

NEW Performance

“X” Series

- ▶ Smooth centering & penetration by conical helix design
- ▶ Patented conical helix point geometry to reduce cutting load
- ▶ Effectively use for tough material like stainless, titanium
- ▶ 20~30% machine load reduction than ordinary drill insert

★ Born to be never experienced performance! ★



Yes[®] YESTOOL Co., Ltd.

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“X” Series

(Excellent)

Hole making No.1



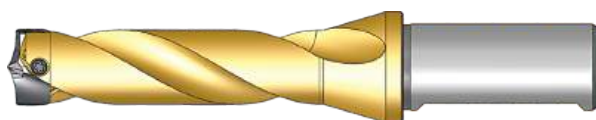
Multi-tasking in single drill

- ▶ Smooth centering
- ▶ Higher straightness
- ▶ Super penetrations
- ▶ Super chip's ejection
- ▶ Minimizing built-up edge by helical cutting edge design

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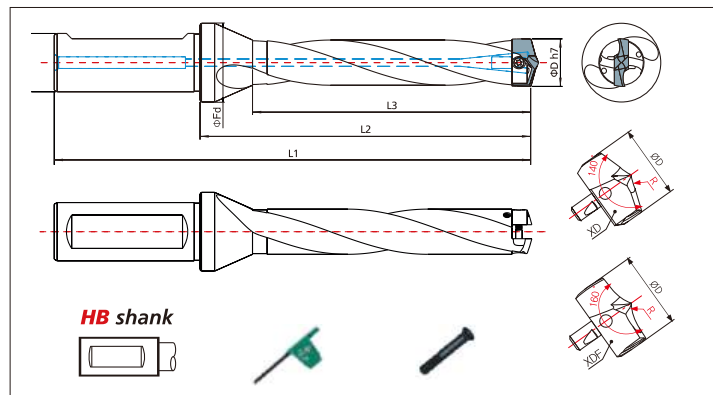
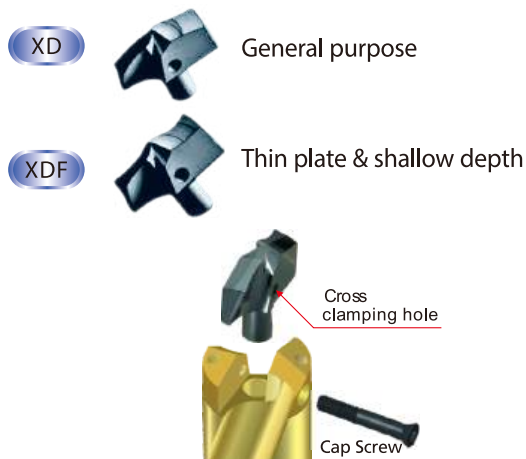


X-series +higher helix & carbide insert



- ▶ Higher helix flute to reduce machine load and faster chip ejection
- ▶ Rugged flange type to decrease vibration or chattering
- ▶ Interchangeable <XD>, <XDF>, <XDH>, <XDFH>
- ▶ Drill body consists of premium tool steel with heat treatment
- ▶ Increased tool life by less vibration
- ▶ Internal coolant fed design
- ▶ "X" series and insert available upon request only
- ▶ Single lock clamping

