17.5~17.9	KRUZ 175 L3=50 SLK				KRUZ 175T SLK				20	IDFK 175~179 IDPK 175~179				
18.0~18.4	KRUZ 180 L3=50 SLK	118	68		KRUZ 180T SLK					IDFK 180~184 IDPK 180~184				
18.5~18.9	KRUZ 185 L3=50 SLK	1.0			KRUZ 185T SLK	140	90			IDFK 185~189 IDPK 185~189	CS 180			
19.0~19.4	KRUZ 190 L3=50 SLK				KRUZ 190T SLK	140	50			IDFK 190~194 IDPK 190~194	-195 SL			
19.5~19.9	KRUZ 195 L3=50 SLK				KRUZ 195T SLK			70		IDFK 195~199 IDPK 195~199				
20.0~20.4	KRUZ 200 L3=50 SLK				KRUZ 200T SLK			, ,		IDFK 200~204 IDPK 200~204		T8		
20.5~20.9	KRUZ 205 L3=50 SLK			50	KRUZ 205T SLK	150	94			IDFK 205~209 IDPK 205~209	CS 200	Torque		
21.0~21.4	KRUZ 210 L3=50 SLK			50	KRUZ 210T SLK	130	54			IDFK 210~214 IDPK 210~214	-215 SL	1.5Nm		
21.5~21.9	KRUZ 215 L3=50 SLK	130	74		KRUZ 215T SLK				25	IDFK 215~219 IDPK 215~219		(Max)		
22.0~22.4	KRUZ 220 L3=50 SLK	130	′¯		KRUZ 220T SLK				23	IDFK 220~224 IDPK 220~224				
22.5~22.9	KRUZ 225 L3=50 SLK				KRUZ 225T SLK	160	104	80		IDFK 225~229 IDPK 225~229	CS 220			
23.0~23.4	KRUZ 230 L3=50 SLK				KRUZ 230T SLK	100	104	80		IDFK 230~234 IDPK 230~234	-235 SL		М3х6	1.5mm
23.5~23.9	KRUZ 235 L3=50 SLK				KRUZ 235T SLK					IDFK 235~239 IDPK 235~239			IVIDAU	1.5111111
24.0~24.4	KRUZ 240 L3=50 SLK				KRUZ 240T SLK					IDFK 240~244 IDPK 240~244				
24.5~24.9	KRUZ 245 L3=50 SLK	136	76		KRUZ 245T SLK	170	110	84		IDFK 245~249 IDPK 245~249	CS 240			
25.0~25.4	KRUZ 250 L3=50 SLK	130	/ 0		KRUZ 250T SLK	170	110	04		IDFK 250~254 IDPK 250~254	-255 SL			
25.5~25.9	KRUZ 255 L3=50 SLK				KRUZ 255T SLK					IDFK 255~259 IDPK 255~259				
26.0~26.4	KRUZ 260 L3=50 SLK				KRUZ 260T SLK					IDFK 260~264 IDPK 260~264		T15		
26.5~26.9	KRUZ 265 L3=50 SLK				KRUZ 265T SLK	180	120	90	32	IDFK 265~269 IDPK 265~269	CS 260	Torque		
27.0~27.4	KRUZ 270 L3=50 SLK				KRUZ 270T SLK	160	120	90	32	IDFK 270~274 IDPK 270~274	-275 SL	3.5Nm		
27.5~27.9	KRUZ 275 L3=50 SLK	140	80		KRUZ 275T SLK					IDFK 275~279 IDPK 275~279		(Max)		
28.0~28.4	KRUZ 280 L3=50 SLK	140	00		KRUZ 280T SLK					IDFK 280~284 IDPK 280~284			NAAv0	2 0mm
28.5~28.9	KRUZ 285 L3=50 SLK				KRUZ 285T SLK	100	120	100		IDFK 285~289 IDPK 285~289	CS 280		M4x8	2.0mm
29.0~29.4	KRUZ 290 L3=50 SLK				KRUZ 290T SLK	190	130	100		IDFK 290~294 IDPK 290~294	-295 SL			
29.5~29.9	KRUZ 295 L3=50 SLK				KRUZ 295T SLK					IDFK 295~299 IDPK 295~299				

专为结构钢加工设备而设计的钻尖(刀片)

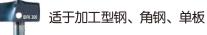
孔径(Φ)	钢构刀体型号		下 寸		3xD刀体型号		下 寸		刀柄	10FE 200	锁紧螺栓	梅花型螺批		"""型内六角扳手
mm		L1	L2	L3		L1	L2	L3	(Фd)	IDFK 300~304			8	
30.0~30.4	KRUZ 300 L3=70 SLK				KRUZ 300T SLK					IDPK 300~304 IDFK 305~309			M4x8	2.0mm
30.5~30.9	KRUZ 305 L3=70 SLK				KRUZ 305T SLK	200	140			IDPK 305~309 IDFK 310~314	CS 300 -315 SL			
31.0~31.4	KRUZ 310 L3=70 SLK				KRUZ 310T SLK					IDFK 310~314 IDFK 315~319	-515 JL			
31.5~31.9	KRUZ 315 L3=70 SLK	155	95	70	KRUZ 315T SLK			110	32	IDPK 315~319 IDFK 320~324				
32.0~32.4	KRUZ 320 L3=70 SLK				KRUZ 320T SLK					IDPK 320~324 IDPK 320~324 IDFK 325~329				
32.5~32.9	KRUZ 325 L3=70 SLK				KRUZ 325T SLK	210	150			IDFK 325~329 IDFK 325~329 IDFK 330~334				
33.0~33.4	KRUZ 330 L3=70 SLK				KRUZ 330T SLK					IDPK 330~334				
33.5~33.9	KRUZ 335 L3=70 SLK				KRUZ 335T SLK					IDFK 335~339 IDPK 335~339	CS 320			
34.0~34.4	KRUZ 340 L3=80 SLK				KRUZ 340T SLK					IDFK 340~344 IDPK 340~344	-355 SL			
34.5~34.9	KRUZ 345 L3=80 SLK				KRUZ 345T SLK	230	160	120		IDFK 345~349 IDPK 345~349				
35.0~35.4	KRUZ 350 L3=80 SLK				KRUZ 350T SLK					IDFK 350~354 IDPK 350~354			M5x10	2.5mm
35.5~35.9	KRUZ 355 L3=80 SLK				KRUZ 355T SLK					IDFK 355~359 IDPK 355~359				
36.0~36.4	KRUZ 360 L3=80 SLK				KRUZ 360T SLK					IDFK 360~364 IDPK 360~364				
36.5~36.9	KRUZ 365 L3=80 SLK				KRUZ 365T SLK			130		IDFK 365~369 IDPK 365~369				
37.0~37.4	KRUZ 370 L3=80 SLK	180	110		KRUZ 370T SLK			,50		IDFK 370~374 IDPK 370~374				
37.5~37.9	KRUZ 375 L3=80 SLK	100			KRUZ 375T SLK	250	180			IDFK 375~379 IDPK 375~379	CS 360			
38.0~38.4	KRUZ 380 L3=80 SLK				KRUZ 380T SLK		100			IDFK 380~384 IDPK 380~384	-395 SL			
38.5~38.9	KRUZ 385 L3=80 SLK				KRUZ 385T SLK			137		IDFK 385~389 IDPK 385~389				
39.0~39.4	KRUZ 390 L3=80 SLK				KRUZ 390T SLK			157		IDFK 390~394 IDPK 390~394				
39.5~39.9	KRUZ 395 L3=80 SLK				KRUZ 395T SLK					IDFK 395~399 IDPK 395~399		T20		
40.0~40.4	KRUZ 400 L3=80 SLK				KRUZ 400T SLK					IDFK 400~404 IDPK 400~404		Torque 5.0Nm		
40.5~40.9	KRUZ 405 L3=80 SLK			80	KRUZ 405T SLK			143		IDFK 405~409 IDPK 405~409		(Max)		
41.0~41.4	KRUZ 410 L3=80 SLK			00	KRUZ 410T SLK			145		IDFK 410~414 IDPK 410~414				
41.5~41.9	KRUZ 415 L3=80 SLK				KRUZ 415T SLK	270	200			IDFK 415~419 IDPK 415~419				
42.0~42.4	KRUZ 420 L3=80 SLK				KRUZ 420T SLK	270	200		40	IDFK 420~424 IDPK 420~424	CS 400			
42.5~42.9	KRUZ 425 L3=80 SLK				KRUZ 425T SLK			150		IDFK 425~429 IDPK 425~429	-445 SL			
43.0~43.4	KRUZ 430 L3=80 SLK				KRUZ 430T SLK			130		IDFK 430~434 IDPK 430~434				
43.5~43.9	KRUZ 435 L3=80 SLK				KRUZ 435T SLK					IDFK 435~439 IDPK 435~439				
44.0~44.4	KRUZ 440 L3=80 SLK	185	115		KRUZ 440T SLK					IDFK 440~444 IDPK 440~444				
44.5~44.9	KRUZ 445 L3=80 SLK	163	113		KRUZ 445T SLK			158		IDFK 445~449 IDPK 445~449				
45.0~45.4	KRUZ 450 L3=80 SLK				KRUZ 450T SLK			130		IDFK 450~454 IDPK 450~454			M6x12	3.0mm
45.5~45.9	KRUZ 455 L3=80 SLK				KRUZ 455T SLK	200	210			IDFK 455~459 IDPK 455~459				
46.0~46.4	KRUZ 460 L3=80 SLK				KRUZ 460T SLK	280	210			IDFK 460~464 IDPK 460~464				
46.5~46.9	KRUZ 465 L3=80 SLK				KRUZ 465T SLK			165		IDFK 465~469 IDPK 465~469				
47.0~47.4	KRUZ 470 L3=80 SLK				KRUZ 470T SLK			165		IDFK 470~474 IDPK 470~474				
47.5~47.9	KRUZ 475 L3=80 SLK				KRUZ 475T SLK					IDFK 475~479 IDPK 475~479	CS 450 -500 SL			
48.0~48.4	KRUZ 480 L3=90 SLK				KRUZ 480T SLK					IDFK 480~484 IDPK 480~484	30002			
48.5~48.9	KRUZ 485 L3=90 SLK				KRUZ 485T SLK					IDFK 485~489 IDPK 485~489				
49.0~49.4	KRUZ 490 L3=90 SLK	200	130	90	KRUZ 490T SLK	300	230	172		IDFK 490~494 IDPK 490~494				
49.5~49.9	KRUZ 495 L3=90 SLK				KRUZ 495T SLK					IDFK 495~499 IDPK 495~499				
50.0~50.4	KRUZ 500 L3=90 SLK				KRUZ 500T SLK					IDFK 500~504 IDPK 500~504				



