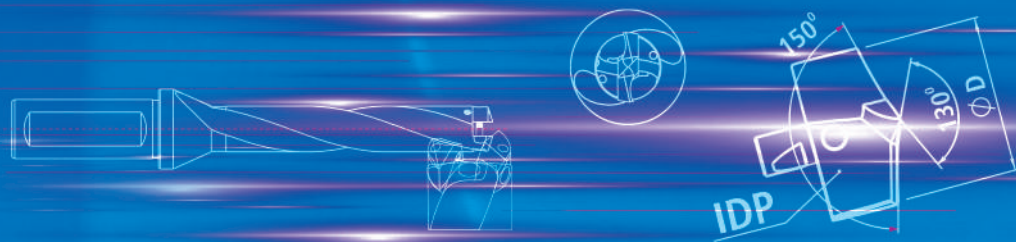
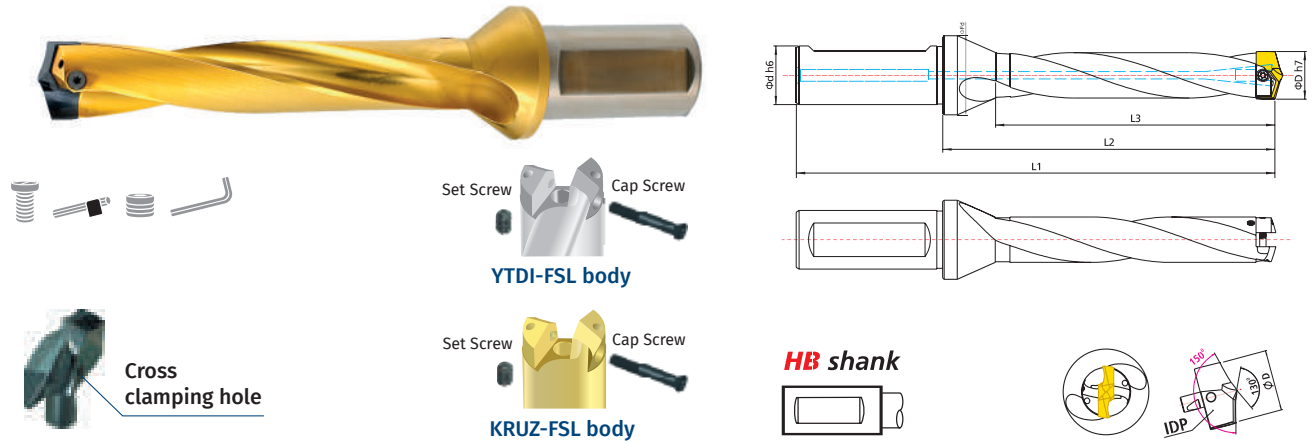


YES DRILLS



MILLING
MINIMILL
MOULDMILL
MICROTOOLS AMS
MINITOOLES
GROOVING
GE DRILLS
NICECUT
YES DRILLS

KRUZ-FSL, YTDI-FSL Flange body & Carbide insert



IDP Affilature \ ricoperture specifiche +30% _ IDP Besondere Schliffungen \ Beschichtungen +30%_ IDP Specific grindings \ coatings +30%

KRUZ-FSL/YTDI-FSL Please make required cutting depth in the like T, P, H, L

Hole size range	Body Code No.	Shank Size (ød)	Cutting depth (Length x 40)	L1	L2	L3	Flanged dia. (øFd)	YTDI		KRUZ		IDP	Cap Screw	Torx driver	Set Screw	L-wrench
								STOCK	€	STOCK	€					
ø 8.0 ~ø 8.4	YTDI 080 <input type="checkbox"/> FSL KRUZ 080 <input type="checkbox"/> FSL	10,0 (HA)	T (3xD)	87	42	32	18	● 266,-	○ 308,-	● IDP 080	€ 51,-	CS 080-085 SL	T6 Torque 0,6Nm (Max)	-	-	
			P (5xD)	103	58	48		● 329,-	○ 372,50	● IDP 081						
			H (7xD)	119	74	64		● 340,50	○ 387,-	● IDP 082 ● IDP 083 ● IDP 084						
ø 8.5 ~ø 8.9	YTDI 085 <input type="checkbox"/> FSL KRUZ 085 <input type="checkbox"/> FSL	10,0 (HA)	T (3xD)	89	44	34	18	● 266,-	○ 308,-	● IDP 085	€ 51,-	CS 080-085 SL	T6 Torque 0,6Nm (Max)	-	-	
			P (5xD)	106	61	51		● 329,-	○ 372,50	● IDP 086						
			H (7xD)	123	78	68		● 340,50	○ 387,-	● IDP 087 ● IDP 088 ● IDP 089						
ø 9.0 ~ø 9.4	YTDI 090 <input type="checkbox"/> FSL KRUZ 090 <input type="checkbox"/> FSL	10,0 (HA)	T (3xD)	92	47	36	18	● 266,-	○ 308,-	● IDP 090	€ 59,50	CS 090-095 SL	T6 Torque 0,6Nm (Max)	-	-	
			P (5xD)	110	65	54		● 329,-	○ 372,50	● IDP 091						
			H (7xD)	128	83	72		● 340,50	○ 387,-	● IDP 092 ● IDP 093 ● IDP 094						
ø 9.5 ~ø 9.9	YTDI 095 <input type="checkbox"/> FSL KRUZ 095 <input type="checkbox"/> FSL	12,0 (HA)	T (3xD)	97	49	38	18	● 266,-	○ 308,-	● IDP 095	€ 59,50	CS 090-095 SL	T6 Torque 0,6Nm (Max)	-	-	
			P (5xD)	116	68	57		● 329,-	○ 372,50	● IDP 096						
			H (7xD)	135	87	76		● 340,50	○ 387,-	● IDP 097 ● IDP 098 ● IDP 099						
ø 10.0 ~ø 10.4	YTDI 100 <input type="checkbox"/> FSL KRUZ 100 <input type="checkbox"/> FSL	12,0 (HA)	T (3xD)	99	51	40	18	● 266,-	○ 308,-	● IDP 100	€ 71,-	CS 100-115 SL	T6 Torque 0,6Nm (Max)	-	-	
			P (5xD)	119	71	60		● 329,-	○ 372,50	● IDP 101						
			H (7xD)	139	91	80		● 340,50	○ 387,-	● IDP 102 ● IDP 103 ● IDP 104						
ø 10.5 ~ø 10.9	YTDI 105 <input type="checkbox"/> FSL KRUZ 105 <input type="checkbox"/> FSL	12,0 (HA)	T (3xD)	102	54	42	18	● 266,-	○ 308,-	● IDP 105	€ 71,-	CS 100-115 SL	T6 Torque 0,6Nm (Max)	-	-	
			P (5xD)	123	75	63		● 329,-	○ 372,50	● IDP 106						
			H (7xD)	144	96	84		● 340,50	○ 387,-	● IDP 107 ● IDP 108 ● IDP 109						
ø 11.0 ~ø 11.4	YTDI 110 <input type="checkbox"/> FSL KRUZ 110 <input type="checkbox"/> FSL	12,0 (HA)	T (3xD)	104	56	44	18	● 266,-	○ 308,-	● IDP 110	€ 87,50	CS 100-115 SL	T6 Torque 0,6Nm (Max)	-	-	
			P (5xD)	126	78	66		● 329,-	○ 372,50	● IDP 111						
			H (7xD)	148	100	88		● 340,50	○ 387,-	● IDP 112						
ø 11.5 ~ø 11.9	YTDI 115 <input type="checkbox"/> FSL KRUZ 115 <input type="checkbox"/> FSL	12,0 (HA)	T (3xD)	107	59	46	18	● 266,-	○ 308,-	● IDP 115	€ 87,50	CS 100-115 SL	T6 Torque 0,6Nm (Max)	-	-	
			P (5xD)	130	82	69		● 329,-	○ 372,50	● IDP 116						
			H (7xD)	153	105	92		● 340,50	○ 387,-	● IDP 117						
ø 12.0 ~ø 12.4	YTDI 120 <input type="checkbox"/> FSL KRUZ 120 <input type="checkbox"/> FSL	16,0	T (3xD)	109	61	48	21	● 269,-	○ 314,-	● IDP 120	€ 101,-	CS 120-135 SL	T6 Torque 0,6Nm (Max)	M 2.5x4	1.3 mm	
			P (5xD)	133	85	72		● 352,-	○ 412,-	● IDP 121						
			H (7xD)	157	109	96		● 370,-	○ 439,-	● IDP 122						
			L (10xD)	193	145	132		○ 480,50	○ 569,50	● IDP 123 ● IDP 124						