Insert selection



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

Hole size range	Code No.	Shank Φ d / (L)	Cutting depth (Length x Φ D)	L1	L2	L3	Flanged dia. (Φ Fd)	Insert Code No. to fit in body	XD	XDF	Cap Screw	Torx driver
Φ 10.0 ~ Φ 10.4	X-100 □	12.0 (48)	T(3xD) P(5xD) H(7xD) L(10xD)	99 119 139 169	51 71 91 121	40 60 80 110	18	For General Purpose XD 100, XD 101, XD 102, XD 103, XD 104 XDF 100, XDF 101, XDF 102, XDF 103, XDF 104			CS100 -115 SL	T6 Torque 0.6Nm (Max)
Φ 10.5 ~ Φ 10.9	X-105 □		T(3xD) P(5xD) H(7xD) L(10xD)	102 123 144 176	54 75 96 128	42 63 84 116		For General Purpose XD 105, XD 106, XD 107, XD 108, XD 109 XDF 105, XDF 106, XDF 107, XDF 108, XDF 109				
Φ 11.0 ~ Φ 11.4	X-110 □		T(3xD) P(5xD) H(7xD) L(10xD)	104 126 148 181	56 78 100 133	44 66 88 121		For General Purpose XD 110, XD 111, XD 112, XD 113, XD 114 XDF 110, XDF 111, XDF 112, XDF 113, XDF 114				
Φ 11.5 ~ Φ 11.9	X-115 □		T(3xD) P(5xD) H(7xD) L(10xD)	107 130 153 188	59 82 105 140	46 69 92 127		For General Purpose XD 115, XD 116, XD 117, XD 118, XD 119 XDF 115, XDF 116, XDF 117, XDF 118, XDF 119				
Φ 12.0 ~ Φ 12.4	X-120 □		T(3xD) P(5xD) H(7xD) L(10xD)	109 133 157 193	61 85 109 145	48 72 96 132		For General Purpose XD 120, XD 121, XD 122, XD 123, XD 124 XDF 120, XDF 121, XDF 122, XDF 123, XDF 124				
Φ 12.5 ~ Φ 12.9	X-125 □		T(3xD) P(5xD) H(7xD) L(10xD)	111 136 161 199	63 88 113 151	50 75 100 138		For General Purpose XD 125, XD 126, XD 127, XD 128, XD 129 XDF 125, XDF 126, XDF 127, XDF 128, XDF 129				
Φ 13.0 ~ Φ 13.4	X-130 □		T(3xD) P(5xD) H(7xD) L(10xD)	114 140 166 205	66 92 118 157	52 78 104 143		For General Purpose XD 130, XD 131, XD 132, XD 133, XD 134 XDF 130, XDF 131, XDF 132, XDF 133, XDF 134				
Φ 13.5 ~ Φ 13.9	X-135 □		T(3xD) P(5xD) H(7xD) L(10xD)	116 143 170 211	68 95 122 163	54 81 108 149		For General Purpose XD 135, XD 136, XD 137, XD 138, XD 139 XDF 135, XDF 136, XDF 137, XDF 138, XDF 139				
Φ 14.0 ~ Φ 14.4	X-140 □	16.0 (48)	T(3xD) P(5xD) H(7xD) L(10xD)	119 147 175 217	71 99 127 169	56 84 112 154	21	For General Purpose XD 140, XD 141, XD 142, XD 143, XD 144 XDF 140, XDF 141, XDF 142, XDF 143, XDF 144			CS140 -155 SL	T7 Torque 0.9Nm (Max)
Φ 14.5 ~ Φ 14.9	X-145 □		T(3xD) P(5xD) H(7xD) L(10xD)	123 152 181 225	73 102 131 175	58 87 116 160		For General Purpose XD 145, XD 146, XD 147, XD 148, XD 149 XDF 145, XDF 146, XDF 147, XDF 148, XDF 149				
Φ 15.0 ~ Φ 15.4	X-150 □		T(3xD) P(5xD) H(7xD) L(10xD)	127 157 187 232	77 107 137 182	60 90 120 165		For General Purpose XD 150, XD 151, XD 152, XD 153, XD 154 XDF 150, XDF 151, XDF 152, XDF 153, XDF 154				
