

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! ★



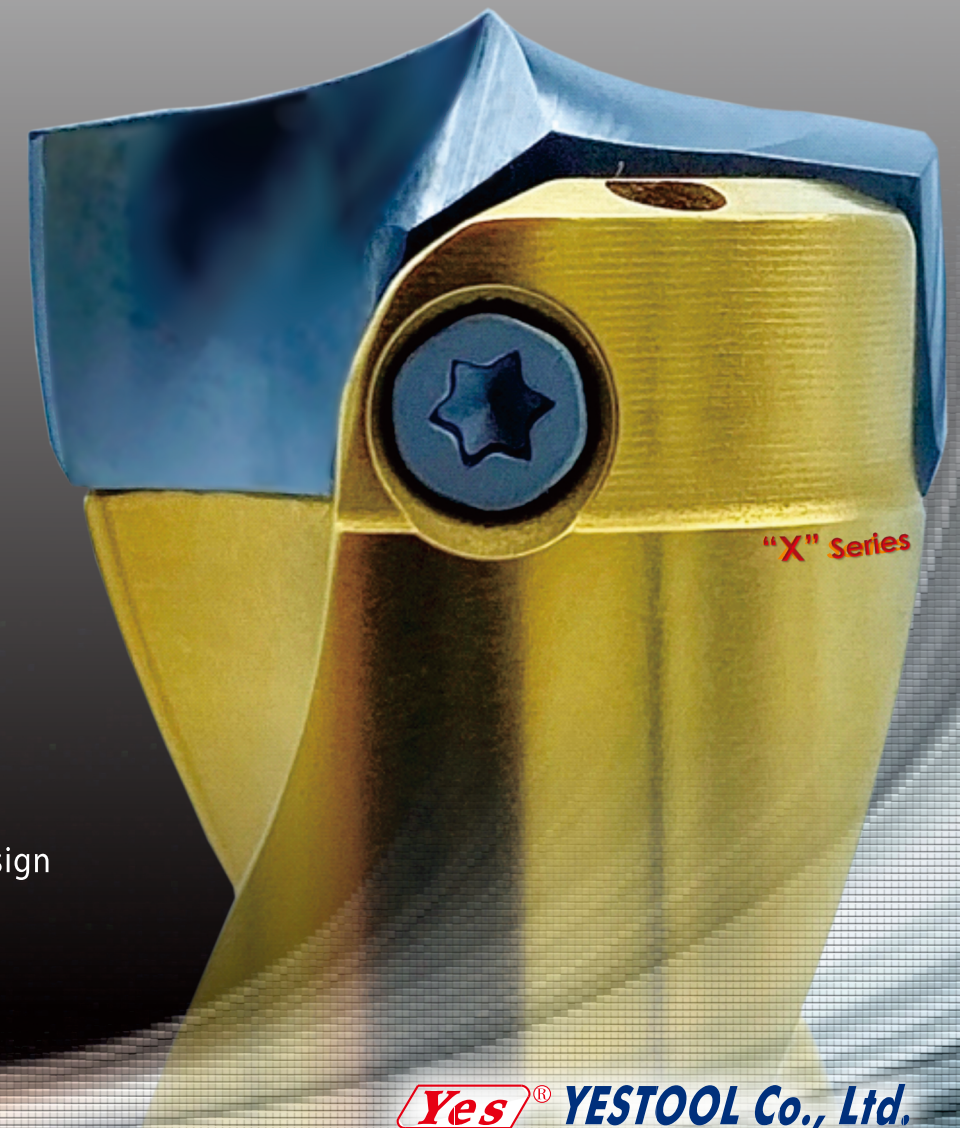
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“X” Series

(Excellent)

