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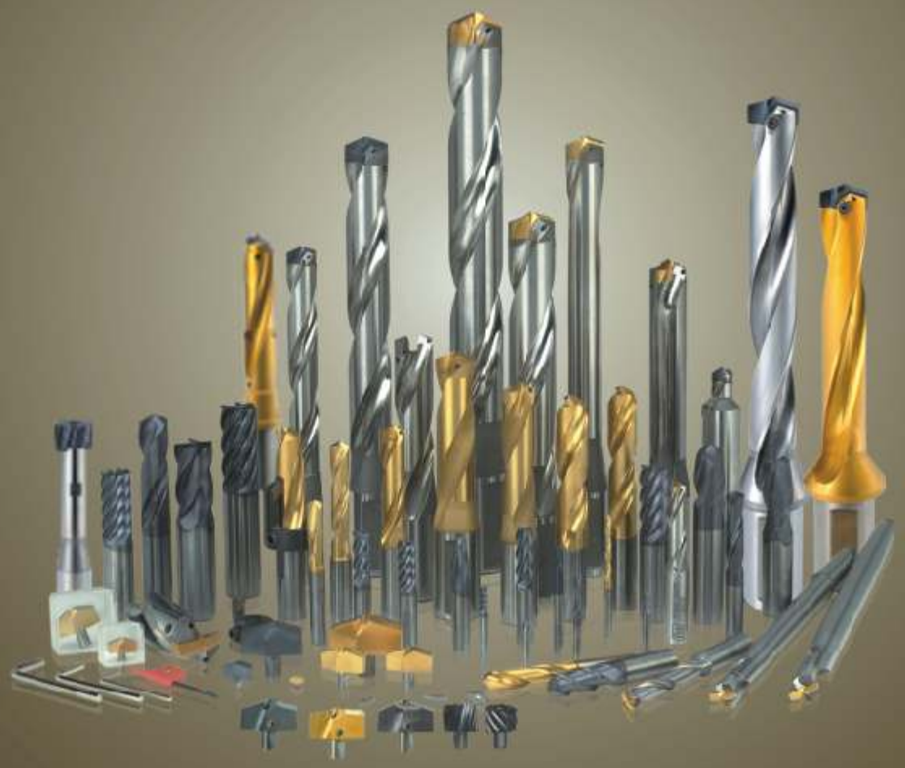

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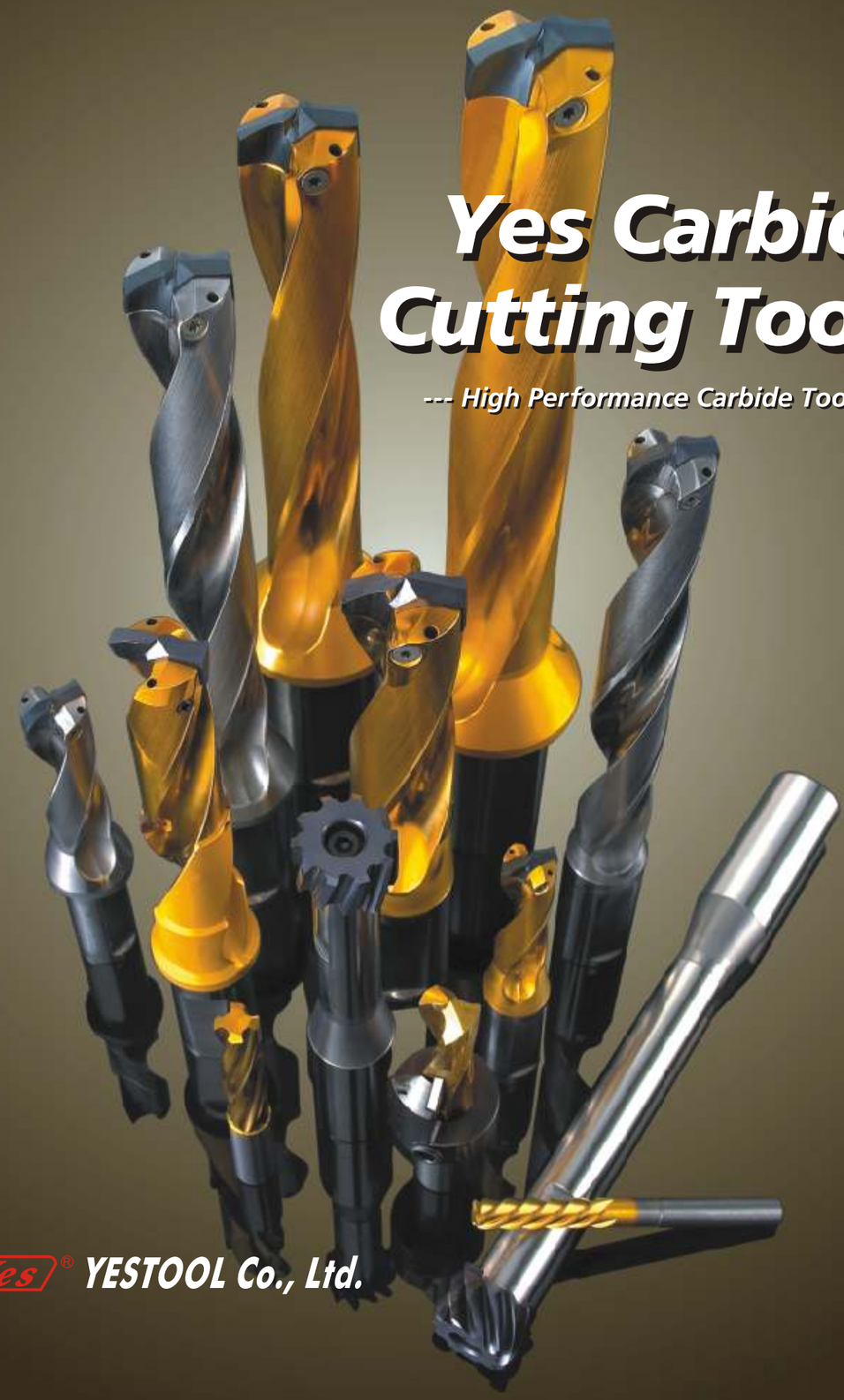
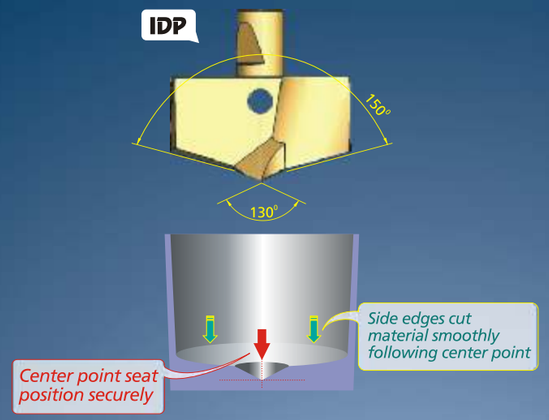
2012/01

Yes Carbide Cutting Tools

--- High Performance Carbide Tools Line



YESTOOL Co., Ltd.



Your Metal Cutting
Solution by Yes® Carbide Cutting Tools

KRUZ-SL, YTDI-SL body & Carbide insert

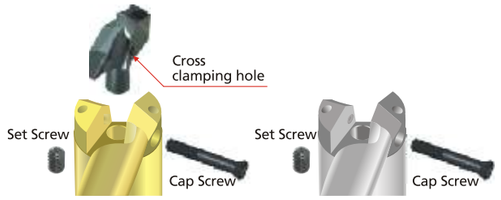
- Strong Locking system to support carbide insert
- Interchangeable <IDP>, <IDF>, <ID> carbide drill inserts
- Drill body consists of premium tool steel with heat treatment
- Increased cutting speed & feed
- Internal coolant fed design

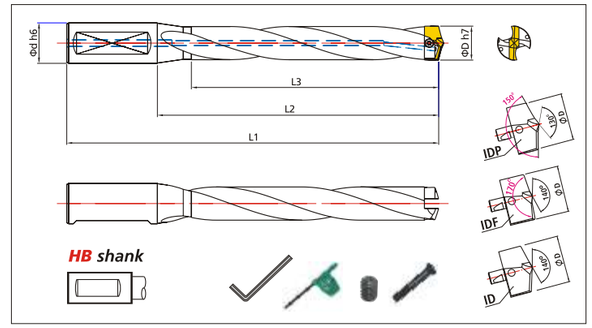
Insert selection

IDP — Deep hole & general purpose

IDF — Thin plate & shallow depth

ID — General purpose





Please make required cutting depth in the ☐ like T, P, H, L

Hole size range	Body Code No.	Shank Size(Φd)	Cutting depth (Length x ΦD)	L1	L2	L3	Insert Code No. to fit in body (IDP / IDF / ID)	Cap Screw	Torx driver	Set Screw	L-wrench
Φ8.0 ~Φ8.4	YTDI 080☐SL KRUZ 080☐SL	10.0 (HA)	T(3xD)	85	40	26	IDP 080, IDP 081, IDP 082, IDP 083, IDP 084 / IDF 080, IDF 081, IDF 082, IDF 083, IDF 084 / ID 080, ID 081, ID 082, ID 083, ID 084	CS 080 - 095 SL	T6 Torque 0.6Nm (Max)	None	None
			P(5xD)	100	55	43					
			H(7xD)	117	72	60					
Φ8.5 ~Φ8.9	YTDI 085☐SL KRUZ 085☐SL		T(3xD)	85	40	26	IDP 085, IDP 086, IDP 087, IDP 088, IDP 089 / IDF 085, IDF 086, IDF 087, IDF 088, IDF 089 / ID 085, ID 086, ID 087, ID 088, ID 089				
			P(5xD)	100	55	46					
			H(7xD)	122	77	60					
Φ9.0 ~Φ9.4	YTDI 090☐SL KRUZ 090☐SL		T(3xD)	85	40	33	IDP 090, IDP 091, IDP 092, IDP 093, IDP 094 / IDF 090, IDF 091, IDF 092, IDF 093, IDF 094 / ID 090, ID 091, ID 092, ID 093, ID 094				
			P(5xD)	105	60	48					
			H(7xD)	126	81	68					
Φ9.5 ~Φ9.9	YTDI 095☐SL KRUZ 095☐SL	12.0 (HA)	T(3xD)	95	47	33	IDP 095, IDP 096, IDP 097, IDP 098, IDP 099 / IDF 095, IDF 096, IDF 097, IDF 098, IDF 099 / ID 095, ID 096, ID 097, ID 098, ID 099				
			P(5xD)	115	67	58					
			H(7xD)	140	92	78					
Φ10.0 ~Φ10.4	YTDI 100☐SL KRUZ 100☐SL		T(3xD)	95	47	33	IDP 100, IDP 101, IDP 102, IDP 103, IDP 104 / IDF 100, IDF 101, IDF 102, IDF 103, IDF 104 / ID 100, ID 101, ID 102, ID 103, ID 104	CS100 -115 SL			
			P(5xD)	115	67	58					
			H(7xD)	140	92	78					
Φ10.5 ~Φ10.9	YTDI 105☐SL KRUZ 105☐SL		T(3xD)	100	52	43	IDP 105, IDP 106, IDP 107, IDP 108, IDP 109 / IDF 105, IDF 106, IDF 107, IDF 108, IDF 109 / ID 105, ID106, ID107, ID108, ID109				
			P(5xD)	125	77	68					
			H(7xD)	150	102	88					
Φ11.0 ~Φ11.4	YTDI 110☐SL KRUZ 110☐SL		T(3xD)	100	52	43	IDP 110, IDP 111, IDP 112, IDP 113, IDP 114 / IDF 110, IDF 111, IDF 112, IDF 113, IDF 114 / ID 110, ID 111, ID 112, ID 113, ID 114				
			P(5xD)	125	77	68					
			H(7xD)	150	102	88					
			L(10xD)	178	130	121					
Φ11.5 ~Φ11.9	YTDI 115☐SL KRUZ 115☐SL		T(3xD)	105	57	48	IDP 115, IDP 116, IDP 117, IDP 118, IDP 119 / IDF 115, IDF 116, IDF 117, IDF 118, IDF 119 / ID 115, ID 116, ID 117, ID 118, ID 119				
			P(5xD)	130	82	73					
			H(7xD)	160	112	98					
			L(10xD)	185	137	127					
Φ12.0 ~Φ12.4	YTDI 120☐SL KRUZ 120☐SL	16.0	T(3xD)	105	57	48	IDP 120, IDP 121, IDP 122, IDP 123, IDP 124 / IDF 120, IDF 121, IDF 122, IDF 123, IDF 124 / ID 120, ID 121, ID 122, ID 123, ID 124	CS120 -135 SL		M2x4	0.9mm
			P(5xD)	130	82	73					
			H(7xD)	160	112	98					
			L(10xD)	190	142	132					

Continued

KRUZ-SL, YTDI-SL body & Carbide insert

Hole size range	Body Code No.	Shank Size(Φd)	Cutting depth (Length x ΦD)	L1	L2	L3	Insert Code No. to fit in body (IDP / IDF / ID)	Cap Screw	Torx driver	Set Screw	L-wrench
Φ12.5 ~Φ12.9	YTDI 125□SL KRUZ 125□SL	16.0	T(3xD)	110	62	48	IDP 125, IDP 126, IDP 127, IDP 128, IDP 129 IDF 125, IDF 126, IDF 127, IDF 128, IDF 129 ID 125-, ID 126, ID 127, ID 128, ID 129	CS 120 -135 SL	T6 Torque 0.6Nm (Max)	M2x4	0.9mm
			P(5xD)	140	92	77					
			H(7xD)	175	127	102					
			L(10xD)	196	148	138					
Φ13.0 ~Φ13.4	YTDI 130□SL KRUZ 130□SL		T(3xD)	110	62	48	IDP 130, IDP 131, IDP 132, IDP 133, IDP 134 IDF 130, IDF 131, IDF 132, IDF 133, IDF 134 ID 130, ID 131, ID 132, ID 133, ID 134				
			P(5xD)	140	92	77					
			H(7xD)	175	127	102					
			L(10xD)	202	154	143					
Φ13.5 ~Φ13.9	YTDI 135□SL KRUZ 135□SL		T(3xD)	115	67	52	IDP 135, IDP 136, IDP 137, IDP 138, IDP 139 IDF 135, IDF 136, IDF 137, IDF 138, IDF 139 ID 135, ID 136, ID 137, ID 138, ID 139				
			P(5xD)	145	97	82					
			H(7xD)	180	132	107					
			L(10xD)	208	160	149					
Φ14.0 ~Φ14.4	YTDI 140□SL KRUZ 140□SL		T(3xD)	115	67	52	IDP 140, IDP 141, IDP 142, IDP 143, IDP 144 IDF 140, IDF 141, IDF 142, IDF 143, IDF 144 ID 140, ID 141, ID 142, ID 143, ID 144	CS 140 -155 SL	T7 Torque 0.9Nm (Max)		
			P(5xD)	145	97	82					
			H(7xD)	180	132	107					
			L(10xD)	214	166	154					
Φ14.5 ~Φ14.9	YTDI 145□SL KRUZ 145□SL		T(3xD)	125	75	55	IDP 145, IDP 146, IDP 147, IDP 148, IDP 149 IDF 145, IDF 146, IDF 147, IDF 148, IDF 149 ID 145, ID 146, ID 147, ID 148, ID 149				
			P(5xD)	148	98	85					
			H(7xD)	185	135	117					
			L(10xD)	222	172	160					
Φ15.0 ~Φ15.4	YTDI 150□SL KRUZ 150□SL		T(3xD)	125	75	55	IDP 150, IDP 151, IDP 152, IDP 153, IDP 154 IDF 150, IDF 151, IDF 152, IDF 153, IDF 154 ID 150, ID 151, ID 152, ID 153, ID 154				
			P(5xD)	158	108	95					
			H(7xD)	185	135	117					
			L(10xD)	227	177	165					
Φ15.5 ~Φ15.9	YTDI 155□SL KRUZ 155□SL		T(3xD)	125	75	55	IDP 155, IDP 156, IDP 157, IDP 158, IDP 159 IDF 155, IDF 156, IDF 157, IDF 158, IDF 159 ID 155, ID 156, ID 157, ID 158, ID 159				
			P(5xD)	158	108	95					
			H(7xD)	185	135	117					
			L(10xD)	234	184	171					
Φ16.0 ~Φ16.4	YTDI 160□SL KRUZ 160□SL		T(3xD)	130	80	55	IDP 160, IDP 161, IDP 162, IDP 163, IDP 164 IDF 160, IDF 161, IDF 162, IDF 163, IDF 164 ID 160, ID 161, ID 162, ID 163, ID 164				
			P(5xD)	160	110	97					
			H(7xD)	190	140	123					
			L(10xD)	239	189	176					
Φ16.5 ~Φ16.9	YTDI 165□SL KRUZ 165□SL		T(3xD)	130	80	55	IDP 165, IDP 166, IDP 167, IDP 168, IDP 169 IDF 165, IDF 166, IDF 167, IDF 168, IDF 169 ID 165, ID 166, ID 167, ID 168, ID 169				
			P(5xD)	160	110	97					
			H(7xD)	190	140	123					
			L(10xD)	246	196	182					
Φ17.0 ~Φ17.4	YTDI 170□SL KRUZ 170□SL	20.0	T(3xD)	130	80	55	IDP 170, IDP 171, IDP 172, IDP 173, IDP 174 IDF 170, IDF 171, IDF 172, IDF 173, IDF 174 ID 170, ID 171, ID 172, ID 173, ID 174	CS 160 -175 SL		M2.5x4	1.3mm
			P(5xD)	160	110	99					
			H(7xD)	200	150	128					
			L(10xD)	251	201	187					
Φ17.5 ~Φ17.9	YTDI 175□SL KRUZ 175□SL		T(3xD)	130	80	55	IDP 175, IDP 176, IDP 177, IDP 178, IDP 179 IDF 175, IDF 176, IDF 177, IDF 178, IDF 179 ID 175, ID 176, ID 177, ID 178, ID 179				
			P(5xD)	160	110	99					
			H(7xD)	200	150	128					
			L(10xD)	257	207	193					
Φ18.0 ~Φ18.4	YTDI 180□SL KRUZ 180□SL		T(3xD)	140	90	63	IDP 180, IDP 181, IDP 182, IDP 183, IDP 184 IDF 180, IDF 181, IDF 182, IDF 183, IDF 184 ID 180, ID 181, ID 182, ID 183, ID 184	CS 180 -195 SL	T8 Torque 1.5Nm (Max)		
			P(5xD)	170	120	100					
			H(7xD)	210	160	138					
			L(10xD)	263	213	198					
Φ18.5 ~Φ18.9	YTDI 185□SL KRUZ 185□SL		T(3xD)	140	90	63	IDP 185, IDP 186, IDP 187, IDP 188, IDP 189 IDF 185, IDF 186, IDF 187, IDF 188, IDF 189 ID 185, ID 186, ID 187, ID 188, ID 189				
			P(5xD)	170	120	100					
			H(7xD)	210	160	138					
			L(10xD)	269	219	204					
Φ19.0 ~Φ19.4	YTDI 190□SL KRUZ 190□SL		T(3xD)	140	90	63	IDP 190, IDP 191, IDP 192, IDP 193, IDP 194 IDF 190, IDF 191, IDF 192, IDF 193, IDF 194 ID 190, ID 191, ID 192, ID 193, ID 194				
			P(5xD)	170	120	100					
			H(7xD)	210	160	138					
			L(10xD)	275	225	209					
Φ19.5 ~Φ19.9	YTDI 195□SL KRUZ 195□SL		T(3xD)	140	90	63	IDP 195, IDP 196, IDP 197, IDP 198, IDP 199 IDF 195, IDF 196, IDF 197, IDF 198, IDF 199 ID 195, ID 196, ID 197, ID 198, ID 199				
			P(5xD)	170	120	100					
			H(7xD)	210	160	138					
			L(10xD)	281	231	215					
Φ20.0 ~Φ20.4	YTDI 200□SL KRUZ 200□SL	25.0	T(3xD)	150	94	69	IDP 200, IDP 201, IDP 202, IDP 203, IDP 204 IDF 200, IDF 201, IDF 202, IDF 203, IDF 204 ID 200, ID 201, ID 202, ID 203, ID 204	CS 200 -215 SL		M3x6	1.5mm
			P(5xD)	190	134	110					
			H(7xD)	230	174	153					
			L(10xD)	292	236	220					

