



YESTOOL Co., Ltd.

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YESTOOL's worldwide network

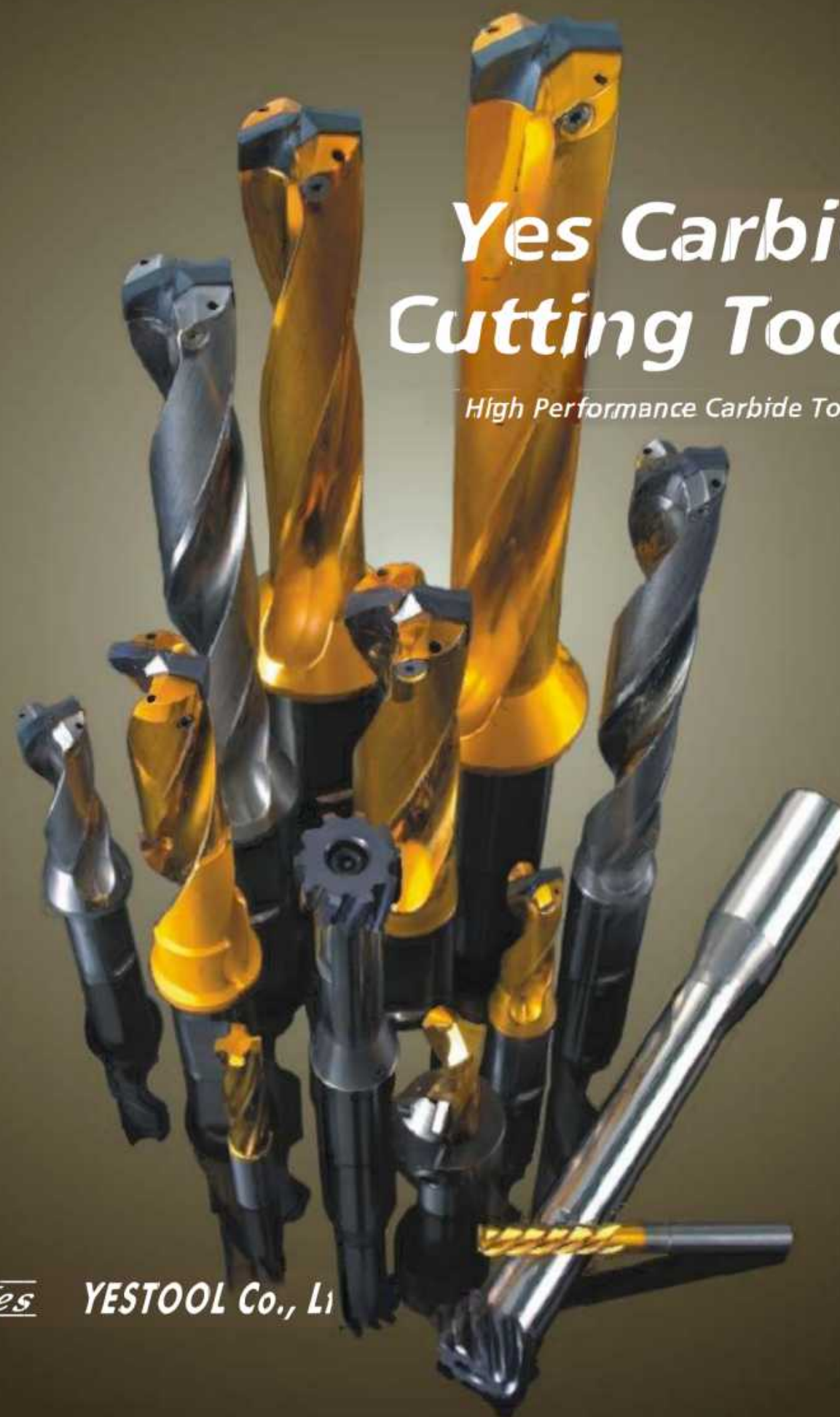


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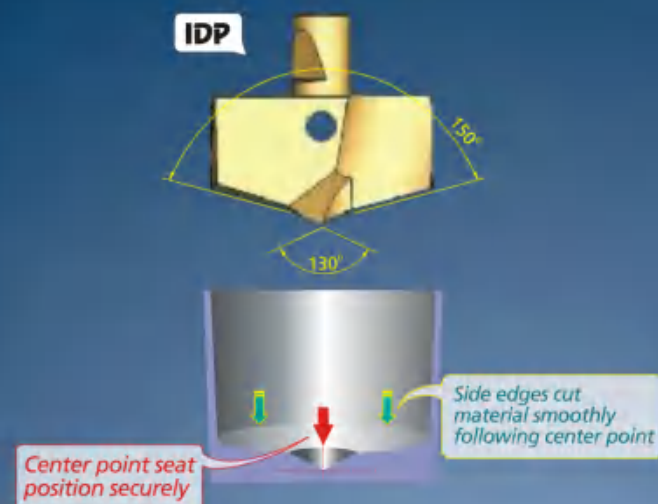
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Yes Carbide Cutting Tools

High Performance Carbide Tools Line

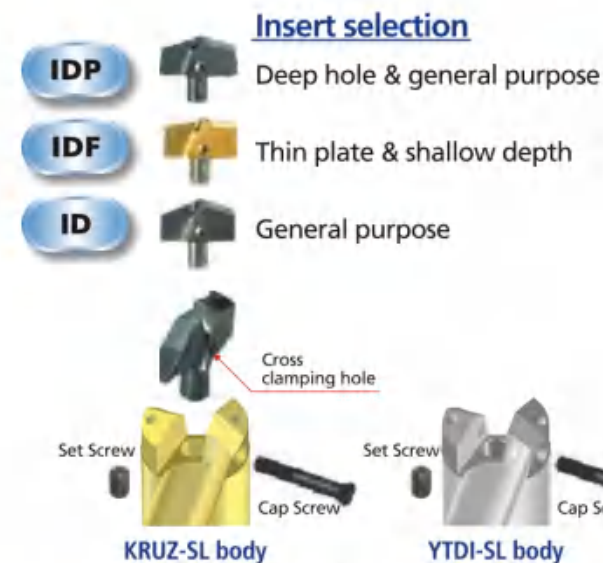


Yes **YESTOOL Co., Ltd.**

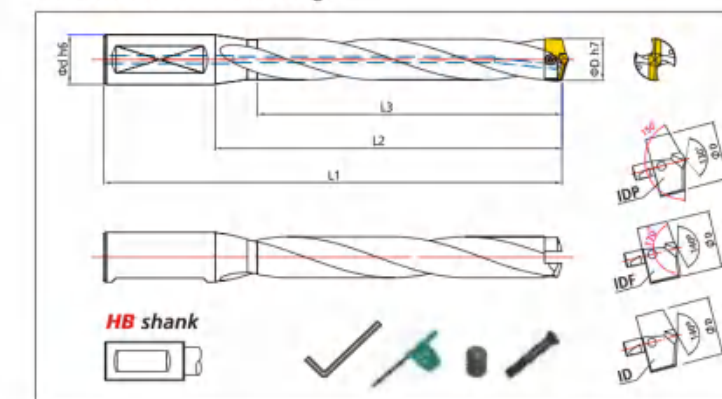


Your Metal Cutting
Solution by
Yes® Carbide Cutting Tools

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



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	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
Φ8.5 ~Φ8.9	YTDI 085□SL KRUZ 085□SL		P(5xD)	100	55	43	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				
Φ9.0 ~Φ9.4	YTDI 090□SL KRUZ 090□SL		H(7xD)	117	72	60	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				
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	CS100 ~115 SL	T6 Torque 0.6Nm (Max)	None	None
Φ10.0 ~Φ10.4	YTDI 100□SL KRUZ 100□SL		P(5xD)	115	67	58	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				
Φ10.5 ~Φ10.9	YTDI 105□SL KRUZ 105□SL		H(7xD)	140	92	78	IDP 105, IDP 106, IDP 107, IDP 108, IDP 109 IDF 105, IDF 106, IDF 107, IDF 108, IDF 109 ID 105, ID 106, ID 107, ID 108, ID 109				
Φ11.0 ~Φ11.4	YTDI 110□SL KRUZ 110□SL	16.0	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	CS120 ~135 SL	T6 Torque 0.6Nm (Max)	M2x4	0.9mm
Φ11.5 ~Φ11.9	YTDI 115□SL KRUZ 115□SL		P(5xD)	125	77	68	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				
Φ12.0 ~Φ12.4	YTDI 120□SL KRUZ 120□SL		H(7xD)	160	112	98	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				