KRUZ "K"系列刀体与硬质合金钻尖,英制



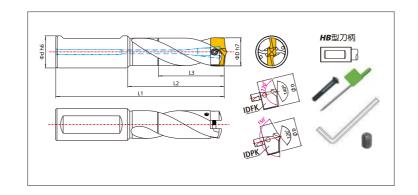












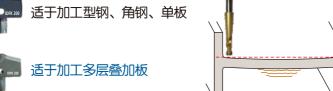
1, 2, 2, 2, ,	山上汉台川汉川田		7 1 7	尺寸			- A	
孔径(Φ) 十进制	刀体型号	刀柄 (Φd)	L1	L2	L3	钻尖IDFK IDFK	钻尖IDPK IDPK	可替代的公制刀体
.4724~.4917	KRUZ .4724 SLK					IDFK 31/64"(12.30mm)	IDPK 31/64"(12.30mm)	KRUZ 120 L3=50 SLK
.4921~.5114	KRUZ .4921 SLK					IDFK 1/2"(12.70mm)	IDPK 1/2"(12.70mm)	KRUZ 125 L3=50 SLK
.5118~.5311	KRUZ .5118 SLK	5/8	4.3307	2.4409		IDFK 33/64"(13.10mm)	IDPK 33/64"(13.10mm)	KRUZ 130 L3=50 SLK
.5315~.5508	KRUZ .5315 SLK	(15.875mm)	(110mm)	(62mm)		IDFK 17/32"(13.49mm)	IDPK 17/32"(13.49mm)	KRUZ 135 L3=50 SLK
.5512~.5705	KRUZ .5512 SLK					IDFK 9/16"(14.29mm)	IDPK 9/16"(14.29mm)	KRUZ 140 L3=50 SLK
.5709~.5902	KRUZ .5709 SLK					IDFK 37/64"(14.68mm)	IDPK 37/64"(14.68mm)	KRUZ 145 L3=50 SLK
.5906~.6098	KRUZ .5906 SLK					IDFK 19/32"(15.08mm), IDFK 39/64"(15.48mm)	IDPK 19/32"(15.08mm), IDPK 39/64"(15.48mm)	KRUZ 150 L3=50 SLK
.6102~.6295	KRUZ .6102 SLK		4.5276	2.5591		IDFK 5/8"(15.88mm)	IDPK 5/8"(15.88mm)	KRUZ 155 L3=50 SLK
.6299~.6492	KRUZ .6299 SLK		(115mm)	(65mm)		IDFK 41/64"(16.27mm)	IDPK 41/64"(16.27mm)	KRUZ 160 L3=50 SLK
.6496~.6689	KRUZ .6496 SLK					IDFK 21/32"(16.67mm)	IDPK 21/32"(16.67mm)	KRUZ 165 L3=50 SLK
.6693~.6886	KRUZ .6693 SLK	3/4				IDFK 43/64"(17.07mm), IDFK 11/16"(17.46mm)	IDPK 43/64"(17.07mm), IDPK 11/16"(17.46mm)	KRUZ 170 L3=50 SLK
.6890~.7083	KRUZ .6890 SLK	(19.05mm)				IDFK 45/64"(17.86mm)	IDPK 45/64"(17.86mm)	KRUZ 175 L3=50 SLK
.7087~.7280	KRUZ .7087 SLK		4.6457	2.6772		IDFK 23/32"(18.26mm)	IDPK 23/32"(18.26mm)	KRUZ 180 L3=50 SLK
.7283~.7476	KRUZ .7283 SLK]	(118mm)	(68mm)		IDFK 47/64"(18.65mm)	IDPK 47/64"(18.65mm)	KRUZ 185 L3=50 SLK
.7480~.7673	KRUZ .7480 SLK					IDFK 3/4(19.05mm), IDFK 49/64"(19.45mm)	IDPK 3/4(19.05mm), IDPK 49/64"(19.45mm)	KRUZ 190 L3=50 SLK
.7677~.7870	KRUZ .7677 SLK				1.9685	IDFK 25/32"(19.84mm)	IDPK 25/32"(19.84mm)	KRUZ 195 L3=50 SLK
.7874~.8067	KRUZ .7874 SLK				(50mm)	IDFK 51/64"(20.24mm)	IDPK 51/64"(20.24mm)	KRUZ 200 L3=50 SLK
.8071~.8264	KRUZ .8071 SLK				,	IDFK 13/16"(20.64mm)	IDPK 13/16"(20.64mm)	KRUZ 205 L3=50 SLK
.8268~.8461	KRUZ .8268 SLK					IDFK 27/32"(21.43mm)	IDPK 27/32"(21.43mm)	KRUZ 210 L3=50 SLK
.8465~.8657	KRUZ .8465 SLK	1"	5.1181	2.9134		IDFK 55/64"(21.83mm)	IDPK 55/64"(21.83mm)	KRUZ 215 L3=50 SLK
.8661~.8854	KRUZ .8661 SLK	(25.4mm)	(130mm)	(74mm)		IDFK 7/8"(22.23mm)	IDPK 7/8"(22.23mm)	KRUZ 220 L3=50 SLK
.8858~.9051	KRUZ .8858 SLK					IDFK 57/64"(22.62mm)	IDPK 57/64"(22.62mm)	KRUZ 225 L3=50 SLK
.9055~.9248	KRUZ .9055 SLK	-				IDFK 29/32"(23.02mm), IDFK 59/64"(23.42mm)	IDPK 29/32"(23.02mm), IDPK 59/64"(23.42mm)	KRUZ 230 L3=50 SLK
.9252~.9445	KRUZ .9252 SLK					IDFK 15/16"(23.81mm)	IDPK 15/16"(23.81mm)	KRUZ 235 L3=50 SLK
.9646~.9839	KRUZ .9646 SLK		5.3543	2.9921		IDFK 31/32"(24.61mm)	IDPK 31/32"(24.61mm)	KRUZ 245 L3=50 SLK
.9843~1.0035	KRUZ .9843 SLK		(136mm)	(76mm)		IDFK 63/64"(25.00mm), IDFK 1"(25.4mm)	IDPK 63/64"(25.00mm), IDPK 1"(25.4mm)	KRUZ 250 L3=50 SLK
1.0039~1.0232	KRUZ 1.0039 SLK					IDFK 1-1/64"(25.80mm)	IDPK 1-1/64"(25.80mm)	KRUZ 255 L3=50 SLK
1.0236~1.0429	KRUZ 1.0236 SLK					IDFK 1-1/32"(26.19mm)	IDPK 1-1/32"(26.19mm)	KRUZ 260 L3=50 SLK
1.0433~1.0626	KRUZ 1.0433 SLK					IDFK 1-3/64"(26.59mm), IDFK 1-1/16"(26.99mm)	IDPK 1-3/64"(26.59mm), IDPK 1-1/16"(26.99mm)	KRUZ 265 L3=50 SLK
1.0827~1.1020	KRUZ 1.0827 SLK		5.5118	3.1496		IDFK 1-3/32"(27.78mm)	IDPK 1-3/32"(27.78mm)	KRUZ 275 L3=50 SLK
1.1024~1.1217	KRUZ 1.1024 SLK		(140mm)	(80mm)		IDFK 1-7/64"(28.18mm)	IDPK 1-7/64"(28.18mm)	KRUZ 280 L3=50 SLK
1.1220~1.1413	KRUZ 1.1220 SLK	1 1/4				IDFK 1-1/8"(28.58mm)	IDPK 1-1/8"(28.58mm)	KRUZ 285 L3=50 SLK
1.1417~1.1610	KRUZ 1.1417 SLK	(31.75mm)				IDFK 1-5/32"(29.37mm)	IDPK 1-5/32"(29.37mm)	KRUZ 290 L3=50 SLK
1.1811~1.2004	KRUZ 1.1811 SLK	_				IDFK 1-3/16"(30.16mm)	IDPK 1-3/16"(30.16mm)	KRUZ 300 L3=50 SLK
1.2008~1.2201	KRUZ 1.2008 SLK		6.1024	3.7402	2.7559	IDFK 1-7/32"(30.96mm)	IDPK 1-7/32"(30.96mm)	KRUZ 305 L3=50 SLK
1.2402~1.2594	KRUZ 1.2402 SLK		(155mm)	(95mm)	(70mm)	IDFK 1-1/4"(31.75mm)	IDPK 1-1/4"(31.75mm)	KRUZ 315 L3=50 SLK
1.2795~1.2988	KRUZ 1.2795 SLK					IDFK 1-9/32"(32.54mm)	IDPK 1-9/32"(32.54mm)	KRUZ 325 L3=50 SLK
1.2992~1.3185	KRUZ 1.2992 SLK	_				IDFK 1-5/16"(33.34mm)	IDPK 1-5/16"(33.34mm)	KRUZ 330 L3=50 SLK
1.3386~1.3579	KRUZ 1.3386 SLK	-	7.0866	4.3307	3.1496	IDFK 1-11/32"(34.13mm)	IDPK 1-11/32"(34.13mm)	KRUZ 340 L3=50 SLK
1.3583~1.3776	KRUZ 1.3583 SLK		(180mm)	(110mm)	(80mm)	IDFK 1-3/8"(34.93mm)	IDPK 1-3/8"(34.93mm)	KRUZ 345 L3=50 SLK

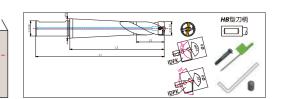
☞ 请参照最右侧表格所示公制刀体, 欲替代的刀体是否适合安装在目前使用的刀柄。

KRUZ-FSLK法兰刀体⑸与IDFK&IDPK钻尖



- ▶ 如存在干涉等情况,需较长的悬长时,最为理想的刀体
- ▶ 孔深可加工到接近法兰部分(5倍径)
- ▶最小化的螺旋槽和更长的圆柱形颈部设计
- ▶比普通的5xD钻头刚度更好
- ▶ 内冷设计
- ▶ 带法兰的锥形刀体更提高刚性,能减少抖动或振动





专为结构钢加工设备而设计的钻尖(刀片)

孔径(Φ)	7件型2	刀柄		R 寸		法兰直径	EL/NDEK MAN	E E/IVIDDIK	锁紧螺栓	梅花型螺批	定位螺钉	"L"型内六角扳手
mm συπ(Ψ)	刀体型号	(Φd)	L1	L2	L3	(ΦFd)	钻尖IDFK IDFK	钻尖IDPK IDPK		77	8	
12.0~12.4	KRUZ 120P FL50 FSLK		133	85			IDFK 120, IDFK 121, IDFK 1 IDPK 120, IDPK 121, IDPK 1			T6		
12.5~12.9	KRUZ 125P FL50 FSLK		136	88			IDFK 125, IDFK 126, IDFK 1 IDPK 125, IDPK 126, IDPK 1		CS 120	Torque		
13.0~13.4	KRUZ 130P FL50 FSLK	16	140	92		21	IDFK 130, IDFK 131, IDFK 1 IDPK 130, IDPK 131, IDPK 1		-135 SL	0.6Nm		
13.5~13.9	KRUZ 135P FL50 FSLK	10	143	95		21	IDFK 135, IDFK 136, IDFK 1 IDPK 135, IDPK 136, IDPK 1			(Max)		
14.0~14.4	KRUZ 140P FL50 FSLK		147	99			IDFK 140, IDFK 141, IDFK 1 IDPK 140, IDPK 141, IDPK 1					
14.5~14.9	KRUZ 145P FL50 FSLK		150	102			IDFK 145, IDFK 146, IDFK 1 IDPK 145, IDPK 146, IDPK 1		CS 140			
15.0~15.4	KRUZ 150P FL50 FSLK		157	107			IDFK 150, IDFK 151, IDFK 1 IDPK 150, IDPK 151, IDPK 1		-155 SL	T7		
15.5~15.9	KRUZ 155P FL50 FSLK		161	111			IDFK 155, IDFK 156, IDFK 1 IDPK 155, IDPK 156, IDPK 1			Torque	M2.5x4	1.3mm
16.0~16.4	KRUZ 160P FL50 FSLK		164	114			IDFK 160, IDFK 161, IDFK 1 IDPK 160, IDPK 161, IDPK 1			0.9Nm	1V1Z.JA 4	1.5111111
16.5~16.9	KRUZ 165P FL50 FSLK		168	118			IDFK 165, IDFK 166, IDFK 1 IDPK 165, IDPK 166, IDPK 1	167, IDPK 168, IDPK 169	CS 160	(Max)		
17.0~17.4	KRUZ 170P FL50 FSLK	20	171	121		27	IDFK 170, IDFK 171, IDFK 1 IDPK 170, IDPK 171, IDPK 1	172, IDPK 173, IDPK 174	-175 SL			
17.5~17.9	KRUZ 175P FL50 FSLK	20	174	124		21	IDFK 175, IDFK 176, IDFK 1 IDPK 175, IDPK 176, IDPK 1	177, IDPK 178, IDPK 179				
18.0~18.4	KRUZ 180P FL50 FSLK		178	128			IDFK 180, IDFK 181, IDFK 1 IDPK 180, IDPK 181, IDPK 1	182, IDPK 183, IDPK 184				
18.5~18.9	KRUZ 185P FL50 FSLK		181	131			IDFK 185, IDFK 186, IDFK 1 IDPK 185, IDPK 186, IDPK 1	187, IDPK 188, IDPK 189	CS 180			
19.0~19.4	KRUZ 190P FL50 FSLK		185	135			IDFK 190, IDFK 191, IDFK 1 IDPK 190, IDPK 191, IDPK 1	192, IDPK 193, IDPK 194	-195 SL			
19.5~19.9	KRUZ 195P FL50 FSLK		188	138			IDFK 195, IDFK 196, IDFK 1 IDPK 195, IDPK 196, IDPK 1	197, IDPK 198, IDPK 199				
20.0~20.4	KRUZ 200P FL50 FSLK		197	141			IDFK 200, IDFK 201, IDFK 2 IDPK 200, IDPK 201, IDPK 2	202, IDPK 203, IDPK 204		T8		
20.5~20.9	KRUZ 205P FL50 FSLK		201	145	50		IDFK 205, IDFK 206, IDFK 2 IDPK 205, IDPK 206, IDPK 2	207, IDPK 208, IDPK 209	CS 200	Torque		
21.0~21.4	KRUZ 210P FL50 FSLK		204	148			IDFK 210, IDFK 211, IDFK 2 IDPK 210, IDPK 211, IDPK 2	212, IDPK 213, IDPK 214	-215 SL	1.5Nm		
21.5~21.9	KRUZ 215P FL50 FSLK	25	208	152		32	IDFK 215, IDFK 216, IDFK 2 IDPK 215, IDPK 216, IDPK 2	217, IDPK 218, IDPK 219		(Max)		
22.0~22.4	KRUZ 220P FL50 FSLK		211	155			IDFK 220, IDFK 221, IDFK 2 IDPK 220, IDPK 221, IDPK 2	222, IDPK 223, IDPK 224	-			
22.5~22.9	KRUZ 225P FL50 FSLK		214	158			IDFK 225, IDFK 226, IDFK 2 IDPK 225, IDPK 226, IDPK 2	227, IDPK 228, IDPK 229	CS 220			
23.0~23.4	KRUZ 230P FL50 FSLK		218	162			IDFK 230, IDFK 231, IDFK 2 IDPK 230, IDPK 231, IDPK 2	232, IDPK 233, IDPK 234	-235 SL		М3х6	1.5mm
23.5~23.9	KRUZ 235P FL50 FSLK		221	165			IDFK 235, IDFK 236, IDFK 2 IDPK 235, IDPK 236, IDPK 2	237, IDPK 238, IDPK 239				
24.0~24.4	KRUZ 240P FL50 FSLK		229	169			IDFK 240, IDFK 241, IDFK 2 IDPK 240, IDPK 241, IDPK 2	242, IDPK 243, IDPK 244	-			
24.5~24.9	KRUZ 245P FL50 FSLK		232	172			IDFK 245, IDFK 246, IDFK 2 IDPK 245, IDPK 246, IDPK 2	247, IDPK 248, IDPK 249	CS 240			
25.0~25.4	KRUZ 250P FL50 FSLK		235	175			IDFK 250, IDFK 251, IDFK 2 IDPK 250, IDPK 251, IDPK 2	252, IDPK 253, IDPK 254	-255 SL			
25.5~25.9	KRUZ 255P FL50 FSLK		239	179			IDFK 255, IDFK 256, IDFK 2 IDPK 255, IDPK 256, IDPK 2 IDFK 260, IDFK 261, IDFK 2	257, IDPK 258, IDPK 259				
26.0~26.4	KRUZ 260P FL50 FSLK		242	182			IDPK 260, IDPK 261, IDPK 2	262, IDPK 263, IDPK 264	_	T15		
26.5~26.9	KRUZ 265P FL50 FSLK	32	246	186		39	IDFK 265, IDFK 266, IDFK 2 IDPK 265, IDPK 266, IDPK 2	267, IDPK 268, IDPK 269	CS 260	Torque		
27.0~27.4	KRUZ 270P FL50 FSLK		249	189			IDFK 270, IDFK 271, IDFK 2 IDPK 270, IDPK 271, IDPK 2 IDFK 275, IDFK 276, IDFK 2	272, IDPK 273, IDPK 274	-275 SL	3.5Nm (Max)		
27.5~27.9	KRUZ 275P FL50 FSLK		252	192			IDFK 275, IDFK 276, IDFK 2 IDFK 275, IDFK 276, IDFK 2 IDFK 280, IDFK 281, IDFK 2	277, IDPK 278, IDPK 279		(IVIAX)		
28.0~28.4	KRUZ 280P FL50 FSLK		256	196			IDFK 280, IDFK 281, IDFK 2 IDPK 280, IDPK 281, IDPK 2 IDFK 285, IDFK 286, IDFK 2	282, IDPK 283, IDPK 284	-		M4x8	2.0mm
28.5~28.9	KRUZ 285P FL50 FSLK		259	199			IDFK 285, IDFK 286, IDFK 2 IDFK 285, IDFK 286, IDFK 2 IDFK 290, IDFK 291, IDFK 2	287, IDPK 288, IDPK 289	CS 280 -295 SL			
29.0~29.4	KRUZ 290P FL50 FSLK		263	203			IDPK 290, IDPK 291, IDPK 2	292, IDPK 293, IDPK 294	-232 2L			
29.5~29.9	KRUZ 295P FL50 FSLK		266	206			IDFK 295, IDFK 296, IDFK 2 IDPK 295, IDPK 296, IDPK 2	297, IDPK 298, IDPK 299 297, IDPK 298, IDPK 299				