KRUZ-FSL, YTDI-FSL Flange body & Carbide insert

Hole size range	Body Code No.	Shank Size (Ød)	Cutting depth (Length x 40)	L1	L2	L3	Flanged dia. (ØFd)	YTDI		KRUZ		IDP	Cap Screw	Torx driver	Set Screw	L-wrench
								STOCK	€	STOCK	€					
Ø 12.5 ~Ø 12.9	YTDI 125 □ FSL KRUZ 125 □ FSL	16.0	T (3xD)	111	63	50	21	● 269,-	○ 314,-	● IDP 125	€ 101,-	CS 120-135 SL	T6 Torque 0,6Nm (Max)	M 2.5x4	1.3 mm	
			P (5xD)	136	88	75		● 352,-	○ 412,-	● IDP 126						
			H (7xD)	161	113	100		● 370,-	○ 439,-	● IDP 127						
			L (10xD)	199	151	138		● 480,50	○ 569,50	● IDP 128						
								○ 480,50	○ 569,50	● IDP 129						
Ø 13.0 ~Ø 13.4	YTDI 130 □ FSL KRUZ 130 □ FSL	16.0	T (3xD)	114	66	52	21	● 269,-	○ 314,-	● IDP 130	€ 101,-	CS 120-135 SL	T6 Torque 0,6Nm (Max)	M 2.5x4	1.3 mm	
			P (5xD)	140	92	78		● 352,-	○ 412,-	● IDP 131						
			H (7xD)	166	118	104		● 370,-	○ 439,-	● IDP 132						
			L (10xD)	205	157	143		● 480,50	○ 569,50	● IDP 133						
								○ 480,50	○ 569,50	● IDP 134						
Ø 13.5 ~Ø 13.9	YTDI 135 □ FSL KRUZ 135 □ FSL	16.0	T (3xD)	116	68	54	21	● 269,-	○ 314,-	● IDP 135	€ 101,-	CS 120-135 SL	T6 Torque 0,6Nm (Max)	M 2.5x4	1.3 mm	
			P (5xD)	143	95	81		● 352,-	○ 412,-	● IDP 136						
			H (7xD)	170	122	108		● 370,-	○ 439,-	● IDP 137						
			L (10xD)	211	163	149		● 480,50	○ 569,50	● IDP 138						
								○ 480,50	○ 569,50	● IDP 139						
Ø 14.0 ~Ø 14.4	YTDI 140 □ FSL KRUZ 140 □ FSL	16.0	T (3xD)	119	71	56	21	● 289,-	○ 329,-	● IDP 140	€ 115,-	CS 140-155 SL	T7 Torque 0,9Nm (Max)	M 2.5x4	1.3 mm	
			P (5xD)	147	99	84		● 394,50	○ 454,50	● IDP 141						
			H (7xD)	175	127	112		● 430,-	○ 496,50	● IDP 142						
			L (10xD)	217	169	154		● 558,-	○ 642,50	● IDP 143						
								○ 558,-	○ 642,50	● IDP 144						
Ø 14.5 ~Ø 14.9	YTDI 145 □ FSL KRUZ 145 □ FSL	20.0	T (3xD)	123	73	58	27	● 289,-	○ 329,-	● IDP 145	€ 115,-	CS 140-155 SL	T7 Torque 0,9Nm (Max)	M 2.5x4	1.3 mm	
			P (5xD)	152	102	87		● 394,50	○ 454,50	● IDP 146						
			H (7xD)	181	131	116		● 430,-	○ 496,50	● IDP 147						
			L (10xD)	225	175	160		● 558,-	○ 642,50	● IDP 148						
								○ 558,-	○ 642,50	● IDP 149						
Ø 15.0 ~Ø 15.4	YTDI 150 □ FSL KRUZ 150 □ FSL	20.0	T (3xD)	127	77	60	27	● 289,-	○ 329,-	● IDP 150	€ 115,-	CS 140-155 SL	T7 Torque 0,9Nm (Max)	M 2.5x4	1.3 mm	
			P (5xD)	157	107	90		● 394,50	○ 454,50	● IDP 151						
			H (7xD)	187	137	120		● 430,-	○ 496,50	● IDP 152						
			L (10xD)	232	182	165		● 558,-	○ 642,50	● IDP 153						
								○ 558,-	○ 642,50	● IDP 154						
Ø 15.5 ~Ø 15.9	YTDI 155 □ FSL KRUZ 155 □ FSL	20.0	T (3xD)	130	80	62	27	● 289,-	○ 329,-	● IDP 155	€ 115,-	CS 140-155 SL	T7 Torque 0,9Nm (Max)	M 2.5x4	1.3 mm	
			P (5xD)	161	111	93		● 394,50	○ 454,50	● IDP 156						
			H (7xD)	192	142	124		● 430,-	○ 496,50	● IDP 157						
			L (10xD)	239	189	171		● 558,-	○ 642,50	● IDP 158						
								○ 558,-	○ 642,50	● IDP 159						
Ø 16.0 ~Ø 16.4	YTDI 160 □ FSL KRUZ 160 □ FSL	20.0	T (3xD)	132	82	64	27	● 291,-	○ 331,-	● IDP 160	€ 123,-	CS 160-175 SL	T7 Torque 0,9Nm (Max)	M 2.5x4	1.3 mm	
			P (5xD)	164	114	96		● 428,50	○ 496,50	● IDP 161						
			H (7xD)	196	146	128		● 464,-	○ 536,50	● IDP 162						
