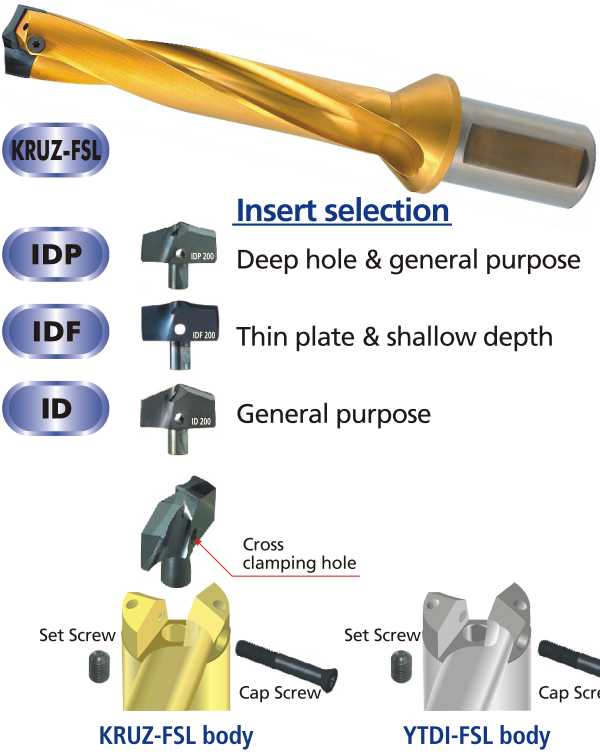


KRUZ-FSL YTDI-FSL Flange body & Carbide insert



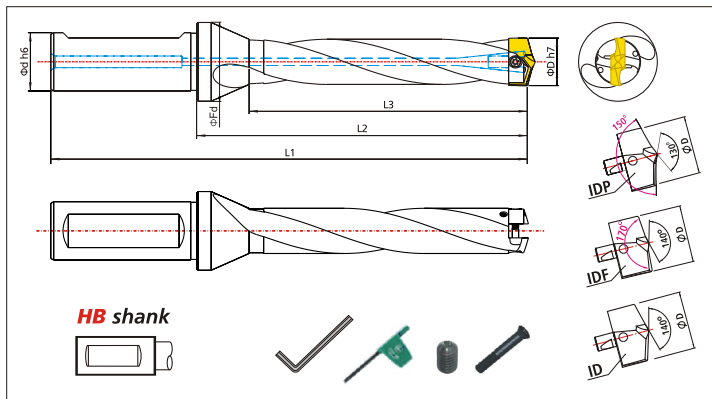
Insert selection

Deep hole & general purpose

Thin plate & shallow depth

General purpose

- 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 D)	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) P(5xD) H(7xD)	87 103 119	42 58 74	32 48 64		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		T(3xD) P(5xD) H(7xD)	89 106 123	44 61 78	34 51 68		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		T(3xD) P(5xD) H(7xD)	92 110 128	47 65 83	36 54 72		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		T(3xD) P(5xD) H(7xD)	97 116 135	49 68 87	38 57 76		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		T(3xD) P(5xD) H(7xD)	99 119 139	51 71 91	40 60 80		IDP 100, IDP 101, IDP 102, IDP 103, IDP 104 IDF 100, IDF 101, IDP 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) P(5xD) H(7xD)	102 123 144	54 75 96	42 63 84		IDP 105, IDP 106, IDP 107, IDP 108, IDP 109 IDF 105, IDF 106, IDP 107, IDF 108, IDF 109 ID 105, ID 106, ID 107, ID 108, ID 109	CS 100 ~115 SL			
φ11.0 ~φ11.4	YTDI 110 □ FSL KRUZ 110 □ FSL		T(3xD) P(5xD) H(7xD) L(10xD)	104 126 148 181	56 78 100 131	44 66 88 121		IDP 110, IDP 111, IDP 112, IDP 113, IDP 114 IDF 110, IDP 111, IDP 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		T(3xD) P(5xD) H(7xD) L(10xD)	107 130 153 188	59 82 105 140	46 69 92 127		IDP 115, IDP 116, IDP 117, IDP 118, IDP 119 IDF 115, IDP 116, IDP 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) P(5xD) H(7xD) L(10xD)	109 133 157 193	61 85 109 145	48 72 96 132		IDP 120, IDP 121, IDP 122, IDP 123, IDP 124 IDF 120, IDP 121, IDP 122, IDF 123, IDF 124 ID 120, ID 121, ID 122, ID 123, ID 124	CS 120 ~135 SL		M2.5x4	1.3mm