Continued

Hole size range	Body Code No.	Shank Size(Φd)	Cutting depth (Length x ΦD)	L1	L2	L3	Insert Code No. to fit in body (IDP / IDF / ID)	Cap Screw	Torx driver	Set Screw	L-wrench
Φ20.5 ~Φ20.9	YTDI 205□SL KRUZ 205□SL	25.0	T(3xD)	150	94	69	IDP 205, IDP 206, IDP 207, IDP 208, IDP 209 IDF 205, IDF 206, IDF 207, IDF 208, IDF 209 ID 205, ID 206, ID 207, ID 208, ID 209	CS 200 -215 SL	T8 Torque 1.5Nm (Max)	M3x6	1.5mm
			P(5xD)	190	134	110					
			H(7xD)	230	174	153					
			L(10xD)	299	243	226					
Φ21.0 ~Φ21.4	YTDI 210□SL KRUZ 210□SL		T(3xD)	150	94	69	IDP 210, IDP 211, IDP 212, IDP 213, IDP 214 IDF 210, IDF 211, IDF 212, IDF 213, IDF 214 ID 210, ID 211, ID 212, ID 213, ID 214				
			P(5xD)	190	134	110					
			H(7xD)	230	174	153					
			L(10xD)	304	248	231					
Φ21.5 ~Φ21.9	YTDI 215□SL KRUZ 215□SL		T(3xD)	150	94	69	IDP 215, IDP 216, IDP 217, IDP 218, IDP 219 IDF 215, IDF 216, IDF 217, IDF 218, IDF 219 ID 215, ID 216, ID 217, ID 218, ID 219				
			P(5xD)	190	134	110					
			H(7xD)	230	174	153					
			L(10xD)	311	255	237					
Φ22.0 ~Φ22.4	YTDI 220□SL KRUZ 220□SL		T(3xD)	160	104	75	IDP 220, IDP 221, IDP 222, IDP 223, IDP 224 IDF 220, IDF 221, IDF 222, IDF 223, IDF 224 ID 220, ID 221, ID 222, ID 223, ID 224	CS 220 -235 SL			
			P(5xD)	200	144	121					
			H(7xD)	240	184	168					
			L(10xD)	316	260	242					
Φ22.5 ~Φ22.9	YTDI 225□SL KRUZ 225□SL		T(3xD)	160	104	75	IDP 225, IDP 226, IDP 227, IDP 228, IDP 229 IDF 225, IDF 226, IDF 227, IDF 228, IDF 229 ID 225, ID 226, ID 227L, ID 228L, ID 229				
			P(5xD)	200	144	121					
			H(7xD)	240	184	168					
			L(10xD)	322	266	248					
Φ23.0 ~Φ23.4	YTDI 230□SL KRUZ 230□SL		T(3xD)	160	104	75	IDP 230, IDP 231, IDP 232, IDP 233, IDP 234 IDF 230, IDF 231, IDF 232, IDF 233, IDF 234 ID 230, ID 231, ID 232, ID 233, ID 234				
			P(5xD)	200	144	121					
			H(7xD)	240	184	168					
			L(10xD)	328	272	253					
Φ23.5 ~Φ23.9	YTDI 235□SL KRUZ 235□SL		T(3xD)	160	104	75	IDP 235, IDP 236, IDP 237, IDP 238, IDP 239 IDF 235, IDF 236, IDF 237, IDF 238, IDF 239 ID 235, ID 236, ID 237, ID 238, ID 239				
			P(5xD)	200	144	121					
			H(7xD)	250	194	178					
			L(10xD)	334	278	259					
Φ24.0 ~Φ24.4	YTDI 240□SL KRUZ 240□SL	32.0	T(3xD)	170	110	83	IDP 240, IDP 241, IDP 242, IDP 243, IDP244 IDF 240, IDF 241, IDF 242, IDF 243, IDF244 ID 240, ID 241, ID 242, ID 243, ID 244	CS 240 -255 SL			
			P(5xD)	220	160	133					
			H(7xD)	270	210	183					
			L(10xD)	344	284	264					
Φ24.5 ~Φ24.9	YTDI 245□SL KRUZ 245□SL		T(3xD)	170	110	83	IDP 245, IDP 246, IDP 247, IDP 248, IDP 249 IDF 245, IDF 246, IDF 247, IDF 248, IDF 249 ID 245, ID 246, ID 247, ID 248, ID 249				
			P(5xD)	220	160	133					
			H(7xD)	270	210	183					
			L(10xD)	350	290	270					
Φ25.0 ~Φ25.4	YTDI 250□SL KRUZ 250□SL		T(3xD)	170	110	83	IDP 250, IDP 251, IDP 252, IDP 253, IDP 254 IDF 250, IDF 251, IDF 252, IDF 253, IDF 254 ID 250, ID 251, ID 252, ID 253L, ID 254				
			P(5xD)	220	160	133					
			H(7xD)	270	210	183					
			L(10xD)	355	295	275					
Φ25.5 ~Φ25.9	YTDI 255□SL KRUZ 255□SL		T(3xD)	170	110	83	IDP 255, IDP 256, IDP 257, IDP 258, IDP 259 IDF 255, IDF 256, IDF 257, IDF 258, IDF 259 ID 255, ID 256, ID 257, ID 258, ID 259				
			P(5xD)	220	160	133					
			H(7xD)	270	210	183					
			L(10xD)	362	302	281					
Φ26.0 ~Φ26.4	YTDI 260□SL KRUZ 260□SL		T(3xD)	180	120	90	IDP 260, IDP 261, IDP 262, IDP 263, IDP 264 IDF 260, IDF 261, IDF 262, IDF 263, IDF 264 ID 260, ID 261, ID 262, ID 263, ID 264	CS 260 -275 SL	T15 Torque 3.5Nm (Max)	M4x8	2.0mm
			P(5xD)	240	180	144					
			H(7xD)	290	230	198					
			L(10xD)	367	307	286					
Φ26.5 ~Φ26.9	YTDI 265□SL KRUZ 265□SL		T(3xD)	180	120	90	IDP 265, IDP 266, IDP 267, IDP 268, IDP 269 IDF 265, IDF 266, IDF 267, IDF 268, IDF 269 ID 265, ID 266, ID 267, ID 268, ID 269				
			P(5xD)	240	180	144					
			H(7xD)	290	230	198					
			L(10xD)	374	314	292					
Φ27.0 ~Φ27.4	YTDI 270□SL KRUZ 270□SL		T(3xD)	180	120	90	IDP 270, IDP 271, IDP 272, IDP 273, IDP 274 IDF 270, IDF 271, IDF 272, IDF 273, IDF 274 ID 270, ID 271, ID 272, ID 273, ID 274				
			P(5xD)	240	180	144					
			H(7xD)	290	230	198					
			L(10xD)	379	319	297					
Φ27.5 ~Φ27.9	YTDI 275□SL KRUZ 275□SL		T(3xD)	180	120	90	IDP 275, IDP 276, IDP 277, IDP 278, IDP 279 IDF 275, IDF 276, IDF 277, IDF 278, IDF 279 ID 275, ID 276, ID 277, ID 278, ID 279				
			P(5xD)	240	180	144					
			H(7xD)	290	230	198					
			L(10xD)	385	325	303					
Φ28.0 ~Φ28.4	YTDI 280□SL KRUZ 280□SL		T(3xD)	190	130	97	IDP 280, IDP 281, IDP 282, IDP 283, IDP 284 IDF 280, IDF 281, IDF 282, IDF 283, IDF 284 ID 280, ID 281, ID 282, ID 283, ID 284	CS 280 -295 SL			
			P(5xD)	250	190	155					
			H(7xD)	300	240	213					
			L(10xD)	391	331	308					

Continued

KRUZ-SL, YTDI-SL body & Carbide insert

Hole size range	Body Code No.	Shank Size(Φd)	Cutting depth (Length x ΦD)	L1	L2	L3	Insert Code No. to fit in body (IDP IDF ID)	Cap Screw	Torx driver	Set Screw	L-wrench
Φ28.5 ~Φ28.9	YTDI 285□SL KRUZ 285□SL	32.0	T(3xD)	190	130	97	IDP 285, IDP 286, IDP 287, IDP 288, IDP 289 IDF 285, IDF 286, IDF 287, IDF 288, IDF 289 ID 285, ID 286, ID 287, ID 288, ID 289	CS 280 -295 SL	T15 Torque 3.5Nm (Max)	M4x8	2.0mm
			P(5xD)	250	190	155					
			H(7xD)	300	240	213					
			L(10xD)	397	337	314					
Φ29.0 ~Φ29.4	YTDI 290□SL KRUZ 290□SL		T(3xD)	190	130	97	IDP 290, IDP 291, IDP 292, IDP 293, IDP 294 IDF 290, IDF 291, IDF 292, IDF 293, IDF 294 ID 290, ID 291, ID 292, ID 293, ID 294				
			P(5xD)	250	190	155					
			H(7xD)	300	240	213					
			L(10xD)	403	343	319					
Φ29.5 ~Φ29.9	YTDI 295□SL KRUZ 295□SL		T(3xD)	190	130	97	IDP 295, IDP 296, IDP 297, IDP 298, IDP 299 IDF 295, IDF 296, IDF 297, IDF 298, IDF 299 ID 295, ID 296, ID 297, ID 298, ID 299				
			P(5xD)	250	190	155					
			H(7xD)	300	240	213					
			L(10xD)	409	349	325					
Φ30.0 ~Φ30.4	YTDI 300□SL KRUZ 300□SL		T(3xD)	200	140	105	IDP 300, IDP 301, IDP 302, IDP 303, IDP 304 IDF 300, IDF 301, IDF 302, IDF 303, IDF 304 ID 300, ID 301, ID 302, ID 303, ID 304	CS 300 -315 SL			
			P(5xD)	260	200	165					
			H(7xD)	320	260	228					
			L(10xD)	414	354	330					
Φ30.5 ~Φ30.9	YTDI 305□SL KRUZ 305□SL		T(3xD)	200	140	105	IDP 305, IDP 306, IDP 307, IDP 308, IDP 309 IDF 305, IDF 306, IDF 307, IDF 308, IDF 309 ID 305, ID 306, ID 307, ID 308, ID 309				
			P(5xD)	260	200	165					
			H(7xD)	320	260	228					
			L(10xD)	421	361	336					
Φ31.0 ~Φ31.4	YTDI 310□SL KRUZ 310□SL		T(3xD)	200	140	105	IDP 310, IDP 311, IDP 312, IDP 313, IDP 314 IDF 310, IDF 311, IDF 312, IDF 313, IDF 314 ID 310, ID 311, ID 312, ID 313, ID 314			M5x10	2.5mm
			P(5xD)	260	200	165					
			H(7xD)	320	260	228					
			L(10xD)	426	366	341					
Φ31.5 ~Φ31.9	YTDI 315□SL KRUZ 315□SL		T(3xD)	200	140	105	IDP 315, IDP 316, IDP 317, IDP 318, IDP 319 IDF 315, IDF 316, IDF 317, IDF 318, IDF 319 ID 315, ID 316, ID 317, ID 318, ID 319				
			P(5xD)	260	200	165					
			H(7xD)	320	260	228					
			L(10xD)	433	373	347					
Φ32.0 ~Φ32.4	YTDI 320□SL KRUZ 320□SL		T(3xD)	210	150	110	IDP 320, IDP 321, IDP 322, IDP 323, IDP 324 IDF 320, IDF 321, IDF 322, IDF 323, IDF 324 ID 320, ID 321, ID 322, ID 323, ID 324	CS 320 -355 SL	T20 Torque 4.0Nm (Max)		
			P(5xD)	270	210	177					
			H(7xD)	340	280	243					
			L(10xD)	438	378	352					
Φ32.5 ~Φ32.9	YTDI 325□SL KRUZ 325□SL		T(3xD)	210	150	110	IDP 325, IDP 326, IDP 327, IDP 328, IDP 329 IDF 325, IDF 326, IDF 327, IDF 328, IDF 329 ID 325, ID 326, ID 327, ID 328, ID 329				
			P(5xD)	270	210	177					
			H(7xD)	340	280	243					
			L(10xD)	444	384	358					
Φ33.0 ~Φ33.4	YTDI 330□SL KRUZ 330□SL		T(3xD)	210	150	110	IDP 330, IDP 331, IDP 332, IDP 333, IDP 334 IDF 330, IDF 331, IDF 332, IDF 333, IDF 334 ID 330, ID 331, ID 332, ID 333, ID 334				
			P(5xD)	270	210	177					
			H(7xD)	340	280	243					
			L(10xD)	450	390	363					
Φ33.5 ~Φ33.9	YTDI 335□SL KRUZ 335□SL		T(3xD)	210	150	110	IDP 335, IDP 336, IDP 337, IDP 338, IDP 339 IDF 335, IDF 336, IDF 337, IDF 338, IDF 339 ID 335, ID 336, ID 337, ID 338, ID 339				
			P(5xD)	270	210	177					
			H(7xD)	340	280	243					
			L(10xD)	456	396	369					
Φ34.0 ~Φ34.4	YTDI 340□SL KRUZ 340□SL	40.0	T(3xD)	230	160	118	IDP 340, IDP 341, IDP 342, IDP 343, IDP 344 IDF 340, IDF 341, IDF 342, IDF 343, IDF 344 ID 340, ID 341, ID 342, ID 343, ID 344				
			P(5xD)	300	230	188					
			H(7xD)	360	290	258					
			L(10xD)	472	402	374					
Φ34.5 ~Φ34.9	YTDI 345□SL KRUZ 345□SL		T(3xD)	230	160	118	IDP 345, IDP 346, IDP 347, IDP 348, IDP 349 IDF 345, IDF 346, IDF 347, IDF 348, IDF 349 ID 345, ID 346, ID 347, ID 348, ID 349				
			P(5xD)	300	230	188					
			H(7xD)	360	290	258					
			L(10xD)	478	408	380					
Φ35.0 ~Φ35.4	YTDI 350□SL KRUZ 350□SL		T(3xD)	230	160	118	IDP 350, IDP 351, IDP 352, IDP 353, IDP 354 IDF 350, IDF 351, IDF 352, IDF 353, IDF 354 ID 350, ID 351, ID 352, ID 353, ID 354				
			P(5xD)	300	230	188					
			H(7xD)	360	290	258					
			L(10xD)	483	413	385					
Φ35.5 ~Φ35.9	YTDI 355□SL KRUZ 355□SL		T(3xD)	230	160	118	IDP 355, IDP 356, IDP 357, IDP 358, IDP 359 IDF 355, IDF 356, IDF 357, IDF 358, IDF 359 ID 355, ID 356, ID 357, ID 358, ID 359				
			P(5xD)	300	230	188					
			H(7xD)	360	290	258					
			L(10xD)	490	420	391					
Φ36.0 ~Φ36.4	YTDI 360□SL KRUZ 360□SL		T(3xD)	250	180	125	IDP 360, IDP 361, IDP 362, IDP 363, IDP 364 IDF 360, IDF 361, IDF 362, IDF 363, IDF 364 ID 360, ID 361, ID 362, ID 363, ID 364	CS 360 -395 SL			
			P(5xD)	310	240	199					
			H(7xD)	380	310	273					
			L(10xD)	495	425	396					