[☞] 上述未标出的尺寸, 可根据需求定制。

[☞] 如需英制刀柄上安装公制刀体,请参照合适的英制RSL(变径套)与相对应的公制尺寸。



KRUZ-FSLK法兰刀体⑸幼与IDFK&IDPK钻尖

专为结构钢加工设备而设计的钻尖(刀片)

	例的儿上这番!!!这	刀柄		で で で		法兰直径	th diversity to			梅花型螺批	定位螺钉	"1"型内六角扳手
孔径(Φ) mm	刀体型号	(Φd)	L1	L2	L3	(ΦFd)	钻尖IDFK 版	店尖IDPK	以永 斯 庄	で一番	人 图 第 2	T ±r I/ (MIX)
30.0~30.4	KRUZ 300P FL70 FSLK		269	209			IDFK 300, IDFK 301, IDFK 30 IDPK 300, IDPK 301, IDPK 30				MAVO	2 00000
30.5~30.9	KRUZ 305P FL70 FSLK		273	213			IDFK 305, IDFK 306, IDFK 30 IDPK 305, IDPK 306, IDPK 30		CS 300		M4x8	2.0mm
31.0~31.4	KRUZ 310P FL70 FSLK		276	216			IDFK 310, IDFK 311, IDFK 311DPK 310, IDPK 311, IDPK 31		-315 SL			
31.5~31.9	KRUZ 315P FL70 FSLK	32	280	220	70	39	IDFK 315, IDFK 316, IDFK 3110 IDFK 315, IDFK 316, IDFK 315					
32.0~32.4	KRUZ 320P FL70 FSLK	32	283	223	70	39	IDFK 320, IDFK 321, IDFK 32 IDPK 320, IDPK 321, IDPK 32					
32.5~32.9	KRUZ 325P FL70 FSLK		286	226			IDFK 325, IDFK 326, IDFK 32 IDPK 325, IDPK 326, IDPK 32					
33.0~33.4	KRUZ 330P FL70 FSLK		290	230			IDFK 330, IDFK 331, IDFK 33 IDPK 330, IDPK 331, IDPK 33	32, IDPK 333, IDPK 334				
33.5~33.9	KRUZ 335P FL70 FSLK		293	233			IDFK 335, IDFK 336, IDFK 33 IDPK 335, IDPK 336, IDPK 33	37, IDPK 338, IDPK 339	CS 320			
34.0~34.4	KRUZ 340P FL80 FSLK		307	237			IDFK 340, IDFK 341, IDFK 34 IDPK 340, IDPK 341, IDPK 34	42, IDPK 343, IDPK 344	-355 SL			
34.5~34.9	KRUZ 345P FL80 FSLK		310	240			IDFK 345, IDFK 346, IDFK 34 IDPK 345, IDPK 346, IDPK 34	47, IDPK 348, IDPK 349				
35.0~35.4	KRUZ 350P FL80 FSLK		313	243			IDFK 350, IDFK 351, IDFK 351, IDFK 351, IDPK 350, IDPK 351, IDPK 351, IDFK 351	52, IDPK 353, IDPK 354			M5x10	2.5mm
35.5~35.9	KRUZ 355P FL80 FSLK		317	247			IDFK 355, IDFK 356, IDFK 35 IDPK 355, IDPK 356, IDPK 35	57, IDPK 358, IDPK 359				
36.0~36.4	KRUZ 360P FL80 FSLK		320	250			IDFK 360, IDFK 361, IDFK 36 IDPK 360, IDPK 361, IDPK 36 IDFK 365, IDFK 366, IDFK 36	62, IDPK 363, IDPK 364				
36.5~36.9	KRUZ 365P FL80 FSLK		324	254			IDFK 365, IDFK 366, IDFK 36 IDFK 365, IDFK 366, IDFK 36 IDFK 370, IDFK 371, IDFK 37	67, IDPK 368, IDPK 369				
37.0~37.4	KRUZ 370P FL80 FSLK		327	257			IDFK 370, IDFK 371, IDFK 37 IDFK 370, IDFK 371, IDFK 37 IDFK 375, IDFK 376, IDFK 37	72, IDPK 373, IDPK 374				
37.5~37.9	KRUZ 375P FL80 FSLK		330	260			IDPK 375, IDPK 376, IDPK 37 IDPK 380, IDFK 381, IDFK 38	77, IDPK 378, IDPK 379	CS 360 -395 SL			
38.0~38.4	KRUZ 380P FL80 FSLK		334	264			IDPK 380, IDPK 381, IDPK 38 IDFK 385, IDFK 386, IDFK 38	82, IDPK 383, IDPK 384	-393 36			
38.5~38.9			337	267			IDPK 385, IDPK 386, IDPK 38 IDFK 390, IDFK 391, IDFK 39	87, IDPK 388, IDPK 389				
39.0~39.4			341	271			IDPK 390, IDPK 391, IDPK 39 IDFK 395, IDFK 396, IDFK 39	92, IDPK 393, IDPK 394		T20		
39.5~39.9	KRUZ 395P FL80 FSLK		344	274			IDPK 395, IDPK 396, IDPK 39 IDFK 400, IDFK 401, IDFK 40	97, IDPK 398, IDPK 399		64		
40.0~40.4			347	277			IDPK 400, IDPK 401, IDPK 40 IDFK 405, IDFK 406, IDFK 40	02, IDPK 403, IDPK 404		Torque 5.0Nm		
40.5~40.9			351	281	80		IDPK 405, IDPK 406, IDPK 40 IDFK 410, IDFK 411, IDFK 4			(Max)		
41.5~41.9			358	288			IDPK 410, IDPK 411, IDPK 41 IDFK 415, IDFK 416, IDFK 41					
	KRUZ 420P FL80 FSLK	40	361	291		54	IDPK 415, IDPK 416, IDPK 41 IDFK 420, IDFK 421, IDFK 42	22, IDFK 423, IDFK 424				
42.5~42.9		10	364	294			IDFK 420, IDFK 421, IDFK 42 IDFK 425, IDFK 426, IDFK 42	27, IDFK 428, IDFK 429	-445 SL			
43.0~43.4			368	298			IDPK 425, IDPK 426, IDPK 43 IDFK 430, IDFK 431, IDFK 43	32, IDFK 433, IDFK 434				
43.5~43.9			371	301			IDPK 430, IDPK 431, IDPK 43 IDFK 435, IDFK 436, IDFK 43 IDPK 435, IDPK 436, IDPK 43	37, IDFK 438, IDFK 439				
44.0~44.4	KRUZ 440P FL80 FSLK		375	305			IDFK 433, IDFK 430, IDFK 44 IDFK 440, IDFK 441, IDFK 44 IDPK 440, IDPK 441, IDPK 44	42, IDFK 443, IDFK 444				
44.5~44.9	KRUZ 445P FL80 FSLK		378	308			IDFK 445, IDFK 446, IDFK 44 IDPK 445, IDPK 446, IDPK 44	47, IDFK 448, IDFK 449				
45.0~45.4	KRUZ 450P FL80 FSLK		381	311			IDFK 450, IDFK 451, IDFK 451, IDFK 450, IDPK 451, IDPK 450, IDPK 451, IDPK 4	52, IDFK 453, IDFK 454			M6x12	3.0mm
45.5~45.9	KRUZ 455P FL80 FSLK		385	315			IDFK 455, IDFK 456, IDFK 451 IDPK 455, IDPK 456, IDPK 456	57, IDFK 458, IDFK 459				
46.0~46.4	KRUZ 460P FL80 FSLK		388	318			IDFK 460, IDFK 461, IDFK 461 IDPK 460, IDPK 461, IDPK 461	62, IDFK 463, IDFK 464				
46.5~46.9	KRUZ 465P FL80 FSLK		392	322			IDFK 465, IDFK 466, IDFK 46 IDPK 465, IDPK 466, IDPK 46	67, IDFK 468, IDFK 469				
47.0~47.4	KRUZ 470P FL80 FSLK		395	325			IDFK 470, IDFK 471, IDFK 47 IDPK 470, IDPK 471, IDPK 47	72, IDFK 473, IDFK 474				
47.5~47.9	KRUZ 475P FL80 FSLK		398	328			IDFK 475, IDFK 476, IDFK 476, IDPK 475, IDPK 476, IDPK 4	77, IDPK 478, IDPK 479	CS 450 -500 SL			
48.0~48.4	KRUZ 480P FL90 FSLK		402	332			IDFK 480, IDFK 481, IDFK 48 IDPK 480, IDPK 481, IDPK 48	82, IDPK 483, IDPK 484				
48.5~48.9	KRUZ 485P FL90 FSLK		405	335			IDFK 485, IDFK 486, IDFK 48 IDPK 485, IDPK 486, IDPK 48	87, IDPK 488, IDPK 489				
49.0~49.4	KRUZ 490P FL90 FSLK		409	339	90		IDFK 490, IDFK 491, IDFK 491, IDPK 490, IDPK 491, IDPK 4	92, IDPK 493, IDPK 494				
49.5~49.9	KRUZ 495P FL90 FSLK		412	342			IDFK 495, IDFK 496, IDFK 491 IDPK 495, IDPK 496, IDPK 491	97, IDPK 498, IDPK 499				
50.0~50.4	KRUZ 500P FL90 FSLK		415	345			IDFK 500, IDFK 501, IDFK 50 IDPK 500, IDPK 501, IDPK 50					



KRUZ-FSLK法兰刀体(7x0)与IDFK&IDPK钻尖

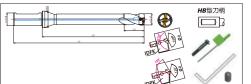


- ▶ 如存在干涉等情况,需较长的悬长时,最为理想的刀体
- ▶ 孔深可加工到接近法兰部分(7倍径)
- ▶最小化的螺旋槽和更长的圆柱形颈部设计
- ▶比普通的7xD钻头刚度更好
- ▶ 内冷设计
- ▶ 法兰刀柄更能减少抖动或振动