Continued ►►

Hole size range	Body Code No.	Shank Size(φd)	Cutting depth (Length x D)	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) P(5xD) H(7xD) L(10xD)	111 136 161 199	63 88 113 151	50 75 100 138		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)	
φ13.0 ~φ13.4	YTDI 130 □ FSL KRUZ 130 □ FSL		T(3xD) P(5xD) H(7xD) L(10xD)	114 140 166 205	66 92 118 157	52 78 104 143		IDP 130, IDP 131, IDP 132, IDP 133, IDP 134 IDF 130, IDP 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) P(5xD) H(7xD) L(10xD)	116 143 170 211	68 95 122 163	54 81 108 149		IDP 135, IDP 136, IDP 137, IDP 138, IDP 139 IDF 135, IDP 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) P(5xD) H(7xD) L(10xD)	119 147 175 217	71 99 127 169	56 84 112 154		IDP 140, IDP 141, IDP 142, IDP 143, IDP 144 IDF 140, IDP 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		T(3xD) P(5xD) H(7xD) L(10xD)	123 152 181 225	73 102 131 175	58 87 116 160		IDP 145, IDP 146, IDP 147, IDP 148, IDP 149 IDF 145, IDP 146, IDF 147, IDF 148, IDF 149 ID 145, ID 146, ID 147, ID 148, ID 149	CS 140 ~155 SL			
φ15.0 ~φ15.4	YTDI 150 □ FSL KRUZ 150 □ FSL		T(3xD) P(5xD) H(7xD) L(10xD)	127 157 187 232	77 107 137 182	60 90 120 165		IDP 150, IDP 151, IDP 152, IDP 153, IDP 154 IDF 150, IDP 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) P(5xD) H(7xD) L(10xD)	130 161 192 239	80 111 142 189	62 93 124 171		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) P(5xD) H(7xD) L(10xD)	132 164 196 244	82 114 146 194	64 96 128 176		IDP 160, IDP 161, IDP 162, IDP 163, IDP 164 IDF 160, IDP 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		T(3xD) P(5xD) H(7xD) L(10xD)	135 168 201 251	85 118 151 201	66 99 132 182		IDP 165, IDP 166, IDP 167, IDP 168, IDP 169 IDF 165, IDP 166, IDF 167, IDF 168, IDF 169 ID 165, ID 166, ID 167, ID 168, ID 169	CS 160 ~175 SL			
φ17.0 ~φ17.4	YTDI 170 □ FSL KRUZ 170 □ FSL	20.0	T(3xD) P(5xD) H(7xD) L(10xD)	137 171 205 256	87 121 155 206	68 102 136 187		IDP 170, IDP 171, IDP 172, IDP 173, IDP 174 IDF 170, IDP 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) P(5xD) H(7xD) L(10xD)	139 174 209 262	89 124 159 212	70 105 140 193		IDP 175, IDP 176, IDP 177, IDP 178, IDP 179 IDF 175, IDP 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) P(5xD) H(7xD) L(10xD)	142 178 214 268	92 128 164 218	72 108 144 198		IDP 180, IDP 181, IDP 182, IDP 183, IDP 184 IDF 180, IDP 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		T(3xD) P(5xD) H(7xD) L(10xD)	144 181 218 274	94 131 168 224	74 111 148 204		IDP 185, IDP 186, IDP 187, IDP 188, IDP 189 IDF 185, IDP 186, IDF 187, IDF 188, IDF 189 ID 185, ID 186, ID 187, ID 188, ID 189	CS 180 ~195 SL			
φ19.0 ~φ19.4	YTDI 190 □ FSL KRUZ 190 □ FSL		T(3xD) P(5xD) H(7xD) L(10xD)	147 185 223 280	97 135 173 230	76 114 152 209		IDP 190, IDP 191, IDP 192, IDP 193, IDP 194 IDF 190, IDP 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) P(5xD) H(7xD) L(10xD)	149 188 227 286	99 138 177 235	78 117 156 215		IDP 195, IDP 196, IDP 197, IDP 198, IDP 199 IDF 195, IDP 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	25.0	T(3xD) P(5xD) H(7xD) L(10xD)	157 197 237 297	101 141 181 241	80 120 160 220		IDP 200, IDP 201, IDP 202, IDP 203, IDP 204 IDF 200, IDP 201, IDF 202, IDF 203, IDF 204 ID 200, ID 201, ID 202, ID 203, ID 204	CS 200 ~215 SL		M3x6	1.5mm

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KRUZ-FSL YTDI-FSL Flange body & Carbide insert