			L (10xD)	244	194	176		● 602,-	○ 696,50	● IDP 163						
								○ 602,-	○ 696,50	● IDP 164						
Ø 16.5 ~Ø 16.9	YTDI 165 □ FSL KRUZ 165 □ FSL	20.0	T (3xD)	135	85	66	27	● 291,-	○ 331,-	● IDP 165	€ 123,-	CS 160-175 SL	T7 Torque 0,9Nm (Max)	M 2.5x4	1.3 mm	
			P (5xD)	168	118	99		● 428,50	○ 496,50	● IDP 166						
			H (7xD)	201	151	132		● 464,-	○ 536,50	● IDP 167						
			L (10xD)	251	201	182		● 602,-	○ 696,50	● IDP 168						
								○ 602,-	○ 696,50	● IDP 169						
Ø 17.0 ~Ø 17.4	YTDI 170 □ FSL KRUZ 170 □ FSL	20.0	T (3xD)	137	87	68	27	● 291,-	○ 331,-	● IDP 170	€ 123,-	CS 160-175 SL	T7 Torque 0,9Nm (Max)	M 2.5x4	1.3 mm	
			P (5xD)	171	121	102		● 428,50	○ 496,50	● IDP 171						
			H (7xD)	205	155	136		● 464,-	○ 536,50	● IDP 172						
			L (10xD)	256	206	187		● 602,-	○ 696,50	● IDP 173						
								○ 602,-	○ 696,50	● IDP 174						
Ø 17.5 ~Ø 17.9	YTDI 175 □ FSL KRUZ 175 □ FSL	20.0	T (3xD)	139	89	70	27	● 291,-	○ 331,-	● IDP 175	€ 123,-	CS 160-175 SL	T7 Torque 0,9Nm (Max)	M 2.5x4	1.3 mm	
			P (5xD)	174	124	105		● 428,50	○ 496,50	● IDP 176						
			H (7xD)	209	159	140		● 464,-	○ 536,50	● IDP 177						
			L (10xD)	262	212	193		● 602,-	○ 696,50	● IDP 178						
								○ 602,-	○ 696,50	● IDP 179						
Ø 18.0 ~Ø 18.4	YTDI 180 □ FSL KRUZ 180 □ FSL	20.0	T (3xD)	142	92	72	27	● 291,-	○ 331,-	● IDP 180	€ 123,-	CS 180-195 SL	T8 Torque 1,5Nm (Max)	M 2.5x4	1.3 mm	
			P (5xD)	178	128	108		● 465,-	○ 536,50	● IDP 181						
			H (7xD)	214	164	144		● 492,50	○ 573,-	● IDP 182						
			L (10xD)	268	218	198		● 641,50	○ 744,-	● IDP 183						
								○ 641,50	○ 744,-	● IDP 184						
Ø 18.5 ~Ø 18.9	YTDI 185 □ FSL KRUZ 185 □ FSL	20.0	T (3xD)	144	94	74	27	● 291,-	○ 331,-	● IDP 185	€ 123,-	CS 180-195 SL	T8 Torque 1,5Nm (Max)	M 2.5x4	1.3 mm	
			P (5xD)	181	131	111		● 465,-	○ 536,50	● IDP 186						
			H (7xD)	218	168	148		● 492,50	○ 573,-	● IDP 187						
			L (10xD)	274	224	204		● 641,50	○ 744,-	● IDP 188						
								○ 641,50	○ 744,-	● IDP 189						
Ø 19.0 ~Ø 19.4	YTDI 190 □ FSL KRUZ 190 □ FSL	20.0	T (3xD)	147	97	76	27	● 291,-	○ 331,-	● IDP 190	€ 123,-	CS 180-195 SL	T8 Torque 1,5Nm (Max)	M 2.5x4	1.3 mm	
			P (5xD)	185	135	114		● 465,-	○ 536,50	● IDP 191						
			H (7xD)	223	173	152		● 492,50	○ 573,-	● IDP 192						
			L (10xD)	280	230	209		● 641,50	○ 744,-	● IDP 193						
								○ 641,50	○ 744,-	● IDP 194						
Ø 19.5 ~Ø 19.9	YTDI 195 □ FSL KRUZ 195 □ FSL	20.0	T (3xD)	149	99	78	27	● 291,-	○ 331,-	● IDP 195	€ 123,-	CS 180-195 SL	T8 Torque 1,5Nm (Max)	M 2.5x4	1.3 mm	
			P (5xD)	188	138	117		● 465,-	○ 536,50	● IDP 196						
			H (7xD)	227	177	156		● 492,50	○ 573,-	● IDP 197						
			L (10xD)	286	236	215		● 641,50	○ 744,-	● IDP 198						
								○ 641,50	○ 744,-	● IDP 199						
Ø 20.0 ~Ø 20.4	YTDI 200 □ FSL KRUZ 200 □ FSL	25.0	T (3xD)	157	101	80	32	● 350,50	○ 400,50	● IDP 200	€ 123,-	CS 200-215 SL	T8 Torque 1,5Nm (Max)	M 3x6	1.5 mm	
			P (5xD)	197	141	120		● 465,-	○ 536,50	○ IDP 201						
			H (7xD)	237	181	160		● 523,50	○ 604,-	○ IDP 202						
			L (10xD)	297	241	220		○ 680,-	○ 785,-	○ IDP 203						
								○ 680,-	○ 785,-	○ IDP 204						

