



Vol 3

Ideal for Oil and Wind Applications

HY-PRO[®] HXL, VXL & RXL

HXL • HXL-OIL • HXL-W • HXL-W-OIL
VXL • VXL-OIL • VXL-W • VXL-W-OIL • RXL-W

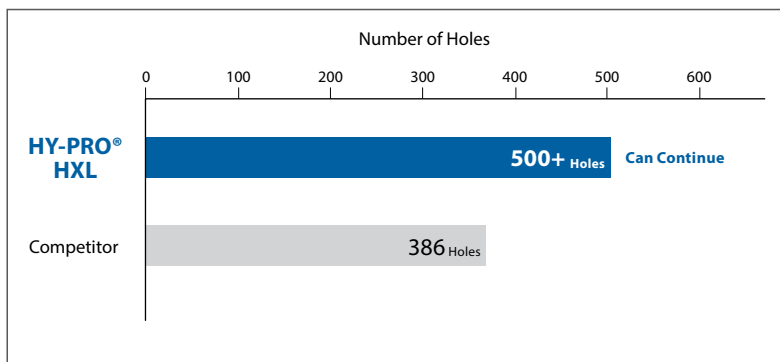


Minimized Cutting Torque

Minimized Cutting Torque for Extended Tool Life

The HY-PRO® HXL produced short and broken chips, which helped minimize cutting torque and prolonged tool life. The competition, on the other hand, stopped at 386 holes due to excessive torque and wear.

Tool	HY-PRO® HXL	Competitor
Size	Ø1,1/2"-6 2B	
Work Material	4140 Alloy Steel	
Thread %	74%	
Tapping Length	3.75"	
Tapping Speed	24 SFM (61 RPM)	
Holder	Tension-Comp.	
Coolant	Water Soluble (10x)	
Machine	CT50 HMC	

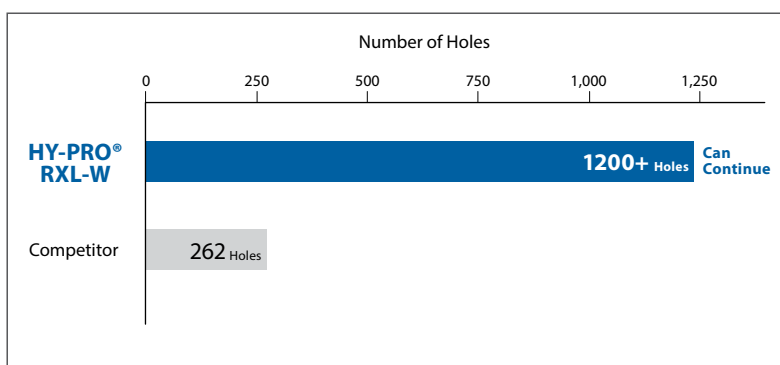


Left Hand Spiral for Through-Hole

RXL-W is Designed for Through-Hole Applications

The HY-PRO® RXL-W's left hand spiral acts opposite to natural chip progression, thereby forcing chips forward. It is an ideal design for through-hole applications.

Tool	HY-PRO® RXL-W	Competitor
Size	ØM24x3.0 6H	
Work Material	Ductile Cast Iron	
Thread %	70%	
Tapping Length	38mm	
Tapping Speed	60 SFM (244 RPM)	
Holder	Tension-Comp.	
Coolant	Water Soluble (10x)	
Machine	CT50 HMC	



List 13014

HXL-SFT, Horizontal Applications, DIN Overall Length, Modified Bottom (2.5P-3P)