Φ 15.5 ~ Φ 15.9	X-155 □		T(3xD) P(5xD) H(7xD) L(10xD)	130 161 192 239	80 111 142 189	62 93 124 171		For General Purpose XD 155, XD 156, XD 157, XD 158, XD 159 XDF 155, XDF 156, XDF 157, XDF 158, XDF 159				
Φ 16.0 ~ Φ 16.4	X-160 □		T(3xD) P(5xD) H(7xD) L(10xD)	132 164 196 244	82 114 146 194	64 96 128 176		For General Purpose XD 160, XD 161, XD 162, XD 163, XD 164 XDF 160, XDF 161, XDF 162, XDF 163, XDF 164				
Φ 16.5 ~ Φ 16.9	X-165 □		T(3xD) P(5xD) H(7xD) L(10xD)	135 168 201 251	85 118 151 201	66 99 132 182		For General Purpose XD 165, XD 166, XD 167, XD 168, XD 169 XDF 165, XDF 166, XDF 167, XDF 168, XDF 169				
Φ 17.0 ~ Φ 17.4	X-170 □		T(3xD) P(5xD) H(7xD) L(10xD)	137 171 205 256	87 121 155 206	68 102 136 187		For General Purpose XD 170, XD 171, XD 172, XD 173, XD 174 XDF 170, XDF 171, XDF 172, XDF 173, XDF 174				
Φ 17.5 ~ Φ 17.9	X-175 □		T(3xD) P(5xD) H(7xD) L(10xD)	139 174 209 262	89 124 159 212	70 105 140 193		For General Purpose XD 175, XD 176, XD 177, XD 178, XD 179 XDF 175, XDF 176, XDF 177, XDF 178, XDF 179				
Φ 18.0 ~ Φ 18.4	X-180 □		T(3xD) P(5xD) H(7xD) L(10xD)	142 178 214 268	92 128 164 218	72 108 144 198		For General Purpose XD 180, XD 181, XD 182, XD 183, XD 184 XDF 180, XDF 181, XDF 182, XDF 183, XDF 184				
Φ 18.5 ~ Φ 18.9	X-185 □		T(3xD) P(5xD) H(7xD) L(10xD)	144 181 218 274	94 131 168 224	74 111 148 204		For General Purpose XD 185, XD 186, XD 187, XD 188, XD 189 XDF 185, XDF 186, XDF 187, XDF 188, XDF 189				
Φ 19.0 ~ Φ 19.4	X-190 □		T(3xD) P(5xD) H(7xD) L(10xD)	147 185 223 280	97 135 173 230	76 114 152 209		For General Purpose XD 190, XD 191, XD 192, XD 193, XD 194 XDF 190, XDF 191, XDF 192, XDF 193, XDF 194				
Φ 19.5 ~ Φ 19.9	X-195 □		T(3xD) P(5xD) H(7xD) L(10xD)	149 188 227 286	99 138 177 236	78 117 156 215		For General Purpose XD 195, XD 196, XD 197, XD 198, XD 199 XDF 195, XDF 196, XDF 197, XDF 198, XDF 199				
Φ 20.0 ~ Φ 20.4	X-200 □	25.0 (56)	T(3xD) P(5xD) H(7xD) L(10xD)	157 197 237 297	101 141 181 241	80 120 160 220	32	For General Purpose XD 200, XD 201, XD 202, XD 203, XD 204 XDF 200, XDF 201, XDF 202, XDF 203, XDF 204			CS 200 -215 SL	T8 Torque 1.5Nm (Max)
Φ 20.5 ~ Φ 20.9	X-205 □		T(3xD) P(5xD) H(7xD) L(10xD)	160 201 242 304	104 145 186 248	82 123 164 226		For General Purpose XD 205, XD 206, XD 207, XD 208, XD 209 XDF 205, XDF 206, XDF 207, XDF 208, XDF 209				
Φ 21.0 ~ Φ 21.4	X-210 □		T(3xD) P(5xD) H(7xD) L(10xD)	162 204 246 309	106 148 190 253	84 126 168 231		For General Purpose XD 210, XD 211, XD 212, XD 213, XD 214 XDF 210, XDF 211, XDF 212, XDF 213, XDF 214				
Φ 21.5 ~ Φ 21.9	X-215 □		T(3xD) P(5xD) H(7xD) L(10xD)	165 208 251 316	109 152 195 260	86 129 172 237		For General Purpose XD 215, XD 216, XD 217, XD 218, XD 219 XDF 215, XDF 216, XDF 217, XDF 218, XDF 219				