Continued

Hole size range	Body Code No.	Shank Size(Φd)	Cutting depth (Length x ΦD)	L1	L2	L3	Insert Code No. to fit in body (IDP IDF ID)	Cap Screw	Torx driver	Set Screw	L-wrench
Φ36.5 ~Φ36.9	YTDI 365□SL KRUZ 365□SL	40.0	T(3xD)	250	180	125	IDP 365, IDP 366, IDP 367, IDP 368, IDP 369 IDF 365, IDF 366, IDF 367, IDF 368, IDF 369 ID 365, ID 366, ID 367, ID 368, ID 369	CS 360 -395 SL	T20 Torque 4.0Nm (Max)	M5x10	2.5mm
			P(5xD)	310	240	199					
			H(7xD)	380	310	273					
			L(10xD)	502	432	402					
Φ37.0 ~Φ37.4	YTDI 370□SL KRUZ 370□SL		T(3xD)	250	180	125	IDP 370, IDP 371, IDP 372, IDP 373, IDP 374 IDF 370, IDF 371, IDF 372, IDF 373, IDF 374 ID 370, ID 371, ID 372, ID 373, ID 374				
			P(5xD)	310	240	199					
			H(7xD)	380	310	273					
			L(10xD)	507	437	407					
Φ37.5 ~Φ37.9	YTDI 375□SL KRUZ 375□SL		T(3xD)	250	180	125	IDP 375, IDP 376, IDP 377, IDP 378, IDP 379 IDF 375, IDF 376, IDF 377, IDF 378, IDF 379 ID 375, ID 376, ID 377, ID 378, ID 379				
			P(5xD)	310	240	199					
			H(7xD)	380	310	273					
			L(10xD)	513	443	413					
Φ38.0 ~Φ38.4	YTDI 380□SL KRUZ 380□SL		T(3xD)	250	180	132	IDP 380, IDP 381, IDP 382, IDP 383, IDP 384 IDF 380, IDF 381, IDF 382, IDF 383, IDF 384 ID 380, ID 381, ID 382, ID 383, ID 384				
			P(5xD)	320	250	210					
			H(7xD)	400	330	288					
			L(10xD)	519	449	418					
Φ38.5 ~Φ38.9	YTDI 385□SL KRUZ 385□SL		T(3xD)	250	180	132	IDP 385, IDP 386, IDP 387, IDP 388, IDP 389 IDF 385, IDF 386, IDF 387, IDF 388, IDF 389 ID 385, ID 386, ID 387, ID 388, ID 389				
			P(5xD)	320	250	210					
			H(7xD)	400	330	288					
			L(10xD)	525	455	424					
Φ39.0 ~Φ39.4	YTDI 390□SL KRUZ 390□SL		T(3xD)	250	180	132	IDP 390, IDP 391, IDP 392, IDP 393, IDP 394 IDF 390, IDF 391, IDF 392, IDF 393, IDF 394 ID 390, ID 391, ID 392, ID 393, ID 394				
			P(5xD)	320	250	210					
			H(7xD)	400	330	288					
			L(10xD)	531	461	429					
Φ39.5 ~Φ39.9	YTDI 395□SL KRUZ 395□SL		T(3xD)	250	180	132	IDP 395, IDP 396, IDP 397, IDP 398, IDP 399 IDF 395, IDF 396, IDF 397, IDF 398, IDF 399 ID 395, ID 396, ID 397, ID 398, ID 399				
			P(5xD)	320	250	210					
			H(7xD)	400	330	288					
			L(10xD)	537	467	435					
Φ40.0 ~Φ40.4	YTDI 400□SL KRUZ 400□SL		T(3xD)	270	200	138	IDP 400, IDP 401, IDP 402, IDP 403, IDP 404 IDF 400, IDF 401, IDF 402, IDF 403, IDF 404 ID 400, ID 401, ID 402, ID 403, ID 404	CS 400 -445 SL		M6x12	3.0mm
			P(5xD)	340	270	221					
			H(7xD)	420	350	303					
			L(10xD)	542	472	440					
Φ40.5 ~Φ40.9	YTDI 405□SL KRUZ 405□SL		T(3xD)	270	200	138	IDP 405, IDP 406, IDP 407, IDP 408, IDP 409 IDF 405, IDF 406, IDF 407, IDF 408, IDF 409 ID 405, ID 406, ID 407, ID 408, ID 409				
			P(5xD)	340	270	221					
			H(7xD)	420	350	303					
			L(10xD)	549	479	446					
Φ41.0 ~Φ41.4	YTDI 410□SL KRUZ 410□SL		T(3xD)	270	200	138	IDP 410, IDP 411, IDP 412, IDP 413, IDP 414 IDF 410, IDF 411, IDF 412, IDF 413, IDF 414 ID 410, ID 411, ID 412, ID 413, ID 414				
			P(5xD)	340	270	221					
			H(7xD)	420	350	303					
			L(10xD)	554	484	451					
Φ41.5 ~Φ41.9	YTDI 415□SL KRUZ 415□SL		T(3xD)	270	200	138	IDP 415, IDP 416, IDP 417, IDP 418, IDP 419 IDF 415, IDF 416, IDF 417, IDF 418, IDF 419 ID 415, ID 416, ID 417, ID 418, ID 419				
			P(5xD)	340	270	221					
			H(7xD)	420	350	303					
			L(10xD)	561	491	457					
Φ42.0 ~Φ42.4	YTDI 420□SL KRUZ 420□SL		T(3xD)	270	200	145	IDP 420, IDP 421, IDP 422, IDP 423, IDP 424 IDF 420, IDF 421, IDF 422, IDF 423, IDF 424 ID 420, ID 421, ID 422, ID 423, ID 424				
			P(5xD)	340	270	232					
			H(7xD)	420	350	318					
			L(10xD)	566	496	462					
Φ42.5 ~Φ42.9	YTDI 425□SL KRUZ 425□SL		T(3xD)	270	200	145	IDP 425, IDP 426, IDP 427, IDP 428, IDP 429 IDF 425, IDF 426, IDF 427, IDF 428, IDF 429 ID 425, ID 426, ID 427, ID 428, ID 429				
			P(5xD)	340	270	232					
			H(7xD)	420	350	318					
			L(10xD)	572	502	468					
Φ43.0 ~Φ43.4	YTDI 430□SL KRUZ 430□SL		T(3xD)	270	200	145	IDP 430, IDP 431, IDP 432, IDP 433, IDP 434 IDF 430, IDF 431, IDF 432, IDF 433, IDF 434 ID 430, ID 431, ID 432, ID 433, ID 434				
			P(5xD)	340	270	232					
			H(7xD)	420	350	318					
			L(10xD)	578	508	473					
Φ43.5 ~Φ43.9	YTDI 435□SL KRUZ 435□SL		T(3xD)	270	200	145	IDP 435, IDP 436, IDP 437, IDP 438, IDP 439 IDF 435, IDF 436, IDF 437, IDF 438, IDF 439 ID 435, ID 436, ID 437, ID 438, ID 439				
			P(5xD)	340	270	232					
			H(7xD)	420	350	318					
			L(10xD)	584	514	479					
Φ44.0 ~Φ44.4	YTDI 440□SL KRUZ 440□SL		T(3xD)	280	210	153	IDP 440, IDP 441, IDP 442, IDP 443, IDP 444 IDF 440, IDF 441, IDF 442, IDF 443, IDF 444 ID 440, ID 441, ID 442, ID 443, ID 444				
			P(5xD)	370	300	243					
			H(7xD)	460	390	333					
			L(10xD)	590	520	484					

Continued

KRUZ-SL, YTDI-SL body & Carbide insert

Hole size range	Body Code No.	Shank Size(Φd)	Cutting depth (Length x ΦD)	L1	L2	L3	Insert Code No. to fit in body (IDP IDF ID)	Cap Screw	Torx driver	Set Screw	L-wrench
Φ44.5 ~Φ44.9	YTDI 445□SL KRUZ 445□SL	40.0	T(3xD)	280	210	153	IDP 445, IDP 446, IDP 447, IDP 448, IDP 449 IDF 445, IDF 446, IDF 447, IDF 448, IDF 449 ID 445, ID 446, ID 447, ID 448, ID 449	CS 400 -445 SL	T20 Torque 4.0Nm (Max)	M6x12	3.0mm
			P(5xD)	370	300	243					
			H(7xD)	460	390	333					
			L(10xD)	596	526	490					
Φ45.0 ~Φ45.4	YTDI 450□SL KRUZ 450□SL		T(3xD)	280	210	153	IDP 450, IDP 451, IDP 452, IDP 453, IDP 454 IDF 450, IDF 451, IDF 452, IDF 453, IDF 454 ID 450, ID 451, ID 452, ID 453, ID 454	CS 450 -500 SL			
			P(5xD)	370	300	243					
			H(7xD)	460	390	333					
			L(10xD)	601	531	495					
Φ45.5 ~Φ45.9	YTDI 455□SL KRUZ 455□SL		T(3xD)	280	210	153	IDP 455, IDP 456, IDP 457, IDP 458, IDP 459 IDF 455, IDF 456, IDF 457, IDF 458, IDF 459 ID 455, ID 456, ID 457, ID 458, ID 459				
			P(5xD)	370	300	243					
			H(7xD)	460	390	333					
			L(10xD)	608	538	501					
Φ46.0 ~Φ46.4	YTDI 460□SL KRUZ 460□SL		T(3xD)	280	210	160	IDP 460, IDP 461, IDP 462, IDP 463, IDP 464 IDF 460, IDF 461, IDF 462, IDF 463, IDF 464 ID 460, ID 461, ID 462, ID 463, ID 464				
			P(5xD)	370	300	255					
			H(7xD)	460	390	348					
			L(10xD)	613	543	506					
Φ46.5 ~Φ46.9	YTDI 465□SL KRUZ 465□SL		T(3xD)	280	210	160	IDP 465, IDP 466, IDP 467, IDP 468, IDP 469 IDF 465, IDF 466, IDF 467, IDF 468, IDF 469 ID 465, ID 466, ID 467, ID 468, ID 469				
			P(5xD)	370	300	255					
			H(7xD)	460	390	348					
			L(10xD)	620	550	512					
Φ47.0 ~Φ47.4	YTDI 470□SL KRUZ 470□SL		T(3xD)	280	210	160	IDP 470, IDP 471, IDP 472, IDP 473, IDP 474 IDF 470, IDF 471, IDF 472, IDF 473, IDF 474 ID 470, ID 471, ID 472, ID 473, ID 474				
			P(5xD)	370	300	255					
			H(7xD)	460	390	348					
			L(10xD)	625	555	517					
Φ47.5 ~Φ47.9	YTDI 475□SL KRUZ 475□SL		T(3xD)	280	210	160	IDP 475, IDP 476, IDP 477, IDP 478, IDP 479 IDF 475, IDF 476, IDF 477, IDF 478, IDF 479 ID 475, ID 476, ID 477, ID 478, ID 479				
			P(5xD)	370	300	255					
			H(7xD)	460	390	348					
			L(10xD)	631	561	523					
Φ48.0 ~Φ48.4	YTDI 480□SL KRUZ 480□SL		T(3xD)	300	230	167	IDP 480, IDP 481, IDP 482, IDP 483, IDP 484 IDF 480, IDF 481, IDF 482, IDF 483, IDF 484 ID 480, ID 481, ID 482, ID 483, ID 484				
			P(5xD)	390	320	265					
			H(7xD)	490	420	363					
			L(10xD)	637	567	528					
Φ48.5 ~Φ48.9	YTDI 485□SL KRUZ 485□SL		T(3xD)	300	230	167	IDP 485, IDP 486, IDP 487, IDP 488, IDP 489 IDF 485, IDF 486, IDF 487, IDF 488, IDF 489 ID 485, ID 486, ID 487, ID 488, ID 489				
			P(5xD)	390	320	265					
			H(7xD)	490	420	363					
			L(10xD)	643	573	534					
Φ49.0 ~Φ49.4	YTDI 490□SL KRUZ 490□SL		T(3xD)	300	230	167	IDP 490, IDP 491, IDP 492, IDP 493, IDP 494 IDF 490, IDF 491, IDF 492, IDF 493, IDF 494 ID 490, ID 491, ID 492, ID 493, ID 494				
			P(5xD)	390	320	265					
			H(7xD)	490	420	363					
			L(10xD)	649	579	539					
Φ49.5 ~Φ49.9	YTDI 495□SL KRUZ 495□SL		T(3xD)	300	230	167	IDP 495, IDP 496, IDP 497, IDP 498, IDP 499 IDF 495, IDF 496, IDF 497, IDF 498, IDF 499 ID 495, ID 496, ID 497, ID 498, ID 499				
			P(5xD)	390	320	265					
			H(7xD)	490	420	363					
			L(10xD)	655	585	545					
Φ50.0 ~Φ50.4	YTDI 500□SL KRUZ 500□SL		T(3xD)	300	230	167	IDP 500, IDP 501, IDP 502, IDP 503, IDP 504 IDF 500, IDF 501, IDF 502, IDF 503, IDF 504 ID 500, ID 501, ID 502, ID 503, ID 504				
			P(5xD)	390	320	265					
			H(7xD)	490	420	363					
			L(10xD)	660	590	550					

KRUZ-SL Drills, Cutting Speed Recommendation

Material Group \ Drill Dia. / Condition	Φ8~16mm Speed (m/min)	Φ8~16mm Feed (mm/rev)	Φ16~25mm Speed (m/min)	Φ16~25mm Feed (mm/rev)	Φ25~32mm Speed (m/min)	Φ25~32mm Feed (mm/rev)	Φ32~40mm Speed (m/min)	Φ32~40mm Feed (mm/rev)	Φ40~50mm Speed (m/min)	Φ40~50mm 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	90~160	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
Aluminum 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

☞ 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 .

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

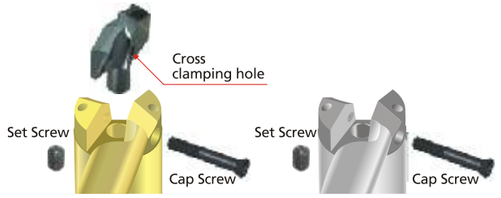
- Rugged flange type body to decrease vibration or chattering
- Interchangeable <IDP>, <IDF>, <ID> carbide drill inserts
- Drill body consists of premium tool steel with heat treatment
- Increased tool life by less vibration
- Internal coolant fed design

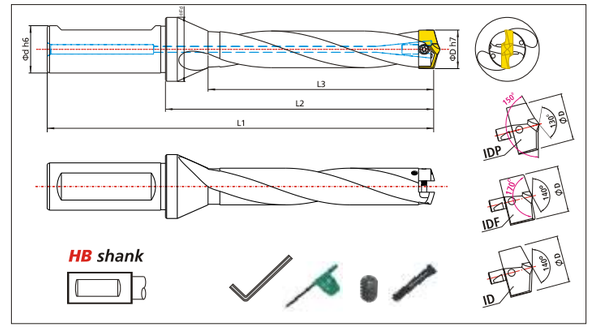
Insert selection

IDP — Deep hole & general purpose

IDF — Thin plate & shallow depth

ID — General purpose





Please make required cutting depth in the ☐ like T, P, H, L

Hole size range	Body Code No.	Shank Size(Φd)	Cutting depth (Length x ΦD)	L1	L2	L3	Flanged dia.(ΦFd)	Insert Code No. to fit in body (IDP IDF ID)	Cap Screw	Torx driver	Set Screw	L-wrench
Φ8.0 ~Φ8.4	YTDI 080 ☐ FSL KRUZ 080 ☐ FSL	10.0 (HA)	T(3xD)	87	42	32	18	IDP 080, IDP 081, IDP 082, IDP 083, IDP 084 IDF 080, IDF 081, IDF 082, IDF 083, IDF 084 ID 080, ID 081, ID 082, ID 083, ID 084	CS 080 -095 SL	T6 Torque 0.6Nm (Max)	None	None
			P(5xD)	103	58	48						
			H(7xD)	119	74	64						
Φ8.5 ~Φ8.9	YTDI 085 ☐ FSL KRUZ 085 ☐ FSL		T(3xD)	89	44	34		IDP 085, IDP 086, IDP 087, IDP 088, IDP 089 IDF 085, IDF 086, IDF 087, IDF 088, IDF 089 ID 085, ID 086, ID 087, ID 088, ID 089				
			P(5xD)	106	61	51						
			H(7xD)	123	78	68						
Φ9.0 ~Φ9.4	YTDI 090 ☐ FSL KRUZ 090 ☐ FSL		T(3xD)	92	47	36		IDP 090, IDP 091, IDP 092, IDP 093, IDP 094 IDF 090, IDF 091, IDF 092, IDF 093, IDF 094 ID 090, ID 091, ID 092, ID 093, ID 094				
			P(5xD)	110	65	54						
			H(7xD)	128	83	72						
Φ9.5 ~Φ9.9	YTDI 095 ☐ FSL KRUZ 095 ☐ FSL	12.0 (HA)	T(3xD)	97	49	38		IDP 095, IDP 096, IDP 097, IDP 098, IDP 099 IDF 095, IDF 096, IDF 097, IDF 098, IDF 099 ID 095, ID 096, ID 097, ID 098, ID 099				
			P(5xD)	116	68	57						
			H(7xD)	135	87	76						
Φ10.0 ~Φ10.4	YTDI 100 ☐ FSL KRUZ 100 ☐ FSL		T(3xD)	99	51	40		IDP 100, IDP 101, IDP 102, IDP 103, IDP 104 IDF 100, IDF 101, IDF 102, IDF 103, IDF 104 ID 100, ID 101, ID 102, ID 103, ID 104	CS100 -115 SL			
			P(5xD)	119	71	60						
			H(7xD)	139	91	80						
Φ10.5 ~Φ10.9	YTDI 105 ☐ FSL KRUZ 105 ☐ FSL		T(3xD)	102	54	42		IDP 105, IDP 106, IDP 107, IDP 108, IDP 109 IDF 105, IDF 106, IDF 107, IDF 108, IDF 109 ID 105, ID106, ID107, ID108, ID109				
			P(5xD)	123	75	63						
			H(7xD)	144	96	84						
Φ11.0 ~Φ11.4	YTDI 110 ☐ FSL KRUZ 110 ☐ FSL		T(3xD)	104	56	44		IDP 110, IDP 111, IDP 112, IDP 113, IDP 114 IDF 110, IDF 111, IDF 112, IDF 113, IDF 114 ID 110, ID 111, ID 112, ID 113, ID 114				
			P(5xD)	126	78	66						
			H(7xD)	148	100	88						
			L(10xD)	181	133	121						
Φ11.5 ~Φ11.9	YTDI 115 ☐ FSL KRUZ 115 ☐ FSL		T(3xD)	107	59	46		IDP 115, IDP 116, IDP 117, IDP 118, IDP 119 IDF 115, IDF 116, IDF 117, IDF 118, IDF 119 ID 115, ID 116, ID 117, ID 118, ID 119				
			P(5xD)	130	82	69						
			H(7xD)	153	105	92						
			L(10xD)	188	140	127						
Φ12.0 ~Φ12.4	YTDI 120 ☐ FSL KRUZ 120 ☐ FSL	16.0	T(3xD)	109	61	48	21	IDP 120, IDP 121, IDP 122, IDP 123, IDP 124 IDF 120, IDF 121, IDF 122, IDF 123, IDF 124 ID 120, ID 121, ID 122, ID 123, ID 124	CS120 -135 SL		M2x4	0.9mm
			P(5xD)	133	85	72						
			H(7xD)	157	109	96						
			L(10xD)	193	145	132						