HSSE

S/O

15°



Tap Size	Class of Fit	No. of Flutes	EDP Number		DIN Overall Length	Thread Length	Neck Length	Shank Dia.	Square Width	Square Length
			Modified Bottom (2.5P - 3P)							
			S/O	L						
1/2 - 13 UNC	2B	4	1301402601	4.33	0.614	-	0.367	0.275	0.437	
1/2 - 20 UNF			1301402701	3.93		1.000				
9/16 - 12 UNC			1301400101	4.33		-				
9/16 - 18 UNF			1301400201	3.93	0.665	1.126	0.429	0.322	0.500	
5/8 - 11 UNC			1301400301	4.33		-				
5/8 - 18 UNF			1301400401	3.93		1.252				
3/4 - 10 UNC			1301400501	4.92	0.799	-	0.590	0.442	0.689	
3/4 - 16 UNF			1301402801	4.33		1.500				
7/8 - 9 UNC			1301400601	5.51		-				
7/8 - 14 UNF			1301402901	4.92	0.890	1.752	0.697	0.523	0.752	
1 - 8 UNC			1301400701	6.29		-				
1 - 12 UNF			1301403001	5.51		2.000				
1,1/8 - 7 UNC		1301400901	7.08	1.142	2.252	0.896	0.672	0.874		
1,1/8 - 8 UN		1301401101		1.000						
1,1/8 - 12 UNF		1301403101		0.665						
1,1/4 - 7 UNC		1301401201	7.08	1.142	2.500	1.021	0.766	1.000		
1,1/4 - 8 UN		1301401401		1.000						
1,1/4 - 12 UNF		1301403201		0.665						
1,3/8 - 6 UNC		1301401501	7.87	1.335	1.108	0.831	1.063			
1,3/8 - 8 UN		1301401701		-						
1,3/8 - 12 UNF		1301403901		1.000				2.752		
1,1/2 - 6 UNC		1301401801	7.87	1.335	1.233	0.925	1.126			
1,1/2 - 8 UN		1301402001		1.000				-		
1,1/2 - 12 UNF		1301403301		0.665				3.000		
1,5/8 - 8 UN		1301402101	7.87	1.000	1.305	0.979	1.252			
1,3/4 - 5 UNC		1301403501		8.66				1.598		
1,3/4 - 8 UN		1301402201		7.87				3.500		
1,7/8 - 8 UN		1301402301	8.85	1.000	3.752	1.519	1.139			
2 - 4,1/2 UNC		1301403601			9.84			1.780		
2 - 8 UN		1301402401			8.85			1.000	4.000	
2,1/4 - 4,1/2 UNC		1301403701	9.84	1.780	1.894	1.420	1.437			
2,1/4 - 8 UN		1301404001		11.02				1.000	4.500	
2,1/2 - 4 UNC		1301403801		12.40				2.000	-	
2,1/2 - 8 UN	1301402501	10.82	1.000	5.000	2.100	1.575	1.500			

Packed: 1 pc.
Available Steam Oxide finish only.



Work Material																	
List No.	P					M			K	N		S	H				
	Carbon Steels			Alloy Steels	Die Steels	Stainless Steels			Cast Iron	Aluminum		Nickel Alloy	Titanium	Hardened Steels			
	Low	Med.	High			300	400	17-4 PH		6061	Casting			Inconel	6Al4V (30 HRC)	~35 HRC	35-45 HRC
13014	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input type="checkbox"/>			
SFM	25-80	20-50	20-45	20-50	15-20	20-45	20-45	15-20	25-75				15-35	8-15			

good best





List 13024

HXL-OIL-SFT, Horizontal Applications, Coolant-Through, DIN Overall Length, Modified Bottom (2.5P-3P)



Tap Size	Class of Fit	No. of Flutes	EDP Number		DIN Overall Length	Thread Length	Neck Length	Shank Dia.	Square Width	Square Length
			Modified Bottom (2.5P-3P)							
			S/O	L						
1/2 - 13 UNC	2B	4	1302402601	4.33	0.614	-	0.367	0.274	0.437	
1/2 - 20 UNF			1302402701	3.93		1.000				
9/16 - 12 UNC			1302400101	4.33		-				
9/16 - 18 UNF			1302400201	3.93		1.125				
5/8 - 11 UNC			1302400301	4.33		-				
5/8 - 18 UNF			1302400401	3.93		1.251				
3/4 - 10 UNC			1302400501	4.92		-				
3/4 - 16 UNF			1302402801	4.33		1.500				
7/8 - 9 UNC			1302400601	5.51		-				
7/8 - 14 UNF			1302402901	4.92		1.751				
1 - 8 UNC			1302400701	6.29		1.000				-
1 - 12 UNF			1302403001	5.51		0.665				2
1,1/8 - 7 UNC		1302400901	7.08	1.141	-					
1,1/8 - 8 UN		1302401101		1.000	2.251					
1,1/8 - 12 UNF		1302403101	5.90	0.665	-					
1,1/4 - 7 UNC		1302401201	7.08	1.141	-					
1,1/4 - 8 UN		1302401401		1.000	2.500					
1,1/4 - 12 UNF		1302403201	5.90	0.665	-					
1,3/8 - 6 UNC		1302401501	7.87	1.334	-					
1,3/8 - 8 UN		1302401701		1.000	2.751					
1,3/8 - 12 UNF		1302403901	6.69	1.334	-					
1,1/2 - 6 UNC		1302401801	7.87	1.000	-					
1,1/2 - 8 UN		1302402001		3.000	1.232					
1,1/2 - 12 UNF		1302403301	6.69	0.665	3.000					
1,5/8 - 8 UN		1302402101	7.87	1.000	3.251					
1,3/4 - 5 UNC		1302403501	8.66	1.598	-					
1,3/4 - 8 UN		1302402201	7.87	1.000	3.500					
1,7/8 - 8 UN		1302402301	8.85	1.000	3.751					
2 - 4,1/2 UNC		1302403601	9.84	1.779	-					
2 - 8 UN		1302402401	8.85	1.000	4.000					
2,1/4 - 4,1/2 UNC		1302403701	11.02	1.779	-					
2,1/4 - 8 UN		1302404001	9.84	1.000	4.500					
2,1/2 - 4 UNC		1302403801	12.40	2.000	-					
2,1/2 - 8 UN		1302402501	10.82	1.000	5.000					