Hole size range	Code No.	Shank Φ d / (L)	Cutting depth (Length x Φ D)	L1	L2	L3	Flanged dia. (Φ Fd)	Insert Code No. to fit in body	XD	XDF	Cap Screw	Torx driver
Φ 14.0 ~ Φ 14.4	X-140 □	16.0 (48)	T(3xD) P(5xD) H(7xD) L(10xD)	119 147 175 217	71 99 127 169	56 84 112 154	21	For General Purpose XD 140, XD 141, XD 142, XD 143, XD 144 XDF 140, XDF 141, XDF 142, XDF 143, XDF 144			CS140 -155 SL	T7 Torque 0.9Nm (Max)
Φ 14.5 ~ Φ 14.9	X-145 □		T(3xD) P(5xD) H(7xD) L(10xD)	123 152 181 225	73 102 131 175	58 87 116 160		For General Purpose XD 145, XD 146, XD 147, XD 148, XD 149 XDF 145, XDF 146, XDF 147, XDF 148, XDF 149				
Φ 15.0 ~ Φ 15.4	X-150 □		T(3xD) P(5xD) H(7xD) L(10xD)	127 157 187 232	77 107 137 182	60 90 120 165		For General Purpose XD 150, XD 151, XD 152, XD 153, XD 154 XDF 150, XDF 151, XDF 152, XDF 153, XDF 154				
Φ 15.5 ~ Φ 15.9	X-155 □		T(3xD) P(5xD) H(7xD) L(10xD)	130 161 192 239	80 111 142 189	62 93 124 171		For General Purpose XD 155, XD 156, XD 157, XD 158, XD 159 XDF 155, XDF 156, XDF 157, XDF 158, XDF 159				
Φ 16.0 ~ Φ 16.4	X-160 □		T(3xD) P(5xD) H(7xD) L(10xD)	132 164 196 244	82 114 146 194	64 96 128 176		For General Purpose XD 160, XD 161, XD 162, XD 163, XD 164 XDF 160, XDF 161, XDF 162, XDF 163, XDF 164				
Φ 16.5 ~ Φ 16.9	X-165 □		T(3xD) P(5xD) H(7xD) L(10xD)	135 168 201 251	85 118 151 201	66 99 132 182		For General Purpose XD 165, XD 166, XD 167, XD 168, XD 169 XDF 165, XDF 166, XDF 167, XDF 168, XDF 169				
Φ 17.0 ~ Φ 17.4	X-170 □		T(3xD) P(5xD) H(7xD) L(10xD)	137 171 205 256	87 121 155 206	68 102 136 187		For General Purpose XD 170, XD 171, XD 172, XD 173, XD 174 XDF 170, XDF 171, XDF 172, XDF 173, XDF 174				
Φ 17.5 ~ Φ 17.9	X-175 □		T(3xD) P(5xD) H(7xD) L(10xD)	139 174 209 262	89 124 159 212	70 105 140 193		For General Purpose XD 175, XD 176, XD 177, XD 178, XD 179 XDF 175, XDF 176, XDF 177, XDF 178, XDF 179				
Φ 18.0 ~ Φ 18.4	X-180 □		T(3xD) P(5xD) H(7xD) L(10xD)	142 178 214 268	92 128 164 218	72 108 144 198		For General Purpose XD 180, XD 181, XD 182, XD 183, XD 184 XDF 180, XDF 181, XDF 182, XDF 183, XDF 184				
Φ 18.5 ~ Φ 18.9	X-185 □		T(3xD) P(5xD) H(7xD) L(10xD)	144 181 218 274	94 131 168 224	74 111 148 204		For General Purpose XD 185, XD 186, XD 187, XD 188, XD 189 XDF 185, XDF 186, XDF 187, XDF 188, XDF 189				
Φ 19.0 ~ Φ 19.4	X-190 □		T(3xD) P(5xD) H(7xD) L(10xD)	147 185 223 280	97 135 173 230	76 114 152 209		For General Purpose XD 190, XD 191, XD 192, XD 193, XD 194 XDF 190, XDF 191, XDF 192, XDF 193, XDF 194				
Φ 19.5 ~ Φ 19.9	X-195 □		T(3xD) P(5xD) H(7xD) L(10xD)	149 188 227 286	99 138 177 236	78 117 156 215		For General Purpose XD 195, XD 196, XD 197, XD 198, XD 199 XDF 195, XDF 196, XDF 197, XDF 198, XDF 199				
Φ 20.0 ~ Φ 20.4	X-200 □	25.0 (56)	T(3xD) P(5xD) H(7xD) L(10xD)	157 197 237 297	101 141 181 241	80 120 160 220	32	For General Purpose XD 200, XD 201, XD 202, XD 203, XD 204 XDF 200, XDF 201, XDF 202, XDF 203, XDF 204			CS 200 -215 SL	T8 Torque 1.5Nm (Max)
Φ 20.5 ~ Φ 20.9	X-205 □		T(3xD) P(5xD) H(7xD) L(10xD)	160 201 242 304	104 145 186 248	82 123 164 226		For General Purpose XD 205, XD 206, XD 207, XD 208, XD 209 XDF 205, XDF 206, XDF 207, XDF 208, XDF 209				
Φ 21.0 ~ Φ 21.4	X-210 □		T(3xD) P(5xD) H(7xD) L(10xD)	162 204 246 309	106 148 190 253	84 126 168 231		For General Purpose XD 210, XD 211, XD 212, XD 213, XD 214 XDF 210, XDF 211, XDF 212, XDF 213, XDF 214				
Φ 21.5 ~ Φ 21.9	X-215 □		T(3xD) P(5xD) H(7xD) L(10xD)	165 208 251 316	109 152 195 260	86 129 172 237		For General Purpose XD 215, XD 216, XD 217, XD 218, XD 219 XDF 215, XDF 216, XDF 217, XDF 218, XDF 219				