适于加工型钢、角钢、单板



专 刀结构	纲加工设备而设	计的	钻尖	(刀)	ተ)	V				IDPK		
孔径(Φ)	刀体型号	刀柄		R J		法兰直径	钻尖IDFK 🚛	钻尖IDPK 🌇	锁紧螺栓	梅花型螺批	定位螺钉	"L"型内六角扳手
mm	75H-E-5	(Фd)	L1	L2	L3	(ΦFd)	IDEK 120 IDEK 121 IDEK	122 IDEK 122 IDEK 124		7	0	
12.0~12.4	KRUZ 120H FL50 FSLK		157	109			IDPK 120, IDPK 121, IDPK	122, IDFK 123, IDFK 124 122, IDPK 123, IDPK 124		T6		
12.5~12.9	KRUZ 125H FL50 FSLK		161	113			IDPK 125, IDPK 126, IDPK	127, IDFK 128, IDFK 129 127, IDPK 128, IDPK 129	CS 120	Torque		
13.0~13.4	KRUZ 130H FL50 FSLK	16	166	118		21	IDPK 130, IDPK 131, IDPK	132, IDFK 133, IDFK 134 132, IDPK 133, IDPK 134	-135 SL	0.6Nm		
13.5~13.9	KRUZ 135H FL50 FSLK		170	122			IDPK 135, IDPK 136, IDPK	137, IDFK 138, IDFK 139 137, IDPK 138, IDPK 139		(Max)		
14.0~14.4	KRUZ 140H FL50 FSLK		175	127			IDPK 140, IDPK 141, IDPK	142, IDFK 143, IDFK 144 142, IDPK 143, IDPK 144				
14.5~14.9	KRUZ 145H FL50 FSLK		181	131			IDPK 145, IDPK 146, IDPK	147, IDFK 148, IDFK 149 147, IDPK 148, IDPK 149	CS 140			
15.0~15.4	KRUZ 150H FL50 FSLK		187	137			IDPK 150, IDPK 151, IDPK	152, IDFK 153, IDFK 154 152, IDPK 153, IDPK 154	-155 SL	T7		
15.5~15.9	KRUZ 155H FL50 FSLK		192	142			IDPK 155, IDPK 156, IDPK	157, IDFK 158, IDFK 159 157, IDPK 158, IDPK 159		Torque	M2.5x4	1.3mm
16.0~16.4	KRUZ 160H FL50 FSLK		196	146			IDPK 160, IDPK 161, IDPK	162, IDFK 163, IDFK 164 162, IDPK 163, IDPK 164		0.9Nm	1112.57(1	1.511111
16.5~16.9	KRUZ 165H FL50 FSLK		201	151			IDPK 165, IDPK 166, IDPK	167, IDFK 168, IDFK 169 167, IDPK 168, IDPK 169	CS 160	(Max)		
17.0~17.4	KRUZ 170H FL50 FSLK	20	205	155		27	IDPK 170, IDPK 171, IDPK	172, IDFK 173, IDFK 174 172, IDPK 173, IDPK 174	-175 SL			
17.5~17.9	KRUZ 175H FL50 FSLK	_0	209	159		-′	IDPK 175, IDPK 176, IDPK	177, IDFK 178, IDFK 179 177, IDPK 178, IDPK 179				
18.0~18.4	KRUZ 180H FL50 FSLK		214	164			IDPK 180, IDPK 181, IDPK	(182, IDFK 183, IDFK 184 (182, IDPK 183, IDPK 184				
18.5~18.9	KRUZ 185H FL50 FSLK		218	168			IDPK 185, IDPK 186, IDPK	(187, IDFK 188, IDFK 189 (187, IDPK 188, IDPK 189	CS 180			
19.0~19.4	KRUZ 190H FL50 FSLK		223	173			IDPK 190, IDPK 191, IDPK	(192, IDFK 193, IDFK 194 (192, IDPK 193, IDPK 194	-195 SL			
19.5~19.9	KRUZ 195H FL50 FSLK		227	177			IDPK 195, IDPK 196, IDPK	(197, IDFK 198, IDFK 199 (197, IDPK 198, IDPK 199				
20.0~20.4	KRUZ 200H FL50 FSLK		237	181			IDPK 200, IDPK 201, IDPK	C 202, IDFK 203, IDFK 204 C 202, IDPK 203, IDPK 204		T8		
20.5~20.9	KRUZ 205H FL50 FSLK		242	186	50			(207, IDPK 208, IDPK 209	CS 200	Torque		
21.0~21.4	KRUZ 210H FL50 FSLK		246	190	50		IDPK 210, IDPK 211, IDPK	C 212, IDFK 213, IDFK 214 C 212, IDPK 213, IDPK 214	-215 SL	1.5Nm		
21.5~21.9	KRUZ 215H FL50 FSLK	25	251	195		32	IDPK 215, IDPK 216, IDPK	217, IDFK 218, IDFK 219 217, IDPK 218, IDPK 219		(Max)		
22.0~22.4	KRUZ 220H FL50 FSLK	23	255	199		J2	IDPK 220, IDPK 221, IDPK	C 222, IDFK 223, IDFK 224 C 222, IDPK 223, IDPK 224				
22.5~22.9	KRUZ 225H FL50 FSLK		259	203				227, IDPK 228, IDPK 229	CS 220			
23.0~23.4	KRUZ 230H FL50 FSLK		264	208			IDPK 230, IDPK 231, IDPK	C 232, IDFK 233, IDFK 234 C 232, IDPK 233, IDPK 234	-235 SL		M3x6	1.5mm
23.5~23.9	KRUZ 235H FL50 FSLK		268	212			IDPK 235, IDPK 236, IDPK	237, IDFK 238, IDFK 239 237, IDPK 238, IDPK 239			1413/10	1.511111
24.0~24.4	KRUZ 240H FL50 FSLK		277	217			IDPK 240, IDPK 241, IDPK	242, IDFK 243, IDFK 244 242, IDPK 243, IDPK 244				
24.5~24.9	KRUZ 245H FL50 FSLK		281	221			IDPK 245, IDPK 246, IDPK	247, IDFK 248, IDFK 249 247, IDPK 248, IDPK 249	CS 240			
25.0~25.4	KRUZ 250H FL50 FSLK		285	225			IDPK 250, IDPK 251, IDPK	252, IDFK 253, IDFK 254 252, IDPK 253, IDPK 254	-255 SL			
25.5~25.9	KRUZ 255H FL50 FSLK		290	230			IDPK 255, IDPK 256, IDPK	257, IDFK 258, IDFK 259 257, IDPK 258, IDPK 259				
26.0~26.4	KRUZ 260H FL50 FSLK		294	234			IDPK 260, IDPK 261, IDPK	262, IDFK 263, IDFK 264 262, IDPK 263, IDPK 264		T15		
26.5~26.9	KRUZ 265H FL50 FSLK	32	299	239		39	IDPK 265, IDPK 266, IDPK	267, IDFK 268, IDFK 269 267, IDPK 268, IDPK 269	CS 260	Torque		
27.0~27.4	KRUZ 270H FL50 FSLK	32	303	243			IDPK 270, IDPK 271, IDPK	272, IDFK 273, IDFK 274 272, IDPK 273, IDPK 274	-275 SL	3.5Nm		
27.5~27.9	KRUZ 275H FL50 FSLK		307	247			IDPK 275, IDPK 276, IDPK	277, IDFK 278, IDFK 279 277, IDPK 278, IDPK 279		(Max)		
28.0~28.4	KRUZ 280H FL50 FSLK		312	252			IDPK 280, IDPK 281, IDPK	282, IDFK 283, IDFK 284 282, IDPK 283, IDPK 284			M4x8	2.0mm
28.5~28.9	KRUZ 285H FL50 FSLK		316	256			IDPK 285, IDPK 286, IDPK	287, IDFK 288, IDFK 289 287, IDPK 288, IDPK 289	CS 280		11170	2.511111
29.0~29.4	KRUZ 290H FL50 FSLK		321	261			IDPK 290, IDPK 291, IDPK	292, IDFK 293, IDFK 294 292, IDPK 293, IDPK 294	-295 SL			
29.5~29.9	KRUZ 295H FL50 FSLK		325	265				297, IDFK 298, IDFK 299 297, IDPK 298, IDPK 299				

[☞] 上述未标出的尺寸,可根据需求定制。



KRUZ-FSLK法兰刀体(7x0)与IDFK&IDPK钻尖

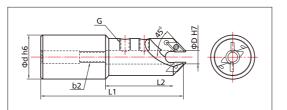
专为结构钢加工设备而设计的钻尖(刀片)

	例的工设备而设			ア オ		法兰直径		な川区神中へ	振恭刑規批	定位螺钉	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
孔径(Φ) mm	刀体型号	刀柄 (Φd)	L1	L2	L3	(ФFd)	钻尖IDFK 钻尖IDPK IDPK	W系琢性	1916年承加	企业练 打	1 空内/用放力
30.0~30.4	KRUZ 300H FL70 FSLK		329	269			IDFK 300, IDFK 301, IDFK 302, IDFK 303, IDFK 304 IDPK 300, IDPK 301, IDPK 302, IDPK 303, IDPK 304				
30.5~30.9	KRUZ 305H FL70 FSLK		334	274			IDFK 305, IDFK 306, IDFK 307, IDFK 308, IDFK 309 IDPK 305, IDPK 306, IDPK 307, IDPK 308, IDPK 309	CS 300		M4x8	2.0mm
31.0~31.4	KRUZ 310H FL70 FSLK		338	278			IDFK 310, IDFK 311, IDFK 312, IDFK 313, IDFK 314 IDPK 310, IDPK 311, IDPK 312, IDPK 313, IDPK 314	-315 SL			
31.5~31.9	KRUZ 315H FL70 FSLK		343	283			IDFK 315, IDFK 316, IDFK 317, IDFK 318, IDFK 319 IDPK 315, IDPK 316, IDPK 317, IDPK 318, IDPK 319	1			
32.0~32.4	KRUZ 320H FL70 FSLK	32	347	287	70	39	IDFK 320, IDFK 321, IDFK 322, IDFK 323, IDFK 324 IDPK 320, IDPK 321, IDPK 322, IDPK 323, IDPK 324				
32.5~32.9	KRUZ 325H FL70 FSLK		351	291			IDFK 325, IDFK 326, IDFK 327, IDFK 328, IDFK 329 IDPK 325, IDPK 326, IDPK 327, IDPK 328, IDPK 329	1			
33.0~33.4	KRUZ 330H FL70 FSLK		356	296			IDFK 330, IDFK 331, IDFK 332, IDFK 333, IDFK 334 IDPK 330, IDPK 331, IDPK 332, IDPK 333, IDPK 334				
33.5~33.9	KRUZ 335H FL70 FSLK		360	300			IDFK 335, IDFK 336, IDFK 337, IDFK 338, IDFK 339 IDPK 335, IDPK 336, IDPK 337, IDPK 338, IDPK 339	CS 320			
34.0~34.4	KRUZ 340H FL80 FSLK		375	305			IDFK 340, IDFK 341, IDFK 342, IDFK 343, IDFK 344 IDPK 340, IDPK 341, IDPK 342, IDPK 343, IDPK 344	-355 SL			
34.5~34.9	KRUZ 345H FL80 FSLK		379	309			IDFK 345, IDFK 346, IDFK 347, IDFK 348, IDFK 349 IDPK 345, IDPK 346, IDPK 347, IDPK 348, IDPK 349	1			
35.0~35.4	KRUZ 350H FL80 FSLK		383	313			IDFK 350, IDFK 351, IDFK 352, IDFK 353, IDFK 354 IDPK 350, IDPK 351, IDPK 352, IDPK 353, IDPK 354	1		ME::10	2 5
35.5~35.9	KRUZ 355H FL80 FSLK		388	318			IDFK 355, IDFK 356, IDFK 357, IDFK 358, IDFK 359 IDPK 355, IDPK 356, IDPK 357, IDPK 358, IDPK 359	1		M5x10	2.5mm
36.0~36.4	KRUZ 360H FL80 FSLK		392	322			IDFK 360, IDFK 361, IDFK 362, IDFK 363, IDFK 364 IDPK 360, IDPK 361, IDPK 362, IDPK 363, IDPK 364				
36.5~36.9	KRUZ 365H FL80 FSLK		397	327			IDFK 365, IDFK 366, IDFK 367, IDFK 368, IDFK 369 IDPK 365, IDPK 366, IDPK 367, IDPK 368, IDPK 369]			
37.0~37.4	KRUZ 370H FL80 FSLK		401	331			IDFK 370, IDFK 371, IDFK 372, IDFK 373, IDFK 374 IDPK 370, IDPK 371, IDPK 372, IDPK 373, IDPK 374				
37.5~37.9	KRUZ 375H FL80 FSLK		405	335			IDFK 375, IDFK 376, IDFK 377, IDFK 378, IDFK 379 IDPK 375, IDPK 376, IDPK 377, IDPK 378, IDPK 379	CS 360			
38.0~38.4	KRUZ 380H FL80 FSLK		410	340			IDFK 380, IDFK 381, IDFK 382, IDFK 383, IDFK 384 IDPK 380, IDPK 381, IDPK 382, IDPK 383, IDPK 384	-395 SL			
38.5~38.9	KRUZ 385H FL80 FSLK		414	344			IDFK 385, IDFK 386, IDFK 387, IDFK 388, IDFK 389 IDPK 385, IDPK 386, IDPK 387, IDPK 388, IDPK 389				
39.0~39.4	KRUZ 390H FL80 FSLK		419	349			IDFK 390, IDFK 391, IDFK 392, IDFK 393, IDFK 394 IDPK 390, IDPK 391, IDPK 392, IDPK 393, IDPK 394				
39.5~39.9	KRUZ 395H FL80 FSLK		423	353			IDFK 395, IDFK 396, IDFK 397, IDFK 398, IDFK 399 IDPK 395, IDPK 396, IDPK 397, IDPK 398, IDPK 399		T20		
40.0~40.4	KRUZ 400H FL80 FSLK		427	357			IDFK 400, IDFK 401, IDFK 402, IDFK 403, IDFK 404 IDPK 400, IDPK 401, IDPK 402, IDPK 403, IDPK 404		Torque 5.0Nm		
40.5~40.9	KRUZ 405H FL80 FSLK		432	362	80		IDFK 405, IDFK 406, IDFK 407, IDFK 408, IDFK 409 IDPK 405, IDPK 406, IDPK 407, IDPK 408, IDPK 409		(Max)		
41.0~41.4	KRUZ 410H FL80 FSLK		436	366	00		IDFK 410, IDFK 411, IDFK 412, IDFK 413, IDFK 414 IDPK 410, IDPK 411, IDPK 412, IDPK 413, IDPK 414				
41.5~41.9	KRUZ 415H FL80 FSLK		441	371			IDFK 415, IDFK 416, IDFK 417, IDFK 418, IDFK 419 IDPK 415, IDPK 416, IDPK 417, IDPK 418, IDPK 419				
42.0~42.4	KRUZ 420H FL80 FSLK	40	445	375		54	IDFK 420, IDFK 421, IDFK 422, IDFK 423, IDFK 424 IDPK 420, IDPK 421, IDPK 422, IDPK 423, IDPK 424	CS 400			
42.5~42.9	KRUZ 425H FL80 FSLK		449	379			IDFK 425, IDFK 426, IDFK 427, IDFK 428, IDFK 429 IDPK 425, IDPK 426, IDPK 427, IDPK 428, IDPK 429	-445 SL			
43.0~43.4	KRUZ 430H FL80 FSLK		454	384			IDFK 430, IDFK 431, IDFK 432, IDFK 433, IDFK 434 IDPK 430, IDPK 431, IDPK 432, IDPK 433, IDPK 434				
43.5~43.9	KRUZ 435H FL80 FSLK		458	388			IDFK 435, IDFK 436, IDFK 437, IDFK 438, IDFK 439 IDPK 435, IDPK 436, IDPK 437, IDPK 438, IDPK 439				
44.0~44.4	KRUZ 440H FL80 FSLK		463	393			IDFK 440, IDFK 441, IDFK 442, IDFK 443, IDFK 444 IDPK 440, IDPK 441, IDPK 442, IDPK 443, IDPK 444				
44.5~44.9	KRUZ 445H FL80 FSLK		467	397			IDFK 445, IDFK 446, IDFK 447, IDFK 448, IDFK 449 IDPK 445, IDPK 446, IDPK 447, IDPK 448, IDPK 449				
45.0~45.4	KRUZ 450H FL80 FSLK		471	401			IDFK 450, IDFK 451, IDFK 452, IDFK 453, IDFK 454 IDPK 450, IDPK 451, IDPK 452, IDPK 453, IDPK 454			M6x12	3.0mm
45.5~45.9	KRUZ 455H FL80 FSLK		476	406			IDFK 455, IDFK 456, IDFK 457, IDFK 458, IDFK 459 IDPK 455, IDPK 456, IDPK 457, IDPK 458, IDPK 459				
46.0~46.4	KRUZ 460H FL80 FSLK		480	410			IDFK 460, IDFK 461, IDFK 462, IDFK 463, IDFK 464 IDPK 460, IDPK 461, IDPK 462, IDPK 463, IDPK 464				
46.5~46.9	KRUZ 465H FL80 FSLK		485	415			IDFK 465, IDFK 466, IDFK 467, IDFK 468, IDFK 469 IDPK 465, IDPK 466, IDPK 467, IDPK 468, IDPK 469				
47.0~47.4	KRUZ 470H FL80 FSLK		489	419			IDFK 470, IDFK 471, IDFK 472, IDFK 473, IDFK 474 IDPK 470, IDPK 471, IDPK 472, IDPK 473, IDPK 474	CC 450			
47.5~47.9	KRUZ 475H FL80 FSLK		493	423			IDFK 475, IDFK 476, IDFK 477, IDFK 478, IDFK 479 IDPK 475, IDPK 476, IDPK 477, IDPK 478, IDPK 479	-500 SL			
48.0~48.4	KRUZ 480H FL90 FSLK		498	428			IDFK 480, IDFK 481, IDFK 482, IDFK 483, IDFK 484 IDPK 480, IDPK 481, IDPK 482, IDPK 483, IDPK 484				
48.5~48.9	KRUZ 485H FL90 FSLK		502	432			IDFK 485, IDFK 486, IDFK 487, IDFK 488, IDFK 489 IDPK 485, IDPK 486, IDPK 487, IDPK 488, IDPK 489				
49.0~49.4	KRUZ 490H FL90 FSLK		507	437	90		IDFK 490, IDFK 491, IDFK 492, IDFK 493, IDFK 494 IDPK 490, IDPK 491, IDPK 492, IDPK 493, IDPK 494	-			
49.5~49.9	KRUZ 495H FL90 FSLK		511	441			IDFK 495, IDFK 496, IDFK 497, IDFK 498, IDFK 499 IDPK 495, IDPK 496, IDPK 497, IDPK 498, IDPK 499	-			
50.0~50.4	KRUZ 500H FL90 FSLK		515	445			IDFK 500, IDFK 501, IDFK 502, IDFK 503, IDFK 504 IDPK 500, IDPK 501, IDPK 502, IDPK 503, IDPK 504				