Continued

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

Hole size range	Body Code No.	Shank Size(Φd)	Cutting depth (Length x ΦD)	L1	L2	L3	Flanged dia.(ΦFd)	Insert Code No. to fit in body (IDP / IDF / ID)	Cap Screw	Torx driver	Set Screw	L-wrench
Φ12.5 ~Φ12.9	YTDI 125 □ FSL KRUZ 125 □ FSL	16.0	T(3xD)	111	63	50	21	IDP 125, IDP 126, IDP 127, IDP 128, IDP 129 IDF 125, IDF 126, IDF 127, IDF 128, IDF 129 ID 125-, ID 126, ID 127, ID 128, ID 129	CS 120 -135 SL	T6 Torque 0.6Nm (Max)	M2x4	0.9mm
			P(5xD)	136	88	75						
			H(7xD)	161	113	100						
			L(10xD)	199	151	138						
Φ13.0 ~Φ13.4	YTDI 130 □ FSL KRUZ 130 □ FSL		T(3xD)	114	66	52		IDP 130, IDP 131, IDP 132, IDP 133, IDP 134 IDF 130, IDF 131, IDF 132, IDF 133, IDF 134 ID 130, ID 131, ID 132, ID 133, ID 134				
			P(5xD)	140	92	78						
			H(7xD)	166	118	104						
			L(10xD)	205	157	143						
Φ13.5 ~Φ13.9	YTDI 135 □ FSL KRUZ 135 □ FSL		T(3xD)	116	68	54		IDP 135, IDP 136, IDP 137, IDP 138, IDP 139 IDF 135, IDF 136, IDF 137, IDF 138, IDF 139 ID 135, ID 136, ID 137, ID 138, ID 139				
			P(5xD)	143	95	81						
			H(7xD)	170	122	108						
			L(10xD)	211	163	149						
Φ14.0 ~Φ14.4	YTDI 140 □ FSL KRUZ 140 □ FSL		T(3xD)	119	71	56		IDP 140, IDP 141, IDP 142, IDP 143, IDP 144 IDF 140, IDF 141, IDF 142, IDF 143, IDF 144 ID 140, ID 141, ID 142, ID 143, ID 144	CS 140 -155 SL	T7 Torque 0.9Nm (Max)		
			P(5xD)	147	99	84						
			H(7xD)	175	127	112						
			L(10xD)	217	169	154						
Φ14.5 ~Φ14.9	YTDI 145 □ FSL KRUZ 145 □ FSL		T(3xD)	123	73	58		IDP 145, IDP 146, IDP 147, IDP 148, IDP 149 IDF 145, IDF 146, IDF 147, IDF 148, IDF 149 ID 145, ID 146, ID 147, ID 148, ID 149				
			P(5xD)	152	102	87						
			H(7xD)	181	131	116						
			L(10xD)	225	175	160						
Φ15.0 ~Φ15.4	YTDI 150 □ FSL KRUZ 150 □ FSL		T(3xD)	127	77	60		IDP 150, IDP 151, IDP 152, IDP 153, IDP 154 IDF 150, IDF 151, IDF 152, IDF 153, IDF 154 ID 150, ID 151, ID 152, ID 153, ID 154				
			P(5xD)	157	107	90						
			H(7xD)	187	137	120						
			L(10xD)	232	182	165						
Φ15.5 ~Φ15.9	YTDI 155 □ FSL KRUZ 155 □ FSL		T(3xD)	130	80	62		IDP 155, IDP 156, IDP 157, IDP 158, IDP 159 IDF 155, IDF 156, IDF 157, IDF 158, IDF 159 ID 155, ID 156, ID 157, ID 158, ID 159				
			P(5xD)	161	111	93						
			H(7xD)	192	142	124						
			L(10xD)	239	189	171						
Φ16.0 ~Φ16.4	YTDI 160 □ FSL KRUZ 160 □ FSL		T(3xD)	132	82	64		IDP 160, IDP 161, IDP 162, IDP 163, IDP 164 IDF 160, IDF 161, IDF 162, IDF 163, IDF 164 ID 160, ID 161, ID 162, ID 163, ID 164				
			P(5xD)	164	114	96						
			H(7xD)	196	146	128						
			L(10xD)	244	194	176						
Φ16.5 ~Φ16.9	YTDI 165 □ FSL KRUZ 165 □ FSL		T(3xD)	135	85	66		IDP 165, IDP 166, IDP 167, IDP 168, IDP 169 IDF 165, IDF 166, IDF 167, IDF 168, IDF 169 ID 165, ID 166, ID 167, ID 168, ID 169				
			P(5xD)	168	118	99						
			H(7xD)	201	151	132						
			L(10xD)	251	201	182						
Φ17.0 ~Φ17.4	YTDI 170 □ FSL KRUZ 170 □ FSL	20.0	T(3xD)	137	87	68	27	IDP 170, IDP 171, IDP 172, IDP 173, IDP 174 IDF 170, IDF 171, IDF 172, IDF 173, IDF 174 ID 170, ID 171, ID 172, ID 173, ID 174	CS 160 -175 SL		M2.5x4	1.3mm
			P(5xD)	171	121	102						
			H(7xD)	205	155	136						
			L(10xD)	256	206	187						
Φ17.5 ~Φ17.9	YTDI 175 □ FSL KRUZ 175 □ FSL		T(3xD)	139	89	70		IDP 175, IDP 176, IDP 177, IDP 178, IDP 179 IDF 175, IDF 176, IDF 177, IDF 178, IDF 179 ID 175, ID 176, ID 177, ID 178, ID 179				
			P(5xD)	174	124	105						
			H(7xD)	209	159	140						
			L(10xD)	262	212	193						
Φ18.0 ~Φ18.4	YTDI 180 □ FSL KRUZ 180 □ FSL		T(3xD)	142	92	72		IDP 180, IDP 181, IDP 182, IDP 183, IDP 184 IDF 180, IDF 181, IDF 182, IDF 183, IDF 184 ID 180, ID 181, ID 182, ID 183, ID 184	CS 180 -195 SL	T8 Torque 1.5Nm (Max)		
			P(5xD)	178	128	108						
			H(7xD)	214	164	144						
			L(10xD)	268	218	198						
Φ18.5 ~Φ18.9	YTDI 185 □ FSL KRUZ 185 □ FSL		T(3xD)	144	94	74		IDP 185, IDP 186, IDP 187, IDP 188, IDP 189 IDF 185, IDF 186, IDF 187, IDF 188, IDF 189 ID 185, ID 186, ID 187, ID 188, ID 189				
			P(5xD)	181	131	111						
			H(7xD)	218	168	148						
			L(10xD)	274	224	204						
Φ19.0 ~Φ19.4	YTDI 190 □ FSL KRUZ 190 □ FSL		T(3xD)	147	97	76		IDP 190, IDP 191, IDP 192, IDP 193, IDP 194 IDF 190, IDF 191, IDF 192, IDF 193, IDF 194 ID 190, ID 191, ID 192, ID 193, ID 194				
			P(5xD)	185	135	114						
			H(7xD)	223	173	152						
			L(10xD)	280	230	209						
Φ19.5 ~Φ19.9	YTDI 195 □ FSL KRUZ 195 □ FSL		T(3xD)	149	99	78		IDP 195, IDP 196, IDP 197, IDP 198, IDP 199 IDF 195, IDF 196, IDF 197, IDF 198, IDF 199 ID 195, ID 196, ID 197, ID 198, ID 199				
			P(5xD)	188	138	117						
			H(7xD)	227	177	156						
			L(10xD)	286	236	215						
Φ20.0 ~Φ20.4	YTDI 200 □ FSL KRUZ 200 □ FSL	25.0	T(3xD)	157	101	80	32	IDP 200, IDP 201, IDP 202, IDP 203, IDP 204 IDF 200, IDF 201, IDF 202, IDF 203, IDF 204 ID 200, ID 201, ID 202, ID 203, ID 204	CS 200 -215 SL		M3x6	1.5mm
			P(5xD)	197	141	120						
			H(7xD)	237	181	160						
			L(10xD)	297	241	220						

Continued

Hole size range	Body Code No.	Shank Size(Φd)	Cutting depth (Length x ΦD)	L1	L2	L3	Flanged dia.(ΦFd)	Insert Code No. to fit in body (IDP / IDF / ID)	Cap Screw	Torx driver	Set Screw	L-wrench
Φ20.5 ~Φ20.9	YTDI 205 □ FSL KRUZ 205 □ FSL	25.0	T(3xD)	160	104	82	32	IDP 205, IDP 206, IDP 207, IDP 208, IDP 209 IDF 205, IDF 206, IDF 207, IDF 208, IDF 209 ID 205, ID 206, ID 207, ID 208, ID 209	CS 200 -215 SL	T8 Torque 1.5Nm (Max)	M3x6	1.5mm
			P(5xD)	201	145	123						
			H(7xD)	242	186	164						
			L(10xD)	304	248	226						
Φ21.0 ~Φ21.4	YTDI 210 □ FSL KRUZ 210 □ FSL		T(3xD)	162	106	84		IDP 210, IDP 211, IDP 212, IDP 213, IDP 214 IDF 210, IDF 211, IDF 212, IDF 213, IDF 214 ID 210, ID 211, ID 212, ID 213, ID 214				
			P(5xD)	204	148	126						
			H(7xD)	246	190	168						
			L(10xD)	309	253	231						
Φ21.5 ~Φ21.9	YTDI 215 □ FSL KRUZ 215 □ FSL		T(3xD)	165	109	86		IDP 215, IDP 216, IDP 217, IDP 218, IDP 219 IDF 215, IDF 216, IDF 217, IDF 218, IDF 219 ID 215, ID 216, ID 217, ID 218, ID 219				
			P(5xD)	208	152	129						
			H(7xD)	251	195	172						
			L(10xD)	316	260	237						
Φ22.0 ~Φ22.4	YTDI 220 □ FSL KRUZ 220 □ FSL		T(3xD)	167	111	88		IDP 220, IDP 221, IDP 222, IDP 223, IDP 224 IDF 220, IDF 221, IDF 222, IDF 223, IDF 224 ID 220, ID 221, ID 222, ID 223, ID 224	CS 220 -235 SL			
			P(5xD)	211	155	132						
			H(7xD)	255	199	176						
			L(10xD)	321	265	242						
Φ22.5 ~Φ22.9	YTDI 225 □ FSL KRUZ 225 □ FSL		T(3xD)	169	113	90		IDP 225, IDP 226, IDP 227, IDP 228, IDP 229 IDF 225, IDF 226, IDF 227, IDF 228, IDF 229 ID 225, ID 226, ID 227L, ID 228L, ID 229				
			P(5xD)	214	158	135						
			H(7xD)	259	203	180						
			L(10xD)	327	271	248						
Φ23.0 ~Φ23.4	YTDI 230 □ FSL KRUZ 230 □ FSL		T(3xD)	172	116	92		IDP 230, IDP 231, IDP 232, IDP 233, IDP 234 IDF 230, IDF 231, IDF 232, IDF 233, IDF 234 ID 230, ID 231, ID 232, ID 233, ID 234				
			P(5xD)	218	162	138						
			H(7xD)	264	208	184						
			L(10xD)	333	277	253						
Φ23.5 ~Φ23.9	YTDI 235 □ FSL KRUZ 235 □ FSL		T(3xD)	174	118	94		IDP 235, IDP 236, IDP 237, IDP 238, IDP 239 IDF 235, IDF 236, IDF 237, IDF 238, IDF 239 ID 235, ID 236, ID 237, ID 238, ID 239				
			P(5xD)	221	165	141						
			H(7xD)	268	212	188						
			L(10xD)	339	283	259						
Φ24.0 ~Φ24.4	YTDI 240 □ FSL KRUZ 240 □ FSL	32.0	T(3xD)	181	121	96	39	IDP 240, IDP 241, IDP 242, IDP 243, IDP244 IDF 240, IDF 241, IDF 242, IDF 243, IDF244 ID 240, ID 241, ID 242, ID 243, ID 244	CS 240 -255 SL	T15 Torque 3.5Nm (Max)	M4x8	2.0mm
			P(5xD)	229	169	144						
			H(7xD)	277	217	192						
			L(10xD)	349	289	264						
Φ24.5 ~Φ24.9	YTDI 245 □ FSL KRUZ 245 □ FSL		T(3xD)	183	123	98		IDP 245, IDP 246, IDP 247, IDP 248, IDP 249 IDF 245, IDF 246, IDF 247, IDF 248, IDF 249 ID 245, ID 246, ID 247, ID 248, ID 249				
			P(5xD)	232	172	147						
			H(7xD)	281	221	196						
			L(10xD)	355	295	270						
Φ25.0 ~Φ25.4	YTDI 250 □ FSL KRUZ 250 □ FSL		T(3xD)	185	125	100		IDP 250, IDP 251, IDP 252, IDP 253, IDP 254 IDF 250, IDF 251, IDF 252, IDF 253, IDF 254 ID 250, ID 251, ID 252, ID 253L, ID 254				
			P(5xD)	235	175	150						
			H(7xD)	285	225	200						
			L(10xD)	360	300	275						
Φ25.5 ~Φ25.9	YTDI 255 □ FSL KRUZ 255 □ FSL		T(3xD)	188	128	102		IDP 255, IDP 256, IDP 257, IDP 258, IDP 259 IDF 255, IDF 256, IDF 257, IDF 258, IDF 259 ID 255, ID 256, ID 257, ID 258, ID 259				
			P(5xD)	239	179	153						
			H(7xD)	290	230	204						
			L(10xD)	367	307	281						
Φ26.0 ~Φ26.4	YTDI 260 □ FSL KRUZ 260 □ FSL		T(3xD)	190	130	104		IDP 260, IDP 261, IDP 262, IDP 263, IDP 264 IDF 260, IDF 261, IDF 262, IDF 263, IDF 264 ID 260, ID 261, ID 262, ID 263, ID 264	CS 260 -275 SL			
			P(5xD)	242	182	156						
			H(7xD)	294	234	208						
			L(10xD)	372	312	286						
Φ26.5 ~Φ26.9	YTDI 265 □ FSL KRUZ 265 □ FSL		T(3xD)	193	133	106		IDP 265, IDP 266, IDP 267, IDP 268, IDP 269 IDF 265, IDF 266, IDF 267, IDF 268, IDF 269 ID 265, ID 266, ID 267, ID 268, ID 269				
			P(5xD)	246	186	159						
			H(7xD)	299	239	212						
			L(10xD)	379	319	292						
Φ27.0 ~Φ27.4	YTDI 270 □ FSL KRUZ 270 □ FSL		T(3xD)	195	135	108		IDP 270, IDP 271, IDP 272, IDP 273, IDP 274 IDF 270, IDF 271, IDF 272, IDF 273, IDF 274 ID 270, ID 271, ID 272, ID 273, ID 274				
			P(5xD)	249	189	162						
			H(7xD)	303	243	216						
			L(10xD)	384	324	297						
Φ27.5 ~Φ27.9	YTDI 275 □ FSL KRUZ 275 □ FSL		T(3xD)	197	137	110		IDP 275, IDP 276, IDP 277, IDP 278, IDP 279 IDF 275, IDF 276, IDF 277, IDF 278, IDF 279 ID 275, ID 276, ID 277, ID 278, ID 279				
			P(5xD)	252	192	165						
			H(7xD)	307	247	220						
			L(10xD)	390	330	303						
Φ28.0 ~Φ28.4	YTDI 280 □ FSL KRUZ 280 □ FSL		T(3xD)	200	140	112		IDP 280, IDP 281, IDP 282, IDP 283, IDP 284 IDF 280, IDF 281, IDF 282, IDF 283, IDF 284 ID 280, ID 281, ID 282, ID 283, ID 284	CS 280 -295 SL			
			P(5xD)	256	196	168						
			H(7xD)	312	252	224						
			L(10xD)	396	336	308						

Continued

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

Hole size range	Body Code No.	Shank Size(Φd)	Cutting depth (Length x ΦD)	L1	L2	L3	Flanged dia.(ΦFd)	Insert Code No. to fit in body (IDP IDF ID)	Cap Screw	Torx driver	Set Screw	L-wrench
Φ28.5 ~Φ28.9	YTDI 285 □ FSL KRUZ 285 □ FSL	32.0	T(3xD)	202	142	114	39	IDP 285, IDP 286, IDP 287, IDP 288, IDP 289 IDF 285, IDF 286, IDF 287, IDF 288, IDF 289 ID 285, ID 286, ID 287, ID 288, ID 289	CS 280 -295 SL	T15 Torque 3.5Nm (Max)	M4x8	2.0mm
			P(5xD)	259	199	171						
			H(7xD)	316	256	228						
			L(10xD)	402	342	314						
Φ29.0 ~Φ29.4	YTDI 290 □ FSL KRUZ 290 □ FSL		T(3xD)	205	145	116		IDP 290, IDP 291, IDP 292, IDP 293, IDP 294 IDF 290, IDF 291, IDF 292, IDF 293, IDF 294 ID 290, ID 291, ID 292, ID 293, ID 294				
			P(5xD)	263	203	174						
			H(7xD)	321	261	232						
			L(10xD)	408	348	319						
Φ29.5 ~Φ29.9	YTDI 295 □ FSL KRUZ 295 □ FSL		T(3xD)	207	147	118		IDP 295, IDP 296, IDP 297, IDP 298, IDP 299 IDF 295, IDF 296, IDF 297, IDF 298, IDF 299 ID 295, ID 296, ID 297, ID 298, ID 299				
			P(5xD)	266	206	177						
			H(7xD)	325	265	236						
			L(10xD)	414	354	325						
Φ30.0 ~Φ30.4	YTDI 300 □ FSL KRUZ 300 □ FSL		T(3xD)	209	149	120		IDP 300, IDP 301, IDP 302, IDP 303, IDP 304 IDF 300, IDF 301, IDF 302, IDF 303, IDF 304 ID 300, ID 301, ID 302, ID 303, ID 304	CS 300 -315 SL			
			P(5xD)	269	209	180						
			H(7xD)	329	269	240						
			L(10xD)	419	359	330						
Φ30.5 ~Φ30.9	YTDI 305 □ FSL KRUZ 305 □ FSL		T(3xD)	212	152	122		IDP 305, IDP 306, IDP 307, IDP 308, IDP 309 IDF 305, IDF 306, IDF 307, IDF 308, IDF 309 ID 305, ID 306, ID 307, ID 308, ID 309				
			P(5xD)	273	213	183						
			H(7xD)	334	274	244						
			L(10xD)	426	366	336						
Φ31.0 ~Φ31.4	YTDI 310 □ FSL KRUZ 310 □ FSL		T(3xD)	214	154	124		IDP 310, IDP 311, IDP 312, IDP 313, IDP 314 IDF 310, IDF 311, IDF 312, IDF 313, IDF 314 ID 310, ID 311, ID 312, ID 313, ID 314				
			P(5xD)	276	216	186						
			H(7xD)	338	278	248						
			L(10xD)	431	371	341						
Φ31.5 ~Φ31.9	YTDI 315 □ FSL KRUZ 315 □ FSL		T(3xD)	217	157	126		IDP 315, IDP 316, IDP 317, IDP 318, IDP 319 IDF 315, IDF 316, IDF 317, IDF 318, IDF 319 ID 315, ID 316, ID 317, ID 318, ID 319				
			P(5xD)	280	220	189						
			H(7xD)	343	283	252						
			L(10xD)	438	378	347						
Φ32.0 ~Φ32.4	YTDI 320 □ FSL KRUZ 320 □ FSL		T(3xD)	219	159	128		IDP 320, IDP 321, IDP 322, IDP 323, IDP 324 IDF 320, IDF 321, IDF 322, IDF 323, IDF 324 ID 320, ID 321, ID 322, ID 323, ID 324	CS 320 -355 SL	T20 Torque 4.0Nm (Max)	M5x10	2.5mm
			P(5xD)	283	223	192						
			H(7xD)	347	287	256						
			L(10xD)	443	383	352						
Φ32.5 ~Φ32.9	YTDI 325 □ FSL KRUZ 325 □ FSL		T(3xD)	221	161	130		IDP 325, IDP 326, IDP 327, IDP 328, IDP 329 IDF 325, IDF 326, IDF 327, IDF 328, IDF 329 ID 325, ID 326, ID 327, ID 328, ID 329				
			P(5xD)	286	226	195						
			H(7xD)	351	291	260						
			L(10xD)	449	389	358						
Φ33.0 ~Φ33.4	YTDI 330 □ FSL KRUZ 330 □ FSL		T(3xD)	224	164	132		IDP 330, IDP 331, IDP 332, IDP 333, IDP 334 IDF 330, IDF 331, IDF 332, IDF 333, IDF 334 ID 330, ID 331, ID 332, ID 333, ID 334				
			P(5xD)	290	230	198						
			H(7xD)	356	296	264						
			L(10xD)	455	395	363						
Φ33.5 ~Φ33.9	YTDI 335 □ FSL KRUZ 335 □ FSL		T(3xD)	226	166	134		IDP 335, IDP 336, IDP 337, IDP 338, IDP 339 IDF 335, IDF 336, IDF 337, IDF 338, IDF 339 ID 335, ID 336, ID 337, ID 338, ID 339				
			P(5xD)	293	233	201						
			H(7xD)	360	300	268						
			L(10xD)	461	401	369						
Φ34.0 ~Φ34.4	YTDI 340 □ FSL KRUZ 340 □ FSL	40.0	T(3xD)	239	169	136	55	IDP 340, IDP 341, IDP 342, IDP 343, IDP 344 IDF 340, IDF 341, IDF 342, IDF 343, IDF 344 ID 340, ID 341, ID 342, ID 343, ID 344				
			P(5xD)	307	237	204						
			H(7xD)	375	305	272						
			L(10xD)	477	407	374						
Φ34.5 ~Φ34.9	YTDI 345 □ FSL KRUZ 345 □ FSL		T(3xD)	241	171	138		IDP 345, IDP 346, IDP 347, IDP 348, IDP 349 IDF 345, IDF 346, IDF 347, IDF 348, IDF 349 ID 345, ID 346, ID 347, ID 348, ID 349				
			P(5xD)	310	240	207						
			H(7xD)	379	309	276						
			L(10xD)	483	413	380						
Φ35.0 ~Φ35.4	YTDI 350 □ FSL KRUZ 350 □ FSL		T(3xD)	243	173	140		IDP 350, IDP 351, IDP 352, IDP 353, IDP 354 IDF 350, IDF 351, IDF 352, IDF 353, IDF 354 ID 350, ID 351, ID 352, ID 353, ID 354				
			P(5xD)	313	243	210						
			H(7xD)	383	313	280						
			L(10xD)	488	418	385						
Φ35.5 ~Φ35.9	YTDI 355 □ FSL KRUZ 355 □ FSL		T(3xD)	246	176	142		IDP 355, IDP 356, IDP 357, IDP 358, IDP 359 IDF 355, IDF 356, IDF 357, IDF 358, IDF 359 ID 355, ID 356, ID 357, ID 358, ID 359				
			P(5xD)	317	247	213						
			H(7xD)	388	318	284						
			L(10xD)	495	425	391						
Φ36.0 ~Φ36.4	YTDI 360 □ FSL KRUZ 360 □ FSL		T(3xD)	248	178	144		IDP 360, IDP 361, IDP 362, IDP 363, IDP 364 IDF 360, IDF 361, IDF 362, IDF 363, IDF 364 ID 360, ID 361, ID 362, ID 363, ID 364	CS 360 -395 SL			
			P(5xD)	320	250	216						
			H(7xD)	392	322	288						
			L(10xD)	500	430	396						