Hole size range	Code No.	Shank Φ d / (L)	Cutting depth (Length x ØD)	L1	L2	L3	Flanged dia. (ØFd)	Insert Code No. to fit in body  		 Cap Screw	 Torx driver		
Ø30.0 ~Ø30.4	X-300 □	32.0 (60)	T(3xD)	209	149	120	39	For General Purpose	XD 300, XD 301, XD 302, XD 303, XD 304 XDF 300, XDF 301, XDF 302, XDF 303, XDF 304	CS 300 -315 SL			
			For Hard Materials	XDH 300, XDH 301, XDH 302, XDH 303, XDH 304 XDFH 300, XDFH 301, XDFH 302, XDFH 303, XDFH 304									
			For General Purpose	XD 305, XD 306, XD 307, XD 308, XD 309 XDF 305, XDF 306, XDF 307, XDF 308, XDF 309									
			For Hard Materials	XDH 305, XDH 306, XDH 307, XDH 308, XDH 309 XDFH 305, XDFH 306, XDFH 307, XDFH 308, XDFH 309									
Ø30.5 ~Ø30.9	X-305 □		T(3xD)	212	152	122		For General Purpose	XD 310, XD 311, XD 312, XD 313, XD 314 XDF 310, XDF 311, XDF 312, XDF 313, XDF 314				
			For Hard Materials	XDH 310, XDH 311, XDH 312, XDH 313, XDH 314 XDFH 310, XDFH 311, XDFH 312, XDFH 313, XDFH 314									
			For General Purpose	XD 315, XD 316, XD 317, XD 318, XD 319 XDF 315, XDF 316, XDF 317, XDF 318, XDF 319									
			For Hard Materials	XDH 315, XDH 316, XDH 317, XDH 318, XDH 319 XDFH 315, XDFH 316, XDFH 317, XDFH 318, XDFH 319									
Ø31.0 ~Ø31.4	X-310 □		T(3xD)	214	154	124		For General Purpose	XD 320, XD 321, XD 322, XD 323, XD 324 XDF 320, XDF 321, XDF 322, XDF 323, XDF 324				
			For Hard Materials	XDH 320, XDH 321, XDH 322, XDH 323, XDH 324 XDFH 320, XDFH 321, XDFH 322, XDFH 323, XDFH 324									
			For General Purpose	XD 325, XD 326, XD 327, XD 328, XD 329 XDF 325, XDF 326, XDF 327, XDF 328, XDF 329									
			For Hard Materials	XDH 325, XDH 326, XDH 327, XDH 328, XDH 329 XDFH 325, XDFH 326, XDFH 327, XDFH 328, XDFH 329									
Ø31.5 ~Ø31.9	X-315 □		T(3xD)	217	157	126		For General Purpose	XD 330, XD 331, XD 332, XD 333, XD 334 XDF 330, XDF 331, XDF 332, XDF 333, XDF 334				
			For Hard Materials	XDH 330, XDH 331, XDH 332, XDH 333, XDH 334 XDFH 330, XDFH 331, XDFH 332, XDFH 333, XDFH 334									
			For General Purpose	XD 335, XD 336, XD 337, XD 338, XD 339 XDF 335, XDF 336, XDF 337, XDF 338, XDF 339									
			For Hard Materials	XDH 335, XDH 336, XDH 337, XDH 338, XDH 339 XDFH 335, XDFH 336, XDFH 337, XDFH 338, XDFH 339									
Ø32.0 ~Ø32.4	X-320 □		T(3xD)	219	159	128		For General Purpose	XD 340, XD 341, XD 342, XD 343, XD 344 XDF 340, XDF 341, XDF 342, XDF 343, XDF 344				
			For Hard Materials	XDH 340, XDH 341, XDH 342, XDH 343, XDH 344 XDFH 340, XDFH 341, XDFH 342, XDFH 343, XDFH 344									
			For General Purpose	XD 345, XD 346, XD 347, XD 348, XD 349 XDF 345, XDF 346, XDF 347, XDF 348, XDF 349									
			For Hard Materials	XDH 345, XDH 346, XDH 347, XDH 348, XDH 349 XDFH 345, XDFH 346, XDFH 347, XDFH 348, XDFH 349									
Ø32.5 ~Ø32.9	X-325 □		T(3xD)	221	161	130		For General Purpose	XD 350, XD 351, XD 352, XD 353, XD 354 XDF 350, XDF 351, XDF 352, XDF 353, XDF 354				
			For Hard Materials	XDH 350, XDH 351, XDH 352, XDH 353, XDH 354 XDFH 350, XDFH 351, XDFH 352, XDFH 353, XDFH 354									
			For General Purpose	XD 355, XD 356, XD 357, XD 358, XD 359 XDF 355, XDF 356, XDF 357, XDF 358, XDF 359									
			For Hard Materials	XDH 355, XDH 356, XDH 357, XDH 358, XDH 359 XDFH 355, XDFH 356, XDFH 357, XDFH 358, XDFH 359									
Ø33.0 ~Ø33.4	X-330 □		T(3xD)	224	164	132		For General Purpose	XD 360, XD 361, XD 362, XD 363, XD 364 XDF 360, XDF 361, XDF 362, XDF 363, XDF 364				
			For Hard Materials	XDH 360, XDH 361, XDH 362, XDH 363, XDH 364 XDFH 360, XDFH 361, XDFH 362, XDFH 363, XDFH 364									
			For General Purpose	XD 365, XD 366, XD 367, XD 368, XD 369 XDF 365, XDF 366, XDF 367, XDF 368, XDF 369									
			For Hard Materials	XDH 365, XDH 366, XDH 367, XDH 368, XDH 369 XDFH 365, XDFH 366, XDFH 367, XDFH 368, XDFH 369									
Ø33.5 ~Ø33.9	X-335 □		T(3xD)	226	166	134		For General Purpose	XD 370, XD 371, XD 372, XD 373, XD 374 XDF 370, XDF 371, XDF 372, XDF 373, XDF 374				
			For Hard Materials	XDH 370, XDH 371, XDH 372, XDH 373, XDH 374 XDFH 370, XDFH 371, XDFH 372, XDFH 373, XDFH 374									
			For General Purpose	XD 375, XD 376, XD 377, XD 378, XD 379 XDF 375, XDF 376, XDF 377, XDF 378, XDF 379									