KRUZ-FSL, YTDI-FSL Flange body & Carbide insert

Hole size range	Body Code No.	Shank Size (Ød)	Cutting depth (Length x 40)	L1	L2	L3	Flanged dia. (ØFd)	YTDI		KRUZ		IDP	Cap Screw	Torx driver	Set Screw	L-wrench
								STOCK	€	STOCK	€					
Ø 20.5 -Ø 20.9	YTDI 205 □ FSL KRUZ 205 □ FSL	25.0	T (3xD) P (5xD) H (7xD) L (10XD)	160	104	82	32	● 350,50	○ 400,50	● IDP 205	€ 123,-	CS 200-215 SL	T8 Torque 1.5Nm (Max)	M 3x6	1.5 mm	
				201	145	123		● 465,-	○ 536,50	○ IDP 206						
				242	186	164		○ 523,50	○ 604,-	○ IDP 207						
				304	248	226		○ 680,-	○ 785,-	○ IDP 208 ○ IDP 209						
Ø 21.0 -Ø 21.4	YTDI 210 □ FSL KRUZ 210 □ FSL	25.0	T (3xD) P (5xD) H (7xD) L (10XD)	162	106	84	32	● 350,50	○ 400,50	● IDP 210	€ 123,-	CS 200-215 SL	T8 Torque 1.5Nm (Max)	M 3x6	1.5 mm	
				204	148	126		● 465,-	○ 536,50	○ IDP 211						
				246	190	168		○ 523,50	○ 604,-	○ IDP 212						
				309	253	231		○ 680,-	○ 785,-	○ IDP 213 ○ IDP 214						
Ø 21.5 -Ø 21.9	YTDI 215 □ FSL KRUZ 215 □ FSL	25.0	T (3xD) P (5xD) H (7xD) L (10XD)	165	109	86	32	● 350,50	○ 400,50	● IDP 215	€ 123,-	CS 200-215 SL	T8 Torque 1.5Nm (Max)	M 3x6	1.5 mm	
				208	152	129		● 465,-	○ 536,50	○ IDP 216						
				251	195	172		○ 523,50	○ 604,-	○ IDP 217						
				316	260	237		○ 680,-	○ 785,-	○ IDP 218 ○ IDP 219						
Ø 22.0 -Ø 22.4	YTDI 220 □ FSL KRUZ 220 □ FSL	25.0	T (3xD) P (5xD) H (7xD) L (10XD)	167	111	88	32	● 350,50	○ 400,50	● IDP 220	€ 136,-	CS 220-235 SL	T8 Torque 1.5Nm (Max)	M 3x6	1.5 mm	
				211	155	132		● 496,50	○ 573,-	○ IDP 221						
				255	199	176		○ 590,-	○ 684,-	○ IDP 222						
				321	265	242		○ 766,50	○ 890,50	○ IDP 223 ○ IDP 224						
Ø 22.5 -Ø 22.9	YTDI 225 □ FSL KRUZ 225 □ FSL	25.0	T (3xD) P (5xD) H (7xD) L (10XD)	169	113	90	32	● 350,50	○ 400,50	● IDP 225	€ 136,-	CS 220-235 SL	T8 Torque 1.5Nm (Max)	M 3x6	1.5 mm	
				214	158	135		● 496,50	○ 573,-	○ IDP 226						
				259	203	180		○ 590,-	○ 684,-	○ IDP 227						
				327	271	248		○ 766,50	○ 890,50	○ IDP 228 ○ IDP 229						
Ø 23.0 -Ø 23.4	YTDI 230 □ FSL KRUZ 230 □ FSL	25.0	T (3xD) P (5xD) H (7xD) L (10XD)	172	116	92	32	● 350,50	○ 400,50	● IDP 230	€ 136,-	CS 220-235 SL	T8 Torque 1.5Nm (Max)	M 3x6	1.5 mm	
				218	162	138		● 496,50	○ 573,-	○ IDP 231						
				264	208	184		○ 590,-	○ 684,-	○ IDP 232						
				333	277	253		○ 766,50	○ 890,50	○ IDP 233 ○ IDP 234						
Ø 23.5 -Ø 23.9	YTDI 235 □ FSL KRUZ 235 □ FSL	25.0	T (3xD) P (5xD) H (7xD) L (10XD)	174	118	94	32	● 350,50	○ 400,50	● IDP 235	€ 136,-	CS 220-235 SL	T8 Torque 1.5Nm (Max)	M 3x6	1.5 mm	
				221	165	141		● 496,50	○ 573,-	○ IDP 236						
				268	212	188		○ 590,-	○ 684,-	○ IDP 237						
				339	283	259		○ 766,50	○ 890,50	○ IDP 238 ○ IDP 239						
Ø 24.0 -Ø 24.4	YTDI 240 □ FSL KRUZ 240 □ FSL	32.0	T (3xD) P (5xD) H (7xD) L (10XD)	181	121	96	39	● 432,-	○ 495,50	● IDP 240	€ 166,-	CS 240-255 SL	T15 Torque 3,5Nm (Max)	M 3x6	1.5 mm	
				229	169	144		● 524,50	○ 604,-	○ IDP 241						
				277	217	192		○ 599,50	○ 692,50	○ IDP 242						
				349	289	264		○ 778,-	○ 899,-	○ IDP 243 ○ IDP 244						
Ø 24.5 -Ø 24.9	YTDI 245 □ FSL KRUZ 245 □ FSL	32.0	T (3xD) P (5xD) H (7xD) L (10XD)	183	123	98	39	● 432,-	○ 495,50	● IDP 245	€ 166,-	CS 240-255 SL	T15 Torque 3,5Nm (Max)	M 3x6	1.5 mm	
				232	172	147		● 524,50	○ 604,-	○ IDP 246						
				281	221	196		○ 599,50	○ 692,50	○ IDP 247						
				355	295	270		○ 778,-	○ 899,-	○ IDP 248 ○ IDP 249						
Ø 25.0 -Ø 25.4	YTDI 250 □ FSL KRUZ 250 □ FSL	32.0	T (3xD) P (5xD) H (7xD) L (10XD)	185	125	100	39	● 432,-	○ 495,50	● IDP 250	€ 166,-	CS 240-255 SL	T15 Torque 3,5Nm (Max)	M 3x6	1.5 mm	
				235	175	150		● 524,50	○ 604,-	○ IDP 251						
				285	225	200		○ 599,50	○ 692,50	○ IDP 252						
				360	300	275		○ 778,-	○ 899,-	○ IDP 253 ○ IDP 254						
Ø 25.5 -Ø 25.9	YTDI 255 □ FSL KRUZ 255 □ FSL	32.0	T (3xD) P (5xD) H (7xD) L (10XD)	188	128	102	39	● 432,-	○ 495,50	● IDP 255	€ 166,-	CS 240-255 SL	T15 Torque 3,5Nm (Max)	M 3x6	1.5 mm	
				239	179	153		● 524,50	○ 604,-	○ IDP 256						
				290	230	204		○ 599,50	○ 692,50	○ IDP 257						
				367	307	281		○ 778,-	○ 899,-	○ IDP 258 ○ IDP 259						
Ø 26.0 -Ø 26.4	YTDI 260 □ FSL KRUZ 260 □ FSL	32.0	T (3xD) P (5xD) H (7xD) L (10XD)	190	130	104	39	● 432,-	○ 495,50	● IDP 260	€ 190,-	CS 260-275 SL	T15 Torque 3,5Nm (Max)	M 3x6	1.5 mm	
				242	182	156		● 591,50	○ 684,-	○ IDP 261						
				294	234	208		○ 700,-	○ 809,50	○ IDP 262						
				372	312	286		○ 908,-	○ 1050,-	○ IDP 263 ○ IDP 264						
Ø 26.5 -Ø 26.9	YTDI 265 □ FSL KRUZ 265 □ FSL	32.0	T (3xD) P (5xD) H (7xD) L (10XD)	193	133	106	39	● 432,-	○ 495,50	● IDP 265	€ 190,-	CS 260-275 SL	T15 Torque 3,5Nm (Max)	M 3x6	1.5 mm	
				246	186	159		● 591,50	○ 684,-	○ IDP 266						
				299	239	212		○ 700,-	○ 809,50	○ IDP 267						
				379	319	292		○ 908,-	○ 1050,-	○ IDP 268 ○ IDP 269						
Ø 27.0 -Ø 27.4	YTDI 270 □ FSL KRUZ 270 □ FSL	32.0	T (3xD) P (5xD) H (7xD) L (10XD)	195	135	108	39	● 432,-	○ 495,50	● IDP 270	€ 190,-	CS 260-275 SL	T15 Torque 3,5Nm (Max)	M 4x8	2.0 mm	
				249	189	162		● 591,50	○ 684,-	○ IDP 271						
				303	243	216		○ 700,-	○ 809,50	○ IDP 272						
				384	324	297		○ 908,-	○ 1050,-	○ IDP 273 ○ IDP 274						
Ø 27.5 -Ø 27.9	YTDI 275 □ FSL KRUZ 275 □ FSL	32.0	T (3xD) P (5xD) H (7xD) L (10XD)	197	137	110	39	● 432,-	○ 495,50	● IDP 275	€ 190,-	CS 260-275 SL	T15 Torque 3,5Nm (Max)	M 4x8	2.0 mm	
				252	192	165		● 591,50	○ 684,-	○ IDP 276						
				307	247	220		○ 700,-	○ 809,50	○ IDP 277						
				390	330	303		○ 908,-	○ 1050	○ IDP 278 ○ IDP 279						
Ø 28.0 -Ø 28.4	YTDI 280 □ FSL KRUZ 280 □ FSL	32.0	T (3xD) P (5xD) H (7xD) L (10XD)	200	140	112	39	● 561,50	○ 652,-	● IDP 280	€ 243,50	CS 280-295 SL	T15 Torque 3,5Nm (Max)	M 4x8	2.0 mm	
				256	196	168		● 591,50	○ 684,-	○ IDP 281						
				312	252	224		○ 700,-	○ 811,50	○ IDP 282						
				396	336	308		○ 908,-	○ 1054,50	○ IDP 283 ○ IDP 284						