Continued

Hole size range	Body Code No.	Shank Size(Φd)	Cutting depth (Length x ΦD)	L1	L2	L3	Flanged dia.(ΦFd)	Insert Code No. to fit in body (IDP IDF ID)	Cap Screw	Torx driver	Set Screw	L-wrench
Φ36.5 ~Φ36.9	YTDI 365 □ FSL KRUZ 365 □ FSL	40.0	T(3xD)	251	181	146	55	IDP 365, IDP 366, IDP 367, IDP 368, IDP 369 IDF 365, IDF 366, IDF 367, IDF 368, IDF 369 ID 365, ID 366, ID 367, ID 368, ID 369	CS 360 -395 SL	T20 Torque 4.0Nm (Max)	M5x10	2.5mm
			P(5xD)	324	254	219						
			H(7xD)	397	327	292						
			L(10xD)	507	437	402						
Φ37.0 ~Φ37.4	YTDI 370 □ FSL KRUZ 370 □ FSL		T(3xD)	253	183	148		IDP 370, IDP 371, IDP 372, IDP 373, IDP 374 IDF 370, IDF 371, IDF 372, IDF 373, IDF 374 ID 370, ID 371, ID 372, ID 373, ID 374				
			P(5xD)	327	257	222						
			H(7xD)	401	331	296						
			L(10xD)	512	442	407						
Φ37.5 ~Φ37.9	YTDI 375 □ FSL KRUZ 375 □ FSL		T(3xD)	255	185	150		IDP 375, IDP 376, IDP 377, IDP 378, IDP 379 IDF 375, IDF 376, IDF 377, IDF 378, IDF 379 ID 375, ID 376, ID 377, ID 378, ID 379				
			P(5xD)	330	260	225						
			H(7xD)	405	335	300						
			L(10xD)	518	448	413						
Φ38.0 ~Φ38.4	YTDI 380 □ FSL KRUZ 380 □ FSL		T(3xD)	258	188	152		IDP 380, IDP 381, IDP 382, IDP 383, IDP 384 IDF 380, IDF 381, IDF 382, IDF 383, IDF 384 ID 380, ID 381, ID 382, ID 383, ID 384				
			P(5xD)	334	264	228						
			H(7xD)	410	340	304						
			L(10xD)	524	454	418						
Φ38.5 ~Φ38.9	YTDI 385 □ FSL KRUZ 385 □ FSL		T(3xD)	260	196	154		IDP 385, IDP 386, IDP 387, IDP 388, IDP 389 IDF 385, IDF 386, IDF 387, IDF 388, IDF 389 ID 385, ID 386, ID 387, ID 388, ID 389				
			P(5xD)	337	267	231						
			H(7xD)	414	344	308						
			L(10xD)	530	460	424						
Φ39.0 ~Φ39.4	YTDI 390 □ FSL KRUZ 390 □ FSL		T(3xD)	263	193	156		IDP 390, IDP 391, IDP 392, IDP 393, IDP 394 IDF 390, IDF 391, IDF 392, IDF 393, IDF 394 ID 390, ID 391, ID 392, ID 393, ID 394				
			P(5xD)	341	271	234						
			H(7xD)	419	349	312						
			L(10xD)	536	466	429						
Φ39.5 ~Φ39.9	YTDI 395 □ FSL KRUZ 395 □ FSL		T(3xD)	265	195	158		IDP 395, IDP 396, IDP 397, IDP 398, IDP 399 IDF 395, IDF 396, IDF 397, IDF 398, IDF 399 ID 395, ID 396, ID 397, ID 398, ID 399				
			P(5xD)	344	274	237						
			H(7xD)	423	353	316						
			L(10xD)	542	472	435						
Φ40.0 ~Φ40.4	YTDI 400 □ FSL KRUZ 400 □ FSL		T(3xD)	267	197	160		IDP 400, IDP 401, IDP 402, IDP 403, IDP 404 IDF 400, IDF 401, IDF 402, IDF 403, IDF 404 ID 400, ID 401, ID 402, ID 403, ID 404	CS 400 -445 SL	T20 Torque 4.0Nm (Max)	M6x12	3.0mm
			P(5xD)	347	277	240						
			H(7xD)	427	357	320						
			L(10xD)	547	477	440						
Φ40.5 ~Φ40.9	YTDI 405 □ FSL KRUZ 405 □ FSL		T(3xD)	270	200	162		IDP 405, IDP 406, IDP 407, IDP 408, IDP 409 IDF 405, IDF 406, IDF 407, IDF 408, IDF 409 ID 405, ID 406, ID 407, ID 408, ID 409				
			P(5xD)	351	281	243						
			H(7xD)	432	362	324						
			L(10xD)	554	484	446						
Φ41.0 ~Φ41.4	YTDI 410 □ FSL KRUZ 410 □ FSL		T(3xD)	272	202	164		IDP 410, IDP 411, IDP 412, IDP 413, IDP 414 IDF 410, IDF 411, IDF 412, IDF 413, IDF 414 ID 410, ID 411, ID 412, ID 413, ID 414				
			P(5xD)	354	284	246						
			H(7xD)	436	366	328						
			L(10xD)	559	489	451						
Φ41.5 ~Φ41.9	YTDI 415 □ FSL KRUZ 415 □ FSL		T(3xD)	275	205	166		IDP 415, IDP 416, IDP 417, IDP 418, IDP 419 IDF 415, IDF 416, IDF 417, IDF 418, IDF 419 ID 415, ID 416, ID 417, ID 418, ID 419				
			P(5xD)	358	288	249						
			H(7xD)	441	371	332						
			L(10xD)	566	496	457						
Φ42.0 ~Φ42.4	YTDI 420 □ FSL KRUZ 420 □ FSL		T(3xD)	277	207	168		IDP 420, IDP 421, IDP 422, IDP 423, IDP 424 IDF 420, IDF 421, IDF 422, IDF 423, IDF 424 ID 420, ID 421, ID 422, ID 423, ID 424				
			P(5xD)	361	291	252						
			H(7xD)	445	375	336						
			L(10xD)	571	501	462						
Φ42.5 ~Φ42.9	YTDI 425 □ FSL KRUZ 425 □ FSL		T(3xD)	279	209	170		IDP 425, IDP 426, IDP 427, IDP 428, IDP 429 IDF 425, IDF 426, IDF 427, IDF 428, IDF 429 ID 425, ID 426, ID 427, ID 428, ID 429				
			P(5xD)	364	294	255						
			H(7xD)	449	379	340						
			L(10xD)	577	507	468						
Φ43.0 ~Φ43.4	YTDI 430 □ FSL KRUZ 430 □ FSL		T(3xD)	282	212	172		IDP 430, IDP 431, IDP 432, IDP 433, IDP 434 IDF 430, IDF 431, IDF 432, IDF 433, IDF 434 ID 430, ID 431, ID 432, ID 433, ID 434				
			P(5xD)	368	298	258						
			H(7xD)	454	384	344						
			L(10xD)	583	513	473						
Φ43.5 ~Φ43.9	YTDI 435 □ FSL KRUZ 435 □ FSL		T(3xD)	284	214	174		IDP 435, IDP 436, IDP 437, IDP 438, IDP 439 IDF 435, IDF 436, IDF 437, IDF 438, IDF 439 ID 435, ID 436, ID 437, ID 438, ID 439				
			P(5xD)	371	301	261						
			H(7xD)	458	388	348						
			L(10xD)	589	519	479						
Φ44.0 ~Φ44.4	YTDI 440 □ FSL KRUZ 440 □ FSL		T(3xD)	287	217	176		IDP 440, IDP 441, IDP 442, IDP 443, IDP 444 IDF 440, IDF 441, IDF 442, IDF 443, IDF 444 ID 440, ID 441, ID 442, ID 443, ID 444				
			P(5xD)	375	305	264						
			H(7xD)	463	393	352						
			L(10xD)	595	525	484						

Continued

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

Hole size range	Body Code No.	Shank Size(Φd)	Cutting depth (Length x ΦD)	L1	L2	L3	Flanged dia.(ΦFd)	Insert Code No. to fit in body (IDP IDF ID)	Cap Screw	Torx driver	Set Screw	L-wrench
Φ44.5 ~Φ44.9	YTDI 445 ☐ FSL KRUZ 445 ☐ FSL	40.0	T(3xD)	289	219	178	55	IDP 445, IDP 446, IDP 447, IDP 448, IDP 449 IDF 445, IDF 446, IDF 447, IDF 448, IDF 449 ID 445, ID 446, ID 447, ID 448, ID 449	CS 400 -445 SL	T20 Torque 4.0Nm (Max)	M6x12	3.0mm
			P(5xD)	378	308	267						
			H(7xD)	467	397	356						
			L(10xD)	601	531	490						
Φ45.0 ~Φ45.4	YTDI 450 ☐ FSL KRUZ 450 ☐ FSL		T(3xD)	291	221	180		IDP 450, IDP 451, IDP 452, IDP 453, IDP 454 IDF 450, IDF 451, IDF 452, IDF 453, IDF 454 ID 450, ID 451, ID 452, ID 453, ID 454	CS 450 -500 SL			
			P(5xD)	381	311	270						
			H(7xD)	471	401	360						
			L(10xD)	606	536	495						
Φ45.5 ~Φ45.9	YTDI 455 ☐ FSL KRUZ 455 ☐ FSL		T(3xD)	294	224	182		IDP 455, IDP 456, IDP 457, IDP 458, IDP 459 IDF 455, IDF 456, IDF 457, IDF 458, IDF 459 ID 455, ID 456, ID 457, ID 458, ID 459				
			P(5xD)	385	315	273						
			H(7xD)	476	406	364						
			L(10xD)	613	543	501						
Φ46.0 ~Φ46.4	YTDI 460 ☐ FSL KRUZ 460 ☐ FSL		T(3xD)	296	226	184		IDP 460, IDP 461, IDP 462, IDP 463, IDP 464 IDF 460, IDF 461, IDF 462, IDF 463, IDF 464 ID 460, ID 461, ID 462, ID 463, ID 464				
			P(5xD)	388	318	276						
			H(7xD)	480	410	368						
			L(10xD)	618	548	506						
Φ46.5 ~Φ46.9	YTDI 465 ☐ FSL KRUZ 465 ☐ FSL		T(3xD)	299	229	186		IDP 465, IDP 466, IDP 467, IDP 468, IDP 469 IDF 465, IDF 466, IDF 467, IDF 468, IDF 469 ID 465, ID 466, ID 467, ID 468, ID 469				
			P(5xD)	392	322	279						
			H(7xD)	485	415	372						
			L(10xD)	625	555	512						
Φ47.0 ~Φ47.4	YTDI 470 ☐ FSL KRUZ 470 ☐ FSL		T(3xD)	301	231	188		IDP 470, IDP 471, IDP 472, IDP 473, IDP 474 IDF 470, IDF 471, IDF 472, IDF 473, IDF 474 ID 470, ID 471, ID 472, ID 473, ID 474				
			P(5xD)	395	325	282						
			H(7xD)	489	419	376						
			L(10xD)	630	560	517						
Φ47.5 ~Φ47.9	YTDI 475 ☐ FSL KRUZ 475 ☐ F SL		T(3xD)	303	233	190		IDP 475, IDP 476, IDP 477, IDP 478, IDP 479 IDF 475, IDF 476, IDF 477, IDF 478, IDF 479 ID 475, ID 476, ID 477, ID 478, ID 479				
			P(5xD)	398	328	285						
			H(7xD)	493	423	380						
			L(10xD)	636	566	523						
Φ48.0 ~Φ48.4	YTDI 480 ☐ F SL KRUZ 480 ☐ FSL		T(3xD)	306	236	192		IDP 480, IDP 481, IDP 482, IDP 483, IDP 484 IDF 480, IDF 481, IDF 482, IDF 483, IDF 484 ID 480, ID 481, ID 482, ID 483, ID 484				
			P(5xD)	402	332	288						
			H(7xD)	498	428	384						
			L(10xD)	642	572	528						
Φ48.5 ~Φ48.9	YTDI 485 ☐ FSL KRUZ 485 ☐ FSL		T(3xD)	308	238	194		IDP 485, IDP 486, IDP 487, IDP 488, IDP 489 IDF 485, IDF 486, IDF 487, IDF 488, IDF 489 ID 485, ID 486, ID 487, ID 488, ID 489				
			P(5xD)	405	335	291						
			H(7xD)	502	432	388						
			L(10xD)	648	578	534						
Φ49.0 ~Φ49.4	YTDI 490 ☐ FSL KRUZ 490 ☐ FSL		T(3xD)	311	241	196		IDP 490, IDP 491, IDP 492, IDP 493, IDP 494 IDF 490, IDF 491, IDF 492, IDF 493, IDF 494 ID 490, ID 491, ID 492, ID 493, ID 494				
			P(5xD)	409	339	294						
			H(7xD)	507	437	392						
			L(10xD)	654	584	539						
Φ49.5 ~Φ49.9	YTDI 495 ☐ FSL KRUZ 495 ☐ FSL		T(3xD)	313	243	198		IDP 495, IDP 496, IDP 497, IDP 498, IDP 499 IDF 495, IDF 496, IDF 497, IDF 498, IDF 499 ID 495, ID 496, ID 497, ID 498, ID 499				
			P(5xD)	412	342	297						
			H(7xD)	511	441	396						
			L(10xD)	660	590	545						
Φ50.0 ~Φ50.4	YTDI 500 ☐ FSL KRUZ 500 ☐ FSL		T(3xD)	315	245	200		IDP 500, IDP 501, IDP 502, IDP 503, IDP 504 IDF 500, IDF 501, IDF 502, IDF 503, IDF 504 ID 500, ID 501, ID 502, ID 503, ID 504				
			P(5xD)	415	345	300						
			H(7xD)	515	445	400						
			L(10xD)	665	595	550						

KRUZ-FSL Drills, Cutting Speed Recommendation

Material Group \ Drill Dia. / Condition	Φ8~16mm Speed (m/min)	Φ8~16mm Feed (mm/rev)	Φ16~25mm Speed (m/min)	Φ16~25mm Feed (mm/rev)	Φ25~32mm Speed (m/min)	Φ25~32mm Feed (mm/rev)	Φ32~40mm Speed (m/min)	Φ32~40mm Feed (mm/rev)	Φ40~50mm Speed (m/min)	Φ40~50mm 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	90~160	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
Aluminum 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

☞ 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 .