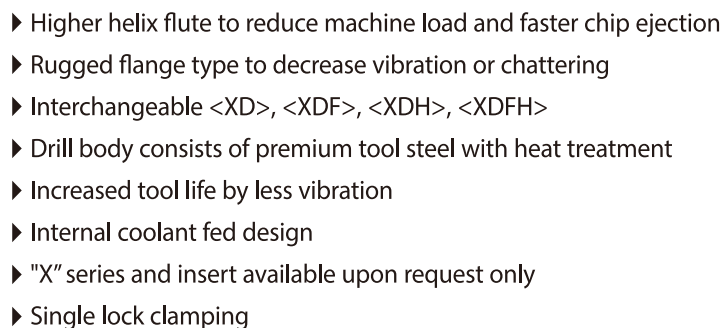
Hole making No.1



Multi-tasking in single drill

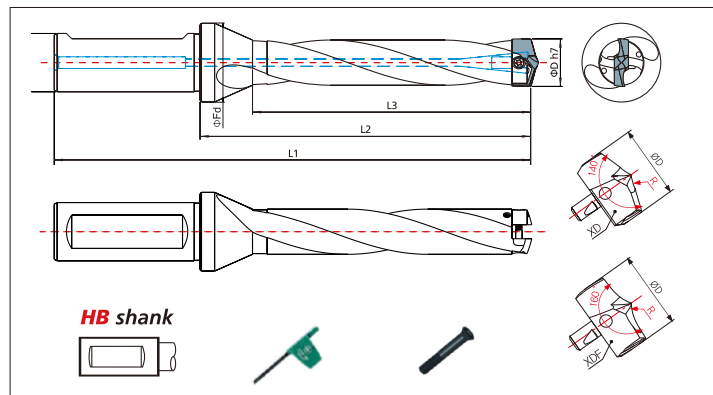
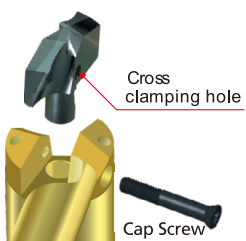
- ▶ Smooth centering
- ▶ Higher straightness
- ▶ Super penetrations
- ▶ Super chip's ejection
- ▶ Minimizing built-up edge by helical cutting edge design

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General purpose

Thin plate & shallow depth



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

T6
Torque
0.6Nm
(Max)

Torque
0.9Nm
(Max)