Packed: 1 pc.
Available Steam Oxide finish only.



Work Material																	
List No.	P					M			K	N		S		H			
	Carbon Steels			Alloy Steels	Die Steels	Stainless Steels			Cast Iron	Aluminum		Nickel Alloy	Titanium	Hardened Steels			
	Low	Med.	High			300	400	17-4 PH		6061	Casting			Inconel	6Al4V (30 HRC)	~35 HRC	35-45 HRC
13024	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<input type="checkbox"/>		
SFM	50-120	45-110	40-100	45-110	20-60	30-70	30-70	20-50	40-100					20-60	15-50		

good best



List 13015

VXL-SFT, Vertical Applications, DIN Overall Length, Modified Bottom (2.5P-3P)



HSSE

S/O

45°



Tap Size	Class of Fit	No. of Flutes	EDP Number	DIN Overall Length	Thread Length	Neck Length	Shank Dia.	Square Width	Square Length
			Modified Bottom (2.5P - 3P)						
			S/O						
1/2 - 13 UNC	2B	3	1301502601	4.33	0.614	-	0.367	0.274	0.437
1/2 - 20 UNF			1301502701	3.93		1.000			
9/16 - 12 UNC			1301500101	4.33	0.665	-	0.429	0.322	0.500
9/16 - 18 UNF		1301500201	3.93	1.125					
5/8 - 11 UNC		1301500301	4.33	0.728	-	0.480	0.359	0.641	
5/8 - 18 UNF		1301500401	3.93		1.251				
3/4 - 10 UNC		1301500501	4.92	0.799	-	0.590	0.442	0.688	
3/4 - 16 UNF		1301502801	4.33		1.500				
7/8 - 9 UNC		1301500601	5.51	0.889	-	0.697	0.522	0.751	
7/8 - 14 UNF		1301502901	4.92		1.751				
1 - 8 UNC		1301500701	6.29	1.000	-	0.800	0.600	0.811	
1 - 12 UNF		1301503001	5.51	0.665	2.000				
1,1/8 - 7 UNC		1301500901	7.08	1.141	-	0.895	0.672	0.874	
1,1/8 - 8 UN		1301501101	7.08	1.000	2.251				
1,1/8 - 12 UNF		1301503101	5.90	0.665	-	1.020	0.766	1.000	
1,1/4 - 7 UNC		1301501201	7.08	1.141	-				
1,1/4 - 8 UN		1301501401	7.08	1.000	2.500	1.107	0.831	1.062	
1,1/4 - 12 UNF		1301503201	5.90	0.665	-				
1,3/8 - 6 UNC		1301501501	7.87	1.334	-	1.232	0.925	1.125	
1,3/8 - 8 UN		1301501701	7.87	1.000	2.751				
1,3/8 - 12 UNF		1301503401	6.69	0.665	-	1.305	0.979	1.251	
1,1/2 - 6 UNC		1301501801	7.87	1.334	-				
1,1/2 - 8 UN		1301502001	7.87	1.000	3.000	1.430	1.072	1.251	
1,1/2 - 12 UNF		1301503301	6.69	0.665	-				
1,5/8 - 8 UN		1301502101	7.87	1.000	3.251	1.519	1.138	1.374	
1,3/4 - 5 UNC		1301503501	8.66	1.598	-				
1,3/4 - 8 UN		1301502201	7.87	1.000	3.500	1.644	1.233	1.374	
1,7/8 - 8 UN		1301502301	8.85	1.000	3.751				
2 - 4,1/2 UNC		1301503601	9.84	1.779	-	1.894	1.420	1.437	
2 - 8 UN		1301502401	8.85	1.000	4.000				
2,1/4 - 4,1/2 UNC		1301503701	11.02	1.779	-	2.100	1.574	1.500	
2,1/4 - 8 UN		1301504001	9.84	1.000	4.500				
2,1/2 - 4 UNC		1301503801	12.40	2.000	-	10.82	1.000	5.000	
2,1/2 - 8 UN		1301502501	10.82	1.000	5.000				

Packed: 1 pc.
Available Steam Oxide finish only.