			For Hard Materials	XDH 375, XDH 376, XDH 377, XDH 378, XDH 379 XDFH 375, XDFH 376, XDFH 377, XDFH 378, XDFH 379									
Ø34.0 ~Ø34.4	X-340 □		40.0 (70)	T(3xD)	239	169		136	55			For General Purpose	XD 380, XD 381, XD 382, XD 383, XD 384 XDF 380, XDF 381, XDF 382, XDF 383, XDF 384
				For Hard Materials	XDH 380, XDH 381, XDH 382, XDH 383, XDH 384 XDFH 380, XDFH 381, XDFH 382, XDFH 383, XDFH 384								
				For General Purpose	XD 385, XD 386, XD 387, XD 388, XD 389 XDF 385, XDF 386, XDF 387, XDF 388, XDF 389								
				For Hard Materials	XDH 385, XDH 386, XDH 387, XDH 388, XDH 389 XDFH 385, XDFH 386, XDFH 387, XDFH 388, XDFH 389								
Ø34.5 ~Ø34.9	X-345 □			T(3xD)	241	171		138				For General Purpose	XD 390, XD 391, XD 392, XD 393, XD 394 XDF 390, XDF 391, XDF 392, XDF 393, XDF 394
				For Hard Materials	XDH 390, XDH 391, XDH 392, XDH 393, XDH 394 XDFH 390, XDFH 391, XDFH 392, XDFH 393, XDFH 394								
				For General Purpose	XD 395, XD 396, XD 397, XD 398, XD 399 XDF 395, XDF 396, XDF 397, XDF 398, XDF 399								
				For Hard Materials	XDH 395, XDH 396, XDH 397, XDH 398, XDH 399 XDFH 395, XDFH 396, XDFH 397, XDFH 398, XDFH 399								
Ø35.0 ~Ø35.4	X-350 □	T(3xD)		243	173	140	For General Purpose	XD 400, XD 401, XD 402, XD 403, XD 404 XDF 400, XDF 401, XDF 402, XDF 403, XDF 404					
		For Hard Materials		XDH 400, XDH 401, XDH 402, XDH 403, XDH 404 XDFH 400, XDFH 401, XDFH 402, XDFH 403, XDFH 404									
		For General Purpose		XD 405, XD 406, XD 407, XD 408, XD 409 XDF 405, XDF 406, XDF 407, XDF 408, XDF 409									
		For Hard Materials		XDH 405, XDH 406, XDH 407, XDH 408, XDH 409 XDFH 405, XDFH 406, XDFH 407, XDFH 408, XDFH 409									
Ø35.5 ~Ø35.9	X-355 □	T(3xD)		246	176	142	For General Purpose	XD 410, XD 411, XD 412, XD 413, XD 414 XDF 410, XDF 411, XDF 412, XDF 413, XDF 414					
		For Hard Materials		XDH 410, XDH 411, XDH 412, XDH 413, XDH 414 XDFH 410, XDFH 411, XDFH 412, XDFH 413, XDFH 414									
		For General Purpose		XD 415, XD 416, XD 417, XD 418, XD 419 XDF 415, XDF 416, XDF 417, XDF 418, XDF 419									
		For Hard Materials		XDH 415, XDH 416, XDH 417, XDH 418, XDH 419 XDFH 415, XDFH 416, XDFH 417, XDFH 418, XDFH 419									
Ø36.0 ~Ø36.4	X-360 □	T(3xD)		248	178	144	For General Purpose	XD 420, XD 421, XD 422, XD 423, XD 424 XDF 420, XDF 421, XDF 422, XDF 423, XDF 424					
		For Hard Materials		XDH 420, XDH 421, XDH 422, XDH 423, XDH 424 XDFH 420, XDFH 421, XDFH 422, XDFH 423, XDFH 424									
		For General Purpose		XD 425, XD 426, XD 427, XD 428, XD 429 XDF 425, XDF 426, XDF 427, XDF 428, XDF 429									
		For Hard Materials		XDH 425, XDH 426, XDH 427, XDH 428, XDH 429 XDFH 425, XDFH 426, XDFH 427, XDFH 428, XDFH 429									
Ø36.5 ~Ø36.9	X-365 □	T(3xD)		251	181	146	For General Purpose	XD 430, XD 431, XD 432, XD 433, XD 434 XDF 430, XDF 431, XDF 432, XDF 433, XDF 434					
		For Hard Materials		XDH 430, XDH 431, XDH 432, XDH 433, XDH 434 XDFH 430, XDFH 431, XDFH 432, XDFH 433, XDFH 434									
		For General Purpose		XD 435, XD 436, XD 437, XD 438, XD 439 XDF 435, XDF 436, XDF 437, XDF 438, XDF 439									
		For Hard Materials		XDH 435, XDH 436, XDH 437, XDH 438, XDH 439 XDFH 435, XDFH 436, XDFH 437, XDFH 438, XDFH 439									
Ø37.0 ~Ø37.4	X-370 □	T(3xD)		253	183	148	For General Purpose	XD 440, XD 441, XD 442, XD 443, XD 444 XDF 440, XDF 441, XDF 442, XDF 443, XDF 444					
		For Hard Materials		XDH 440, XDH 441, XDH 442, XDH 443, XDH 444 XDFH 440, XDFH 441, XDFH 442, XDFH 443, XDFH 444									
		For General Purpose		XD 445, XD 446, XD 447, XD 448, XD 449 XDF 445, XDF 446, XDF 447, XDF 448, XDF 449									
		For Hard Materials		XDH 445, XDH 446, XDH 447, XDH 448, XDH 449 XDFH 445, XDFH 446, XDFH 447, XDFH 448, XDFH 449									
Ø37.5 ~Ø37.9	X-375 □	T(3xD)		255	185	150	For General Purpose	XD 450, XD 451, XD 452, XD 453, XD 454 XDF 450, XDF 451, XDF 452, XDF 453, XDF 454					
		For Hard Materials		XDH 450, XDH 451, XDH 452, XDH 453, XDH 454 XDFH 450, XDFH 451, XDFH 452, XDFH 453, XDFH 454									
		For General Purpose		XD 455, XD 456, XD 457, XD 458, XD 459 XDF 455, XDF 456, XDF 457, XDF 458, XDF 459									
		For Hard Materials		XDH 455, XDH 456, XDH 457, XDH 458, XDH 459 XDFH 455, XDFH 456, XDFH 457, XDFH 458, XDFH 459									