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

2024

MILLING
MINIMILL
MOULDMILL
MICROTOOLS
AMS
MINITOLS
GROOVING
GE DRILLS
NICECUT
YES DRILLS

KRUZ-FSL, YTDI-FSL Flange body & Carbide insert

Hole size range	Body Code No.	Shank Size (Ød)	Cutting depth (Length x 40)	L1	L2	L3	Flanged dia. (ØFd)	YTDI		KRUZ		IDP	Cap Screw	Torx driver	Set Screw	L-wrench
								STOCK	€	STOCK	€					
ø 28.5 ~ø 28.9	YTDI 285 □ FSL KRUZ 285 □ FSL	32.0	T (3xD) P (5xD) H (7xD) L (10XD)	202	142	114	39	● 561,50	○ 652,-	● IDP 285	€ 243,50	CS 280-295 SL	T15 Torque 3.5Nm (Max)	M 4x8	2.0 mm	
				259	199	171		● 591,50	○ 684,-	○ IDP 286						
				316	256	228		○ 700,-	○ 811,50	○ IDP 287						
				402	342	314		○ 908,-	○ 1054,50	○ IDP 288 ○ IDP 289						
ø 29.0 ~ø 29.4	YTDI 290 □ FSL KRUZ 290 □ FSL	32.0	T (3xD) P (5xD) H (7xD) L (10XD)	205	145	116	39	● 561,50	○ 652,-	● IDP 290	€ 243,50	CS 280-295 SL	T15 Torque 3.5Nm (Max)	M 4x8	2.0 mm	
				263	203	174		● 591,50	○ 684,-	○ IDP 291						
				321	261	232		○ 700,-	○ 811,50	○ IDP 292						
				408	348	319		○ 908,-	○ 1054,50	○ IDP 293 ○ IDP 294						
ø 29.5 ~ø 29.9	YTDI 295 □ FSL KRUZ 295 □ FSL	32.0	T (3xD) P (5xD) H (7xD) L (10XD)	207	147	118	39	● 561,50	○ 652,-	● IDP 295	€ 243,50	CS 280-295 SL	T15 Torque 3.5Nm (Max)	M 4x8	2.0 mm	
				266	206	177		● 591,50	○ 684,-	○ IDP 296						
				325	265	236		○ 700,-	○ 811,50	○ IDP 297						
				414	354	325		○ 908,-	○ 1054,50	○ IDP 298 ○ IDP 299						
ø 30.0 ~ø 30.4	YTDI 300 □ FSL KRUZ 300 □ FSL	32.0	T (3xD) P (5xD) H (7xD) L (10XD)	209	149	120	39	● 561,50	○ 652,-	● IDP 300	€ 259,-	CS 300-315 SL	T20 Torque 4.0 Nm (Max)	M 4x8	2.0 mm	
				269	209	180		● 591,50	○ 684,-	○ IDP 301						
				329	269	240		○ 713,-	○ 821,-	○ IDP 302						
				419	359	330		○ 925,-	○ 1064,50	○ IDP 303 ○ IDP 304						
ø 30.5 ~ø 30.9	YTDI 305 □ FSL KRUZ 305 □ FSL	32.0	T (3xD) P (5xD) H (7xD) L (10XD)	212	152	122	39	● 561,50	○ 652,-	○ IDP 305	€ 259,-	CS 300-315 SL	T20 Torque 4.0 Nm (Max)	M 4x8	2.0 mm	
				273	213	183		● 591,50	○ 684,-	○ IDP 306						
				334	274	244		○ 713,-	○ 821,-	○ IDP 307						
				426	366	336		○ 925,-	○ 1064,50	○ IDP 308 ○ IDP 309						
ø 31.0 ~ø 31.4	YTDI 310 □ FSL KRUZ 310 □ FSL	32.0	T (3xD) P (5xD) H (7xD) L (10XD)	214	154	124	39	● 561,50	○ 652,-	○ IDP 310	€ 259,-	CS 300-315 SL	T20 Torque 4.0 Nm (Max)	M 5x10	2.5 mm	
				276	216	186		● 591,50	○ 684,-	○ IDP 311						
				338	278	248		○ 713,-	○ 821,-	○ IDP 312						
				431	371	341		○ 925,-	○ 1064,50	○ IDP 313 ○ IDP 314						
ø 31.5 ~ø 31.9	YTDI 315 □ FSL KRUZ 315 □ FSL	32.0	T (3xD) P (5xD) H (7xD) L (10XD)	217	157	126	39	● 561,50	○ 652,-	○ IDP 315	€ 259,-	CS 300-315 SL	T20 Torque 4.0 Nm (Max)	M 5x10	2.5 mm	
				280	220	189		● 591,50	○ 684,-	○ IDP 316						
				343	283	252		○ 713,-	○ 821,-	○ IDP 317						
				438	378	347		○ 925,-	○ 1064,50	○ IDP 318 ○ IDP 319						
ø 32.0 ~ø 32.4	YTDI 320 □ FSL KRUZ 320 □ FSL	32.0	T (3xD) P (5xD) H (7xD) L (10XD)	219	159	128	39	● 561,50	○ 652,-	○ IDP 320	€ 278,-	CS 320-355 SL	T20 Torque 4.0 Nm (Max)	M 5x10	2.5 mm	