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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	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 P(5xD) 140 92 77 H(7xD) 175 127 102 L(10xD) 196 148 138	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	
Φ13.0 ~Φ13.4	YTDI 130□SL KRUZ 130□SL		T(3xD) 110 62 48 P(5xD) 140 92 77 H(7xD) 175 127 102 L(10xD) 202 154 143	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							
Φ13.5 ~Φ13.9	YTDI 135□SL KRUZ 135□SL		T(3xD) 115 67 52 P(5xD) 145 97 82 H(7xD) 180 132 107 L(10xD) 208 160 149	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							
Φ14.0 ~Φ14.4	YTDI 140□SL KRUZ 140□SL		T(3xD) 115 67 52 P(5xD) 145 97 82 H(7xD) 180 132 107 L(10xD) 214 166 154	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							
Φ14.5 ~Φ14.9	YTDI 145□SL KRUZ 145□SL	20.0	T(3xD) 125 75 55 P(5xD) 148 98 85 H(7xD) 185 135 117 L(10xD) 222 172 160	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			CS 140 ~155 SL	T7 Torque 0.9Nm (Max)	M2.5x4	1.3mm	
Φ15.0 ~Φ15.4	YTDI 150□SL KRUZ 150□SL		T(3xD) 125 75 55 P(5xD) 158 108 95 H(7xD) 185 135 117 L(10xD) 227 177 165	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							
Φ15.5 ~Φ15.9	YTDI 155□SL KRUZ 155□SL		T(3xD) 125 75 55 P(5xD) 158 108 95 H(7xD) 185 135 117 L(10xD) 234 184 171	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							
Φ16.0 ~Φ16.4	YTDI 160□SL KRUZ 160□SL		T(3xD) 130 80 55 P(5xD) 160 110 97 H(7xD) 190 140 123 L(10xD) 239 189 176	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							
Φ16.5 ~Φ16.9	YTDI 165□SL KRUZ 165□SL	20.0	T(3xD) 130 80 55 P(5xD) 160 110 97 H(7xD) 190 140 123 L(10xD) 246 196 182	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			CS 160 ~175 SL	T8 Torque 1.5Nm (Max)	M3x6	1.5mm	
Φ17.0 ~Φ17.4	YTDI 170□SL KRUZ 170□SL		T(3xD) 130 80 55 P(5xD) 160 110 99 H(7xD) 200 150 128 L(10xD) 251 201 187	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							
Φ17.5 ~Φ17.9	YTDI 175□SL KRUZ 175□SL		T(3xD) 130 80 55 P(5xD) 160 110 99 H(7xD) 200 150 128 L(10xD) 257 207 193	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							
Φ18.0 ~Φ18.4	YTDI 180□SL KRUZ 180□SL		T(3xD) 140 90 63 P(5xD) 170 120 100 H(7xD) 210 160 138 L(10xD) 263 213 198	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							
Φ18.5 ~Φ18.9	YTDI 185□SL KRUZ 185□SL	25.0	T(3xD) 140 90 63 P(5xD) 170 120 100 H(7xD) 210 160 138 L(10xD) 269 219 204	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			CS 180 ~195 SL	T8 Torque 1.5Nm (Max)	M3x6	1.5mm	
Φ19.0 ~Φ19.4	YTDI 190□SL KRUZ 190□SL		T(3xD) 140 90 63 P(5xD) 170 120 100 H(7xD) 210 160 138 L(10xD) 275 225 209	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							
Φ19.5 ~Φ19.9	YTDI 195□SL KRUZ 195□SL		T(3xD) 140 90 63 P(5xD) 170 120 100 H(7xD) 210 160 138 L(10xD) 281 231 215	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							
Φ20.0 ~Φ20.4	YTDI 200□SL KRUZ 200□SL		T(3xD) 150 94 69 P(5xD) 190 134 110 H(7xD) 230 174 153 L(10xD) 292 236 220	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							

Hole size range	Body Code No.	Shank Size(Φd)	Cutting depth (Length x ΦD)	L1	L2	L3	Insert Code No. to fit in body	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 P(5xD) 190 134 110 H(7xD) 230 174 153 L(10xD) 299 243 226	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	 Torque 1.5Nm (Max)			
Φ21.0 ~Φ21.4	YTDI 210□SL KRUZ 210□SL		T(3xD) 150 94 69 P(5xD) 190 134 110 H(7xD) 230 174 153 L(10xD) 304 248 231	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							
Φ21.5 ~Φ21.9	YTDI 215□SL KRUZ 215□SL		T(3xD) 150 94 69 P(5xD) 190 134 110 H(7xD) 230 174 153 L(10xD) 311 255 237	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							
Φ22.0 ~Φ22.4	YTDI 220□SL KRUZ 220□SL		T(3xD) 160 104 75 P(5xD) 200 144 121 H(7xD) 240 184 168 L(10xD) 316 260 242	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				
Φ22.5 ~Φ22.9	YTDI 225□SL KRUZ 225□SL		T(3xD) 160 104 75 P(5xD) 200 144 121 H(7xD) 240 184 168 L(10xD) 322 266 248	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 227, ID 228, ID 229							
Φ23.0 ~Φ23.4	YTDI 230□SL KRUZ 230□SL		T(3xD) 160 104 75 P(5xD) 200 144 121 H(7xD) 240 184 168 L(10xD) 328 272 253	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							
Φ23.5 ~Φ23.9	YTDI 235□SL KRUZ 235□SL		T(3xD) 160 104 75 P(5xD) 200 144 121 H(7xD) 250 194 178 L(10xD) 334 278 259	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			M3x6				1.5mm
Φ24.0 ~Φ24.4	YTDI 240□SL KRUZ 240□SL		T(3xD) 170 110 83 P(5xD) 220 160 133 H(7xD) 270 210 183 L(10xD) 344 284 264	IDP 240, IDP 241, IDP 242, IDP 243, IDP 244 IDF 240, IDF 241, IDF 242, IDF 243, IDF 244 ID 240, ID 241, ID 242, ID 243, ID 244			CS 240 ~255 SL				
Φ24.5 ~Φ24.9	YTDI 245□SL KRUZ 245□SL		T(3xD) 170 110 83 P(5xD) 220 160 133 H(7xD) 270 210 183 L(10xD) 350 290 270	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							
Φ25.0 ~Φ25.4	YTDI 250□SL KRUZ 250□SL		T(3xD) 170 110 83 P(5xD) 220 160 133 H(7xD) 270 210 183 L(10xD) 355 295 275	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 253, ID 254							
Φ25.5 ~Φ25.9	YTDI 255□SL KRUZ 255□SL		T(3xD) 170 110 83 P(5xD) 220 160 133 H(7xD) 270 210 183 L(10xD) 362 302 281	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			CS 260 ~275 SL				
Φ26.0 ~Φ26.4	YTDI 260□SL KRUZ 260□SL		T(3xD) 180 120 90 P(5xD) 240 180 144 H(7xD) 290 230 198 L(10xD) 367 307 286	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							
Φ26.5 ~Φ26.9	YTDI 265□SL KRUZ 265□SL	T(3xD) 180 120 90 P(5xD) 240 180 144 H(7xD) 290 230 198 L(10xD) 374 314 292	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								
Φ27.0 ~Φ27.4	YTDI 270□SL KRUZ 270□SL	T(3xD) 180 120 90 P(5xD) 240 180 144 H(7xD) 290 230 198 L(10xD) 379 319 297	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			CS 280 ~295 SL					
Φ27.5 ~Φ27.9	YTDI 275□SL KRUZ 275□SL	T(3xD) 180 120 90 P(5xD) 240 180 144 H(7xD) 290 230 198 L(10xD) 385 325 303	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								
Φ28.0 ~Φ28.4	YTDI 280□SL KRUZ 280□SL	T(3xD) 190 130 97 P(5xD) 250 190 155 H(7xD) 300 240 213 L(10xD) 391 331 308	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								

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	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 P(5xD) 250 190 155 H(7xD) 300 240 213 L(10xD) 397 337 314	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
Φ29.0 ~Φ29.4	YTDI 290□SL KRUZ 290□SL		T(3xD) 190 130 97 P(5xD) 250 190 155 H(7xD) 300 240 213 L(10xD) 403 343 319	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				
Φ29.5 ~Φ29.9	YTDI 295□SL KRUZ 295□SL		T(3xD) 190 130 97 P(5xD) 250 190 155 H(7xD) 300 240 213 L(10xD) 409 349 325	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				
Φ30.0 ~Φ30.4	YTDI 300□SL KRUZ 300□SL		T(3xD) 200 140 105 P(5xD) 260 200 165 H(7xD) 320 260 228 L(10xD) 414 354 330	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				
Φ30.5 ~Φ30.9	YTDI 305□SL KRUZ 305□SL		T(3xD) 200 140 105 P(5xD) 260 200 165 H(7xD) 320 260 228 L(10xD) 421 361 336	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				
Φ31.0 ~Φ31.4	YTDI 310□SL KRUZ 310□SL		T(3xD) 200 140 105 P(5xD) 260 200 165 H(7xD) 320 260 228 L(10xD) 426 366 341	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				
Φ31.5 ~Φ31.9	YTDI 315□SL KRUZ 315□SL		T(3xD) 200 140 105 P(5xD) 260 200 165 H(7xD) 320 260 228 L(10xD) 433 373 347	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				
Φ32.0 ~Φ32.4	YTDI 320□SL KRUZ 320□SL		T(3xD) 210 150 110 P(5xD) 270 210 177 H(7xD) 340 280 243 L(10xD) 438 378 352	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				
Φ32.5 ~Φ32.9	YTDI 325□SL KRUZ 325□SL		T(3xD) 210 150 110 P(5xD) 270 210 177 H(7xD) 340 280 243 L(10xD) 444 384 358	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				
Φ33.0 ~Φ33.4	YTDI 330□SL KRUZ 330□SL		T(3xD) 210 150 110 P(5xD) 270 210 177 H(7xD) 340 280 243 L(10xD) 450 390 363	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				
Φ33.5 ~Φ33.9	YTDI 335□SL KRUZ 335□SL	40.0	T(3xD) 210 150 110 P(5xD) 270 210 177 H(7xD) 340 280 243 L(10xD) 456 396 369	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	CS 320 ~355 SL	T20 Torque 4.0Nm (Max)	M5x10	2.5mm
Φ34.0 ~Φ34.4	YTDI 340□SL KRUZ 340□SL		T(3xD) 230 160 118 P(5xD) 300 230 188 H(7xD) 360 290 258 L(10xD) 472 402 374	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				
Φ34.5 ~Φ34.9	YTDI 345□SL KRUZ 345□SL		T(3xD) 230 160 118 P(5xD) 300 230 188 H(7xD) 360 290 258 L(10xD) 478 408 380	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				
Φ35.0 ~Φ35.4	YTDI 350□SL KRUZ 350□SL		T(3xD) 230 160 118 P(5xD) 300 230 188 H(7xD) 360 290 258 L(10xD) 483 413 385	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				
Φ35.5 ~Φ35.9	YTDI 355□SL KRUZ 355□SL		T(3xD) 230 160 118 P(5xD) 300 230 188 H(7xD) 360 290 258 L(10xD) 490 420 391	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				
Φ36.0 ~Φ36.4	YTDI 360□SL KRUZ 360□SL		T(3xD) 250 180 125 P(5xD) 310 240 199 H(7xD) 380 310 273 L(10xD) 495 425 396	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				