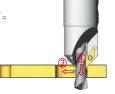




- ▶ 在该刀体上安装使用,可换式硬质合金钻铣刀与XCGX刀片
- ▶特殊设计的硬质合金钻铣刀(TiAIN),具有很好铣削功能的螺旋槽
- ▶ 硬质合金倒角刀片XCGX 1102, 可用两个边角
- ▶ 采用侧固系统并经特殊热处理的工具钢刀体,具有很好的刚性
- ▶钻、铣、倒角功能集于一体,又经济又省事
- ▶加上倒角功能的立铣刀,边铣边倒角

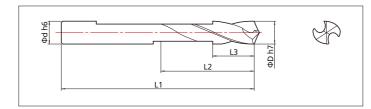
CODE No.	D(mm)	d(mm)	L1	L2	G
DMH 32-8	8				
DMH 32-10	10	32	110	40	M8
DMH 32-12	12				

- ☞ 其他特殊尺寸,可根据需求定制。
- ☞ 注:安装DM钻铣刀之前,首先在DMH架上装好XCGX刀片。





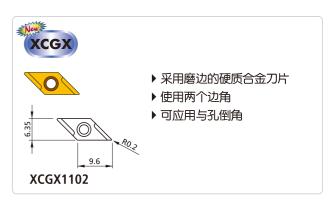


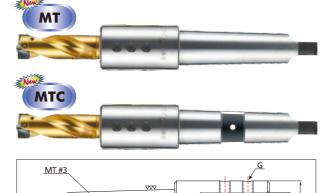


CODE No.	D(mm)	d(mm)	L1	L2	L3
DM 080 TIAIN	8.0	8.0			
DM 100 TiAIN	10.0	10.0	70	30	14.6
DM 120 TiAIN	12.0	12.0			

☞ DM 钻可加工最大14mm孔深。如需加工更深的孔,需分别注明各尺寸。

- ▶ 整体硬质合金材料, TiAIN涂层
- ▶ 该产品是YESTOOL公司自主设计的钻铣刀
- ▶ 采用平磨工艺,适合安装两个XCGX刀片
- ▶该刀头必须安装在DMH刀架上使用
- ▶ 采用TiAIN涂层,寿命更长





- ▶ 适合安装KRUZ刀体的特殊莫氏锥柄
- ▶ 通过螺钉把KRUZ刀体,安装在侧固式莫式锥柄上面
- ▶ 是加长HSS MT刀柄钻头的替代品
- ▶ 对老设备、不稳定的机床、工件装夹不稳定,是理想的刀具

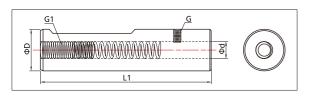
CODE No.	MT#	D(mm)	L(mm)	C(mm)	G
MT3S-SLA16-95		16	95	33	
MT3S-SLA20-70		20		37	
MT3S-SLA25-70	#3	25	70	40	M12
MT3S-SLA32-70		32		48	
MT3S-SLA40-80		40	80	56	

☞ 针对MT#2, MT#4莫式锥柄, 可根据要求定制。

🔀 划线刀具





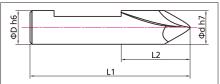


- ▶ 安装在侧固式刀柄的可换式硬质合金划线钻
- ▶ 经热处理的工具钢刀体
- ▶ 特殊设计的弹簧系统,加工不平表面时,可回收钻头阻力
- ▶ 另外还有: 对倒角孔铣边的功能

型 믕	D(mm)	d(mm)	L1	G	G1
STH 080	20	8	83	M4x6	M8x20
STH-Spring	6		40		







▶ 双重角钻尖, ?	有效防止尖部的崩刃
------------	-----------

▶ 适合STH刀架的硬质合金扁柄钻头

▶以侧固螺钉来锁定

▶以侧面螺栓可调张力

13





▶ TiN涂层的90°钻尖,保证了划线时的双角稳定性

装配划线刀具的方法

型 号

SD 080 TiN

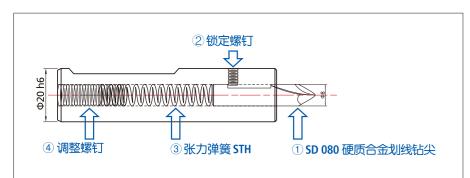
A. 推入①SD 080划线钻尖,直到削平的刀柄完全隐藏到刀体内

D(mm)

d(mm)

37

- B. 完全锁紧螺钉②
- C. 向刀体内,插入③STH张力弹簧
- D. 把调整螺钉④,向右推到边端
- E. 最后,把锁定螺钉②,向左松动45°(约1/8转),弹簧的弹力进入执行状态





(Pes)

拆除划线刀具的方法

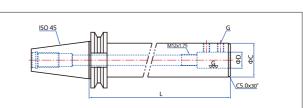
- A. 向左旋转调整螺钉④,取出该螺钉
- B. 从刀体上取出张力弹簧③
- C. 松开锁定螺钉②
- D. 从刀体上取下①SD 080划线刀具

注意!:请务必留意拆卸划线钻头时的安全,从刀体上端开始操作(参见上图)。

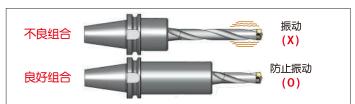


ISO 45与HSK加长强化刀柄(加工型钢设备专用)





- ▶ ISO 45(HSK)刀柄,可增强钻削刚性
- ▶ 采用了内冷结构
- ▶ 采用了两个螺钉侧固式夹紧方式
- ▶ 优化的KRUZ-SLK刀体与IDFK钻尖(刀片)组合
- ▶ HSK刀柄,可根据要求定制



型 믕	D	L	С	G	型 믕	D	L	С	G	型 믕	D	L	C	G
ISO45(HSK)-SLA16-80		100			ISO45(HSK)-SLA20-400		400			ISO45(HSK)-SLA32-270		270		
ISO45(HSK)-SLA16-160		160			ISO45(HSK)-SLA20-450 20 45	450			ISO45(HSK)-SLA32-300		300			
ISO45(HSK)-SLA16-210		210			ISO45(HSK)-SLA20-500		500			ISO45(HSK)-SLA32-350	32	350	56	
ISO45(HSK)-SLA16-240		240			ISO45(HSK)-SLA25-80		100		M12	ISO45(HSK)-SLA32-400	32	400	50	
ISO45(HSK)-SLA16-270	16	270		M10	ISO45(HSK)-SLA25-160	25	160			ISO45(HSK)-SLA32-450		450		
ISO45(HSK)-SLA16-300	10	300		101 10	ISO45(HSK)-SLA25-210		210			ISO45(HSK)-SLA32-500		500		
ISO45(HSK)-SLA16-350		350			ISO45(HSK)-SLA25-240		240			ISO45(HSK)-SLA40-90		120		
ISO45(HSK)-SLA16-400		400			ISO45(HSK)-SLA25-270		270			ISO45(HSK)-SLA40-160		160		M14
ISO45(HSK)-SLA16-450		450	56		ISO45(HSK)-SLA25-300		300	56		ISO45(HSK)-SLA40-210		210		10114
ISO45(HSK)-SLA16-500		500			ISO45(HSK)-SLA25-350		350			ISO45(HSK)-SLA40-240		240		
ISO45(HSK)-SLA20-80		100			ISO45(HSK)-SLA25-400		400			ISO45(HSK)-SLA40-270	40	270	60	
ISO45(HSK)-SLA20-160		160			ISO45(HSK)-SLA25-450		450			ISO45(HSK)-SLA40-300	40	300	00	
ISO45(HSK)-SLA20-210		210		M12	ISO45(HSK)-SLA25-500		500			ISO45(HSK)-SLA40-350		350		
ISO45(HSK)-SLA20-240	20	240			ISO45(HSK)-SLA32-80		100			ISO45(HSK)-SLA40-400		400		
ISO45(HSK)-SLA20-270		270			ISO45(HSK)-SLA32-160 32 16	160		M14	ISO45(HSK)-SLA40-450		450			
ISO45(HSK)-SLA20-300		300			ISO45(HSK)-SLA32-210	52	210		10114	ISO45(HSK)-SLA40-500		500		
ISO45(HSK)-SLA20-350		350			ISO45(HSK)-SLA32-240		240			∞ 不包括拉红				

☞ ISO40刀柄可根据需求定制

刑 号 d(mm) D(mm) L(mm) C(mm) G

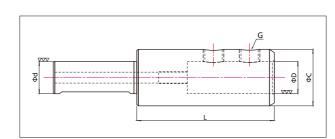


加长套筒





- ▶ 该加长套筒,便于使用短钻头
- ▶ 侧固式锁紧方式
- ▶钻头刀柄直径, 仍保持一致

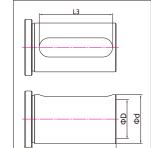


坐 亏	a(mm)	D(mm)	L(mm)	C(mm)	G		
EXT16-SLA16-80			80				
EXT16-SLA16-125			125				
EXT16-SLA16-150	16	16	150		M10		
EXT16-SLA16-200			200				
EXT16-SLA16-250			250				
EXT20-SLA20-80			80				
EXT20-SLA20-125			125				
EXT20-SLA20-150	20	20	150				
EXT20-SLA20-200			200	50	M12		
EXT20-SLA20-250			250				
EXT25-SLA25-80			80	30	IVIIZ		
EXT25-SLA25-125			125				
EXT25-SLA25-150	25	25	150				
EXT25-SLA25-200			200				
EXT25-SLA25-250			250				
EXT32-SLA32-80		32	80				
EXT32-SLA32-125			125				
EXT32-SLA32-150	32		150				
EXT32-SLA32-200			200				
EXT32-SLA32-250			250		M14		
EXT40-SLA40-80			80		10114		
EXT40-SLA40-125			125				
EXT40-SLA40-150	40	40	150	60			
EXT40-SLA40-200			200				
EXT40-SLA40-250			250				