Hole size range	Body Code No.	Shank Size(φd)	Cutting depth (Length x D)	L1	L2	L3	Flanged dia (φFd)	Insert Code No. to fit in body				
φ20.5 ~φ20.9	YTDI 205 □ FSL KRUZ 205 □ FSL	25.0	T(3xD) P(5xD) H(7xD) L(10xD)	160 201 242 304	104 145 186 226	82 123 164 226	32	IDP 205, IDP 206, IDP 207, IDP 208, IDP 209 IDF 205, IDP 206, IDP 207, IDF 208, IDF 209 ID 205, ID 206, ID 207, ID 208, ID 209				
φ21.0 ~φ21.4	YTDI 210 □ FSL KRUZ 210 □ FSL		T(3xD) P(5xD) H(7xD) L(10xD)	162 204 246 309	106 148 190 253	84 126 168 231		IDP 210, IDP 211, IDP 212, IDP 213, IDP 214 IDF 210, IDP 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) P(5xD) H(7xD) L(10xD)	165 208 251 316	109 152 195 260	87 129 172 237		IDP 215, IDP 216, IDP 217, IDP 218, IDP 219 IDF 215, IDP 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) P(5xD) H(7xD) L(10xD)	167 211 255 321	111 155 199 265	88 132 176 242		IDP 220, IDP 221, IDP 222, IDP 223, IDP 224 IDF 220, IDP 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) P(5xD) H(7xD) L(10xD)	169 214 259 327	113 158 203 271	90 135 180 248		IDP 225, IDP 226, IDP 227, IDP 228, IDP 229 IDF 225, IDP 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) P(5xD) H(7xD) L(10xD)	172 218 264 333	116 162 208 277	92 138 184 253		IDP 230, IDP 231, IDP 232, IDP 233, IDP 234 IDF 230, IDP 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) P(5xD) H(7xD) L(10xD)	174 221 268 339	118 165 212 283	94 141 188 259		IDP 235, IDP 236, IDP 237, IDP 238, IDP 239 IDF 235, IDP 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) P(5xD) H(7xD) L(10xD)	181 229 277 349	121 169 217 289	96 144 192 264		IDP 240, IDP 241, IDP 242, IDP 243, IDP244 IDF 240, IDP 241, IDF 242, IDF 243, IDF244 ID 240, ID 241, ID 242, ID 243, ID 244				
φ24.5 ~φ24.9	YTDI 245 □ FSL KRUZ 245 □ FSL		T(3xD) P(5xD) H(7xD) L(10xD)	183 232 281 355	123 172 221 295	98 147 196 270		IDP 245, IDP 246, IDP 247, IDP 248, IDP 249 IDF 245, IDP 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) P(5xD) H(7xD) L(10xD)	185 235 285 360	125 175 225 300	100 150 200 275		IDP 250, IDP 251, IDP 252, IDP 253, IDP 254 IDF 250, IDP 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) P(5xD) H(7xD) L(10xD)	188 239 290 367	128 179 230 307	102 153 204 281	IDP 255, IDP 256, IDP 257, IDP 258, IDP 259 IDF 255, IDP 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) P(5xD) H(7xD) L(10xD)	190 242 294 372	130 182 234 312	104 156 208 286	39	IDP 260, IDP 261, IDP 262, IDP 263, IDP 264 IDF 260, IDP 261, IDF 262, IDF 263, IDF 264 ID 260, ID 261, ID 262, ID 263, ID 264				
φ26.5 ~φ26.9	YTDI 265 □ FSL KRUZ 265 □ FSL		T(3xD) P(5xD) H(7xD) L(10xD)	193 246 299 379	133 186 239 319	106 159 212 292		IDP 265, IDP 266, IDP 267, IDP 268, IDP 269 IDF 265, IDP 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) P(5xD) H(7xD) L(10xD)	195 249 303 384	135 189 243 324	108 162 216 297		IDP 270, IDP 271, IDP 272, IDP 273, IDP 274 IDF 270, IDP 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) P(5xD) H(7xD) L(10xD)	197 252 307 390	137 192 247 330	110 165 220 303		IDP 275, IDP 276, IDP 277, IDP 278, IDP 279 IDF 275, IDP 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) P(5xD) H(7xD) L(10xD)	200 256 312 396	140 196 252 336	112 168 224 308		IDP 280, IDP 281, IDP 282, IDP 283, IDP 284 IDF 280, IDP 281, IDF 282, IDF 283, IDF 284 ID 280, ID 281, ID 282, ID 283, ID 284				