Hole size range	Body Code No.	Shank Size(Φd)	Cutting depth (Length x ΦD)	L1	L2	L3	Insert Code No. to fit in body	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 P(5xD) 310 240 199 H(7xD) 380 310 273 L(10xD) 502 432 402	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
Φ37.0 ~Φ37.4	YTDI 370□SL KRUZ 370□SL		T(3xD) 250 180 125 P(5xD) 310 240 199 H(7xD) 380 310 273 L(10xD) 507 437 407	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				
Φ37.5 ~Φ37.9	YTDI 375□SL KRUZ 375□SL		T(3xD) 250 180 125 P(5xD) 310 240 199 H(7xD) 380 310 273 L(10xD) 513 443 413	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				
Φ38.0 ~Φ38.4	YTDI 380□SL KRUZ 380□SL		T(3xD) 250 180 132 P(5xD) 320 250 210 H(7xD) 400 330 288 L(10xD) 519 449 418	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				
Φ38.5 ~Φ38.9	YTDI 385□SL KRUZ 385□SL		T(3xD) 250 180 132 P(5xD) 320 250 210 H(7xD) 400 330 288 L(10xD) 525 455 424	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				
Φ39.0 ~Φ39.4	YTDI 390□SL KRUZ 390□SL		T(3xD) 250 180 132 P(5xD) 320 250 210 H(7xD) 400 330 288 L(10xD) 531 461 429	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				
Φ39.5 ~Φ39.9	YTDI 395□SL KRUZ 395□SL		T(3xD) 250 180 132 P(5xD) 320 250 210 H(7xD) 400 330 288 L(10xD) 537 467 435	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				
Φ40.0 ~Φ40.4	YTDI 400□SL KRUZ 400□SL		T(3xD) 270 200 138 P(5xD) 340 270 221 H(7xD) 420 350 303 L(10xD) 542 472 440	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				
Φ40.5 ~Φ40.9	YTDI 405□SL KRUZ 405□SL		T(3xD) 270 200 138 P(5xD) 340 270 221 H(7xD) 420 350 303 L(10xD) 549 479 446	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				
Φ41.0 ~Φ41.4	YTDI 410□SL KRUZ 410□SL		T(3xD) 270 200 138 P(5xD) 340 270 221 H(7xD) 420 350 303 L(10xD) 554 484 451	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				
Φ41.5 ~Φ41.9	YTDI 415□SL KRUZ 415□SL	40.0	T(3xD) 270 200 138 P(5xD) 340 270 221 H(7xD) 420 350 303 L(10xD) 561 491 457	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	CS 400 ~445 SL	T20 Torque 4.0Nm (Max)	M6x12	3.0mm
Φ42.0 ~Φ42.4	YTDI 420□SL KRUZ 420□SL		T(3xD) 270 200 145 P(5xD) 340 270 232 H(7xD) 420 350 318 L(10xD) 566 496 462	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				
Φ42.5 ~Φ42.9	YTDI 425□SL KRUZ 425□SL		T(3xD) 270 200 145 P(5xD) 340 270 232 H(7xD) 420 350 318 L(10xD) 572 502 468	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				
Φ43.0 ~Φ43.4	YTDI 430□SL KRUZ 430□SL		T(3xD) 270 200 145 P(5xD) 340 270 232 H(7xD) 420 350 318 L(10xD) 578 508 473	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				
Φ43.5 ~Φ43.9	YTDI 435□SL KRUZ 435□SL		T(3xD) 270 200 145 P(5xD) 340 270 232 H(7xD) 420 350 318 L(10xD) 584 514 479	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				
Φ44.0 ~Φ44.4	YTDI 440□SL KRUZ 440□SL		T(3xD) 280 210 153 P(5xD) 370 300 243 H(7xD) 460 390 333 L(10xD) 590 520 484	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				

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	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 P(5xD) 370 300 243 H(7xD) 460 390 333 L(10xD) 596 526 490	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			
φ45.0 ~φ45.4	YTDI 450□SL KRUZ 450□SL	40.0	T(3xD) 280 210 153 P(5xD) 370 300 243 H(7xD) 460 390 333 L(10xD) 601 531 495	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				
φ45.5 ~φ45.9	YTDI 455□SL KRUZ 455□SL	40.0	T(3xD) 280 210 153 P(5xD) 370 300 243 H(7xD) 460 390 333 L(10xD) 608 538 501	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				
φ46.0 ~φ46.4	YTDI 460□SL KRUZ 460□SL	40.0	T(3xD) 280 210 160 P(5xD) 370 300 255 H(7xD) 460 390 348 L(10xD) 613 543 506	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				
φ46.5 ~φ46.9	YTDI 465□SL KRUZ 465□SL	40.0	T(3xD) 280 210 160 P(5xD) 370 300 255 H(7xD) 460 390 348 L(10xD) 620 550 512	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				
φ47.0 ~φ47.4	YTDI 470□SL KRUZ 470□SL	40.0	T(3xD) 280 210 160 P(5xD) 370 300 255 H(7xD) 460 390 348 L(10xD) 625 555 517	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				
φ47.5 ~φ47.9	YTDI 475□SL KRUZ 475□SL	40.0	T(3xD) 280 210 160 P(5xD) 370 300 255 H(7xD) 460 390 348 L(10xD) 631 561 523	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	CS 450 ~500 SL			
φ48.0 ~φ48.4	YTDI 480□SL KRUZ 480□SL	40.0	T(3xD) 300 230 167 P(5xD) 390 320 265 H(7xD) 490 420 363 L(10xD) 637 567 528	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				
φ48.5 ~φ48.9	YTDI 485□SL KRUZ 485□SL	40.0	T(3xD) 300 230 167 P(5xD) 390 320 265 H(7xD) 490 420 363 L(10xD) 643 573 534	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				
φ49.0 ~φ49.4	YTDI 490□SL KRUZ 490□SL	40.0	T(3xD) 300 230 167 P(5xD) 390 320 265 H(7xD) 490 420 363 L(10xD) 649 579 539	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				
φ49.5 ~φ49.9	YTDI 495□SL KRUZ 495□SL	40.0	T(3xD) 300 230 167 P(5xD) 390 320 265 H(7xD) 490 420 363 L(10xD) 655 585 545	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				
φ50.0 ~φ50.4	YTDI 500□SL KRUZ 500□SL	40.0	T(3xD) 300 230 167 P(5xD) 390 320 265 H(7xD) 490 420 363 L(10xD) 660 590 550	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				

KRUZ-SL Drills, Cutting Speed Recommendation

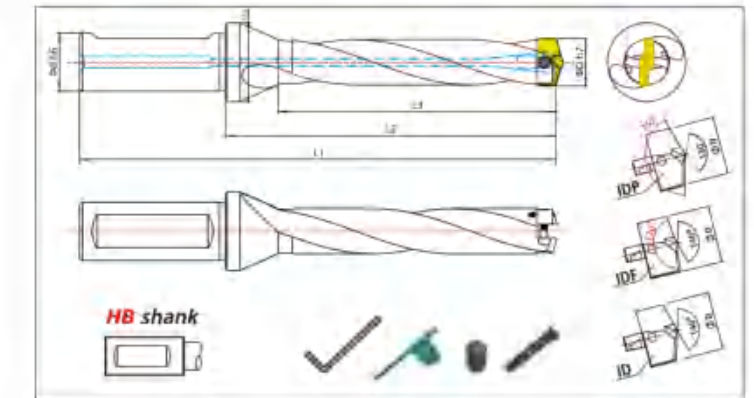
Drill Dia.	φ8~16mm		φ16~25mm		φ25~32mm		φ32~40mm		φ40~50mm	
	Speed (m/min)	Feed (mm/rev)	Speed (m/min)	Feed (mm/rev)	Speed (m/min)	Feed (mm/rev)	Speed (m/min)	Feed (mm/rev)	Speed (m/min)	Feed (mm/rev)
Grey cast iron (FC)	80~150	0.20~0.30	80~150	0.25~0.45	80~160	0.35~0.55	90~200	0.34~0.58	90~200	0.38~0.60
Nodular cast iron (FCD)	80~140	0.15~0.25	80~140	0.22~0.45	80~150	0.32~0.52	90~160	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



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	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 P(5xD) 103 58 48 H(7xD) 119 74 64	87	42	32		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			
φ8.5 ~φ8.9	YTDI 085 □ FSL KRUZ 085 □ FSL	10.0 (HA)	T(3xD) 89 44 34 P(5xD) 106 61 51 H(7xD) 123 78 68	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				
φ9.0 ~φ9.4	YTDI 090 □ FSL KRUZ 090 □ FSL	10.0 (HA)	T(3xD) 92 47 36 P(5xD) 110 65 54 H(7xD) 128 83 72	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				
φ9.5 ~φ9.9	YTDI 095 □ FSL KRUZ 095 □ FSL	10.0 (HA)	T(3xD) 97 49 38 P(5xD) 116 68 57 H(7xD) 135 87 76	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				
φ10.0 ~φ10.4	YTDI 100 □ FSL KRUZ 100 □ FSL	12.0 (HA)	T(3xD) 99 51 40 P(5xD) 119 71 60 H(7xD) 139 91 80	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				
φ10.5 ~φ10.9	YTDI 105 □ FSL KRUZ 105 □ FSL	12.0 (HA)	T(3xD) 102 54 42 P(5xD) 123 75 63 H(7xD) 144 96 84	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, ID 106, ID 107, ID 108, ID 109				
φ11.0 ~φ11.4	YTDI 110 □ FSL KRUZ 110 □ FSL	12.0 (HA)	T(3xD) 104 56 44 P(5xD) 126 78 66 H(7xD) 148 100 88 L(10xD) 181 133 121	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				
φ11.5 ~φ11.9	YTDI 115 □ FSL KRUZ 115 □ FSL	12.0 (HA)	T(3xD) 107 59 46 P(5xD) 130 82 69 H(7xD) 153 105 92 L(10xD) 188 140 127	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				
φ12.0 ~φ12.4	YTDI 120 □ FSL KRUZ 120 □ FSL	16.0	T(3xD) 109 61 48 P(5xD) 133 85 72 H(7xD) 157 109 96 L(10xD) 193 145 132	109	61	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