New

X-series +higher helix & carbide insert

Hole size range	Code No.	Shank Φ d / (L)	Cutting depth (Length x Φ D)	L1	L2	L3	Flanged dia. (Φ Fd)	Insert Code No. to fit in body		XD	XDF	Cap Screw	Torx driver	
Ø38.0 ~Ø38.4	X-380 □	40.0 (70)	T(3xD)	258	188	152	55	For General Purpose	XD 380, XD 381, XD 382, XD 383, XD 384 XDF 380, XDF 381, XDF 382, XDF 383, XDF 384	CS 360 ~395 SL				
			P(5xD)	334	264	228		For Hard Materials	XDH 380, XDH 381, XDH 382, XDH 383, XDH 384 XDFH 380, XDFH 381, XDFH 382, XDFH 383, XDFH 384					
			H(7xD)	410	340	304								
L(10xD)	524		454	418										
Ø38.5 ~Ø38.9	X-385 □		T(3xD)	260	196	154		For General Purpose	XD 385, XD 386, XD 387, XD 388, XD 389 XDF 385, XDF 386, XDF 387, XDF 388, XDF 389					
			P(5xD)	337	267	231		For Hard Materials	XDH 385, XDH 386, XDH 387, XDH 388, XDH 389 XDFH 385, XDFH 386, XDFH 387, XDFH 388, XDFH 389					
			H(7xD)	414	344	308								
L(10xD)	530		460	424										
Ø39.0 ~Ø39.4	X-390 □		T(3xD)	263	193	156		For General Purpose	XD 390, XD 391, XD 392, XD 393, XD 394 XDF 390, XDF 391, XDF 392, XDF 393, XDF 394					
			P(5xD)	341	271	234		For Hard Materials	XDH 390, XDH 391, XDH 392, XDH 393, XDH 394 XDFH 390, XDFH 391, XDFH 392, XDFH 393, XDFH 394					
			H(7xD)	419	349	312								
L(10xD)	536		466	429										
Ø39.5 ~Ø39.9	X-395 □		T(3xD)	265	195	158		For General Purpose	XD 395, XD 396, XD 397, XD 398, XD 399 XDF 395, XDF 396, XDF 397, XDF 398, XDF 399					
			P(5xD)	344	274	237		For Hard Materials	XDH 395, XDH 396, XDH 397, XDH 398, XDH 399 XDFH 395, XDFH 396, XDFH 397, XDFH 398, XDFH 399					
			H(7xD)	423	353	316								
L(10xD)	542		472	435										
Ø40.0 ~Ø40.4	X-400 □		T(3xD)	267	197	160		For General Purpose	XD 400, XD 401, XD 402, XD 403, XD 404 XDF 400, XDF 401, XDF 402, XDF 403, XDF 404					
			P(5xD)	347	277	240		For Hard Materials	XDH 400, XDH 401, XDH 402, XDH 403, XDH 404 XDFH 400, XDFH 401, XDFH 402, XDFH 403, XDFH 404					
			H(7xD)	427	357	320								
L(10xD)	547		477	440										
Ø40.5 ~Ø40.9	X-405 □		T(3xD)	270	200	162		For General Purpose	XD 405, XD 406, XD 407, XD 408, XD 409 XDF 405, XDF 406, XDF 407, XDF 408, XDF 409					
			P(5xD)	351	281	243		For Hard Materials	XDH 405, XDH 406, XDH 407, XDH 408, XDH 409 XDFH 405, XDFH 406, XDFH 407, XDFH 408, XDFH 409					
			H(7xD)	432	362	324								
L(10xD)	554		484	446										
Ø41.0 ~Ø41.4	X-410 □		T(3xD)	272	202	164		For General Purpose	XD 410, XD 411, XD 412, XD 413, XD 414 XDF 410, XDF 411, XDF 412, XDF 413, XDF 414					
			P(5xD)	354	284	246		For Hard Materials	XDH 410, XDH 411, XDH 412, XDH 413, XDH 414 XDFH 410, XDFH 411, XDFH 412, XDFH 413, XDFH 414					
			H(7xD)	436	366	328								
L(10xD)	559		489	451										
Ø41.5 ~Ø41.9	X-415 □		T(3xD)	275	205	166		For General Purpose	XD 415, XD 416, XD 417, XD 418, XD 419 XDF 415, XDF 416, XDF 417, XDF 418, XDF 419					
			P(5xD)	358	288	249		For Hard Materials	XDH 415, XDH 416, XDH 417, XDH 418, XDH 419 XDFH 415, XDFH 416, XDFH 417, XDFH 418, XDFH 419					