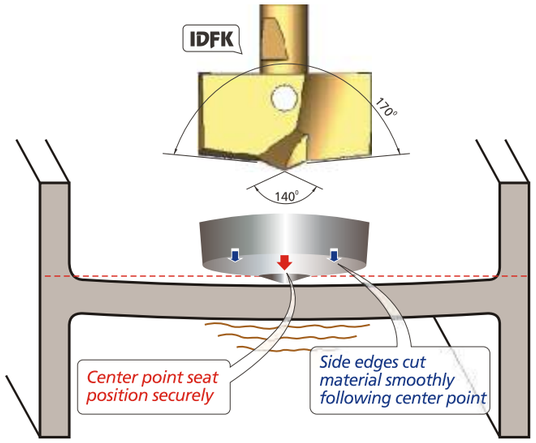
KRUZ-SLK Drill body & IDFK Carbide insert

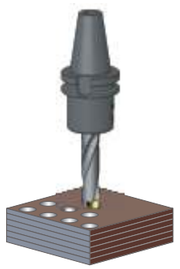
IDFK Carbide insert

- Carbide insert completely grinded by CNC program
- Patented 140^0+170^0 dual flat bottom point angle
- TiAlN coated insert offers wear resistance and higher feed rate
- Designed exclusively for structural beam, angle or plate etc

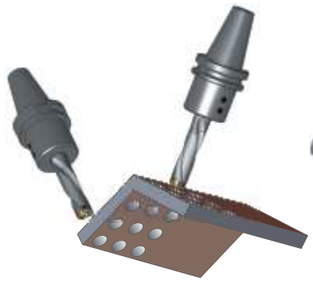
KURZ-SLK Drill body

- Rigid drill body made of special premium steel and heat treated
- TiN coated body to enable longer tool life and higher lubricity
- Special flute design to increase faster chip's ejection rate
- Enabling to mount 0.5mm carbide insert size
- Stubby body length to perform maximum drilling ability of structural steel
- Internal coolant fed

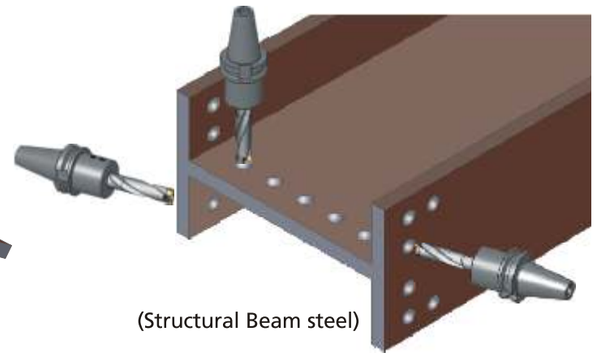




(Plate)

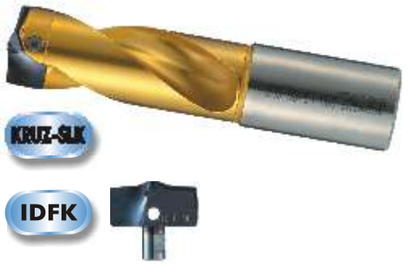


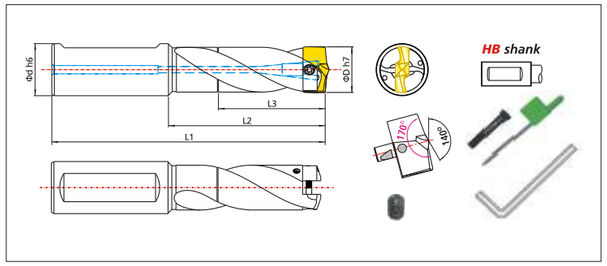
(Angle steel)



(Structural Beam steel)

KRUZ-SLK stubby series body & IDFK insert, Metric



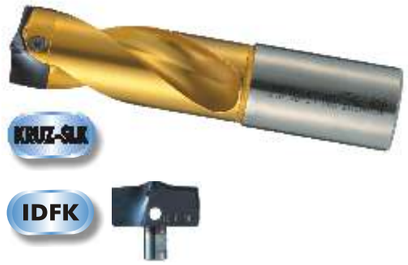


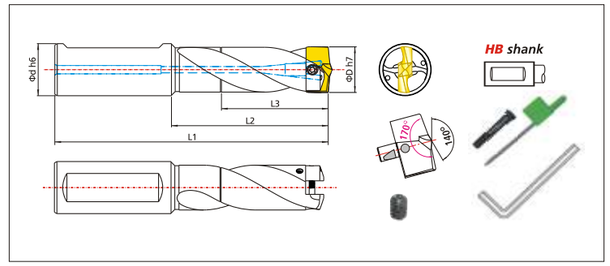
Exclusively designed for Structural machining

Hole (Φ) mm	Body Code	Shank (Φd)	Dimension L1	L2	L3	Carbide drill Insert(TiAlN coated) (ΦD h7, 14.0mm insert-> IDFK 140)	Cap Screw	Torx driver	Set Screw	L-wrench
14.0~14.4	**KRUZ 140 L3=50 SLK**	16	110	62		IDFK-140, IDFK-141, IDFK-142, IDFK-143, IDFK-144	CS 140 -155 SL	T7 Torque 0.9Nm (Max)	M2.5x4	1.3mm
14.5~14.9	**KRUZ 145 L3=50 SLK**					IDFK-145, IDFK-146, IDFK-147, IDFK-148, IDFK-149				
15.0~15.4	**KRUZ 150 L3=50 SLK**	20	115	65		IDFK-150, IDFK-151, IDFK-152, IDFK-153, IDFK-154				
15.5~15.9	**KRUZ 155 L3=50 SLK**					IDFK-155, IDFK-156, IDFK-157, IDFK-158, IDFK-159				
16.0~16.4	**KRUZ 160 L3=50 SLK**					IDFK-160, IDFK-161, IDFK-162, IDFK-163, IDFK-164	CS 160 -175 SL			
16.5~16.9	**KRUZ 165 L3=50 SLK**					IDFK-165, IDFK-166, IDFK-167, IDFK-168, IDFK-169				
17.0~17.4	**KRUZ 170 L3=50 SLK**		118	68		IDFK-170, IDFK-171, IDFK-172, IDFK-173, IDFK-174				
17.5~17.9	**KRUZ 175 L3=50 SLK**					IDFK-175, IDFK-176, IDFK-177, IDFK-178, IDFK-179				
18.0~18.4	**KRUZ 180 L3=50 SLK**					IDFK-180, IDFK-181, IDFK-182, IDFK-183, IDFK-184	CS 180 -195 SL			
18.5~18.9	**KRUZ 185 L3=50 SLK**					IDFK-185, IDFK-186, IDFK-187, IDFK-188, IDFK-189				
19.0~19.4	**KRUZ 190 L3=50 SLK**					IDFK-190, IDFK-191, IDFK-192, IDFK-193, IDFK-194				
19.5~19.9	**KRUZ 195 L3=50 SLK**					IDFK-195, IDFK-196, IDFK-197, IDFK-198, IDFK-199				
20.0~20.4	**KRUZ 200 L3=50 SLK**	25	130	74	50	IDFK-200, IDFK-201, IDFK-202, IDFK-203, IDFK-204	CS 200 -215 SL	T8 Torque 1.5Nm (Max)		
20.5~20.9	**KRUZ 205 L3=50 SLK**					IDFK-205, IDFK-206, IDFK-207, IDFK-208, IDFK-209				
21.0~21.4	**KRUZ 210 L3=50 SLK**					IDFK-210, IDFK-211, IDFK-212, IDFK-213, IDFK-214				
21.5~21.9	**KRUZ 215 L3=50 SLK**					IDFK-215, IDFK-216, IDFK-217, IDFK-218, IDFK-219				
22.0~22.4	**KRUZ 220 L3=50 SLK**					IDFK-220, IDFK-221, IDFK-222, IDFK-223, IDFK-224	CS 220 -235 SL		M3x6	1.5mm
22.5~22.9	**KRUZ 225 L3=50 SLK**					IDFK-225, IDFK-226, IDFK-227, IDFK-228, IDFK-229				
23.0~23.4	**KRUZ 230 L3=50 SLK**					IDFK-230, IDFK-231, IDFK-232, IDFK-233, IDFK-234				
23.5~23.9	**KRUZ 235 L3=50 SLK**					IDFK-235, IDFK-236, IDFK-237, IDFK-238, IDFK-239				
24.0~24.4	**KRUZ 240 L3=50 SLK**	32	136	76		IDFK-240, IDFK-241, IDFK-242, IDFK-243, IDFK-244	CS 240 -255 SL	T15 Torque 3.5Nm (Max)		
24.5~24.9	**KRUZ 245 L3=50 SLK**					IDFK-245, IDFK-246, IDFK-247, IDFK-248, IDFK-249				
25.0~25.4	**KRUZ 250 L3=50 SLK**					IDFK-250, IDFK-251, IDFK-252, IDFK-253, IDFK-254				
25.5~25.9	**KRUZ 255 L3=50 SLK**					IDFK-255, IDFK-256, IDFK-257, IDFK-258, IDFK-259				
26.0~26.4	**KRUZ 260 L3=50 SLK**		140	80		IDFK-260, IDFK-261, IDFK-262, IDFK-263, IDFK-264	CS 260 -275 SL			
26.5~26.9	**KRUZ 265 L3=50 SLK**					IDFK-265, IDFK-266, IDFK-267, IDFK-268, IDFK-269				
27.0~27.4	**KRUZ 270 L3=50 SLK**					IDFK-270, IDFK-271, IDFK-272, IDFK-273, IDFK-274				
27.5~27.9	**KRUZ 275 L3=50 SLK**					IDFK-275, IDFK-276, IDFK-277, IDFK-278,, IDFK-279				
28.0~28.4	**KRUZ 280 L3=50 SLK**					IDFK-280, IDFK-281, IDFK-282, IDFK-283, IDFK-284	CS 280 -295 SL		M4x8	2.0mm
28.5~28.9	**KRUZ 285 L3=50 SLK**					IDFK-285, IDFK-286, IDFK-287, IDFK-288, IDFK-289				
29.0~29.4	**KRUZ 290 L3=50 SLK**					IDFK-290, IDFK-291, IDFK-292, IDFK-293, IDFK-294				
29.5~29.9	**KRUZ 295 L3=50 SLK**					IDFK-295, IDFK-296, IDFK-297, IDFK-298, IDFK-299				
30.0~30.4	**KRUZ 300 L3=70 SLK**		155	95	70	IDFK-300, IDFK-301, IDFK-302, IDFK-303, IDFK-304	CS 300 -315 SL			
30.5~30.9	**KRUZ 305 L3=70 SLK**					IDFK-305, IDFK-306, IDFK-307, IDFK-308, IDFK-309				
31.0~31.4	**KRUZ 310 L3=70 SLK**					IDFK-310, IDFK-311, IDFK-312, IDFK-313, IDFK-314				
32.0~32.4	**KRUZ 320 L3=70 SLK**					IDFK-320, IDFK-321, IDFK-322, IDFK-323, IDFK-324	CS 320 -355 SL		M5x10	2.5mm
33.0~33.4	**KRUZ 330 L3=70 SLK**					IDFK-330, IDFK-331, IDFK-332, IDFK-333, IDFK-334				
34.0~34.4	**KRUZ 340 L3=80 SLK**	40	180	110	80	IDFK-340, IDFK-341, IDFK-342, IDFK-343, IDFK-344				
35.0~35.4	**KRUZ 350 L3=80 SLK**					IDFK-350, IDFK-351, IDFK-352, IDFK-353, IDFK-354				
36.0~36.4	**KRUZ 360 L3=80 SLK**					IDFK-360, IDFK-361, IDFK-362, IDFK-363, IDFK-364	CS 360 -395 SL	T20 Torque 4.0Nm (Max)		
37.0~37.4	**KRUZ 370 L3=80 SLK**					IDFK-370, IDFK-371, IDFK-372, IDFK-373, IDFK-374				
38.0~38.4	**KRUZ 380 L3=80 SLK**					IDFK-380, IDFK-381, IDFK-382, IDFK-383, IDFK-384				
39.0~39.4	**KRUZ 390 L3=80 SLK**					IDFK-390, IDFK-391, IDFK-392, IDFK-393, IDFK-394				
40.0~40.4	**KRUZ 400 L3=80 SLK**		185	115		IDFK-400, IDFK-401, IDFK-402, IDFK-403, IDFK-404	CS 400 -445 SL		M6x12	3.0mm
41.0~41.4	**KRUZ 410 L3=80 SLK**					IDFK-410, IDFK-411, IDFK-412, IDFK-413, IDFK-414				
42.0~42.4	**KRUZ 420 L3=80 SLK**					IDFK-420, IDFK-421, IDFK-422, IDFK-423, IDFK-424				
43.0~43.4	**KRUZ 430 L3=80 SLK**					IDFK-430, IDFK-431, IDFK-432, IDFK-433, IDFK-434				
44.0~44.4	**KRUZ 440 L3=80 SLK**					IDFK-440, IDFK-441, IDFK-442, IDFK-443, IDFK-444				
45.0~45.4	**KRUZ 450 L3=80 SLK**					IDFK-450, IDFK-451, IDFK-452, IDFK-453, IDFK-454	CS 450 -500 SL			
46.0~46.4	**KRUZ 460 L3=80 SLK**					IDFK-460, IDFK-461, IDFK-462, IDFK-463, IDFK-464				
47.0~47.4	**KRUZ 470 L3=80 SLK**					IDFK-470, IDFK-471, IDFK-472, IDFK-473, IDFK-474				
48.0~48.4	**KRUZ 480 L3=80 SLK**		200	130	90	IDFK-480, IDFK-481, IDFK-482, IDFK-483, IDFK-484				
49.0~49.4	**KRUZ 490 L3=80 SLK**					IDFK-490, IDFK-491, IDFK-492, IDFK-493, IDFK-494				
50.0~50.4	**KRUZ 500 L3=90 SLK**					IDFK-500, IDFK-501, IDFK-502, IDFK-503, IDFK-504				

☞ Size not shown on above is available upon request.

KRUZ-SLK stubby series body & IDFK insert, Inch





Exclusively designed for Structural machining

Hole (Φ) decimal	Body Code	Shank (Φd)	Dimension L1	L2	L3	Carbide drill Insert(TiAlN coated) (ΦD h7)	Alternative Metric body
.5512~.5705	**KRUZ .5512-SLK**	5/8 (15.875mm)	4.3307 (70mm)	2.4409 (62mm)		IDFK-9/16"(14.29mm)	**KRUZ 140 L3=50 SLK**
.5709~.5902	**KRUZ .5709-SLK**					IDFK-37/64"(14.68mm)	**KRUZ 145 L3=50 SLK**
.5906~.6098	**KRUZ .5906-SLK**	3/4 (19.05mm)	4.5276 (115mm)	2.5591 (65mm)		IDFK-19/32"(15.08mm), IDFK-39/64"(15.48mm)	**KRUZ 150 L3=50 SLK**
.6102~.6295	**KRUZ .6102-SLK**					IDFK-5/8"(15.88mm)	**KRUZ 155 L3=50 SLK**
.6299~.6492	**KRUZ .6299-SLK**					IDFK-41/64"(16.27mm)	**KRUZ 160 L3=50 SLK**
.6496~.6689	**KRUZ .6496-SLK**					IDFK-21/32"(16.67mm)	**KRUZ 165 L3=50 SLK**
.6693~.6886	**KRUZ .6693-SLK**		4.6457 (118mm)	2.6772 (68mm)		IDFK-43/64"(17.07mm), IDFK-11/16"(17.46mm)	**KRUZ 170 L3=50 SLK**
.6890~.7083	**KRUZ .6890-SLK**					IDFK-45/64"(17.86mm)	**KRUZ 175 L3=50 SLK**
.7087~.7280	**KRUZ .7087-SLK**					IDFK-23/32"(18.26mm)	**KRUZ 180 L3=50 SLK**
.7283~.7476	**KRUZ .7283-SLK**					IDFK-47/64"(18.65mm)	**KRUZ 185 L3=50 SLK**
.7480~.7673	**KRUZ .7480-SLK**					IDFK-3/4(19.05mm), , IDFK-49/64"(19.45mm)	**KRUZ 190 L3=50 SLK**
.7677~.7870	**KRUZ .7677-SLK**					IDFK-25/32"(19.84mm)	**KRUZ 195 L3=50 SLK**
.7874~.8067	**KRUZ .7874-SLK**	1" (25.4mm)	5.1181 (130mm)	2.9134 (74mm)	1.9685 (50mm)	IDFK-51/64"(20.24mm)	**KRUZ 200 L3=50 SLK**
.8071~.8264	**KRUZ .8071-SLK**					IDFK-13/16"(20.64mm)	**KRUZ 205 L3=50 SLK**
.8268~.8461	**KRUZ .8268-SLK**					IDFK-27/32"(21.43mm)	**KRUZ 210 L3=50 SLK**
.8465~.8657	**KRUZ .8465-SLK**					IDFK-55/64"(21.83mm)	**KRUZ 215 L3=50 SLK**
.8661~.8854	**KRUZ .8661-SLK**					IDFK-7/8"(22.23mm)	**KRUZ 220 L3=50 SLK**
.8858~.9051	**KRUZ .8858-SLK**					IDFK-57/64"(22.62mm)	**KRUZ 225 L3=50 SLK**
.9055~.9248	**KRUZ .9055-SLK**					IDFK-29/32"(23.02mm), IDFK-59/64"(23.42mm)	**KRUZ 230 L3=50 SLK**
.9252~.9445	**KRUZ .9252-SLK**					IDFK-15/16"(23.81mm)	**KRUZ 235 L3=50 SLK**
.9646~.9839	**KRUZ .9646-SLK**	1 1/4 (31.75mm)	5.3543 (136mm)	2.9921 (76mm)		IDFK-31/32"(24.61mm))	**KRUZ 245 L3=50 SLK**
.9843~1.0035	**KRUZ .9843-SLK**					IDFK-63/64"(25.00mm), IDFK-1"(25.4mm)	**KRUZ 250 L3=50 SLK**
1.0039~1.0232	**KRUZ 1.0039-SLK**					IDFK-1 1/64"(25.80mm)	**KRUZ 255 L3=50 SLK**
1.0236~1.0429	**KRUZ 1.0236-SLK**		5.5118 (140mm)	3.1496 (80mm)		IDFK-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)	**KRUZ 265 L3=50 SLK**
1.0827~1.1020	**KRUZ 1.0827-SLK**					IDFK-1 3/32"(27.78mm)	**KRUZ 275 L3=50 SLK**
1.1024~1.1217	**KRUZ 1.1024-SLK**					IDFK-1 7/64"(28.18mm)	**KRUZ 280 L3=50 SLK**
1.1220~1.1413	**KRUZ 1.1220-SLK**					IDFK-1 1/8"(28.58mm)	**KRUZ 285 L3=50 SLK**
1.1417~1.1610	**KRUZ 1.1417-SLK**					IDFK-1 5/32"(29.37mm)	**KRUZ 290 L3=50 SLK**
1.1811~1.2004	**KRUZ 1.1811-SLK**		6.1024 (155mm)	3.7402 (95mm)	2.7559 (70mm)	IDFK-1 3/16"(30.16mm)	**KRUZ 300 L3=70 SLK**
1.2008~1.2201	**KRUZ 1.2008-SLK**					IDFK-1 7/32"(30.96mm)	**KRUZ 305 L3=70 SLK**
1.2402~1.2594	**KRUZ 1.2402-SLK**					IDFK-1 1/4"(31.75mm)	**KRUZ 315 L3=70 SLK**
1.2795~1.2988	**KRUZ 1.2795-SLK**					IDFK-1 9/32"(32.54mm)	**KRUZ 325 L3=70 SLK**
1.2992~1.3185	**KRUZ 1.2992-SLK**					IDFK-1 5/16"(33.34mm)	**KRUZ 330 L3=70 SLK**
1.3386~1.3579	**KRUZ 1.3386-SLK**		7.0866 (180mm)	4.3307 (110mm)	3.1496 (80mm)	IDFK-1 11/32"(34.13mm)	**KRUZ 340 L3=80 SLK**
1.3583~1.3776	**KRUZ 1.3583-SLK**					IDFK-1 3/8"(34.93mm)	**KRUZ 345 L3=80 SLK**

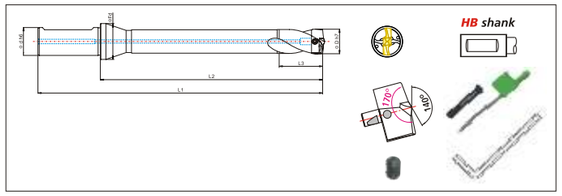
☞ See to alternative metric body on right if it is suitable to fit in tool holder.
☞ All the inch size items are available made-to-order.
☞ Any size not shown from above is available upon request.(8.0mm to 50.4mm)
☞ Both inch and metric size are compatibly fit each other.