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)	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 P(5xD) 136 88 75 H(7xD) 161 113 100 L(10xD) 199 151 138	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	 Torque 0.6Nm (Max)	M2x4	0.9mm
Φ13.0 ~Φ13.4	YTDI 130 □ FSL KRUZ 130 □ FSL		T(3xD) 114 66 52 P(5xD) 140 92 78 H(7xD) 166 118 104 L(10xD) 205 157 143		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							
Φ13.5 ~Φ13.9	YTDI 135 □ FSL KRUZ 135 □ FSL		T(3xD) 116 68 54 P(5xD) 143 95 81 H(7xD) 170 122 108 L(10xD) 211 163 149		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							
Φ14.0 ~Φ14.4	YTDI 140 □ FSL KRUZ 140 □ FSL		T(3xD) 119 71 56 P(5xD) 147 99 84 H(7xD) 175 127 112 L(10xD) 217 169 154		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							
Φ14.5 ~Φ14.9	YTDI 145 □ FSL KRUZ 145 □ FSL	20.0	T(3xD) 123 73 58 P(5xD) 152 102 87 H(7xD) 181 131 116 L(10xD) 225 175 160	27	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				CS 140 ~155 SL	 Torque 0.9Nm (Max)	M2.5x4	1.3mm
Φ15.0 ~Φ15.4	YTDI 150 □ FSL KRUZ 150 □ FSL		T(3xD) 127 77 60 P(5xD) 157 107 90 H(7xD) 187 137 120 L(10xD) 232 182 165		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							
Φ15.5 ~Φ15.9	YTDI 155 □ FSL KRUZ 155 □ FSL		T(3xD) 130 80 62 P(5xD) 161 111 93 H(7xD) 192 142 124 L(10xD) 239 189 171		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							
Φ16.0 ~Φ16.4	YTDI 160 □ FSL KRUZ 160 □ FSL		T(3xD) 132 82 64 P(5xD) 164 114 96 H(7xD) 196 146 128 L(10xD) 244 194 176		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							
Φ16.5 ~Φ16.9	YTDI 165 □ FSL KRUZ 165 □ FSL	20.0	T(3xD) 135 85 66 P(5xD) 168 118 99 H(7xD) 201 151 132 L(10xD) 251 201 182	27	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				CS 160 ~175 SL	 Torque 1.5Nm (Max)	M3x6	1.5mm
Φ17.0 ~Φ17.4	YTDI 170 □ FSL KRUZ 170 □ FSL		T(3xD) 137 87 68 P(5xD) 171 121 102 H(7xD) 205 155 136 L(10xD) 256 206 187		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							
Φ17.5 ~Φ17.9	YTDI 175 □ FSL KRUZ 175 □ FSL		T(3xD) 139 89 70 P(5xD) 174 124 105 H(7xD) 209 159 140 L(10xD) 262 212 193		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							
Φ18.0 ~Φ18.4	YTDI 180 □ FSL KRUZ 180 □ FSL		T(3xD) 142 92 72 P(5xD) 178 128 108 H(7xD) 214 164 144 L(10xD) 268 218 198		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							
Φ18.5 ~Φ18.9	YTDI 185 □ FSL KRUZ 185 □ FSL	25.0	T(3xD) 144 94 74 P(5xD) 181 131 111 H(7xD) 218 168 148 L(10xD) 274 224 204	32	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				CS 180 ~195 SL	 Torque 1.5Nm (Max)	M3x6	1.5mm
Φ19.0 ~Φ19.4	YTDI 190 □ FSL KRUZ 190 □ FSL		T(3xD) 147 97 76 P(5xD) 185 135 114 H(7xD) 223 173 152 L(10xD) 280 230 209		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							
Φ19.5 ~Φ19.9	YTDI 195 □ FSL KRUZ 195 □ FSL		T(3xD) 149 99 78 P(5xD) 188 138 117 H(7xD) 227 177 156 L(10xD) 286 236 215		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							
Φ20.0 ~Φ20.4	YTDI 200 □ FSL KRUZ 200 □ FSL		T(3xD) 157 101 80 P(5xD) 197 141 120 H(7xD) 237 181 160 L(10xD) 297 241 220		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							

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	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 P(5xD) 201 145 123 H(7xD) 242 186 164 L(10xD) 304 248 226	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	 Torque 1.5Nm (Max)	M3x6	1.5mm			
Φ21.0 ~Φ21.4	YTDI 210 □ FSL KRUZ 210 □ FSL		T(3xD) 162 106 84 P(5xD) 204 148 126 H(7xD) 246 190 168 L(10xD) 309 253 231		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							
Φ21.5 ~Φ21.9	YTDI 215 □ FSL KRUZ 215 □ FSL		T(3xD) 165 109 86 P(5xD) 208 152 129 H(7xD) 251 195 172 L(10xD) 316 260 237		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							
Φ22.0 ~Φ22.4	YTDI 220 □ FSL KRUZ 220 □ FSL		T(3xD) 167 111 88 P(5xD) 211 155 132 H(7xD) 255 199 176 L(10xD) 321 265 242		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							
Φ22.5 ~Φ22.9	YTDI 225 □ FSL KRUZ 225 □ FSL		T(3xD) 169 113 90 P(5xD) 214 158 135 H(7xD) 259 203 180 L(10xD) 327 271 248		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 227, ID 228, ID 229							
Φ23.0 ~Φ23.4	YTDI 230 □ FSL KRUZ 230 □ FSL		T(3xD) 172 116 92 P(5xD) 218 162 138 H(7xD) 264 208 184 L(10xD) 333 277 253		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							
Φ23.5 ~Φ23.9	YTDI 235 □ FSL KRUZ 235 □ FSL		T(3xD) 174 118 94 P(5xD) 221 165 141 H(7xD) 268 212 188 L(10xD) 339 283 259		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							
Φ24.0 ~Φ24.4	YTDI 240 □ FSL KRUZ 240 □ FSL		T(3xD) 181 121 96 P(5xD) 229 169 144 H(7xD) 277 217 192 L(10xD) 349 289 264		IDP 240, IDP 241, IDP 242, IDP 243, IDP 244 IDF 240, IDF 241, IDF 242, IDF 243, IDF 244 ID 240, ID 241, ID 242, ID 243, ID 244							
Φ24.5 ~Φ24.9	YTDI 245 □ FSL KRUZ 245 □ FSL		T(3xD) 183 123 98 P(5xD) 232 172 147 H(7xD) 281 221 196 L(10xD) 355 295 270		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							
Φ25.0 ~Φ25.4	YTDI 250 □ FSL KRUZ 250 □ FSL		T(3xD) 185 125 100 P(5xD) 235 175 150 H(7xD) 285 225 200 L(10xD) 360 300 275		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 253, ID 254							
Φ25.5 ~Φ25.9	YTDI 255 □ FSL KRUZ 255 □ FSL		T(3xD) 188 128 102 P(5xD) 239 179 153 H(7xD) 290 230 204 L(10xD) 367 307 281		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							
Φ26.0 ~Φ26.4	YTDI 260 □ FSL KRUZ 260 □ FSL		32.0		T(3xD) 190 130 104 P(5xD) 242 182 156 H(7xD) 294 234 208 L(10xD) 372 312 286					39	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
Φ26.5 ~Φ26.9	YTDI 265 □ FSL KRUZ 265 □ FSL	T(3xD) 193 133 106 P(5xD) 246 186 159 H(7xD) 299 239 212 L(10xD) 379 319 292		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								
Φ27.0 ~Φ27.4	YTDI 270 □ FSL KRUZ 270 □ FSL	T(3xD) 195 135 108 P(5xD) 249 189 162 H(7xD) 303 243 216 L(10xD) 384 324 297		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								
Φ27.5 ~Φ27.9	YTDI 275 □ FSL KRUZ 275 □ FSL	T(3xD) 197 137 110 P(5xD) 252 192 165 H(7xD) 307 247 220 L(10xD) 390 330 303		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								
Φ28.0 ~Φ28.4	YTDI 280 □ FSL KRUZ 280 □ FSL	T(3xD) 200 140 112 P(5xD) 256 196 168 H(7xD) 312 252 224 L(10xD) 396 336 308		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								