- ▶ RSL套筒适于侧固式刀柄的变径
- ▶适于KRUZ型刀体的直刀柄
- ▶ 公制和英制都可适用

型 믕	d(mm)	D(mm)	L1	L2	L3	
RSL 32-16		16				
RSL 32-20	32	20	65	59	50	
RSL 32-25		25				
RSL 40-32	40	32	75	69	60	
RSL 1 1/4-16		16				
RSL 1 1/4-20	1 1/4"	20	65	59	F0	
RSL 1 1/4-25		25	05		50	
RSL 1 1/2-32	1 1/2"	32				

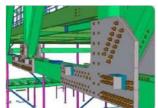
结构钢加工技术要点

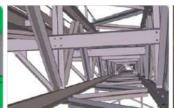
由于钢结构工件的工装(夹持),往往很难保证其牢靠性,并且大部分工件又是端面大而且长度很长。 当机床主轴向结构钢的钢板方向进给时,表面将出现弯曲、变形或回弹现象,导致颤动或振动,这是常见的情况。 为了实现更好的钻孔,我们建议您考虑以下技术要点,选好刀体和钻尖(刀片)。

- ☞ 根据加工孔深以及考虑到干涉后,请尽量选择较短的刀体,以避免振动或抖动,从而最大限度地提高加工性能。
- ☞ 结构钢的加工孔深一般小于50mm。YESTOOL公司的KRUZ-SLK以及KRUZ-FSLK刀体,以合理的设计保证其刚性, 并排屑顺畅,从而保证良好的加工性能。
- ☞ 如果用莫式锥柄来装持我们的钻头,将会造成严重的抖动或振动、以及扭曲或孔径变大等诸多麻烦, 并且严重缩短刀具寿命。这时选择我们提供的MT或 MTC型转换刀柄,就能很好地得到解决。
- ☞ 如果存在干涉时,请选用带法兰的KRUZ-FSLK型(5D,7D)长刀体,从而很好地降低抖动或振动。
- ☞ 如果ISO刀柄和KRUZ-SLK刀体不能满足长度,请使用我们提供的<u>加长强化刀柄</u>来补偿长度,就能保证良好的刚性。
- 写 另外,我们备有加长套筒和变径套筒,可灵活地应用于各种工况。
- ☞ 参考切削参数表,并根据现场工况,找出最佳参数。这是优化加工性能以及保障刀具寿命的关键所在。
- ☞ 单板加工以及叠加板加工,请正确选择钻尖(刀片)。 (如右图所示)



如果您寻找更多的信息,请联系当地的经销商或访问yestool@yestool.co.kr网站









推荐切削参数(型钢)

针对KRUZ SIK 刀体 + 硬质合金IDFK钻尘(刀片)

the SEC	钻	头直径	44.40	毎转	进给	线	速	每分钟	中进给	功率	进给力	7/7		
步骤	公制	英制	转数		IPR(inch/rev.)				IPM(inch)	(KW)	(KGF)	稳定性	刀具寿命	速
	12.0	31/64"	780	, ,	, ,		, ,		6.1		` ´	T/42	12	
	14.0	9/16"	780 760	0.20 0.20	0.008	29 33 37	96 110	156 152	6.0	1.3 1.7	286 331	稳定	长	慢
	16.0 17.5	41/64" 11/16"	740 720	0.21 0.22	0.008	37 40	122 130	155 158	6.1	2.2 2.6	387 434	†	•	•
	18.0	23/32"	700	0.22	0.009	40	130	154	6.1	2.6	445	1	1 1	- 1
	20.5	13/16"	660	0.23	0.009	42	139	152	6.0	3.2	518			
	21.5	27/32"	620	0.24 0.24	0.009 0.009	42 41	137	149 144	5.9	3.3	556 568 648			- 1
步骤 1	22.0 24.0 26.0	7/8" 15/16"	600 570	0.26	0.003	43	136 141	148	5.7 5.8	3.3 3.9 4.2	648	i	1	- 1
- 20K ·	26.0	1-1/32"	520	0.28	0.011	43 42	139	146	5.7	4.2	732			100
	27.0 30.0	1-1/16"	500	0.28	0.011	42	139	140	5.5	4.3	758	! !		
	32.0	1-3/16" 1-1/4"	400 380	0.29 0.29	0.011 0.011	38 38	124 125	116 110	4.6	4.1 4.3	856 911	1 :		- 1
	34.0	1-11/32"	360	0.29	0.011	38	126	104	4.1	4.5	964			100
	36.0	1-27/64"	340	0.29	0.011	38	126 125 124	99	3.9	4.7	1018	!		
	38.0 40.0	1-1/2" 1-37/64"	320 300	0.29 0.29	0.011 0.011	38 38	125 124	93 87	3.7 3.4	4.9 5.0	1072 1126		;	- 1
	12.0	31/64"	970	0.21	0.008	37	120	204	8.0	1.7	295	i		_ ;
	14.0	9/16"	970	0.21	0.008	43	140	204	8.0	2.3	341	•	D _{IDFK 200}	•
	16.0 17.5	41/64" 11/16"	950 930	0.22 0.24	0.009	48 51	157 168	209 223	8.2 8.8	3.0 3.7	398 457		V	•
	18.0	23/32"	900	0.24	0.009	51	167	216	8.5	3.8	470		M : //	BA i
	20.5	13/16"	850	0.25	0.010	55	180	213	84	4.6	545	'	· []	<i> </i>
	21.5 22.0 24.0	27/32" 7/8"	800	0.26	0.010 0.010	54 54	177 177	208 203 199	8.2 8.0	4.8 4.9	545 584 597		C 201200	W.
步骤 2	24.0	15/16"	780 710	0.26 0.28	0.010	54	176	199	7.8	5.3	678	1		W :
J	26.0 27.0	1-1/32"	640	0.30	0.012	52	171	192	7.6	5.7	763	'	T i 📙	41
	27.0	1-1/16"	610	0.30	0.012	52	170	183	7.2	5.8	791		. 1	
	30.0 32.0	1-3/16" 1-1/4"	500 470	0.30 0.30	0.012 0.012	47 47	155 155	150 141	5.9 5.6	5.5 5.8	874 930	1 :		ш :
	34.0	1-11/32"	440	0.31	0.012	47	154	136 127	5.4	6.1	1005	1 :		
	36.0 38.0 40.0	1-27/64"	410	0.31	0.012	46	152 149	127	5.4 5.0	6.2	1061			
	38.0 40.0	1-1/2" 1-37/64"	380 350	0.31 0.31	0.012 0.012	45 44	149 144	118 109	4.6 4.3	6.3 6.3	1116 1172	!		
	12.0	31/64"	1,180	0.22	0.009	44	146	260	10.2	2.3	303	1 :	;	- 1
	14.0	9/16"	1,180	0.22	0.009	52	170	260	10.2	3.1	351		1	- 1
	16.0	41/64"	1,160	0.23	0.009	58	191	267	10.5	4.0	409			100
	17.5 18.0	11/16"	1,140	0.26 0.26	0.010 0.010	63 62	206	296 286	11.7	5.0 5.1	480	 		
	20.5 21.5 22.0 24.0	23/32" 13/16" 27/32"	1,040	0.27	0.011	67	204 220 217	286 281 274	11.1	6.3	493 571 611	1 :		- 1
	21.5	27/32"	980	0.28	0.011 0.011	66	217	274	11.1	6.5	611		1 1	1
步骤 3	22.0	7/8" 15/16"	960 850	0.28 0.30	0.011 0.012	66	218 210	269 255	10.6 10.0	6.6 7.0	624 707			
少孫 3	26.0	1-1/32"	760	0.30	0.012	64 62	204	243	9.6	7.4	794	!		
	27.0	1-1/16"	720	0.32	0.013	61	200	230	9.1	7.4	823] ;		- 1
	30.0	1-3/16"	600	0.32	0.013	57	185	192	7.6	7.2	909			100
	32.0 34.0	1-1/4" 1-11/32"	560 520	0.32 0.33	0.013 0.013	<u>56</u>	185 182	179 172	7.1 6.8	7.5 7.8	967 1044	•		
	36.0	1-27/64"	480	0.33	0.013	56 54	182 178	158	6.2	7.9	1102	1 :		- 1
	36.0 38.0	1-1/2"	440	0.33	0.013	53	172	145	5.7	7.9 7.7	1160] ;		- 1
	40.0	1-37/64"	400	0.33	0.013	50	165	132	5.2		1218		100	100
	12.0 14.0	31/64" 9/16"	1,330 1,330	0.23 0.23	0.009	50 58	164 192	306 306	12.0 12.0	2.7 3.7	311 360	•		
	16.0	41/64"	1,310	0.24	0.009	66	216	314	12.4	4.8	420	1 :		- 1
	17.5	11/16"	1,290	0.28	0.011	71	233	361	14.2	6.2	502		A	
	18.0	23/32" 13/16"	1,240 1,170	0.28 0.29	0.011 0.011	70 75	233 230 247	347	13.7 13.4 13.0	6.2 7.6	516 596	• ,		
	21.5	27/32"	1,100	0.30	0.011	74	244	330	13.0	7.8	637			
ı⊢aBa a	18.0 20.5 21.5 22.0	7/8"	1,080	0.30	0.012	75	245	339 330 324 298	12.8	8.0	651		1	
步骤 4	24.0	15/16"	930	0.32	0.013	70	230	298	11.7	8.2	736	. '		
	26.0 27.0	1-1/32" 1-1/16"	850 800	0.33 0.33	0.013 0.013	69 68	228 223	281 264	11.0 10.4	8.7 8.6	809	•		
	30.0	1-3/16"	700	0.33	0.013	66	216	231	9.1	8.9	838 927	1 :	l s	
	32.0	1-1/4"	650	0.33	0.013	65	214	215	8.4	9.2	985			- 1
	34.0 36.0	1-11/32" 1-27/64"	550	0.34	0.013	64 62	210 204	204 187	8.0 7.4	9.6 9.6	1063 1122			1
	38.0	1-1/2"	500	0.34	0.013	60	196	170	6.7	9.4	1181	1 :		- 1
	40.0	1-37/64"	450	0.34	0.013	57	185	153	6.0	9.1	1240] ;		- 1
	12.0 14.0	31/64" 9/16"	1,800 1,800	0.24 0.24	0.009 0.009	68 79	223 260	432 432	17.0 17.0	4.1 5.6	320 370			- 1
	16.0	41/64"	1,780	0.25	0.010	89	293	445	17.5	7.3	431	:		- 1
	17.5	11/16"	1,760	0.30	0.012	97 94	293 317	528	20.8	9.5 9.3	524	1 :		- 1
	18.0	23/32"	1,660	0.30	0.012	94	308	498	19.6	9.3	538			- 1
	20.5 21.5	13/16" 27/32"	1,580 1,500	0.31 0.32	0.012 0.013	102 101	334 332	490 480	19.3 18.9	11.5 12.1	621 663			1
1 le 200	22.0	7/8"	1,440	0.32	0.013	99	326	461	18.1	12.0	677			1
步骤 5	24.0	15/16"	1,250	0.34	0.013	94	309	425	16.7	12.3	763			
	26.0 27.0	1-1/32" 1-1/16"	1,120 1,020	0.35 0.35	0.014 0.014	91 86	300 284	392 357	15.4 14.1	12.7 12.2	838 869			- 1
	30.0	1-3/16"	800	0.35	0.014	75 74	247	357 280 259	11.0	11.0	960	!		
	30.0 32.0 34.0	1-1/4"	740	0.35	0.014	74	244	259	10.2	11.3	1021	1 :		- 1
	34.0 36.0	1-11/32" 1-27/64"	680 620	0.36	0.014	73	238 230	245	9.6 8.8	11.6 11.5	1100			- 1
	38.0	1-2//64	620 560	0.36 0.36	0.014 0.014	70 67	219	223 202	7.9	11.5 11.2	1162 1223	•		1
	40.0	1-37/64"	500	0.36	0.014	63	206	180	7.1	10.8	1284	!	!	- 1
	12.0	31/64"	2,040	0.25	0.010	77	252	510	20.1	4.9 6.7	328			- 1
	14.0 16.0	9/16" 41/64"	2,040	0.25 0.26	0.010 0.010	90 101	294 333	510 525 620	20.1	6.7 8.8	379 441			- 1
	17.5	11/16"	2,020 2,000	0.26	0.010	110	361	620	24.4	11.4	441 535			1
	18.0	23/32"	1,900	0.31	0.012	107	352	589	23.2	11.3	549	1 :		- 1
	20.5	13/16"	1,800	0.32	0.013	116	380 377	576	22.7	13.9	633			
	21.5 22.0	27/32" 7/8"	1,700 1,650	0.33 0.33	0.013 0.013	115 114	374	561 545	22.1 21.4	14.4 14.5	675 690			- 1
步骤 6	24.0	15/16"	1,400	0.35	0.014	106	346	490	19.3	14.5	777	•		1
	26.0	1-1/32"	1,250	0.36	0.014	102	335 325	450	17.7	14.9	853	1 :		- 1
	26.0 27.0 30.0 32.0	1-1/16" 1-3/16"	1,170	0.36	0.014	99 85	325	421 324	16.6	14.7	884			- 1
	32.0	1-3/16"	900 830	0.36 0.36	0.014 0.014	85 83	278 274	324 299	12.8 11.8	13.0 13.3	977 1039		i i	- 1
	34.0	1-11/32"	760	0.37	0.015	81	266	281	11.1	13.6	1119			1.0
	36.0	1-27/64"	680	0.37	0.015	77	252	252	9.9 8.9	13.2	1181	+	,	+
	38.0 40.0	1-1/2" 1-37/64"	610 550	0.37 0.37	0.015 0.015	73 69	239 227	226 204	8.9 8.0	12.7 12.3	1244 1306	不稳定	短	快

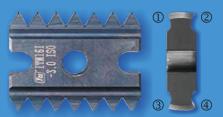
- 1. 进行钻削工作之前,请根据<刀具总长>参考以上推荐切削参数(刀具总长=刀柄长度+钻头长度)

- 2. 您可根据效率要求和设备的稳定性,参考步骤1~6所示的切削参数 3. 根据某一种振动或某一不稳定因素,可酌情选择各步骤的切削参数 4. 当您加工其他尺寸时,请通过电子邮件"yestool@yestool.co.kr"来垂询我们

YESTOOL Co., Ltd.