KRUZ-FSLK Neck extended Flanged body(7xD) & IDFK insert

KRUZ-FSLK

IDFK

- When requires longer drill length, select this ideal drill body
- Minimized flute design with longer cylindrical neck
- Increased drill's rigidity than ordinary 7xDia drill length
- Internal coolant fed design
- Flanged shank to reduce chattering or vibrating
- Available upon request only



Exclusively designed for Structural machining

Hole (Φ) mm	Body Code	Shank (Φd)	Dimension L1	L2	L3	Flanged dia.(ΦFd)	Carbide drill Insert(TiAlN coated) (ΦD h7, 14.0mm insert-> IDFK 140) IDFK	Cap Screw	Torx driver	Set Screw	L-wrench
14.0~14.4	**KRUZ 140H FSLK**	16	175	127		21	IDFK-140, IDFK-141, IDFK-142, IDFK-143, IDFK-144				
14.5~14.9	**KRUZ 145H FSLK**		181	131			IDFK-145, IDFK-146, IDFK-147, IDFK-148, IDFK-149	CS 140 -155 SL			
15.0~15.4	**KRUZ 150H FSLK**		187	137			IDFK-150, IDFK-151, IDFK-152, IDFK-153, IDFK-154				
15.5~15.9	**KRUZ 155H FSLK**		192	142			IDFK-155, IDFK-156, IDFK-157, IDFK-158, IDFK-159				
16.0~16.4	**KRUZ 160H FSLK**		196	146			IDFK-160, IDFK-161, IDFK-162, IDFK-163, IDFK-164				
16.5~16.9	**KRUZ 165H FSLK**		201	151			IDFK-165, IDFK-166, IDFK-167, IDFK-168, IDFK-169	CS 160 -175 SL			
17.0~17.4	**KRUZ 170H FSLK**	20	205	155		27	IDFK-170, IDFK-171, IDFK-172, IDFK-173, IDFK-174		T7	M2.5x4	1.3mm
17.5~17.9	**KRUZ 175H FSLK**		209	159			IDFK-175, IDFK-176, IDFK-177, IDFK-178, IDFK-179				
18.0~18.4	**KRUZ 180H FSLK**		214	164			IDFK-180, IDFK-181, IDFK-182, IDFK-183, IDFK-184				
18.5~18.9	**KRUZ 185H FSLK**		218	168			IDFK-185, IDFK-186, IDFK-187, IDFK-188, IDFK-189	CS 180 -195 SL			
19.0~19.4	**KRUZ 190H FSLK**		223	173			IDFK-190, IDFK-191, IDFK-192, IDFK-193, IDFK-194				
19.5~19.9	**KRUZ 195H FSLK**		227	177			IDFK-195, IDFK-196, IDFK-197, IDFK-198, IDFK-199				
20.0~20.4	**KRUZ 200H FSLK**		237	181			IDFK-200, IDFK-201, IDFK-202, IDFK-203, IDFK-204				
20.5~20.9	**KRUZ 205H FSLK**		242	186			IDFK-205, IDFK-206, IDFK-207, IDFK-208, IDFK-209	CS 200 -215 SL			
21.0~21.4	**KRUZ 210H FSLK**		246	190			IDFK-210, IDFK-211, IDFK-212, IDFK-213, IDFK-214				
21.5~21.9	**KRUZ 215H FSLK**	25	251	195	50	32	IDFK-215, IDFK-216, IDFK-217, IDFK-218, IDFK-219		T8	M3x6	1.5mm
22.0~22.4	**KRUZ 220H FSLK**		255	199			IDFK-220, IDFK-221, IDFK-222, IDFK-223, IDFK-224				
22.5~22.9	**KRUZ 225H FSLK**		259	203			IDFK-225, IDFK-226, IDFK-227, IDFK-228, IDFK-229	CS 220 -235 SL			
23.0~23.4	**KRUZ 230H FSLK**		264	208			IDFK-230, IDFK-231, IDFK-232, IDFK-233, IDFK-234				
23.5~23.9	**KRUZ 235H FSLK**		268	212			IDFK-235, IDFK-236, IDFK-237, IDFK-238, IDFK-239				
24.0~24.4	**KRUZ 240H FSLK**		277	217			IDFK-240, IDFK-241, IDFK-242, IDFK-243, IDFK-244				
24.5~24.9	**KRUZ 245H FSLK**		281	221			IDFK-245, IDFK-246, IDFK-247, IDFK-248, IDFK-249	CS 240 -255 SL			
25.0~25.4	**KRUZ 250H FSLK**		285	225			IDFK-250, IDFK-251, IDFK-252, IDFK-253, IDFK-254				
25.5~25.9	**KRUZ 255H FSLK**		290	230			IDFK-255, IDFK-256, IDFK-257, IDFK-258, IDFK-259				
26.0~26.4	**KRUZ 260H FSLK**		294	234			IDFK-260, IDFK-261, IDFK-262, IDFK-263, IDFK-264				
26.5~26.9	**KRUZ 265H FSLK**		299	239			IDFK-265, IDFK-266, IDFK-267, IDFK-268, IDFK-269	CS 260 -275 SL			
27.0~27.4	**KRUZ 270H FSLK**		303	243			IDFK-270, IDFK-271, IDFK-272, IDFK-273, IDFK-274		T15	M4x8	2.0mm
27.5~27.9	**KRUZ 275H FSLK**		307	247			IDFK-275, IDFK-276, IDFK-277, IDFK-278,, IDFK-279				
28.0~28.4	**KRUZ 280H FSLK**	32	312	252		39	IDFK-280, IDFK-281, IDFK-282, IDFK-283, IDFK-284				
28.5~28.9	**KRUZ 285H FSLK**		316	256			IDFK-285, IDFK-286, IDFK-287, IDFK-288, IDFK-289	CS 280 -295 SL			
29.0~29.4	**KRUZ 290H FSLK**		321	261			IDFK-290, IDFK-291, IDFK-292, IDFK-293, IDFK-294				
29.5~29.9	**KRUZ 295H FSLK**		325	265			IDFK-295, IDFK-296, IDFK-297, IDFK-298, IDFK-299				
30.0~30.4	**KRUZ 300H FSLK**		329	269			IDFK-300, IDFK-301, IDFK-302, IDFK-303, IDFK-304				
30.5~30.9	**KRUZ 305H FSLK**		334	274			IDFK-305, IDFK-306, IDFK-307, IDFK-308, IDFK-309	CS 300 -315 SL			
31.0~31.4	**KRUZ 310H FSLK**		338	278	70		IDFK-310, IDFK-311, IDFK-312, IDFK-313, IDFK-314		T20	M5x10	2.5mm
31.5~31.9	**KRUZ 315H FSLK**		343	283			IDFK-315, IDFK-316, IDFK-317, IDFK-318, IDFK-319				
32.0~32.4	**KRUZ 320H FSLK**		347	287			IDFK-320, IDFK-321, IDFK-322, IDFK-323, IDFK-324	CS 320 -355 SL			

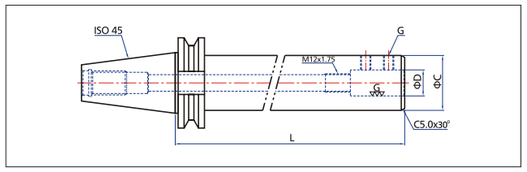
☞ Size not shown on above is available upon request.

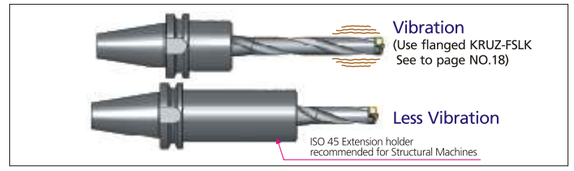
ISO 45 & HSK Extension holder for Structural

ISO45

HSK

- ISO 45(HSK) holder can help drilling with strong rigidity
- As alternative clamping for HSS MT shank length
- Internal coolant channel structure
- Side locking with two set screws
- Ideal holder to run KRUZ-SLK body & IDFK insert
- HSK holder is available upon request





CODE No.	D	L	C	G
ISO45(HSK)-SLA16-80	16	80	56	M10
ISO45(HSK)-SLA16-160		160		
ISO45(HSK)-SLA16-210		210		
ISO45(HSK)-SLA16-240		240		
ISO45(HSK)-SLA16-270		270		
ISO45(HSK)-SLA16-300		300		
ISO45(HSK)-SLA16-350		350		
ISO45(HSK)-SLA16-400		400		
ISO45(HSK)-SLA16-450		450		
ISO45(HSK)-SLA16-500		500		
ISO45(HSK)-SLA20-80	20	80		M12
ISO45(HSK)-SLA20-160		160		
ISO45(HSK)-SLA20-210		210		
ISO45(HSK)-SLA20-240		240		
ISO45(HSK)-SLA20-270		270		
ISO45(HSK)-SLA20-300		300		
ISO45(HSK)-SLA20-350		350		

CODE No.	D	L	C	G
ISO45(HSK)-SLA20-400	20	400	56	M12
ISO45(HSK)-SLA20-450		450		
ISO45(HSK)-SLA20-500		500		
ISO45(HSK)-SLA25-80	25	80		
ISO45(HSK)-SLA25-160		160		
ISO45(HSK)-SLA25-210		210		
ISO45(HSK)-SLA25-240		240		
ISO45(HSK)-SLA25-270		270		
ISO45(HSK)-SLA25-300		300		
ISO45(HSK)-SLA25-350		350		
ISO45(HSK)-SLA25-400		400		
ISO45(HSK)-SLA25-450		450		
ISO45(HSK)-SLA25-500		500		
ISO45(HSK)-SLA32-80	32	80		M14
ISO45(HSK)-SLA32-160		160		
ISO45(HSK)-SLA32-210		210		
ISO45(HSK)-SLA32-240		240		

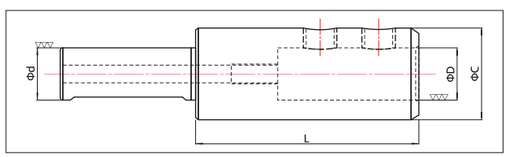
CODE No.	D	L	C	G
ISO45(HSK)-SLA32-270	32	270	56	M14
ISO45(HSK)-SLA32-300		300		
ISO45(HSK)-SLA32-350		350		
ISO45(HSK)-SLA32-400		400		
ISO45(HSK)-SLA32-450		450		
ISO45(HSK)-SLA32-500		500		
ISO45(HSK)-SLA40-90	40	90	60	
ISO45(HSK)-SLA40-160		160		
ISO45(HSK)-SLA40-210		210		
ISO45(HSK)-SLA40-240		240		
ISO45(HSK)-SLA40-270		270		
ISO45(HSK)-SLA40-300		300		
ISO45(HSK)-SLA40-350		350		
ISO45(HSK)-SLA40-400		400		
ISO45(HSK)-SLA40-450		450		
ISO45(HSK)-SLA40-500		500		

* Pull stud bolt not included in the above holder.
* ISO40 holder is available upon request.

Extension sockets & Reduction Sleeves

- When drill length is in short, use extension socket
- Side lock clamping
- Holding same drill shank diameter

Extension sockets



Reduction Sleeves

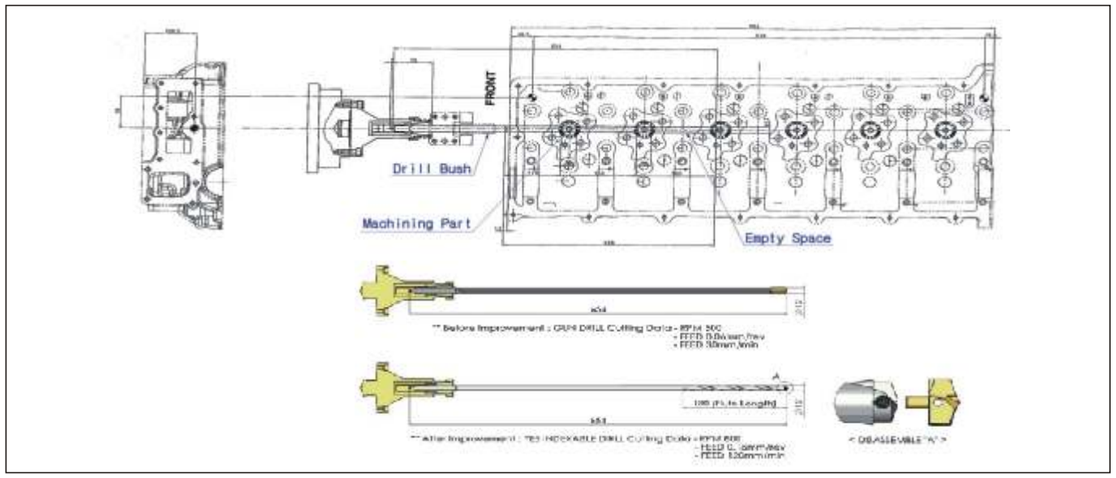
Sleeve is available to adjust drill body shank dia.
(Ask us required size in detail stating inner and outdiameter)

CODE No.	d(mm)	D(mm)	L(mm)	C(mm)	G
EXT16-SLA16-65	16	16	65	50	M10
EXT16-SLA16-80			80		
EXT16-SLA16-125			125		
EXT16-SLA16-150			150		
EXT16-SLA16-200			200		
EXT16-SLA16-250			250		
EXT20-SLA20-65	20	20	65		M12
EXT20-SLA20-80			80		
EXT20-SLA20-125			125		
EXT20-SLA20-150			150		
EXT20-SLA20-200			200		
EXT20-SLA20-250			250		
EXT25-SLA25-65	25	25	65		
EXT25-SLA25-80			80		
EXT25-SLA25-125			125		
EXT25-SLA25-150			150		
EXT25-SLA25-200			200		
EXT25-SLA25-250			250		
EXT32-SLA32-65	32	32	65		M14
EXT32-SLA32-80			80		
EXT32-SLA32-125			125		
EXT32-SLA32-150			150		
EXT32-SLA32-200			200		
EXT32-SLA32-250			250		
EXT40-SLA40-65	40	40	65		
EXT40-SLA40-80			80		
EXT40-SLA40-125			125		
EXT40-SLA40-150			150		
EXT40-SLA40-200			200		
EXT40-SLA40-250			250		

Indexable Extra-long Drill body(15xD, 20xD, 30xD)

Extra-long Drill

- Alternative solution for conventional gun-drill application
- Compatible to fit all Yestool standard carbide inserts
- Drastically increased cutting speed & productivity



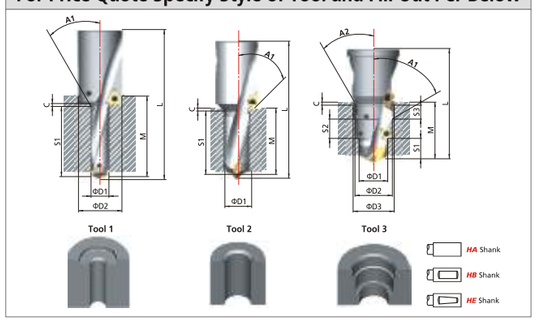
KRUZ special step drill body

Combination drill bodies (Perform multiple operations with one tool)

Special KRUZ

- Helically fluted drill body with through spindle coolant for easy chip evacuation.
- Special bodies use standard YESTOOL drill inserts(ID-DL, IDP, IDF). Uses ISO standard facing & chamfering inserts.
- All inserts lock from the side-no removing body to replace inserts.
- Reduced cycle times result in higher productivity at reduced costs.

For Price Quote Specify Style of Tool and Fill Out Per Below

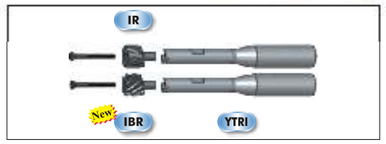


Note

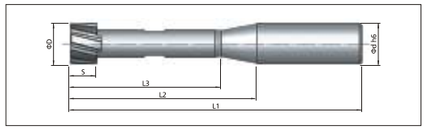
More helpful information to design if provided

Kind of Material to be machined :
Shank style(HA, HB, HE or special) :
Type of chamfer or facing insert(if any) :
Coolant through or no coolant :
Work-piece drawing if avail. :

YTRI Indexable Reamer



- Interchangeable Carbide Reamer insert
- Economical usage for large size over 15mm
- Locking by center head cap-screw
- IR : Right helix spiral multi-flutes
- IBR : Left helix broach reamer insert
- Speedy reaming available with H7 tolerance

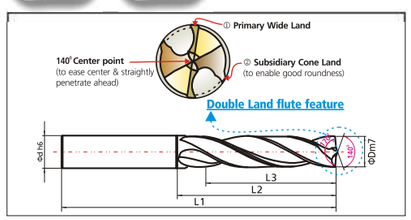


Please make required cutting depth in the ☐ like T, P. (Note : Bottom edge geometry for blind hole is available as special)

Body code No.	Shank d	S	T(3 x Dia.) L1	T(3 x Dia.) L2	T(3 x Dia.) L3	P(5 x Dia.) L1	P(5 x Dia.) L2	P(5 x Dia.) L3	Applicable IR, IBR	Cap screw M	No. of flute
YTRI 150-174 ☐	20	12.0	119	69	58	153	103	92	IR 150~174, IBR 150~174	M2.5x30	6
YTRI 175-199 ☐		13.0	129	79	65	169	119	105	IR 175~199, IBR 175~199	M2.5x30	
YTRI 200-224 ☐		14.7	141	91	74	185	135	118	IR 200~224, IBR 200~224	M3x30	8
YTRI 225-249 ☐	25	16.5	159	103	81	209	153	131	IR 225~249, IBR 225~249	M4x39	
YTRI 250-274 ☐		18.2	166	110	90	221	165	145	IR 250~274, IBR 250~274	M5x43	
YTRI 275-299 ☐	32	20.0	185	125	98	245	185	158	IR 275~299, IBR 275~299	M5x49	10
YTRI 300-324 ☐		22.0	192	132	105	257	197	170	IR 300~324, IBR 300~324	M6x53	
YTRI 325-349 ☐		23.5	200	140	113	270	210	183	IR 325~349, IBR 325~349	M6x57	
YTRI 350-374 ☐	40	25.2	225	155	120	300	230	195	IR 350~374, IBR 350~374	M8x61	12
YTRI 375-400 ☐		27.0	233	163	128	313	243	208	IR 375~400, IBR 375~400	M8x67	

Solid Carbide "F"(flat bottom) point drills

YSDF YSDLF



"F" point test photo as below

Drill : YSDLF 100 TiAlN
Material : SCM440(42CrMo4)
rpm : 2,000
f : 0.2mm/rev (**F** : 400mm/min)

Solid Carbide "F" Point Drill

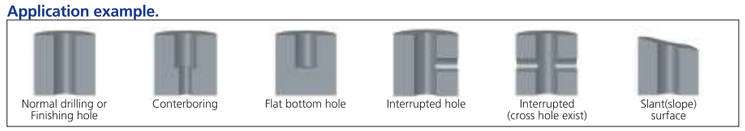
Code No.	D	d	L1	L2	L3
YSDF 030-035	3.0-3.5	4	55	20	15
YSDF 036-041	3.6-4.1			25	19
YSDF 042-051	4.2-5.1	5	62	32	25
YSDF 052-061	5.2-6.1	6	66	36	27
YSDF 062-071	6.2-7.1	7	74	42	32
YSDF 072-081	7.2-8.1	8	79	46	34
YSDF 082-091	8.2-9.1	9	84	50	37
YSDF 092-101	9.2-10.1	10	89	53	38
YSDF 102-111	10.2-11.1	11	95	55	40
YSDF 112-121	11.2-12.1	12	102	62	44
YSDF 122-131	12.2-13.1	13			42
YSDF 132-141	13.2-14.1	14	107	64	43
YSDF 142-151	14.2-15.1	15	111	67	45
YSDF 152-161	15.2-16.1	16	115	69	
YSDF 162-171	16.2-17.1	17	119	71	46
YSDF 172-181	17.2-18.1	18	123	74	47
YSDF 182-191	18.2-19.1	19	127	76	48
YSDF 192-200	19.2-20.0	20	131	80	50

Solid Carbide "F" Point Long Drill

Code No.	D	d	L1	L2	L3
YSDLF 030-035	3.0-3.5	4	80	45	40
YSDLF 036-041	3.6-4.1				39
YSDLF 042-051	4.2-5.1	5			38
YSDLF 052-061	5.2-6.1	6	83	50	41
YSDLF 062-071	6.2-7.1	7	85	53	43
YSDLF 072-081	7.2-8.1	8	90	58	46
YSDLF 082-091	8.2-9.1	9	98	64	51
YSDLF 092-101	9.2-10.1	10	105	68	53
YSDLF 102-111	10.2-11.1	11	110	73	57
YSDLF 112-121	11.2-12.1	12	120	80	62
YSDLF 122-131	12.2-13.1	13	137	90	71
YSDLF 132-141	13.2-14.1	14	147	96	75
YSDLF 142-151	14.2-15.1	15	153	100	78
YSDLF 152-161	15.2-16.1	16	160	112	88
YSDLF 162-171	16.2-17.1	17			87
YSDLF 172-181	17.2-18.1	18			85
YSDLF 182-191	18.2-19.1	19			84
YSDLF 192-200	19.2-20.0	20			82

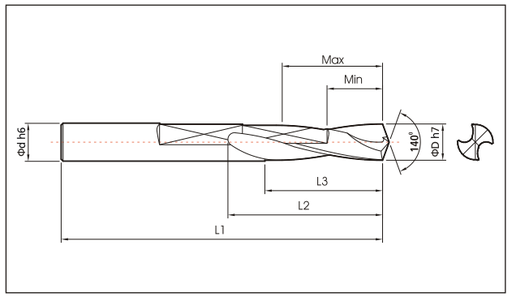
Note : "F" point drill is available on request.