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	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 P(5xD) 259 199 171 H(7xD) 316 256 228 L(10xD) 402 342 314	202	142	114		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)		
φ29.0 ~φ29.4	YTDI 290 □ FSL KRUZ 290 □ FSL	32.0	T(3xD) 205 145 116 P(5xD) 263 203 174 H(7xD) 321 261 232 L(10xD) 408 348 319	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	CS 280 ~295 SL	T15 Torque 3.5Nm (Max)		
φ29.5 ~φ29.9	YTDI 295 □ FSL KRUZ 295 □ FSL	32.0	T(3xD) 207 147 118 P(5xD) 266 206 177 H(7xD) 325 265 236 L(10xD) 414 354 325	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	CS 280 ~295 SL	T15 Torque 3.5Nm (Max)	M4x8	2.0mm
φ30.0 ~φ30.4	YTDI 300 □ FSL KRUZ 300 □ FSL	32.0	T(3xD) 209 149 120 P(5xD) 269 209 180 H(7xD) 329 269 240 L(10xD) 419 359 330	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			
φ30.5 ~φ30.9	YTDI 305 □ FSL KRUZ 305 □ FSL	32.0	T(3xD) 212 152 122 P(5xD) 273 213 183 H(7xD) 334 274 244 L(10xD) 426 366 336	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	CS 300 ~315 SL			
φ31.0 ~φ31.4	YTDI 310 □ FSL KRUZ 310 □ FSL	32.0	T(3xD) 214 154 124 P(5xD) 276 216 186 H(7xD) 338 278 248 L(10xD) 431 371 341	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	CS 300 ~315 SL			
φ31.5 ~φ31.9	YTDI 315 □ FSL KRUZ 315 □ FSL	32.0	T(3xD) 217 157 126 P(5xD) 280 220 189 H(7xD) 343 283 252 L(10xD) 438 378 347	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	CS 300 ~315 SL			
φ32.0 ~φ32.4	YTDI 320 □ FSL KRUZ 320 □ FSL	32.0	T(3xD) 219 159 128 P(5xD) 283 223 192 H(7xD) 347 287 256 L(10xD) 443 383 352	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 300 ~315 SL			
φ32.5 ~φ32.9	YTDI 325 □ FSL KRUZ 325 □ FSL	32.0	T(3xD) 221 161 130 P(5xD) 286 226 195 H(7xD) 351 291 260 L(10xD) 449 389 358	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	CS 300 ~315 SL			
φ33.0 ~φ33.4	YTDI 330 □ FSL KRUZ 330 □ FSL	32.0	T(3xD) 224 164 132 P(5xD) 290 230 198 H(7xD) 356 296 264 L(10xD) 455 395 363	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	CS 300 ~315 SL			
φ33.5 ~φ33.9	YTDI 335 □ FSL KRUZ 335 □ FSL	32.0	T(3xD) 226 166 134 P(5xD) 293 233 201 H(7xD) 360 300 268 L(10xD) 461 401 369	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	CS 300 ~315 SL			
φ34.0 ~φ34.4	YTDI 340 □ FSL KRUZ 340 □ FSL	40.0	T(3xD) 239 169 136 P(5xD) 307 237 204 H(7xD) 375 305 272 L(10xD) 477 407 374	239	169	136		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	CS 320 ~355 SL	T20 Torque 4.0Nm (Max)	M5x10	2.5mm
φ34.5 ~φ34.9	YTDI 345 □ FSL KRUZ 345 □ FSL	40.0	T(3xD) 241 171 138 P(5xD) 310 240 207 H(7xD) 379 309 276 L(10xD) 483 413 380	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	CS 320 ~355 SL	T20 Torque 4.0Nm (Max)		
φ35.0 ~φ35.4	YTDI 350 □ FSL KRUZ 350 □ FSL	40.0	T(3xD) 243 173 140 P(5xD) 313 243 210 H(7xD) 383 313 280 L(10xD) 488 418 385	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	CS 320 ~355 SL	T20 Torque 4.0Nm (Max)		
φ35.5 ~φ35.9	YTDI 355 □ FSL KRUZ 355 □ FSL	40.0	T(3xD) 246 176 142 P(5xD) 317 247 213 H(7xD) 388 318 284 L(10xD) 495 425 391	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	CS 320 ~355 SL	T20 Torque 4.0Nm (Max)		
φ36.0 ~φ36.4	YTDI 360 □ FSL KRUZ 360 □ FSL	40.0	T(3xD) 248 178 144 P(5xD) 320 250 216 H(7xD) 392 322 288 L(10xD) 500 430 396	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			

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	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 P(5xD) 324 254 219 H(7xD) 397 327 292 L(10xD) 507 437 402	251	181	146		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			
φ37.0 ~φ37.4	YTDI 370 □ FSL KRUZ 370 □ FSL	40.0	T(3xD) 253 183 148 P(5xD) 327 257 222 H(7xD) 401 331 296 L(10xD) 512 442 407	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	CS 360 ~395 SL			
φ37.5 ~φ37.9	YTDI 375 □ FSL KRUZ 375 □ FSL	40.0	T(3xD) 255 185 150 P(5xD) 330 260 225 H(7xD) 405 335 300 L(10xD) 518 448 413	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	CS 360 ~395 SL			
φ38.0 ~φ38.4	YTDI 380 □ FSL KRUZ 380 □ FSL	40.0	T(3xD) 258 188 152 P(5xD) 334 264 228 H(7xD) 410 340 304 L(10xD) 524 454 418	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	CS 360 ~395 SL			
φ38.5 ~φ38.9	YTDI 385 □ FSL KRUZ 385 □ FSL	40.0	T(3xD) 260 196 154 P(5xD) 337 267 231 H(7xD) 414 344 308 L(10xD) 530 460 424	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	CS 360 ~395 SL			
φ39.0 ~φ39.4	YTDI 390 □ FSL KRUZ 390 □ FSL	40.0	T(3xD) 263 193 156 P(5xD) 341 271 234 H(7xD) 419 349 312 L(10xD) 536 466 429	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	CS 360 ~395 SL			
φ39.5 ~φ39.9	YTDI 395 □ FSL KRUZ 395 □ FSL	40.0	T(3xD) 265 195 158 P(5xD) 344 274 237 H(7xD) 423 353 316 L(10xD) 542 472 435	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	CS 360 ~395 SL			
φ40.0 ~φ40.4	YTDI 400 □ FSL KRUZ 400 □ FSL	40.0	T(3xD) 267 197 160 P(5xD) 347 277 240 H(7xD) 427 357 320 L(10xD) 547 477 440	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)		
φ40.5 ~φ40.9	YTDI 405 □ FSL KRUZ 405 □ FSL	40.0	T(3xD) 270 200 162 P(5xD) 351 281 243 H(7xD) 432 362 324 L(10xD) 554 484 446	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	CS 400 ~445 SL	T20 Torque 4.0Nm (Max)		
φ41.0 ~φ41.4	YTDI 410 □ FSL KRUZ 410 □ FSL	40.0	T(3xD) 272 202 164 P(5xD) 354 284 246 H(7xD) 436 366 328 L(10xD) 559 489 451	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	CS 400 ~445 SL	T20 Torque 4.0Nm (Max)		
φ41.5 ~φ41.9	YTDI 415 □ FSL KRUZ 415 □ FSL	40.0	T(3xD) 275 205 166 P(5xD) 358 288 249 H(7xD) 441 371 332 L(10xD) 566 496 457	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	CS 400 ~445 SL	T20 Torque 4.0Nm (Max)		
φ42.0 ~φ42.4	YTDI 420 □ FSL KRUZ 420 □ FSL	40.0	T(3xD) 277 207 168 P(5xD) 361 291 252 H(7xD) 445 375 336 L(10xD) 571 501 462	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	CS 400 ~445 SL	T20 Torque 4.0Nm (Max)		
φ42.5 ~φ42.9	YTDI 425 □ FSL KRUZ 425 □ FSL	40.0	T(3xD) 279 209 170 P(5xD) 364 294 255 H(7xD) 449 379 340 L(10xD) 577 507 468	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	CS 400 ~445 SL	T20 Torque 4.0Nm (Max)		
φ43.0 ~φ43.4	YTDI 430 □ FSL KRUZ 430 □ FSL	40.0	T(3xD) 282 212 172 P(5xD) 368 298 258 H(7xD) 454 384 344 L(10xD) 583 513 473	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	CS 400 ~445 SL	T20 Torque 4.0Nm (Max)		
φ43.5 ~φ43.9	YTDI 435 □ FSL KRUZ 435 □ FSL	40.0	T(3xD) 284 214 174 P(5xD) 371 301 261 H(7xD) 458 388 348 L(10xD) 589 519 479	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	CS 400 ~445 SL	T20 Torque 4.0Nm (Max)		
φ44.0 ~φ44.4	YTDI 440 □ FSL KRUZ 440 □ FSL	40.0	T(3xD) 287 217 176 P(5xD) 375 305 264 H(7xD) 463 393 352 L(10xD) 595 525 484	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	CS 400 ~445 SL	T20 Torque 4.0Nm (Max)		

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. (ΦD)	Insert Code No. to fit in body	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 P(5xD) 378 308 267 H(7xD) 467 397 356 L(10xD) 601 531 490	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			
Φ45.0 ~Φ45.4	YTDI 450 □ FSL KRUZ 450 □ FSL	40.0	T(3xD) 291 221 180 P(5xD) 381 311 270 H(7xD) 471 401 360 L(10xD) 606 536 495	291	221	180	55	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				
Φ45.5 ~Φ45.9	YTDI 455 □ FSL KRUZ 455 □ FSL	40.0	T(3xD) 294 224 182 P(5xD) 385 315 273 H(7xD) 476 406 364 L(10xD) 613 543 501	294	224	182	55	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				
Φ46.0 ~Φ46.4	YTDI 460 □ FSL KRUZ 460 □ FSL	40.0	T(3xD) 296 226 184 P(5xD) 388 318 276 H(7xD) 480 410 368 L(10xD) 618 548 506	296	226	184	55	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				
Φ46.5 ~Φ46.9	YTDI 465 □ FSL KRUZ 465 □ FSL	40.0	T(3xD) 299 229 186 P(5xD) 392 322 279 H(7xD) 485 415 372 L(10xD) 625 555 512	299	229	186	55	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				
Φ47.0 ~Φ47.4	YTDI 470 □ FSL KRUZ 470 □ FSL	40.0	T(3xD) 301 231 188 P(5xD) 395 325 282 H(7xD) 489 419 376 L(10xD) 630 560 517	301	231	188	55	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				
Φ47.5 ~Φ47.9	YTDI 475 □ FSL KRUZ 475 □ FSL	40.0	T(3xD) 303 233 190 P(5xD) 398 328 285 H(7xD) 493 423 380 L(10xD) 636 566 523	303	233	190	55	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	CS 450 ~500 SL			
Φ48.0 ~Φ48.4	YTDI 480 □ FSL KRUZ 480 □ FSL	40.0	T(3xD) 306 236 192 P(5xD) 402 332 288 H(7xD) 498 428 384 L(10xD) 642 572 528	306	236	192	55	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				
Φ48.5 ~Φ48.9	YTDI 485 □ FSL KRUZ 485 □ FSL	40.0	T(3xD) 308 238 194 P(5xD) 405 335 291 H(7xD) 502 432 388 L(10xD) 648 578 534	308	238	194	55	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				
Φ49.0 ~Φ49.4	YTDI 490 □ FSL KRUZ 490 □ FSL	40.0	T(3xD) 311 241 196 P(5xD) 409 339 294 H(7xD) 507 437 392 L(10xD) 654 584 539	311	241	196	55	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				
Φ49.5 ~Φ49.9	YTDI 495 □ FSL KRUZ 495 □ FSL	40.0	T(3xD) 313 243 198 P(5xD) 412 342 297 H(7xD) 511 441 396 L(10xD) 660 590 545	313	243	198	55	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				
Φ50.0 ~Φ50.4	YTDI 500 □ FSL KRUZ 500 □ FSL	40.0	T(3xD) 315 245 200 P(5xD) 415 345 300 H(7xD) 515 445 400 L(10xD) 665 595 550	315	245	200	55	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				