			H(7xD)	441	371	332								
L(10xD)	566		496	457										
Ø42.0 ~Ø42.4	X-420 □		T(3xD)	277	207	168		For General Purpose	XD 420, XD 421, XD 422, XD 423, XD 424 XDF 420, XDF 421, XDF 422, XDF 423, XDF 424					
			P(5xD)	361	291	252		For Hard Materials	XDH 420, XDH 421, XDH 422, XDH 423, XDH 424 XDFH 420, XDFH 421, XDFH 422, XDFH 423, XDFH 424					
			H(7xD)	445	375	336								
L(10xD)	571		501	462										
Ø42.5 ~Ø42.9	X-425 □		T(3xD)	279	209	170		For General Purpose	XD 425, XD 426, XD 427, XD 428, XD 429 XDF 425, XDF 426, XDF 427, XDF 428, XDF 429					
			P(5xD)	364	294	255		For Hard Materials	XDH 425, XDH 426, XDH 427, XDH 428, XDH 429 XDFH 425, XDFH 426, XDFH 427, XDFH 428, XDFH 429					
			H(7xD)	449	379	340								
L(10xD)	577		507	468										
Ø43.0 ~Ø43.4	X-430 □		T(3xD)	282	212	172		For General Purpose	XD 430, XD 431, XD 432, XD 433, XD 434 XDF 430, XDF 431, XDF 432, XDF 433, XDF 434					
			P(5xD)	368	298	258		For Hard Materials	XDH 430, XDH 431, XDH 432, XDH 433, XDH 434 XDFH 430, XDFH 431, XDFH 432, XDFH 433, XDFH 434					
			H(7xD)	454	384	344								
L(10xD)	583		513	473										
Ø43.5 ~Ø43.9	X-435 □		T(3xD)	284	214	174		For General Purpose	XD 435, XD 436, XD 437, XD 438, XD 439 XDF 435, XDF 436, XDF 437, XDF 438, XDF 439					
			P(5xD)	371	301	261		For Hard Materials	XDH 435, XDH 436, XDH 437, XDH 438, XDH 439 XDFH 435, XDFH 436, XDFH 437, XDFH 438, XDFH 439					
			H(7xD)	458	388	348								
L(10xD)	589		519	479										
Ø44.0 ~Ø44.4	X-440 □		T(3xD)	287	217	176		For General Purpose	XD 440, XD 441, XD 442, XD 443, XD 444 XDF 440, XDF 441, XDF 442, XDF 443, XDF 444					
			P(5xD)	375	305	264		For Hard Materials	XDH 440, XDH 441, XDH 442, XDH 443, XDH 444 XDFH 440, XDFH 441, XDFH 442, XDFH 443, XDFH 444					
			H(7xD)	463	393	352								
L(10xD)	595		525	484										
Ø44.5 ~Ø44.9	X-445 □		T(3xD)	289	219	178		For General Purpose	XD 445, XD 446, XD 447, XD 448, XD 449 XDF 445, XDF 446, XDF 447, XDF 448, XDF 449					
			P(5xD)	378	308	267		For Hard Materials	XDH 445, XDH 446, XDH 447, XDH 448, XDH 449 XDFH 445, XDFH 446, XDFH 447, XDFH 448, XDFH 449					
			H(7xD)	467	397	356								
L(10xD)	601		531	490										
Ø45.0 ~Ø45.4	X-450 □		T(3xD)	291	221	180		For General Purpose	XD 450, XD 451, XD 452, XD 453, XD 454 XDF 450, XDF 451, XDF 452, XDF 453, XDF 454					
			P(5xD)	381	311	270		For Hard Materials	XDH 450, XDH 451, XDH 452, XDH 453, XDH 454 XDFH 450, XDFH 451, XDFH 452, XDFH 453, XDFH 454					
			H(7xD)	471	401	360								
L(10xD)	606		536	495										
Ø45.5 ~Ø45.9	X-455 □		T(3xD)	294	224	182		For General Purpose	XD 455, XD 456, XD 457, XD 458, XD 459 XDF 455, XDF 456, XDF 457, XDF 458, XDF 459					
			P(5xD)	385	315	273	For Hard Materials	XDH 455, XDH 456, XDH 457, XDH 458, XDH 459 XDFH 455, XDFH 456, XDFH 457, XDFH 458, XDFH 459						
		H(7xD)	476	406	364									
L(10xD)	613	543	501											

T20



Torque
5.0Nm
(Max)