Application example.



Solid Carbide Chamfer Drill, Metric

(The above picture illustrate YCD + YCH complete kit.)



Model : YCD

- Solid Carbide Chamfer drill, Plain cylindrical shank with flat grinding to fit YCH holder.
- 140° self-centering point for accurate hole positioning. Slow helix angle : 15° spiral(to adjust cutting depth).
- YCD is used with combination YCH chamfer holder and carbide insert XCGX1102. See page 25.
- Holder can be moved back and forth by one locking screw to adjust cutting depth.

Carbide substrate:

- Ultra-fine Micro Grain, TiN(standard stock), TiAlN

Application

- Economically drilling and chamfering(or countersinking) in one operation
- To elliminate the need for center drilling and partially reaming. Specially designed for machining center or CNC application.
- Broad range application from general to tough material.

Code No.	D	d	L1	L2	L3	Hole depth Min	Hole depth Max	Applicable Holder
YCD 051	5.1	6.0	66	30	24	9	20	YCH 060
YCD 052	5.2							
YCD 053	5.3							
YCD 054	5.4							
YCD 055	5.5							
YCD 056	5.6							
YCD 057	5.7							
YCD 058	5.8							
YCD 059	5.9							
YCD 060	6.0							
YCD 061	6.1	7.0	74	37	30	11	25	YCH 070
YCD 062	6.2							
YCD 063	6.3							
YCD 064	6.4							
YCD 065	6.5							
YCD 066	6.6							
YCD 067	6.7							
YCD 068	6.8							
YCD 069	6.9							
YCD 070	7.0							

Code No.	D	d	L1	L2	L3	Hole depth Min	Hole depth Max	Applicable Holder
YCD 071	7.1	8.0	79	41	33	12	28	YCH 080
YCD 072	7.2							
YCD 073	7.3							
YCD 074	7.4							
YCD 075	7.5							
YCD 076	7.6							
YCD 077	7.7							
YCD 078	7.8							
YCD 079	7.9							
YCD 080	8.0							
YCD 081	8.1	9.0	84	45	36	14	31	YCH 090
YCD 082	8.2							
YCD 083	8.3							
YCD 084	8.4							
YCD 085	8.5							
YCD 086	8.6							
YCD 087	8.7							
YCD 088	8.8							
YCD 089	8.9							
YCD 090	9.0							

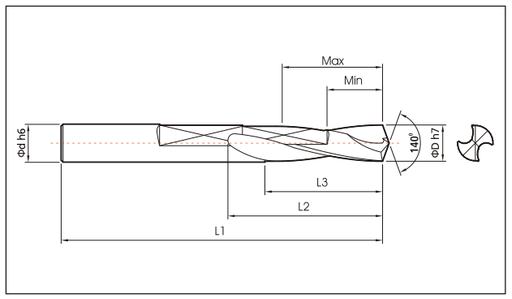
Continued

Code No.	D	d	L1	L2	L3	Hole depth Min	Hole depth Max	Applicable Holder
YCD 091	9.1	10.0	89	49	39	16	34	YCH 100
YCD 092	9.2							
YCD 093	9.3							
YCD 094	9.4							
YCD 095	9.5							
YCD 096	9.6							
YCD 097	9.7							
YCD 098	9.8							
YCD 099	9.9							
YCD 100	10.0							
YCD 101	10.1	11.0	95	47	36	17	31	YCH 110
YCD 102	10.2							
YCD 103	10.3							
YCD 104	10.4							
YCD 105	10.5							
YCD 106	10.6							
YCD 107	10.7							
YCD 108	10.8							
YCD 109	10.9							
YCD 110	11.0							
YCD 111	11.1	12.0	102	53	41	19	35	YCH 120
YCD 112	11.2							
YCD 113	11.3							
YCD 114	11.4							
YCD 115	11.5							
YCD 116	11.6							
YCD 117	11.7							
YCD 118	11.8							
YCD 119	11.9							
YCD 120	12.0							
YCD 121	12.1	13.0	102	54	41	19	35	YCH 130
YCD 122	12.2							
YCD 123	12.3							
YCD 124	12.4							
YCD 125	12.5							
YCD 126	12.6							
YCD 127	12.7							
YCD 128	12.8							
YCD 129	12.9							
YCD 130	13.0							
YCD 131	13.1	14.0	107	58	44	20	38	YCH 140
YCD 132	13.2							
YCD 133	13.3							
YCD 134	13.4							
YCD 135	13.5							
YCD 136	13.6							
YCD 137	13.7							
YCD 138	13.8							
YCD 139	13.9							
YCD 140	14.0							
YCD 141	14.1	15.0	111	62	47	24	41	YCH 150
YCD 142	14.2							
YCD 143	14.3							
YCD 144	14.4							
YCD 145	14.5							

Code No.	D	d	L1	L2	L3	Hole depth Min	Hole depth Max	Applicable Holder
YCD 146	14.6	15.0	111	62	47	24	41	YCH 150
YCD 147	14.7							
YCD 148	14.8							
YCD 149	14.9							
YCD 150	15.0							
YCD 151	15.1	16.0	115	65	49	25	43	YCH 160
YCD 152	15.2							
YCD 153	15.3							
YCD 154	15.4							
YCD 155	15.5							
YCD 156	15.6							
YCD 157	15.7							
YCD 158	15.8							
YCD 159	15.9							
YCD 160	16.0							
YCD 161	16.1	17.0	119	69	52	26	46	YCH 170
YCD 162	16.2							
YCD 163	16.3							
YCD 164	16.4							
YCD 165	16.5							
YCD 166	16.6							
YCD 167	16.7							
YCD 168	16.8							
YCD 169	16.9							
YCD 170	17.0							
YCD 171	17.1	18.0	123	73	55	27	48	YCH 180
YCD 172	17.2							
YCD 173	17.3							
YCD 174	17.4							
YCD 175	17.5							
YCD 176	17.6							
YCD 177	17.7							
YCD 178	17.8							
YCD 179	17.9							
YCD 180	18.0							
YCD 181	18.1	19.0	127	76	57	28	50	YCH 190
YCD 182	18.2							
YCD 183	18.3							
YCD 184	18.4							
YCD 185	18.5							
YCD 186	18.6							
YCD 187	18.7							
YCD 188	18.8							
YCD 189	18.9							
YCD 190	19.0							
YCD 191	19.1	20.0	131	80	60	30	53	YCH 200
YCD 192	19.2							
YCD 193	19.3							
YCD 194	19.4							
YCD 195	19.5							
YCD 196	19.6							
YCD 197	19.7							
YCD 198	19.8							
YCD 199	19.9							
YCD 200	20.0							

Solid Carbide Chamfer Drill, Inch

(The above picture illustrate YCD + YCH complete kit.)



Model : YCD

- Solid Carbide Chamfer drill, Plain cylindrical shank with flat grinding to fit YCH holder.
- 140° self-centering point for accurate hole positioning. Slow helix angle : 15° spiral(to adjust cutting depth).
- YCD is used with combination YCH chamfer holder and carbide insert XCGX1102. See page 25.
- Holder can be moved back and forth by one locking screw to adjust cutting depth.

Carbide substrate:

- Ultra-fine Micro Grain, TiN(standard stock), TiAlN

Application

- Economically drilling and chamfering(or countersinking) in one operation
- To elliminate the need for center drilling and partially reaming. Specially designed for machining center or CNC application.
- Broad range application from general to tough material.

Inch Size

Code No.	D	d	L1	L2	L3	Hole depth Min	Hole depth Max	Applicable Holder
YCD .2010	#7	1/4	2.59	1.18	0.94	0.35	0.78	YCH.2500
YCD .2130	#3							
YCD .2570	F		2.91	1.45	1.18	0.43	0.98	
YCD .2720	I							
YCD .3125	5/16	5/16	3.11	1.61	1.29	0.47	1.1	YCH.3125
YCD .3320	Q							
YCD .3680	U	3/8	3.5	1.92	1.53	0.62	1.33	YCH.3750
YCD .3906	25/64							
YCD .4219	25/64	7/16	3.74	1.85	1.41	0.66	1.22	YCH.4375

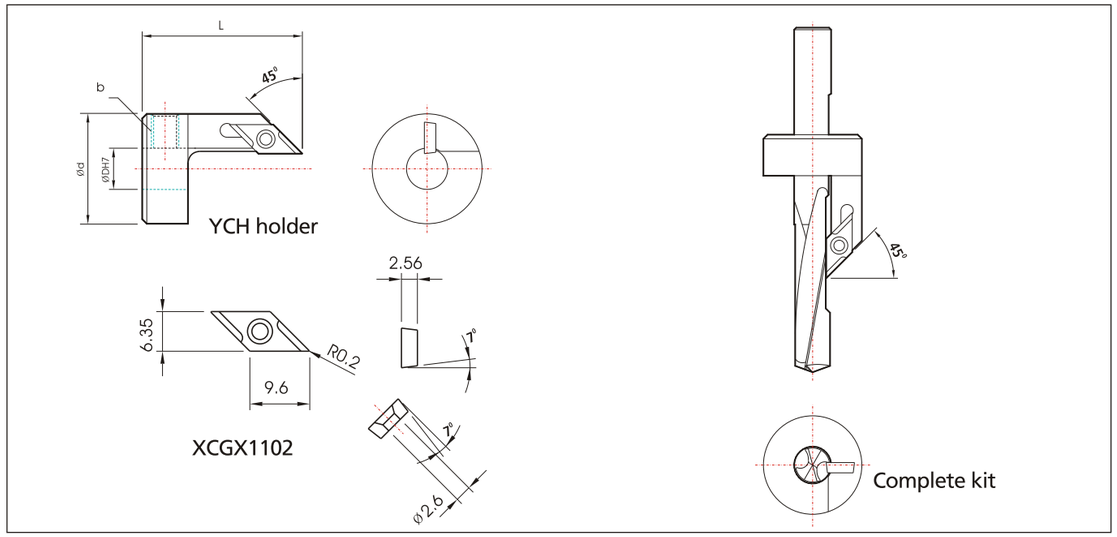
Inch Size

Code No.	D	d	L1	L2	L3	Hole depth Min	Hole depth Max	Applicable Holder
YCD .4531	29/64	7/16	3.74	1.85	1.41	0.66	1.22	YCH.4375
YCD .4844	31/64	1/2	4.01	2.12	1.61	0.74	1.37	YCH.5000
YCD .5156	33/64						1.34	
YCD .5312	17/32	9/16	4.21	2.28	1.73	0.78	1.49	YCH.5625
YCD .5781	37/64							
YCD .6562	21/32	11/16	4.68	2.71	2.04	1.02	1.81	YCH.6875
YCD .6875	11/16							
YCD .7656	49/64	3/4	5.15	3.14	2.36	1.18	2.08	YCH.7500
YCD .8125	13/16							

Chamfer Holder, Metric

Model : YCH

- Specially designed to work with Solid Chamfer Drill (**YCD**) & Insert **XCGX1102**.
- Drilling and chamfering in one operation economically.
- Carbide Insert **XCGX1102** has two cutting edges for economic use.
- Holder moveable back and forth to adjust cutting depth by SS bolt.



Code No.	D	d	L	Socket Screw Bolt size (b)	Applicable size range(YCD model)
YCH 060	6.0	21	29	M6 x 1.0P	YCD 051~060
YCH 070	7.0	22	32		YCD 061~070
YCH 080	8.0	23	34		YCD 071~080
YCH 090	9.0	24	35		YCD 081~090
YCH 100	10.0	25	36	M8 x 1.25P	YCD 091~100
YCH 110	11.0	26	34		YCD 101~110
YCH 120	12.0	27	36		YCD 111~120
YCH 130	13.0	28	36		YCD 121~130
YCH 140	14.0	29	38		YCD 131~140
YCH 150	15.0	30	39	M10 x 1.5P	YCD 141~150
YCH 160	16.0	31	40		YCD 151~160
YCH 170	17.0	32	42		YCD 161~170
YCH 180	18.0	33	43		YCD 171~180
YCH 190	19.0	34	44		YCD 181~190
YCH 200	20.0	35	45		YCD 191~200

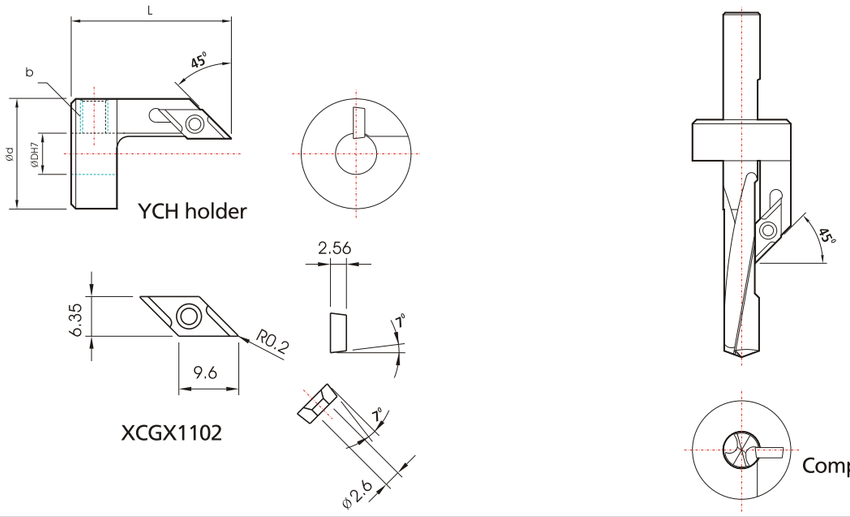
❖ See page 22 & 24 of applicable YCD drill together with this model.

Chamfer Holder, Inch

YCH

Model : YCH

- Specially designed to work with Solid Chamfer Drill (**YCD**) & Insert **XCGX1102**.
- Drilling and chamfering in one operation economically.
- Carbide Insert **XCGX1102** has two cutting edges for economic use.
- Holder moveable back and forth to adjust cutting depth by SS bolt.



Code No.	D	d	L	Socket Screw Bolt size (b)	Applicable size range(YCD model)
YCH .2500	.2500	0.83	1.14	M6 x 1.0P	YCD .2010~.2720
YCH .3125	.3125	0.91	1.34		YCD .3125~.3320
YCH .3750	.3750	0.98	1.42	M8 x 1.25P	YCD .3680~.3906
YCH .4375	.4375	1.02	1.34		YCD .4219~.4531
YCH .5000	.5000	1.1	1.42		YCD .4844~.5156
YCH .5625	.5625	1.14	1.5		YCD .5312~.5781
YCH .6875	.6875	1.26	1.65	M10 x 1.5P	YCD .6562~.6875
YCH .7500	.7500	1.34	1.73		YCD .7656~.8125

❖ See page 24 of applicable YCD drill together with this model.

Test Report Form

Yes® YESTOOL Co., Ltd.

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☐e-mail : yestool@yestool.co.kr ☐ www.yestool.com

COMPANY AND LOCATION PHONE	DATE	ENGINEER NAME
CUSTOMER NAME PHONE	MATERIAL TYPE AND CONDITION	HARDNESS RC BRN
PART DESCRIPTION	THROUGH OR FLOOD COOLANT ☐ ☐	DRILLING POSITION HORIZONTAL ☐ VERTICAL ☐
MACHINE AND TYPE	COOLANT TYPE BRAND	COOLANT PRESSURE PSI / COOLANT FLOW GPM
MACHINE CONDITION	HP	HOLE PURPOSE TAPPED ☐ CLEARANCE ☐ ROUGH HOLE BORING ☐
OPERATION		

PERFORMANCE, TECHNICAL, AND COST DATA	YES INDEXABLE DRILL	COMPETITOR'S
DRILL BRAND		
DRILL TYPE & DIAMETER		
TOOLHOLDING DEVICE		
INSERT OR BLADE		
INSERT GRADE & BRAND		
HOLE DIAMETER AND TOLERANCE(ROUGH)		
HOLE DIAMETER AND TOLERANCE(FINISH)		
HOLE DEPTH BLIND YES NO		
RPM		
SPEED (V: m/min)		
FEED RATE (f: mm/rev)		
FEED (F: mm/min)		
CUTTING TIME PER HOLE IN MINUTES		
CHIP CONTROL		
SURFACE FINISH		
NUMBER OF HOLES PER EDGE		
LINEAR METERS DRILLED PER EDGE		
REASON FOR CHANGING DRILL		
INSERT (BLADES) PER DRILL		
INDEXES PER INSERT		
INSERT COST		
PROJECTED RECONDITIONS PER BLADE		
RECONDITION COST		
MACHINE COST PER HOUR		
HOLES PER PART		
ESTIMATED PARTS PER YEAR		