KRUZ-FSL Drills, Cutting Speed Recommendation

Drill Dia.	Φ8~16mm		Φ16~25mm		Φ25~32mm		Φ32~40mm		Φ40~50mm	
	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	90~160	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

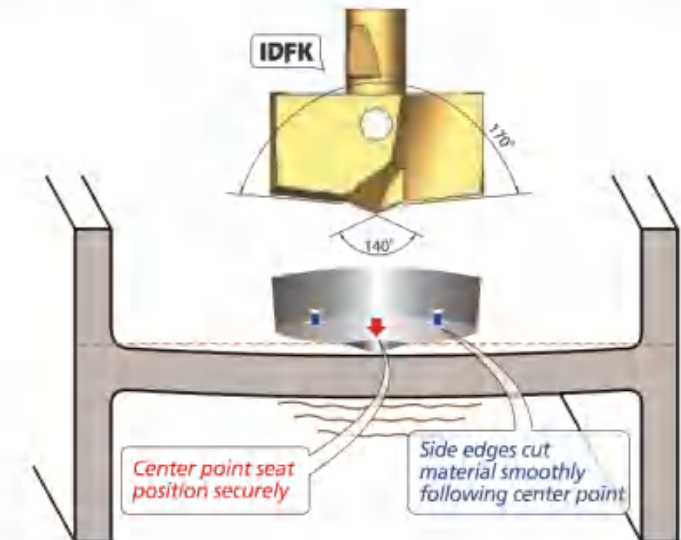
IDFK Carbide insert

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

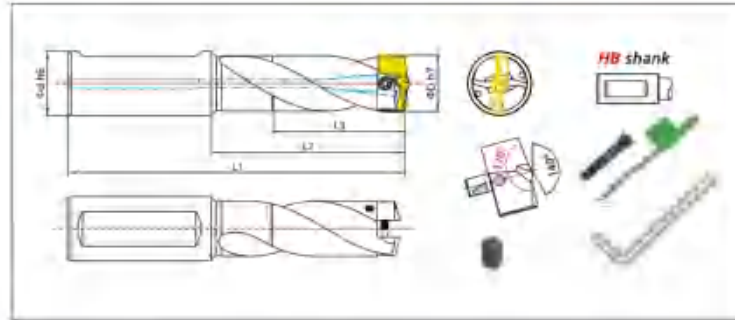


KRUZ-SLK Drill body

- 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



KRUZ-SLK stubby series body & IDFK insert, Metric

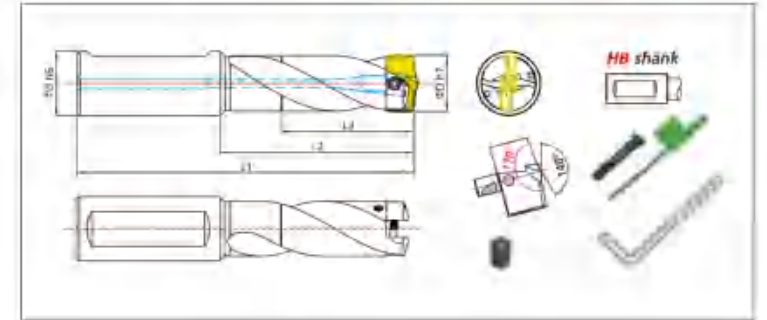


Exclusively designed for Structural machining

Hole (Φ) mm	Body Code	Shank (Φd)	Dimension			Carbide drill Insert (TiAlN coated) (ΦD h7, 14.0mm insert → IDFK 140)	Cap Screw	Torx driver	Set Screw	L-wrench
			L1	L2	L3					
14.0-14.4	KRUZ 140 L3=50 SLK	16	110	62		IDFK-140, IDFK-141, IDFK-142, IDFK-143, IDFK-144	CS 140	T7	Torque 0.9Nm (Max)	M2.5x4
14.5-14.9	KRUZ 145 L3=50 SLK					IDFK-145, IDFK-146, IDFK-147, IDFK-148, IDFK-149	-155 SL			
15.0-15.4	KRUZ 150 L3=50 SLK					IDFK-150, IDFK-151, IDFK-152, IDFK-153, IDFK-154		T8	Torque 1.5Nm (Max)	M3x6
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		T15	Torque 3.5Nm (Max)	M4x8
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					IDFK-170, IDFK-171, IDFK-172, IDFK-173, IDFK-174		T20	Torque 4.0Nm (Max)	M5x10
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		T20	Torque 4.0Nm (Max)	M6x12
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		T20	Torque 4.0Nm (Max)	M6x12
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					IDFK-200, IDFK-201, IDFK-202, IDFK-203, IDFK-204		T20	Torque 4.0Nm (Max)	M6x12
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		T20	Torque 4.0Nm (Max)	M6x12
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		T20	Torque 4.0Nm (Max)	M6x12
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		T20	Torque 4.0Nm (Max)	M6x12
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					IDFK-240, IDFK-241, IDFK-242, IDFK-243, IDFK-244		T20	Torque 4.0Nm (Max)	M6x12
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		T20	Torque 4.0Nm (Max)	M6x12
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					IDFK-260, IDFK-261, IDFK-262, IDFK-263, IDFK-264		T20	Torque 4.0Nm (Max)	M6x12
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		T20	Torque 4.0Nm (Max)	M6x12
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		T20	Torque 4.0Nm (Max)	M6x12
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		T20	Torque 4.0Nm (Max)	M6x12
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					IDFK-300, IDFK-301, IDFK-302, IDFK-303, IDFK-304		T20	Torque 4.0Nm (Max)	M6x12
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		T20	Torque 4.0Nm (Max)	M6x12
32.0-32.4	KRUZ 320 L3=70 SLK					IDFK-320, IDFK-321, IDFK-322, IDFK-323, IDFK-324				
33.0-33.4	KRUZ 330 L3=70 SLK					IDFK-330, IDFK-331, IDFK-332, IDFK-333, IDFK-334		T20	Torque 4.0Nm (Max)	M6x12
34.0-34.4	KRUZ 340 L3=80 SLK					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		T20	Torque 4.0Nm (Max)	M6x12
36.0-36.4	KRUZ 360 L3=80 SLK					IDFK-360, IDFK-361, IDFK-362, IDFK-363, IDFK-364				
37.0-37.4	KRUZ 370 L3=80 SLK					IDFK-370, IDFK-371, IDFK-372, IDFK-373, IDFK-374		T20	Torque 4.0Nm (Max)	M6x12
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		T20	Torque 4.0Nm (Max)	M6x12
40.0-40.4	KRUZ 400 L3=80 SLK					IDFK-400, IDFK-401, IDFK-402, IDFK-403, IDFK-404				
41.0-41.4	KRUZ 410 L3=80 SLK					IDFK-410, IDFK-411, IDFK-412, IDFK-413, IDFK-414		T20	Torque 4.0Nm (Max)	M6x12
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		T20	Torque 4.0Nm (Max)	M6x12
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		T20	Torque 4.0Nm (Max)	M6x12
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		T20	Torque 4.0Nm (Max)	M6x12
48.0-48.4	KRUZ 480 L3=80 SLK					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		T20	Torque 4.0Nm (Max)	M6x12
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

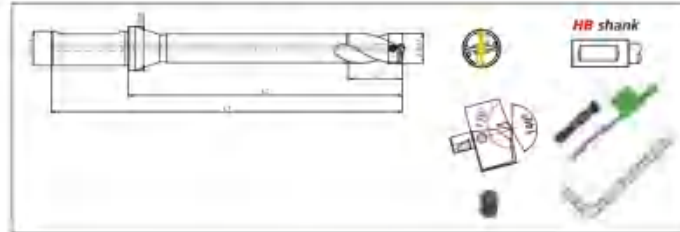
Hole (Φ) decimal	Body Code	Shank (Φd)	Dimension			Carbide drill Insert (TiAlN coated) (ΦD h7)	Alternative Metric body
			L1	L2	L3		
.5512-.5705	KRUZ .5512-SLK	5/8 (15.875mm)	4.3307 (70mm)	2.4409 (62mm)		IDFK-9/16" (14.29mm)	KRUZ 140 L3=50 SLK
.5709-.5902	KRUZ .5709-SLK					IDFK-37/64" (14.68mm)	KRUZ 145 L3=50 SLK
.5906-.6098	KRUZ .5906-SLK					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	3/4 (19.05mm)				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					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	1" (25.4mm)	5.1181 (130mm)	2.9134 (74mm)	1.9685 (50mm)	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					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					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	1 1/4 (31.75mm)				IDFK-1 5/32" (29.37mm)	KRUZ 290 L3=50 SLK
1.1811-1.2004	KRUZ 1.1811-SLK					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					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



- 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			Flanged dia.(ΦFd)	Carbide drill insert(TiAlN coated) (ΦD h7, 14.0mm insert→ IDFK 140)	IDFK	Cap Screw	Torx driver	Set Screw	L-wrench
			L1	L2	L3							
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					
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		32	IDFK-215, IDFK-216, IDFK-217, IDFK-218, IDFK-219					
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					
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					
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