Hole size range	Code No.	Shank Φ d / (L)	Cutting depth (Length x OD)	L1	L2	L3	Flanged dia. (Φ Fd)	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	
			P(5xD)	269	209	180		For Hard Materials	XDH 300, XDH 301, XDH 302, XDH 303, XDH 304 XDFH 300, XDFH 301, XDFH 302, XDFH 303, XDFH 304		
			H(7xD)	329	269	240		For General Purpose	XD 305, XD 306, XD 307, XD 308, XD 309 XDF 305, XDF 306, XDF 307, XDF 308, XDF 309		
			L(10xD)	419	359	330			For Hard Materials		
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					
P(5xD)	273		213	183		For Hard Materials					
H(7xD)	334		274	244				For General Purpose			
L(10xD)	426		366	336					For Hard Materials		
T(3xD)	214		154	124	For General Purpose						
P(5xD)	276		216	186		For Hard Materials					
H(7xD)	338		278	248				For General Purpose			
L(10xD)	431		371	341					For Hard Materials		
T(3xD)	221		161	130	For General Purpose						
P(5xD)	280		220	189		For Hard Materials					
H(7xD)	343		283	252				For General Purpose			
L(10xD)	438		378	347					For Hard Materials		
T(3xD)	219		159	128	For General Purpose						
P(5xD)	283		223	192		For Hard Materials					
H(7xD)	347		287	256				For General Purpose			
L(10xD)	443		383	352					For Hard Materials		
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						
P(5xD)	286	226	195		For Hard Materials	XDH 350, XDH 351, XDH 352, XDH 353, XDH 354 XDFH 350, XDFH 351, XDFH 352, XDFH 353, XDFH 354					
H(7xD)	351	291	260			For General Purpose	XD 355, XD 356, XD 357, XD 358, XD 359 XDF 355, XDF 356, XDF 357, XDF 358, XDF 359				
L(10xD)	449	389	358				For Hard Materials	XDH 355, XDH 356, XDH 357, XDH 358, XDH 359 XDFH 355, XDFH 356, XDFH 357, XDFH 358, XDFH 359			
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			
P(5xD)	290	230	198		For Hard Materials			XDH 360, XDH 361, XDH 362, XDH 363, XDH 364 XDFH 360, XDFH 361, XDFH 362, XDFH 363, XDFH 364			
H(7xD)	356	296	264			For General Purpose		XD 365, XD 366, XD 367, XD 368, XD 369 XDF 365, XDF 366, XDF 367, XDF 368, XDF 369			
L(10xD)	455	395	363				For Hard Materials	XDH 365, XDH 366, XDH 367, XDH 368, XDH 369 XDFH 365, XDFH 366, XDFH 367, XDFH 368, XDFH 369			
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			
P(5xD)	293	233	201		For Hard Materials			XDH 370, XDH 371, XDH 372, XDH 373, XDH 374 XDFH 370, XDFH 371, XDFH 372, XDFH 373, XDFH 374			
H(7xD)	360	300	268			For General Purpose		XD 375, XD 376, XD 377, XD 378, XD 379 XDF 375, XDF 376, XDF 377, XDF 378, XDF 379			
L(10xD)	461	401	369				For Hard Materials	XDH 375, XDH 376, XDH 377, XDH 378, XDH 379 XDFH 375, XDFH 376, XDFH 377, XDFH 378, XDFH 379			
T(3xD)	239	169	136	For General Purpose				XD 380, XD 381, XD 382, XD 383, XD 384 XDF 380, XDF 381, XDF 382, XDF 383, XDF 384			
P(5xD)	307	237	204		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)	375	305	272			For General Purpose		XD 385, XD 386, XD 387, XD 388, XD 389 XDF 385, XDF 386, XDF 387, XDF 388, XDF 389			
L(10xD)	477	407	374				For Hard Materials	XDH 385, XDH 386, XDH 387, XD 388, XDH 389 XDFH 385, XDFH 386, XDFH 387, XDFH 388, XDFH 389			
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			
P(5xD)	310	240	207		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)	379	309	276			For General Purpose		XD 395, XD 396, XD 397, XD 398, XD 399 XDF 395, XDF 396, XDF 397, XDF 398, XDF 399			
L(10xD)	483	413	380				For Hard Materials	XDH 395, XDH 396, XDH 397, XDH 398, XDH 399 XDFH 395, XDFH 396, XDFH 397, XDFH 398, XDFH 399			
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			
P(5xD)	313	243	210		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)	383	313	280			For General Purpose		XD 405, XD 406, XD 407, XD 408, XD 409 XDF 405, XDF 406, XDF 407, XDF 408, XDF 409			
L(10xD)	488	418	385				For Hard Materials	XDH 405, XDH 406, XDH 407, XD 408, XDH 409 XDFH 405, XDFH 406, XDFH 407, XDFH 408, XDFH 409			
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			
P(5xD)	317	247	213		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)	388	318	284			For General Purpose		XD 415, XD 416, XD 417, XD 418, XD 419 XDF 415, XDF 416, XDF 417, XDF 418, XDF 419			
L(10xD)	495	425	391				For Hard Materials	XDH 415, XDH 416, XDH 417, XDH 418, XDH 419 XDFH 415, XDFH 416, XDFH 417, XDFH 418, XDFH 419			
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			
P(5xD)	320	250	216		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)	392	322	288			For General Purpose		XD 425, XD 426, XD 427, XD 428, XD 429 XDF 425, XDF 426, XDF 427, XDF 428, XDF 429			
L(10xD)	500	430	396				For Hard Materials	XDH 425, XDH 426, XDH 427, XD 428, XDH 429 XDFH 425, XDFH 426, XDFH 427, XDFH 428, XDFH 429			
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			
P(5xD)	324	254	219		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)	397	327	292			For General Purpose		XD 435, XD 436, XD 437, XD 438, XD 439 XDF 435, XDF 436, XDF 437, XDF 438, XDF 439			
L(10xD)	507	437	402				For Hard Materials	XDH 435, XDH 436, XDH 437, XDH 438, XDH 439 XDFH 435, XDFH 436, XDFH 437, XDFH 438, XDFH 439			
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			
P(5xD)	327	257	222		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)	401	331	296			For General Purpose		XD 445, XD 446, XD 447, XD 448, XD 449 XDF 445, XDF 446, XDF 447, XDF 448, XDF 449			
L(10xD)	512	442	407				For Hard Materials	XDH 445, XDH 446, XDH 447, XD 448, XDH 449 XDFH 445, XDFH 446, XDFH 447, XDFH 448, XDFH 449			
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			
P(5xD)	330	260	225		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)	405	335	300			For General Purpose		XD 455, XD 456, XD 457, XD 458, XD 459 XDF 455, XDF 456, XDF 457, XDF 458, XDF 459			
L(10xD)	518	448	413				For Hard Materials	XDH 455, XDH 456, XDH 457, XDH 458, XDH 459 XDFH 455, XDFH 456, XDFH 457, XDFH 458, XDFH 459			

T20



Torque
5.0Nm
(Max)



T20
Torque
5.0Nm
(Max)

T20
Torque
5.0Nm
(Max)

SUS316 (316, X5CrNiMo17-12-2)