ITM 4刃可转位刀片 螺纹立铣刀

- 经济型 4刃螺纹铣刀刀片

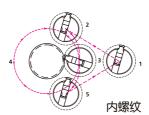


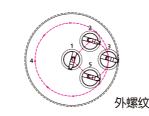
- ▶ YESTOOL的设计技术诞生的又一个经典,经精密研磨的螺纹铣刀刀片
- ▶ 刀杆的夹缝里嵌入螺纹刀片后再用贯通螺纹紧固,结合非常牢固
- ▶配有内冷式设计

▶内螺纹和外螺纹刀片兼用的刀杆









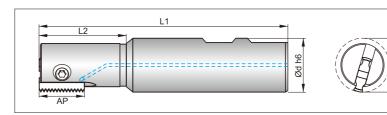




- ▶ 可用4刃的可转位硬质合金螺纹铣刀刀片
- ▶ 经济型4刃螺纹铣刀刀片(ITM080型,只用2刃)

▶ 刀杆的夹缝里嵌入螺纹刀片后再用贯通螺纹紧固,结合非常牢固

- ▶ 刀杆采用了内冷式
- ▶ 采用了韦尔登刀柄(可定制HA、HE型)



刀杆型号	ØD	L1	L2	АР	刀柄规格 Ød	固定螺栓	扳手	刀片
YITM090	9.0	85	14	12	20		T7	
YITM095	9.5	85	14	12	20	M2.5	Torque 0.9Nm (Max)	ITM080□
YITM100	10.0	85	16	12	20		(IVIAX)	
YITM115	11.5	88	18	14	20			
YITM125	12.5	90	20	14	20		T8 Torque 1.5Nm (Max)	ITM100□
YITM140	14.0	94	25	14	20	M3		
YITM150	15.0	95	25	16	20		(IVIAX)	ITM130□
YITM170	17.0	98	30	16	20			THVI130
YITM190	19.0	95	30	21	20		T15	
YITM210	21.0	115	40	21	25	M4	Torque 3.5Nm	ITM160□
YITM250	25.0	115	40	21	25		(Max)	
YITM285	28.5	140	50	30	25			
YITM310	31.0	140	50	30	25	M6	T20	ITM220□
YITM380	38.0	160	60	30	32		Torque 4.0Nm	
YITM420	42.0	170	65	40	40	N.40	(Max)	ITB4200
YITM460	46.0	170	65	40	40	M8		ITM280□



ITM 硬质合金螺纹铣刀片, ISO 内螺纹





刀片型号

ITM080I-0.50 ISO

ITM080I-0.75 ISO

ITM080I-1.00 ISO

ITM080I-1.25 ISO

ITM080I-1.50 ISO

ITM100I-0.75 ISO

ITM100I-1.00 ISO

ITM100I-1.25 ISO

ITM100I-1.50 ISO

ITM100I-1.75 ISO

ITM100I-2.00 ISO

ITM130I-1.00 ISO ITM130I-1.25 ISO

ITM130I-1.50 ISO

ITM130I-1.75 ISO ITM130I-2.00 ISO

ITM130I-2.50 ISO

ITM160I-1.00 ISO

ITM160I-1.75 ISO

ITM160I-2.00 ISO

ITM160I-2.50 ISO

ITM160I-3.00 ISO

ITM160I-3.50 ISO

ITM220I-1.50 ISO

ITM2201-2.00 ISO

ITM220I-3.00 ISO

ITM2201-3.50 ISO

ITM2201-4.00 ISO

ITM220I-4.50 ISO

ITM2201-5.00 ISO

ITM280I-1.50 ISO ITM2801-2.00 ISO

ITM280I-3.00 ISO

ITM280I-3.50 ISO

ITM280I-4.00 ISO

ITM280I-4.50 ISO

ITM280I-5.00 ISO

ITM280I-5.50 ISO

ITM280I-6.00 ISO



硬质合金螺纹铣刀片

螺距

0.5

0.75

1

1.25

1.5

0.75

1

1.25

1.5

1.75

2 1

1.25

1.5

1.75

2

2.5

1

1.75

2

2.5

3

3.5

1.5

2

3

3.5

4

4.5

5

1.5

2

3

3.5

4

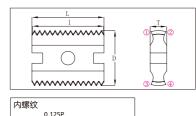
4.5

5

5.5

6

ISO 内螺纹



12

14

16

21

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40

D

6.5

9.5

12.5

16

22

28

Т

2.4

2.6

3.6

4.8

5.6

6.4

- } 4刃可转位螺纹铣刀片
- } 精密研磨的硬质合金刀片
- ▶ 刀杆的夹缝里嵌入螺纹刀片后 再用贯通螺纹紧固, 结合非常牢固
- } 刀片采用TiAIN涂层(标准品)

可用刃数

2

4

4

4

4

4

对应刀杆型号

YITM090

YITM095

YITM100

YITM115

YITM125

YITM140

YITM150

YITM170

YITM190

YITM210

YITM250

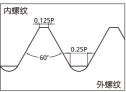
YITM285

YITM310

YITM380

YITM420

YITM460



12

12

12

11.25

12

13.5

14

13.75

13.5

14

14

16

15

15

15.75

16

15

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38.5

40

36

40

38.5

36

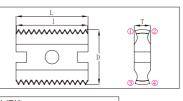
		,	



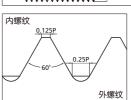


ITM 硬质合金螺纹铣刀片





- } 4刃可转位螺纹铣刀片
- } 精密研磨的硬质合金刀片
- ▶刀杆的夹缝里嵌入螺纹刀片后 再用贯通螺纹紧固, 结合非常牢固
- } 刀片采用TiAIN涂层(标准品)



ITM 硬质合金螺纹铣刀片, ISO 外螺纹

ISO 夕	螺纹
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刀片型号	螺距	I	L	D	Т	可用	对应刀杆型号			
ITM100E-0.75 ISO	0.75	13.5								
ITM100E-1.00 ISO	1	14								
ITM100E-1.25 ISO	1.25	13.75	14	9.5	2.6	4	YITM115 YITM125			
ITM100E-1.50 ISO	1.5	13.5	14		9.3	2.0	4	4	4	YITM140
ITM100E-1.75 ISO	0.75	14								
ITM100E-2.00 ISO	2	14								
ITM130E-1.00 ISO	1	16								
ITM130E-1.25 ISO	1.25	15								
ITM130E-1.50 ISO	1.5	15	16	12.5	3.6	4	YITM150			
ITM130E-1.75 ISO	1.75	15.75	10	12.3	3.0	4	YITM170			
ITM130E-2.00 ISO	2	16								
ITM130E-2.50 ISO	2.5	15								
ITM160E-1.00 ISO	1	21								
ITM160E-1.50 ISO	1.5	21					YITM190			
ITM160E-2.00 ISO	2	20	21	16	4.8	4	YITM210			
ITM160E-2.50 ISO	2.5	20					YITM250			
ITM160E-3.00 ISO	3	21								
ITM220E-1.50 ISO	1.5	30								
ITM220E-2.00 ISO	2	30			5.6	4	YITM285			
ITM220E-3.00 ISO	3	30	30	22			YITM310			
ITM220E-3.50 ISO	3.5	28					YITM380			
ITM220E-4.00 ISO	4	28								
ITM280E-1.50 ISO	1.5	39								
ITM280E-2.00 ISO	2	40								
ITM280E-3.00 ISO	3	39	40	28	6.4	4	YITM420			
ITM280E-4.00 ISO	4	40	40		0.4	4	YITM460			
ITM280E-5.00 ISO	5	40								
ITM280E-6.00 ISO	6	36								

30 [Yes]



ITM 硬质合金螺纹铣刀片, UN 內螺纹



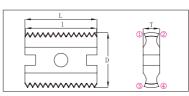


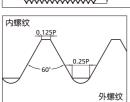
ITM 硬质合金螺纹铣刀片

TPI

刀片型号







- } 4刃可转位螺纹铣刀片
- } 精密研磨的硬质合金刀片
- ▶刀杆的夹缝里嵌入螺纹刀片后 再用贯通螺纹紧固, 结合非常牢固
- } 刀片采用TiAIN涂层(标准品)

可用
刃数

对应刀杆型号

0.25P			
0.25P /	/ \	1	
	0.25P /		

D



ITM 硬质合金螺纹铣刀片,UN 外螺纹





(ITM) 硬质合金螺纹铣刀片

外螺纹

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- } 4刃可转位螺纹铣刀片
- } 精密研磨的硬质合金刀片
- ▶ 刀杆的夹缝里嵌入螺纹刀片后 再用贯通螺纹紧固,结合非常牢固
- } 刀片采用TiAIN涂层(标准品)

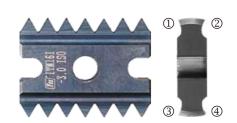
UN 外螺纹

UN外懸纹			外球纹										
刀片型号	TPI	I	L	D	Т	可用 刃数	对应刀杆型号						
ITM100E-32UN	32	13.49											
ITM100E-28UN	28	13.61											
ITM100E-24UN	24	13.76					YITM115						
ITM100E-20UN	20	13.97	14	9.5	9.5	2.6	4	YITM125					
ITM100E-18UN	18	14.11	'			3.3	3.3		3.3	9.5	2.0	_	YITM140
ITM100E-16UN	16	12.7										111111140	
ITM100E-14UN	14	12.7											
ITM100E-12UN	12	12.7											
ITM130E-32UN	32	15.88											
ITM130E-28UN	28	15.42											
ITM130E-27UN	27	15.99											
ITM130E-24UN	24	15.88											
ITM130E-20UN	20	15.24					YITM150						
ITM130E-18UN	18	15.52	16	12.5	3.6	4	YITM170						
ITM130E-16UN	16	15.88								11111170			
ITM130E-14UN	14	14.52											
ITM130E-12UN	12	14.82											
ITM130E-11UN	11	16.16											
ITM130E-10UN	10	15.24											
ITM160E-24UN	24	20.11											
ITM160E-20UN	20	20.32											
ITM160E-18UN	18	19.76					YITM190						
ITM160E-16UN	16	20.64	21	16	4.8	8 4	YITM210						
ITM160E-14UN	14	19.96					YITM250						
ITM160E-12UN	12	21.17	-										
ITM160E-10UN	10	20.32											
ITM220E-20UN	20	29.21	-										
ITM220E-18UN	18	29.63											
ITM220E-16UN	16	28.58					YITM285						
ITM220E-14UN	14	29.03	30	22	5.6	4	YITM310						
ITM220E-12UN	12	29.63					YITM380						
ITM220E-10UN	10	27.94											
ITM220E-8UN	8	28.58											
ITM220E-6UN	6	29.63											
ITM280E-16UN	16	39.69	_										
ITM280E-14UN	14	39.91	<u> </u>										
ITM280E-12UN	12	38.1	40	28	6.4	4	YITM420						
ITM280E-10UN	10	38.1	<u> </u>				YITM460						
ITM280E-8UN	8	38.1											
ITM280E-6UN	6	38.1											

						刀奴									
ITM080I-32UN	32	11.91													
ITM080I-28UN	28	11.79			2.4		YITM090								
ITM080I-24UN	24	11.64	12	6.5		2	YITM095								
ITM080I-20UN	20	11.25	12	0.5	2.7	_									
ITM080I-18UN	18	11.43					YITM100								
ITM080I-16UN	18	11.11													
ITM100I-32UN	32	13.49													
ITM100I-28UN	28	13.61			2.6	2.6									
ITM100I-27UN	27	14.11													
ITM100I-24UN	24	13.76						YITM115							
ITM100I-20UN	20	13.97	14	9.5			2.6	2.6	4	YITM125					
ITM100I-18UN	18	14.11	'-	3.3											
ITM100I-16UN	16	12.7					YITM140								
ITM100I-14UN	14	12.7													
ITM100I-12UN	12	12.7													
ITM100I-11UN	11	13.85													
ITM130I-32UN	32	15.88													
ITM130I-28UN	28	15.42													
ITM130I-27UN	27	15.99													
ITM130I-24UN	24	15.88													
ITM130I-20UN	20	15.24			3.6			_			YITM150				
ITM130I-18UN	18	15.52	16	12.5		5 4	YITM170								
ITM130I-16UN	16	15.88					111101170								
ITM130I-14UN	14	14.51													
ITM130I-12UN	12	14.82													
ITM130I-11UN	11	16.16													
ITM130I-10UN	10	15.24													
ITM160I-24UN	24	20.11													
ITM160I-20UN	20	20.32													
ITM160I-18UN	18	19.76					YITM190								
ITM160I-16UN	16	20.64		1.5	4.0										
ITM160I-14UN	14	19.96	21	16	4.8	4	4	4	YITM210						
ITM160I-12UN	12	21.17					YITM250								
ITM160I-10UN	10	20.32													
ITM160I-8UN	7	19.05													
ITM160I-7UN	20	21.77													
ITM220I-20UN		29.21													
ITM220I-18UN	18 16	29.63	-												
ITM220I-16UN	14	28.58 29.03	-				YITM285								
ITM220I-14UN ITM220I-12UN	12	29.63	30	22	5.6	4	YITM310								
ITM220I-120N	10	27.94	. 30		3.0	4									
	8	28.58					YITM380								
ITM220I-8UN ITM220I-6UN	6	29.63													
ITM220I-50N	5	30.48													
	16	39.69													
ITM280I-16UN	14	39.91													
ITM280I-14UN ITM280I-12UN	12	38.1													
ITM280I-10UN	10	38.1					YITM420								
ITM280I-100N	8	38.1	40	28	6.4	4									
	6	38.1					YITM460								
ITM280I-6UN ITM280I-4.5UN	4.5	39.51													
ITM280I-4.5UN ITM280I-4UN	4.5	38.1													
ITIVIZOUI-4UN	4	50.1													