				283	223	192		● 591,50	○ 684,-	○ IDP 321						
				347	287	256		○ 713,-	○ 827,50	○ IDP 322						
				443	383	352		○ 925,-	○ 1075,-	○ IDP 323 ○ IDP 324						
ø 32.5 ~ø 32.9	YTDI 325 □ FSL KRUZ 325 □ FSL	32.0	T (3xD) P (5xD) H (7xD) L (10XD)	221	161	130	39	● 561,50	○ 652,-	○ IDP 325	€ 278,-	CS 320-355 SL	T20 Torque 4.0 Nm (Max)	M 5x10	2.5 mm	
				286	226	195		● 591,50	○ 684,-	○ IDP 326						
				351	291	260		○ 713,-	○ 827,50	○ IDP 327						
				449	389	358		○ 925,-	○ 1075,-	○ IDP 328 ○ IDP 329						
ø 33.0 ~ø 33.4	YTDI 330 □ FSL KRUZ 330 □ FSL	32.0	T (3xD) P (5xD) H (7xD) L (10XD)	224	164	132	39	● 561,50	○ 652,-	○ IDP 330	€ 278,-	CS 320-355 SL	T20 Torque 4.0 Nm (Max)	M 5x10	2.5 mm	
				290	230	198		● 591,50	○ 684,-	○ IDP 331						
				356	296	264		○ 713,-	○ 827,50	○ IDP 332						
				455	395	363		○ 925,-	○ 1075,-	○ IDP 333 ○ IDP 334						
ø 33.5 ~ø 33.9	YTDI 335 □ FSL KRUZ 335 □ FSL	32.0	T (3xD) P (5xD) H (7xD) L (10XD)	226	166	134	39	● 561,50	○ 652,-	○ IDP 335	€ 278,-	CS 320-355 SL	T20 Torque 4.0 Nm (Max)	M 5x10	2.5 mm	
				293	233	201		● 591,50	○ 684,-	○ IDP 336						
				360	300	268		○ 713,-	○ 827,50	○ IDP 337						
				461	401	369		○ 925,-	○ 1075,-	○ IDP 338 ○ IDP 339						
ø 34.0 ~ø 34.4	YTDI 340 □ FSL KRUZ 340 □ FSL	40.0	T (3xD) P (5xD) H (7xD) L (10XD)	239	169	136	55	● 729,-	○ 851,50	○ IDP 340	€ 318,-	CS 320-355 SL	T20 Torque 4.0 Nm (Max)	M 5x10	2.5 mm	
				307	237	204		● 929,50	○ 1162,50	○ IDP 341						
				375	305	272		○ 1060,50	○ 1329,50	○ IDP 342						
				477	407	374		○ 1376,-	○ 1726,50	○ IDP 343 ○ IDP 344						
ø 34.5 ~ø 34.9	YTDI 345 □ FSL KRUZ 345 □ FSL	40.0	T (3xD) P (5xD) H (7xD) L (10XD)	241	171	138	55	○ 729,-	○ 851,50	○ IDP 345	€ 318,-	CS 320-355 SL	T20 Torque 4.0 Nm (Max)	M 5x10	2.5 mm	
				310	240	207		● 929,50	○ 1162,50	○ IDP 346						
				379	309	276		○ 1060,50	○ 1329,50	○ IDP 347						
				483	413	380		○ 1376,-	○ 1726,50	○ IDP 348 ○ IDP 349						
ø 35.0 ~ø 35.4	YTDI 350 □ FSL KRUZ 350 □ FSL	40.0	T (3xD) P (5xD) H (7xD) L (10XD)	243	173	140	55	○ 729,-	○ 851,50	○ IDP 350	€ 318,-	CS 320-355 SL	T20 Torque 4.0 Nm (Max)	M 5x10	2.5 mm	
				313	243	210		● 929,50	○ 1162,50	○ IDP 351						
				383	313	280		○ 1060,50	○ 1329,50	○ IDP 352						
				488	418	385		○ 1376,-	○ 1726,50	○ IDP 353 ○ IDP 354						
ø 35.5 ~ø 35.9	YTDI 355 □ FSL KRUZ 355 □ FSL	40.0	T (3xD) P (5xD) H (7xD) L (10XD)	246	176	142	55	○ 729,-	○ 851,50	○ IDP 355	€ 318,-	CS 320-355 SL	T20 Torque 4.0 Nm (Max)	M 5x10	2.5 mm	
				317	247	213		● 929,50	○ 1162,50	○ IDP 356						
				388	318	284		○ 1060,50	○ 1329,50	○ IDP 357						
				495	425	391		○ 1376,-	○ 1726,50	○ IDP 358 ○ IDP 359						
ø 36.0 ~ø 36.4	YTDI 360 □ FSL KRUZ 360 □ FSL	40.0	T (3xD) P (5xD) H (7xD) L (10XD)	248	178	144	55	○ 756,50	○ 881,-	○ IDP 360	€ 355,-	CS 360-395 SL	T20 Torque 4.0 Nm (Max)	M 5x10	2.5 mm	
				320	250	216		● 950,-	○ 1190,50	○ IDP 361						
				392	322	288		○ 1143,50	○ 1428,-	○ IDP 362						
				500	430	396		○ 1487,-	○ 1855,50	○ IDP 363 ○ IDP 364						