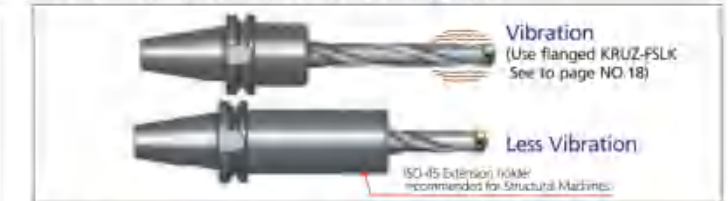
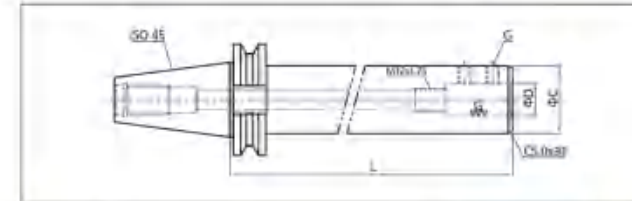
ISO45



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



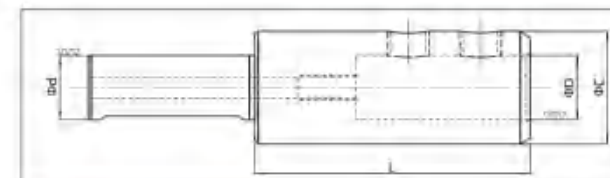
CODE No.	D	L	C	G	CODE No.	D	L	C	G	CODE No.	D	L	C	G
ISO45(HSK)-SLA16-80		80			ISO45(HSK)-SLA20-400	20	400			ISO45(HSK)-SLA32-270		270		
ISO45(HSK)-SLA16-160		160			ISO45(HSK)-SLA20-450		450			ISO45(HSK)-SLA32-300		300		
ISO45(HSK)-SLA16-210		210			ISO45(HSK)-SLA20-500		500			ISO45(HSK)-SLA32-350		350		
ISO45(HSK)-SLA16-240		240			ISO45(HSK)-SLA25-80		80			ISO45(HSK)-SLA32-400		400		
ISO45(HSK)-SLA16-270		270			ISO45(HSK)-SLA25-160		160			ISO45(HSK)-SLA32-450		450		
ISO45(HSK)-SLA16-300		300			ISO45(HSK)-SLA25-210		210			ISO45(HSK)-SLA32-500		500		
ISO45(HSK)-SLA16-350		350			ISO45(HSK)-SLA25-240		240			ISO45(HSK)-SLA40-90		90		
ISO45(HSK)-SLA16-400		400			ISO45(HSK)-SLA25-270		270			ISO45(HSK)-SLA40-160		160		
ISO45(HSK)-SLA16-450		450			ISO45(HSK)-SLA25-300		300			ISO45(HSK)-SLA40-210		210		
ISO45(HSK)-SLA16-500		500			ISO45(HSK)-SLA25-350		350			ISO45(HSK)-SLA40-240		240		
ISO45(HSK)-SLA20-80		80			ISO45(HSK)-SLA25-400		400			ISO45(HSK)-SLA40-270		270		
ISO45(HSK)-SLA20-160		160			ISO45(HSK)-SLA25-450		450			ISO45(HSK)-SLA40-300		300		
ISO45(HSK)-SLA20-210		210			ISO45(HSK)-SLA25-500		500			ISO45(HSK)-SLA40-350		350		
ISO45(HSK)-SLA20-240		240			ISO45(HSK)-SLA32-80		80			ISO45(HSK)-SLA40-400		400		
ISO45(HSK)-SLA20-270		270			ISO45(HSK)-SLA32-160		160			ISO45(HSK)-SLA40-450		450		
ISO45(HSK)-SLA20-300		300			ISO45(HSK)-SLA32-210		210			ISO45(HSK)-SLA40-500		500		
ISO45(HSK)-SLA20-350		350			ISO45(HSK)-SLA32-240		240							

* 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)

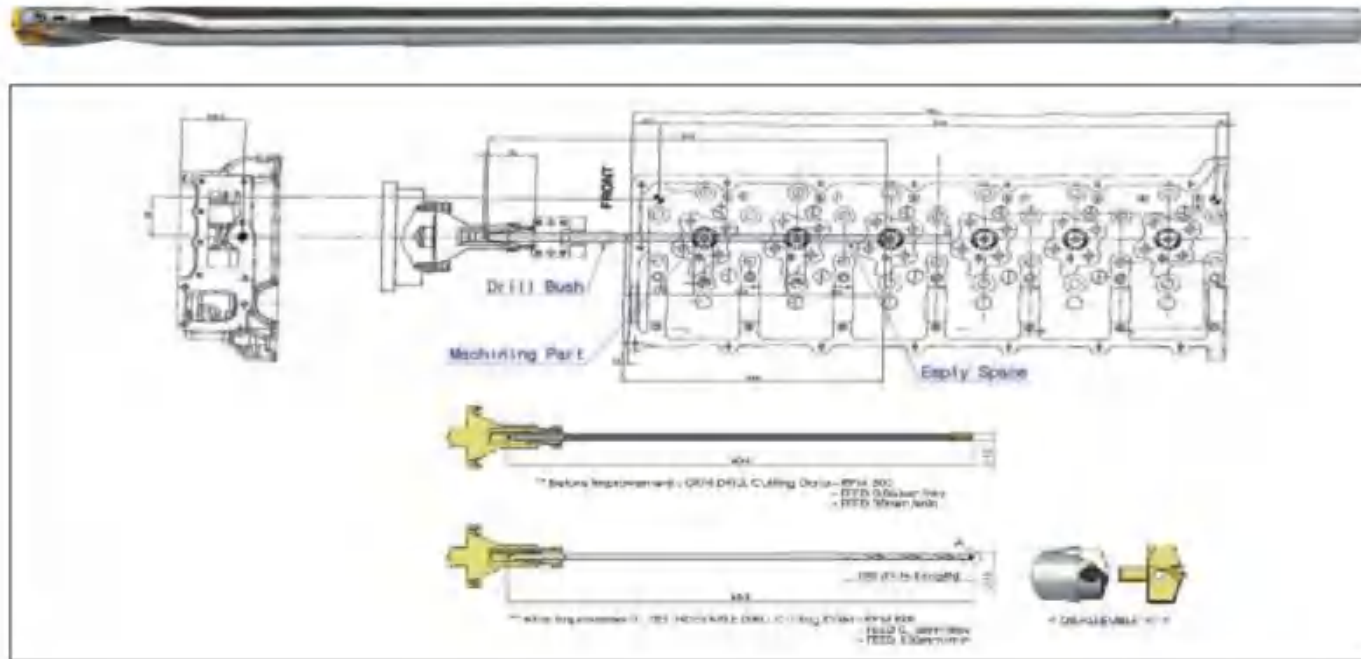


CODE No.	d(mm)	D(mm)	L(mm)	C(mm)	G
EXT16-SLA16-65			65		
EXT16-SLA16-80			80		
EXT16-SLA16-125	16	16	125		M10
EXT16-SLA16-150			150		
EXT16-SLA16-200			200		
EXT16-SLA16-250			250		
EXT20-SLA20-65			65		
EXT20-SLA20-80			80		
EXT20-SLA20-125	20	20	125		M12
EXT20-SLA20-150			150		
EXT20-SLA20-200			200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



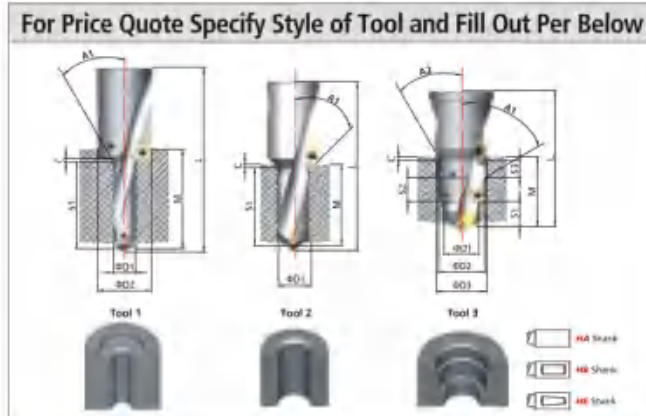
KRUZ special step drill body

Combination drill bodies (Perform multiple operations with one tool)



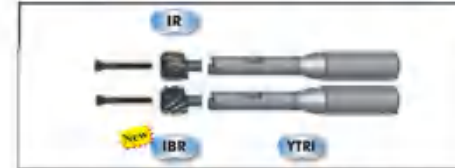
Special
KRUZ

- ▶ 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.

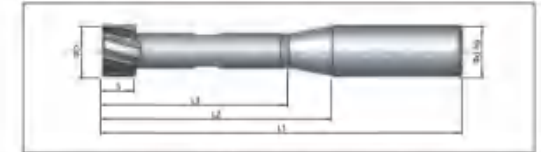


Note
More helpful information to design if provided
Kind of Material to be machined :
Shank style(HA, HB, HE or special) :
Type of chamfer or facing insert(if any) :
Coolant through or no coolant :
Work-piece drawing if avail. :

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



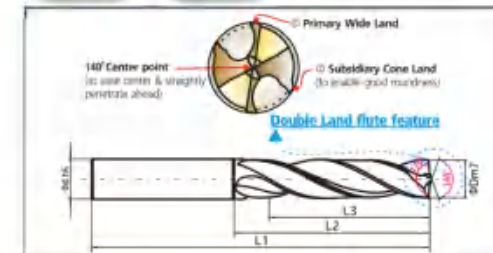
Please make required cutting depth in the □ like T, P. (Note : Bottom edge geometry for blind hole is available as special)

Body code No.	Shank d	S	T(3 x Dia.)			P(5 x Dia.)			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 □	25	14.7	141	91	74	185	135	118	IR 200-224, IBR 200-224	M3x30	8
YTRI 225-249 □		16.5	159	103	81	209	153	131	IR 225-249, IBR 225-249	M4x39	
YTRI 250-274 □	32	18.2	166	110	90	221	165	145	IR 250-274, IBR 250-274	M5x43	10
YTRI 275-299 □		20.0	185	125	98	245	185	158	IR 275-299, IBR 275-299	M5x49	
YTRI 300-324 □	40	22.0	192	132	105	257	197	170	IR 300-324, IBR 300-324	M6x53	12
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 : YSDF 100 TiAIN
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

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

Application example.