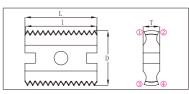


ITM 硬质合金螺纹铣刀片, NPS, NPSF 内螺纹, 外螺纹





NPS, NPSF 内螺纹, 外螺纹

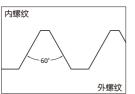


- } 4刃可转位螺纹铣刀片
- } 精密研磨的硬质合金刀片
- ▶ 刀杆的夹缝里嵌入螺纹刀片后 再用贯通螺纹紧固, 结合非常牢固
- } 刀片采用TiAIN涂层(标准品)

}2刃可转位螺纹铣刀片

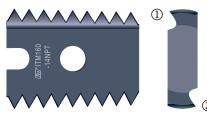
} 精密研磨的硬质合金刀片 ▶刀杆的夹缝里嵌入螺纹刀片后 再用贯通螺纹紧固, 结合非常牢固

} 刀片采用TiAIN涂层(标准品)



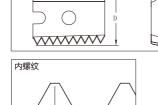
刀片型号	螺距	I	L	D	Т	可用 刃数	对应刀杆型号
ITM080-18NPS	18	11.29	12	6.5	2.4	4	YITM090 / YITM095 / YITM100
ITM100-18NPS	18	12.7	14	9.5	2.6	4	YITM115 / YITM125 / YITM140
ITM100-14NPS	14	12.7	14		2.0	4	TITIVITIS / TITIVITZS / TITIVIT40
ITM130-18NPS	18	15.52		12.5		4	
ITM130-14NPS	14	14.51	16		3.6		YITM150 / YITM170
ITM130-11.5NPS	11.5	15.46					
ITM160-14NPS	14	19.96	21	16	4.8	4	YITM190 / YITM210 / YITM250
ITM160-11.5NPS	11.5	19.88	21		4.0	4	111101130 / 111101210 / 111101230
ITM220-11.5NPS	11.5	28.71	30	22	5.6	4	YITM285 / YITM310 / YITM380
ITM220-8NPS	8	28.58	30		3.0	4	TITIVIZOS / TITIVISTO / TITIVISOU
ITM280-11.5NPS	11.5	39.76	40	28	6.1	1	YITM420 / YITM460
ITM280-8NPS	8	38.1	40	20	6.4	4	111191420 / 111191400

ITM 硬质合金螺纹铣刀片, NPT, NPTF 内螺纹, 外螺纹









NPT, NPTF 内螺纹, 外螺纹

刀片型号	螺距	I	L	D	Т	可用 刃数	对应刀杆型号
ITM080-18NPT	18	11.29	12	6.5	2.4	2	YITM090 / YITM095 / YITM100
ITM100-18NPT	18	12.7	14	9.5	2.6	2	YITM115 / YITM125 / YITM140
ITM100-14NPT	14	12.7	14	9.5	2.0		TITIVITIO / TITIVITZO / TITIVIT40
ITM130-18NPT	18	15.52			3.6		
ITM130-14NPT	14	14.51	16	12.5		2	YITM150 / YITM170
ITM130-11.5NPT	11.5	15.46					
ITM160-14NPT	14	19.96	21	16	4.8	2	YITM190 / YITM210 / YITM250
ITM160-11.5NPT	11.5	19.88	21		4.0		TITIVITED / TITIVIZ TO / TITIVIZ SO
ITM220-11.5NPT	11.5	28.71	30	22	5.6	2	YITM285 / YITM310 / YITM380
ITM220-8NPT	8	28.58	30		0.0	2	111101203 / 111101310 / 111101300
ITM280-11.5NPT	11.5	39.76	40	28	6.1	2	YITM420 / YITM460
ITM280-8NPT	8	38.1	40	28	6.4	2	TTTIVI42U / YTTIVI40U

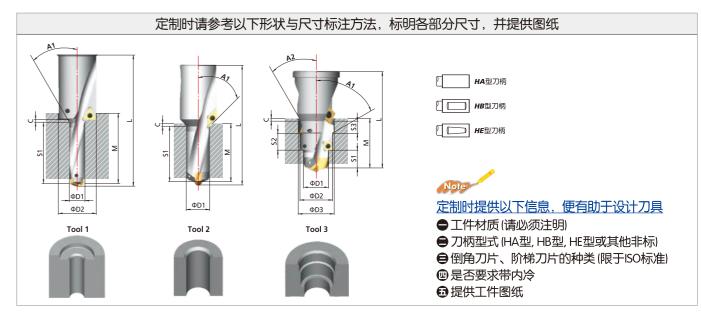
外螺纹

KRUZ非标阶梯组合钻的刀体

这种组合钻,一次就能同时加工2~3种不同直径的孔和倒角。精度高、效率高、降成本。



- ▶ 螺旋槽钻头刀体,更容易排屑对主轴冷却有帮助
- ▶ 采用我公司的标准钻尖(ID、IDP、IDF) 以及ISO标准倒角刀片
- ▶ 所有的装换刀片,不需拆下刀体可直接换刀
- ▶ 缩短周期,提高生产效率、降低成本



扭矩扳手

- ▶ 装配硬质合金刀片时,更容易掌握拧紧螺钉的力度
- ▶是理想的扭矩扳手,听到"咔咔"声音就拧紧了
- ▶ 使用该扳手就可避免过度拧紧造成的螺钉损伤





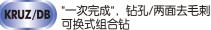
组化	牛	型 号					
T− 手	柄	TPK-H01					
梅花尖	25mm 50mm	Т6	Т7	Т8	T15	T20	
适配	器	TX6	TX7	TX8	TX15	TX20	
最大挂	丑矩	0.6Nm	0.9Nm	1.5Nm	3.5Nm	5.0Nm	



-次完成"钻孔/去毛刺,可换式组合钻

这种组合钻,不停止旋转连续完成钻孔与两面去毛刺,效率惊人。









底孔倒角

硬质合金去毛刺刀片 45° (有TiN,TiAIN涂层)







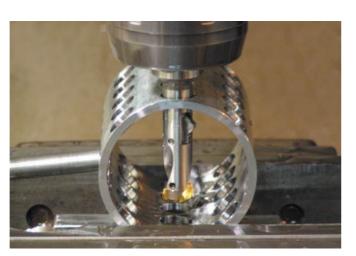


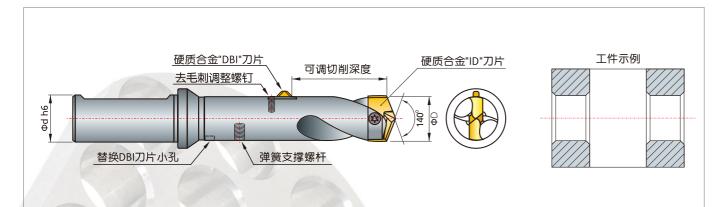


*注:如需要准确的倒角尺寸(如C=1.0)时, 不能使用这种刀具



- ▶ 前端钻孔刀片,采用了我公司的标准刀片
- ▶ 去毛刺"DBI"刀片,可简便更换,并且通过刀片弹力调整螺杆来调整其
- ▶ 当钻头穿过孔时,"DBI"刀片自动回缩进去,不刮伤孔的加工表面。
- ▶ 不需从机床卸下刀体,可简便更换两种刀片
- ▶ 可设计各种深度和去毛刺角度(倒角)
- ▶ 不需另外调整去毛刺与钻孔的各别速度,所有加工始终可维持相同速度



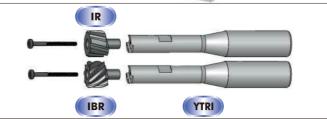


YesTool公司的"一次完成"组合钻 实现了惊人的 "高效率、低成本"

> "DBI"刀片, 在进刀/退刀时, 可以一次清除前/后孔的毛刺。 当钻头穿过孔时,这种特殊刀片自动回缩进去,不刮伤孔的加工表面。

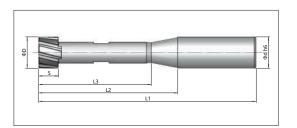
★ YTRI 可换式铰刀刀体与硬质合金刀头





▶ 可换式硬质合金较刀刀头

- ▶ 大幅度降低大直径(15mm以上)铰削加工的成本
- ▶ 用螺栓从中心孔锁定刀头
- ▶ IR: 右螺旋多刃铰刀刀头
- ▶IBR: 左螺旋拉铰刀刀头
- ▶快速铰削,满足H7精度



订货时,请在口内标明孔深。如: T(3倍孔径), P(5倍孔径)

刀体型号	柄径	c	T	(3 x Dia	ı.)	Р	(5 x Dia	a.)	适用的 IR, IBR规格	锁定螺栓	刃数
万件主コ	d	,	L1	L2	L3	L1	L2	L3		M	20 数
YTRI 150-174 □		7.4	114	64	53	148	98	87	IR 150~174, IBR 150~174	M2.5x30	6
YTRI 175-199 □	20	9.4	125	75	61	165	115	101	IR 175~199, IBR 175~199	M2.5x30	0
YTRI 200-224 □		9.3	136	86	69	180	130	113	IR 200~224, IBR 200~224	M3x35	8
YTRI 225-249 □	25	10.6	153	97	75	203	147	125	IR 225~249, IBR 225~249	M4x40	0
YTRI 250-274 □	23	10.4	158	102	82	213	157	137	IR 250~274, IBR 250~274	M5x45	
YTRI 275-299 □		12.2	177	117	90	237	177	150	IR 275~299, IBR 275~299	M5x45	10
YTRI 300-324 □	32	13.1	183	123	96	248	188	161	IR 300~324, IBR 300~324	M6x40	10
YTRI 325-349 □		13.8	190	130	103	260	200	173	IR 325~349, IBR 325~349	M6x45	
YTRI 350-374 □	40	14.6	215	145	110	290	220	185	IR 350~374, IBR 350~374	M8x50	12
YTRI 375-400 □	40	15.4	222	152	117	302	232	197	IR 375~400, IBR 375~400	M8x50	12

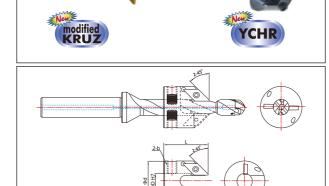
^{*}注:加工盲孔,底部带刃的铰刀可定制

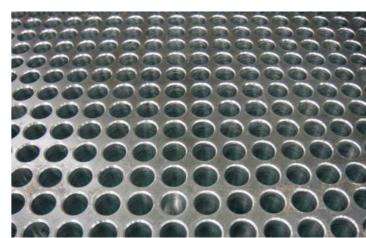


KRUZ可换式倒角组合刀具



- ▶ 适当修改标准KRUZ刀体,就能组合倒角刀架
- ▶ YCHR倒角刀架,安装两个XCGX 1102倒角刀片
- ▶ 在KRUZ刀体部分,设计了两个螺钉支撑面 ▶ 使用范围为: **KRUZ**刀体直径8~50.0mm
- ▶特殊深度,根据需求定制





巡测试报告表



❖ 韩国·京畿道安山市檀园区城谷路189

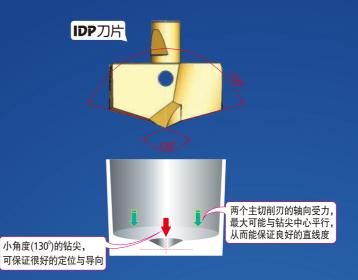
❖ 电话: +82-31-493-2387/8(内线 #2) ❖ 传真: +82-31-494-7619

❖ e-mail : yestool@yestool.co.kr

* www.yestool.com

公司(工厂)名:	电话:	日期:		操作员/操作的情况:		
代销商名:	电 话:	工件材质与特性:			硬 度	
					RC	BRN
产品名称:		内 冷	外 冷	卧式机床	立式机	床
机床名称:		切削油(油性/水溶	性) 品牌	切削油压力 (理论 / 实际)	切削油:	 流量 (实际)
				Mpa or Bar	GPM	
机床状态:		主轴功率(HP)		钻孔理由		
				螺纹底孔	精加工孔	粗加工孔
机床的工作情况描述:						

项 目	YesTool公司产品	其他公司产品(目前使用的产品)
目前使用的钻头生产厂家(品牌)		
钻头的种类(高速钢或超硬) / 直径		
工件(被削件)的夹持方法		
可更换刀片式还是整体型?		
刀片种类及其生产厂家(品牌)		
粗加工? 孔径与公差?		
精加工? 孔径与公差?		
孔深(盲孔还是通孔)		
转速(rpm)		
线速 Vc (m/分钟)		
进给量 f (mm/每转)		
每分钟进给量 F(mm/分钟)		
每孔的加工时间(秒)		
排屑状态(屑的模样)		
孔的精度要求		
每一个钻头的可加工孔数		
每一个钻头的可加工总长(钻头寿命)		
换钻头品牌的理由		
每一个钻头刀体可用到替换多少个刀片?		
目前使用的是否为刀片更换方式?		
刀片价格		
再磨计划		
再磨、钝化、再涂层费用		
机床的每小时生产率(费用)		
每一工件的孔数		
产品年生产量		





高效率、高精度、低成交到加工—

Yes

®公司的刀具

为逐提供最佳解决方案