KRUZ-FSL, YTDI-FSL Flange body & Carbide insert

Hole size range	Body Code No.	Shank Size (φd)	Cutting depth (Length x 40)	L1	L2	L3	Flanged dia. (φFd)	YTDI		KRUZ		IDP	Cap Screw	Torx driver	Set Screw	L-wrench	
								STOCK	€	STOCK	€						
φ 36.5 -φ 36.9	YTDI 365 □ FSL KRUZ 365 □ FSL	40.0	T (3xD)	251	181	146	55	○	756,50	○	881,-	○ IDP 365 ○ IDP 366 ○ IDP 367 ○ IDP 368 ○ IDP 369	€ 355,-	CS 360-395 SL	T20 Torque 4.0Nm (Max)	M 5x10	2.5 mm
			P (5xD)	324	254	219		●	950,-	○	1190,50						
			H (7xD)	397	327	292		○	1143,50	○	1428,-						
			L (10XD)	507	347	402		○	1487,-	○	1855,50						
φ 37.0 -φ 37.4	YTDI 370 □ FSL KRUZ 370 □ FSL	40.0	T (3xD)	253	183	148	55	○	756,50	○	881,-	○ IDP 370 ○ IDP 371 ○ IDP 372 ○ IDP 373 ○ IDP 374	€ 355,-	CS 360-395 SL	T20 Torque 4.0Nm (Max)	M 5x10	2.5 mm
			P (5xD)	327	257	222		●	950,-	○	1190,50						
			H (7xD)	401	331	296		○	1143,50	○	1428,-						
			L (10XD)	512	442	407		○	1487,-	○	1855,50						
φ 37.5 -φ 37.9	YTDI 375 □ FSL KRUZ 375 □ FSL	40.0	T (3xD)	255	185	150	55	○	756,50	○	881,-	○ IDP 375 ○ IDP 376 ○ IDP 377 ○ IDP 378 ○ IDP 379	€ 355,-	CS 360-395 SL	T20 Torque 4.0Nm (Max)	M 5x10	2.5 mm
			P (5xD)	330	260	225		●	950,-	○	1190,50						
			H (7xD)	405	335	300		○	1143,50	○	1428,-						
			L (10XD)	518	448	413		○	1487,-	○	1855,50						
φ 38.0 -φ 38.4	YTDI 380 □ FSL KRUZ 380 □ FSL	40.0	T (3xD)	258	188	152	55	○	756,50	○	896,50	○ IDP 380 ○ IDP 381 ○ IDP 382 ○ IDP 383 ○ IDP 384	€ 404,-	CS 360-395 SL	T20 Torque 4.0Nm (Max)	M 5x10	2.5 mm
			P (5xD)	334	264	228		●	950,-	○	1203,50						
			H (7xD)	410	340	304		○	1143,50	○	1450,-						
			L (10XD)	524	454	418		○	1487,-	○	1883,50						
φ 38.5 -φ 38.9	YTDI 385 □ FSL KRUZ 385 □ FSL	40.0	T (3xD)	260	196	154	55	○	756,50	○	896,50	○ IDP 385 ○ IDP 386 ○ IDP 387 ○ IDP 388 ○ IDP 389	€ 404,-	CS 360-395 SL	T20 Torque 4.0Nm (Max)	M 5x10	2.5 mm
			P (5xD)	337	267	231		●	950,-	○	1203,50						
			H (7xD)	414	344	308		○	1143,50	○	1450,-						
			L (10XD)	530	460	424		○	1487,-	○	1883,50						
φ 39.0 -φ 39.4	YTDI 390 □ FSL KRUZ 390 □ FSL	40.0	T (3xD)	263	193	156	55	○	756,50	○	896,50	○ IDP 390 ○ IDP 391 ○ IDP 392 ○ IDP 393 ○ IDP 394	€ 404,-	CS 360-395 SL	T20 Torque 4.0Nm (Max)	M 5x10	2.5 mm
			P (5xD)	341	271	234		●	950,-	○	1203,50						
			H (7xD)	419	349	312		○	1143,50	○	1450,-						
			L (10XD)	536	466	429		○	1487,-	○	1883,50						
φ 39.5 -φ 39.9	YTDI 395 □ FSL KRUZ 395 □ FSL	40.0	T (3xD)	265	195	158	55	○	756,50	○	896,50	○ IDP 395 ○ IDP 396 ○ IDP 397 ○ IDP 398 ○ IDP 399	€ 404,-	CS 360-395 SL	T20 Torque 4.0Nm (Max)	M 5x10	2.5 mm
			P (5xD)	344	274	237		●	950,-	○	1203,50						
			H (7xD)	423	353	316		○	1143,50	○	1450,-						
			L (10XD)	542	472	435		○	1487,-	○	1883,50						
φ 40.0 -φ 40.4	YTDI 400 □ FSL KRUZ 400 □ FSL	40.0	T (3xD)	267	197	160	55	○	811,50	○	967,50	○ IDP 400 ○ IDP 401 ○ IDP 402 ○ IDP 403 ○ IDP 404	€ 445,-	CS 400-445 SL	T20 Torque 4.0Nm (Max)	M 6x12	3.0 mm
			P (5xD)	347	277	240		●	999,50	○	1255,-						
			H (7xD)	427	357	320		○	1170,-	○	1471,-						
			L (10XD)	547	477	440		○	1521,-	○	1912,50						
φ 40.5 -φ 40.9	YTDI 405 □ FSL KRUZ 405 □ FSL	40.0	T (3xD)	270	200	162	55	○	811,50	○	967,50	○ IDP 405 ○ IDP 406 ○ IDP 407 ○ IDP 408 ○ IDP 409	€ 445,-	CS 400-445 SL	T20 Torque 4.0Nm (Max)	M 6x12	3.0 mm
			P (5xD)	351	281	243		●	999,50	○	1255,-						
			H (7xD)	432	362	324		○	1170,-	○	1471,-						
			L (10XD)	554	484	446		○	1521,-	○	1912,50						
φ 41.0 -φ 41.4	YTDI 410 □ FSL KRUZ 410 □ FSL	40.0	T (3xD)	272	202	164	55	○	811,50	○	967,50	○ IDP 410 ○ IDP 411 ○ IDP 412 ○ IDP 413 ○ IDP 414	€ 445,-	CS 400-445 SL	T20 Torque 4.0 Nm (Max)	M 6x12	3.0 mm
			P (5xD)	354	284	246		●	999,50	○	1255,-						
			H (7xD)	436	366	328		○	1170,-	○	1471,-						
			L (10XD)	559	489	451		○	1521,-	○	1912,50						
φ 41.5 -φ 41.9	YTDI 415 □ FSL KRUZ 415 □ FSL	40.0	T (3xD)	275	205	166	55	○	811,50	○	967,50	○ IDP 415 ○ IDP 416 ○ IDP 417 ○ IDP 418 ○ IDP 419	€ 445,-	CS 400-445 SL	T20 Torque 4.0 Nm (Max)	M 6x12	3.0 mm
			P (5xD)	358	288	249		●	999,50	○	1255,-						
			H (7xD)	441	371	332		○	1170,-	○	1471,-						
			L (10XD)	566	496	457		○	1521,-	○	1912,50						
φ 42.0 -φ 42.4	YTDI 420 □ FSL KRUZ 420 □ FSL	40.0	T (3xD)	277	207	168	55	○	811,50	○	967,50	○ IDP 420 ○ IDP 421 ○ IDP 422 ○ IDP 423 ○ IDP 424	€ 492,50	CS 400-445 SL	T20 Torque 4.0 Nm (Max)	M 6x12	3.0 mm
			P (5xD)	361	291	252		●	1301,50	○	1588,-						
			H (7xD)	445	375	336		○	1524,50	○	1861,-						
			L (10XD)	571	501	462		○	1981,-	○	2417,50						
φ 42.5 -φ 42.9	YTDI 425 □ FSL KRUZ 425 □ FSL	40.0	T (3xD)	279	209	170	55	○	811,50	○	967,50	○ IDP 425 ○ IDP 426 ○ IDP 427 ○ IDP 428 ○ IDP 429	€ 492,50	CS 400-445 SL	T20 Torque 4.0 Nm (Max)	M 6x12	3.0 mm
			P (5xD)	364	294	255		●	1301,50	○	1588,-						
			H (7xD)	449	379	340		○	1524,50	○	1861,-						
			L (10XD)	577	507	468		○	1981,-	○	2417,50						
φ 43.0 -φ 43.4	YTDI 430 □ FSL KRUZ 430 □ FSL	40.0	T (3xD)	282	212	172	55	○	811,50	○	967,50	○ IDP 430 ○ IDP 431 ○ IDP 432 ○ IDP 433 ○ IDP 434	€ 492,50	CS 400-445 SL	T20 Torque 4.0 Nm (Max)	M 6x12	3.0 mm
			P (5xD)	368	298	258		●	1301,50	○	1588,-						
			H (7xD)	454	384	344		○	1524,50	○	1861,-						
			L (10XD)	583	513	473		○	1981,-	○	2417,50						
φ 43.5 -φ 43.9	YTDI 435 □ FSL KRUZ 435 □ FSL	40.0	T (3xD)	284	214	174	55	○	811,50	○	967,50	○ IDP 435 ○ IDP 436 ○ IDP 437 ○ IDP 438 ○ IDP 439	€ 492,50	CS 400-445 SL	T20 Torque 4.0 Nm (Max)	M 6x12	3.0 mm
			P (5xD)	371	301	261		●	1301,50	○	1588,-						
			H (7xD)	458	388	348		○	1524,50	○	1861,-						
			L (10XD)	589	519	479		○	1981,-	○	2417,50						
φ 44.0 -φ 44.4	YTDI 440 □ FSL KRUZ 440 □ FSL	40.0	T (3xD)	287	217	176	55	○	959,-	○	1165,50	○ IDP 440 ○ IDP 441 ○ IDP 442 ○ IDP 443 ○ IDP 444	€ 545,50	CS 400-445 SL	T20 Torque 4.0 Nm (Max)	M 6x12	3.0 mm
			P (5xD)	375	305	264		●	1326,-	○	1629,-						
			H (7xD)	463	393	352		○	1613,-	○	1975,-						
			L (10XD)	595	525	484		○	2098,-	○	2565,50						