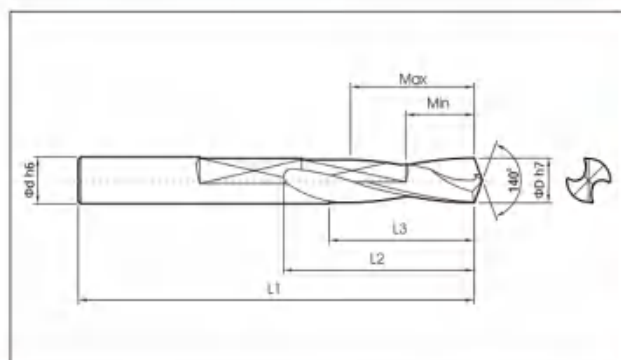
Solid Carbide "F" Point Long Drill

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			45	39
YSDLF 042-051	4.2-5.1	5	83	50	38
YSDLF 052-061	5.2-6.1	6		53	41
YSDLF 062-071	6.2-7.1	7	85	58	43
YSDLF 072-081	7.2-8.1	8	90	64	46
YSDLF 082-091	8.2-9.1	9	98	68	51
YSDLF 092-101	9.2-10.1	10	105	73	53
YSDLF 102-111	10.2-11.1	11	110	80	57
YSDLF 112-121	11.2-12.1	12	120	90	62
YSDLF 122-131	12.2-13.1	13	137	96	71
YSDLF 132-141	13.2-14.1	14	147	100	75
YSDLF 142-151	14.2-15.1	15	153	112	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	160	112	85
YSDLF 182-191	18.2-19.1	19			84
YSDLF 192-200	19.2-20.0	20	160	112	82

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 eliminate 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		Applicable Holder
						Min	Max	
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		Applicable Holder
						Min	Max	
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							

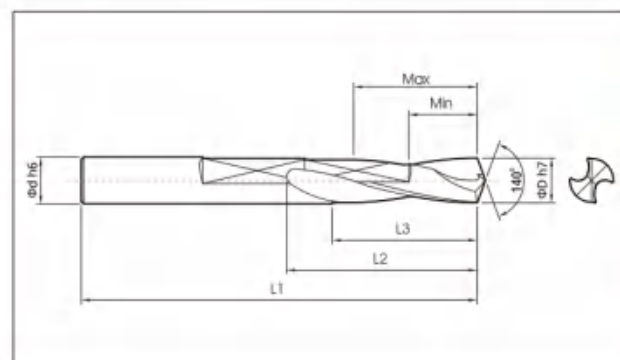
Code No.	D	d	L1	L2	L3	Hole depth		Applicable Holder
						Min	Max	
YCD 091	9.1	10.0	89	49	39	16	34	YCH 100
YCD 092	9.2							
YCD 093	9.3							
YCD 094	9.4							
YCD 095	9.5							
YCD 096	9.6							
YCD 097	9.7							
YCD 098	9.8							
YCD 099	9.9							
YCD 100	10.0							
YCD 101	10.1	11.0	95	47	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		Applicable Holder
						Min	Max	
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 eliminate 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

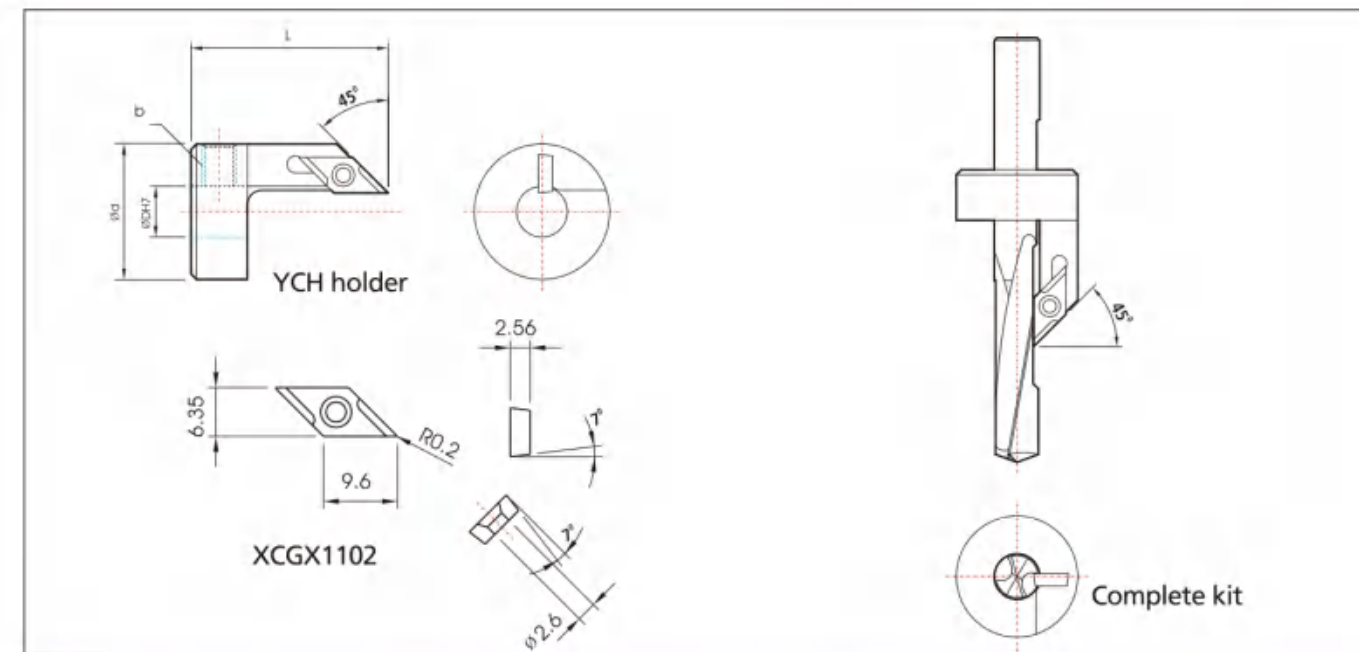
Code No.	D	d	L1	L2	L3	Hole depth		Applicable Holder
						Min	Max	
YCD .2010	#7	1/4	2.59	1.18	0.94	0.35	0.78	YCH.2500
YCD .2130	#3							
YCD .2570	F							
YCD .2720	I							
YCD .3125	5/16	5/16	3.11	1.61	1.29	0.47	1.1	YCH.3125
YCD .3320	Q							
YCD .3680	U	3/8	3.5	1.92	1.53	0.62	1.33	YCH.3750
YCD .3906	25/64							
YCD .4219	25/64							
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							
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	M10 x 1.5P	YCD 131~140
YCH 150	15.0	30	39		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

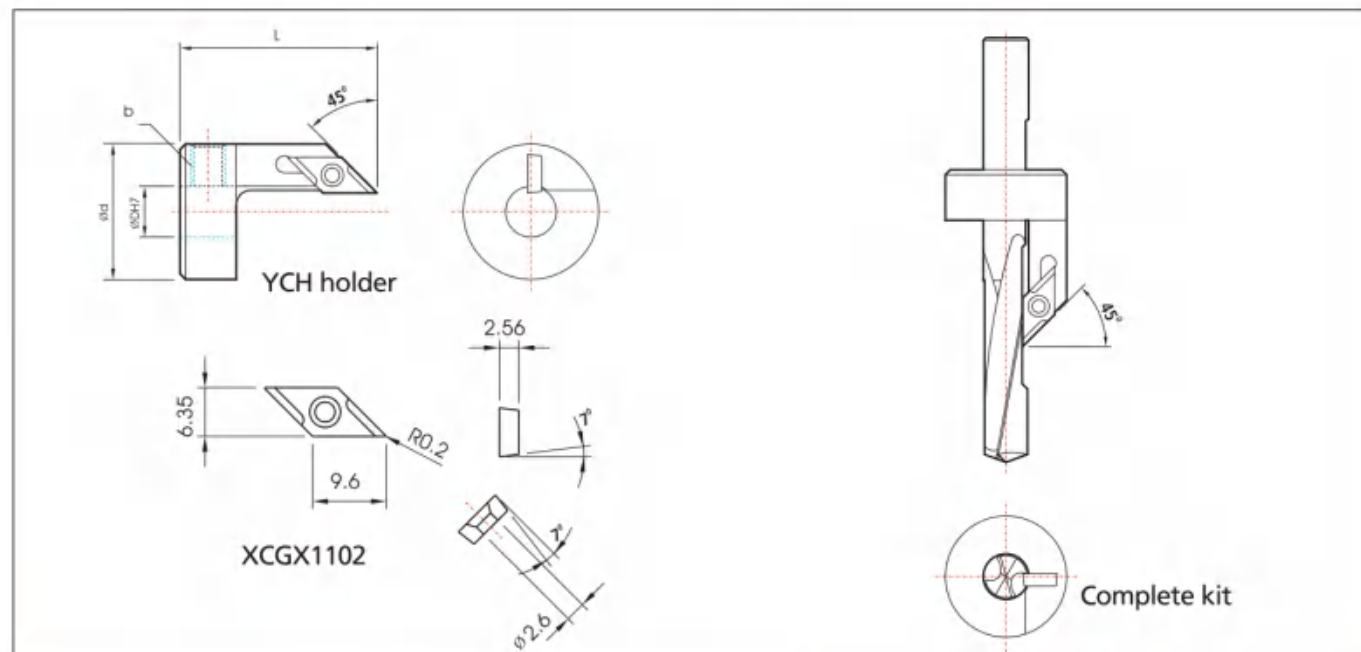
❖ See page 22 & 24 of applicable YCD drill together with this model.

Chamfer Holder, Inch



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		