● Disponibile - Lieferbar - On stock

○ A richiesta - Auf Anfrage - On request

2024

MILLING
MINIMILL
MOULDMILL
MICROTOOLS AMS
MINITOLS
GROOVING
GE DRILLS
NICECUT
YES DRILLS

KRUZ-FSL, YTDI-FSL Flange body & Carbide insert

Hole size range	Body Code No.	Shank Size (Ød)	Cutting depth (Length x 40)	L1	L2	L3	Flanged dia. (ØFd)	YTDI		KRUZ		IDP	Cap Screw	Torx driver	Set Screw	L-wrench	
								STOCK	€	STOCK	€						
ø 44.5 ~ø 44.9	YTDI 445 □ FSL KRUZ 445 □ FSL	40.0	T (3xD) P (5xD) H (7xD) L (10xD)	289	219	178	55	○	959,-	○	1165,50	○ IDP 445 ○ IDP 446 ○ IDP 447 ○ IDP 448 ○ IDP 449	€ 545,50	CS 400-445 SL	Torque 4.0Nm (Max)	M 6x12	3.0 mm
				378	308	267		○	1326,-	○	1629,-						
				467	397	356		○	1613,-	○	1975,-						
				601	531	490		○	2098,-	○	2565,50						
ø 45.0 ~ø 45.4	YTDI 450 □ FSL KRUZ 450 □ FSL	40.0	T (3xD) P (5xD) H (7xD) L (10xD)	291	221	180	55	○	959,-	○	1165,50	○ IDP 450 ○ IDP 451 ○ IDP 452 ○ IDP 453 ○ IDP 454	€ 545,50	CS 450-500 SL	Torque 4.0Nm (Max)	M 6x12	3.0 mm
				381	311	270		○	1326,-	○	1629,-						
				471	401	360		○	1613,-	○	1975,-						
				606	536	495		○	2098,-	○	2565,50						
ø 45.5 ~ø 45.9	YTDI 455 □ FSL KRUZ 455 □ FSL	40.0	T (3xD) P (5xD) H (7xD) L (10xD)	294	224	182	55	○	959,-	○	1165,50	○ IDP 455 ○ IDP 456 ○ IDP 457 ○ IDP 458 ○ IDP 459	€ 545,50	CS 450-500 SL	Torque 4.0Nm (Max)	M 6x12	3.0 mm
				385	315	273		○	1326,-	○	1629,-						
				476	406	364		○	1613,-	○	1975,-						
				613	543	501		○	2098,-	○	2565,50						
ø 46.0 ~ø 46.4	YTDI 460 □ FSL KRUZ 460 □ FSL	40.0	T (3xD) P (5xD) H (7xD) L (10xD)	296	226	184	55	○	959,-	○	1165,50	○ IDP 460 ○ IDP 461 ○ IDP 462 ○ IDP 463 ○ IDP 464	€ 600,-	CS 450-500 SL	Torque 4.0Nm (Max)	M 6x12	3.0 mm
				388	318	276		○	1326,-	○	1629,-						
				480	410	368		○	1613,-	○	1975,-						
				618	548	506		○	2098,-	○	2565,50						
ø 46.5 ~ø 46.9	YTDI 465 □ FSL KRUZ 465 □ FSL	40.0	T (3xD) P (5xD) H (7xD) L (10xD)	299	229	186	55	○	959,-	○	1165,50	○ IDP 465 ○ IDP 466 ○ IDP 467 ○ IDP 468 ○ IDP 469	€ 600,-	CS 450-500 SL	Torque 4.0Nm (Max)	M 6x12	3.0 mm
				392	322	279		○	1326,-	○	1629,-						
				485	415	372		○	1613,-	○	1975,-						
				625	555	512		○	2098,-	○	2565,50						
ø 47.0 ~ø 47.4	YTDI 470 □ FSL KRUZ 470 □ FSL	40.0	T (3xD) P (5xD) H (7xD) L (10xD)	301	231	188	55	○	959,-	○	1165,50	○ IDP 470 ○ IDP 471 ○ IDP 472 ○ IDP 473 ○ IDP 474	€ 600,-	CS 450-500 SL	Torque 4.0Nm (Max)	M 6x12	3.0 mm
				395	325	282		○	1326,-	○	1629,-						
				489	419	376		○	1613,-	○	1975,-						
				630	560	517		○	2098,-	○	2565,50						
ø 47.5 ~ø 47.9	YTDI 475 □ FSL KRUZ 475 □ FSL	40.0	T (3xD) P (5xD) H (7xD) L (10xD)	303	233	190	55	○	959,-	○	1165,50	○ IDP 475 ○ IDP 476 ○ IDP 477 ○ IDP 478 ○ IDP 479	€ 600,-	CS 450-500 SL	Torque 4.0Nm (Max)	M 6x12	3.0 mm
				398	328	285		○	1326,-	○	1629,-						
				493	423	380		○	1613,-	○	1975,-						
				636	566	523		○	2098,-	○	2565,50						
ø 48.0 ~ø 48.4	YTDI 480 □ FSL KRUZ 480 □ FSL	40.0	T (3xD) P (5xD) H (7xD) L (10xD)	306	236	192	55	○	1000,50	○	1246,-	○ IDP 480 ○ IDP 481 ○ IDP 482 ○ IDP 483 ○ IDP 484	€ 639,-	CS 450-500 SL	Torque 4.0Nm (Max)	M 6x12	3.0 mmv
				402	332	288		○	1376,-	○	1692,-						
				498	428	384		○	1677,-	○	2059,-						
				642	572	528		○	2179,-	○	2675,50						
ø 48.5 ~ø 48.9	YTDI 485 □ FSL KRUZ 485 □ FSL	40.0	T (3xD) P (5xD) H (7xD) L (10xD)	308	238	194	55	○	1000,50	○	1246,-	○ IDP 485 ○ IDP 486 ○ IDP 487 ○ IDP 488 ○ IDP 489	€ 639,-	CS 450-500 SL	Torque 4.0Nm (Max)	M 6x12	3.0 mm
				405	335	291		○	1376,-	○	1692,-						
				502	432	388		○	1677,-	○	2059,-						
				648	578	534		○	2179,-	○	2675,50						
ø 49.0 ~ø 49.4	YTDI 490 □ FSL KRUZ 490 □ FSL	40.0	T (3xD) P (5xD) H (7xD) L (10xD)	311	241	196	55	○	1000,50	○	1246,-	○ IDP 490 ○ IDP 491 ○ IDP 492 ○ IDP 493 ○ IDP 494	€ 639,-	CS 450-500 SL	Torque 4.0Nm (Max)	M 6x12	3.0 mm
				409	339	294		○	1376,-	○	1692,-						
				507	437	392		○	1677,-	○	2059,-						
				654	584	539		○	2179,-	○	2675,50						
ø 49.5 ~ø 49.9	YTDI 495 □ FSL KRUZ 495 □ FSL	40.0	T (3xD) P (5xD) H (7xD) L (10xD)	313	243	198	55	○	1000,50	○	1246,-	○ IDP 495 ○ IDP 496 ○ IDP 497 ○ IDP 498 ○ IDP 499	€ 639,-	CS 450-500 SL	Torque 4.0Nm (Max)	M 6x12	3.0 mm
				412	342	297		○	1376,-	○	1692,-						
				511	441	396		○	1677,-	○	2059,-						
				660	590	545		○	2179,-	○	2675,50						
ø 50.0 ~ø 50.4	YTDI 500 □ FSL KRUZ 500 □ FSL	40.0	T (3xD) P (5xD) H (7xD) L (10xD)	315	245	200	55	○	1000,50	○	1246,-	○ IDP 500 ○ IDP 501 ○ IDP 502 ○ IDP 503 ○ IDP 504	€ 713,50	CS 450-500 SL	Torque 4.0Nm (Max)	M 6x12	3.0 mm
				415	345	300		○	1376,-	○	1692,-						
				515	445	400		○	1677,-	○	2059,-						
				665	595	550		○	2179,-	○	2675,50						

KRUZ-FSL Drills, Cutting Speed Recommendation

Material group	DRILL DIAM									
	ø 8-16 mm		ø 16-25 mm		ø 25-32 mm		ø 32-40 mm		ø 40-50 mm	
	Speed (m/min)	Feed (mm/rev)	Speed (m/min)	Feed (mm/rev)	Speed (m/min)	Feed (mm/rev)	Speed (m/min)	Feed (mm/rev)	Speed (m/min)	Feed (mm/rev)
Grey cast iron (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
Nodular cast iron (FCD)	80~140	0.15~0.25	80~140	0.22~0.45	80~150	0.32~0.52	90~180	0.35~0.62	90~200	0.38~0.60
Carbon steel (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
Alloy steel (SCM440)	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
Hardened steel (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
Stainless steel (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
Alluminium 13HB (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

• This data is recommended for 3xDia, and should be reduced about 15-20% for 5xD, 7xD, 10xD drills.

• The data is normally suggested for oil-mist(MQL) coolant condition and also possible to run in other normal condition if machining environment like clamping etc. are secured in good.