Work Material																	
List No.	P					M			K	N		S		H			
	Carbon Steels			Alloy Steels	Die Steels	Stainless Steels			Cast Iron	Aluminum		Nickel Alloy	Titanium	Hardened Steels			
	Low	Med.	High			300	400	17-4 PH		6061 7075	Casting			Inconel	6Al4V (30 HRC)	~35 HRC	35-45 HRC
13015	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<input type="checkbox"/>		
SFM	25-80	20-50	20-45	20-50	15-20	20-45	20-45	15-20	25-75					15-35	8-15		

good best





List 13025

VXL-OIL-SFT, Vertical Applications, Coolant-Through, DIN Overall Length, Modified Bottom (2.5P-3P)



Tap Size	Class of Fit	No. of Flutes	EDP Number	DIN Overall Length	Thread Length	Neck Length	Shank Dia.	Square Width	Square Length
			Modified Bottom (2.5P-3P)						
			S/O						
1/2 - 13 UNC	2B	3	1302502601	4.33	0.614	-	0.367	0.274	0.437
1/2 - 20 UNF			1302502701	3.93		1.000			
9/16 - 12 UNC			1302500101	4.33		-			
9/16 - 18 UNF		1302500201	3.93	0.665	1.125	0.429	0.322	0.500	
5/8 - 11 UNC		1302500301	4.33	-					
5/8 - 18 UNF		1302500401	3.93	0.728	1.251	0.480	0.359	0.562	
3/4 - 10 UNC		1302500501	4.92	-					
3/4 - 16 UNF		1302502801	4.33	0.799	1.500	0.590	0.442	0.688	
7/8 - 9 UNC		1302500601	5.51	-					
7/8 - 14 UNF		1302502901	4.92	0.889	1.751	0.697	0.522	0.751	
1 - 8 UNC		1302500701	6.29	1.000	-				0.800
1 - 12 UNF		1302503001	5.51	0.665	2.000				
1,1/8 - 7 UNC		1302500901	-	1.141	-	0.895	0.672	0.874	
1,1/8 - 8 UN		1302501101	7.08	1.000	2.251				
1,1/8 - 12 UNF		1302503101	5.90	0.665	-	1.020	0.766	1.000	
1,1/4 - 7 UNC		1302501201	-	1.141	-				
1,1/4 - 8 UN		1302501401	7.08	1.000	2.500				
1,1/4 - 12 UNF		1302503201	5.90	0.665	-	1.107	0.831	1.062	
1,3/8 - 6 UNC		1302501501	7.87	1.334	-				
1,3/8 - 8 UN		1302501701	-	1.000	2.751	1.232	0.925	1.125	
1,3/8 - 12 UNF		1302503901	6.69	0.665	-				
1,1/2 - 6 UNC		1302501801	7.87	1.334	-	1.305	0.979	1.251	
1,1/2 - 8 UN		1302502001	-	1.000	3.000				
1,1/2 - 12 UNF		1302503301	6.69	0.665	-	1.430	1.072	1.251	
1,5/8 - 8 UN		1302502101	7.87	1.000	3.251				
1,3/4 - 5 UNC		1302503501	8.66	1.598	-	1.519	1.138	1.374	
1,3/4 - 8 UN		1302502201	7.87	1.000	3.500				
1,7/8 - 8 UN		1302502301	8.85	1.000	3.751	1.644	1.233	1.374	
2 - 4,1/2 UNC		1302503601	9.84	1.779	-				
2 - 8 UN		1302502401	8.85	1.000	4.000	1.894	1.420	1.437	
2,1/4 - 4,1/2 UNC		1302503701	11.02	1.779	-				
2,1/4 - 8 UN		1302504001	9.84	1.000	4.500	2.100	1.574	1.500	
2,1/2 - 4 UNC		1302503801	12.40	2.000	-				
2,1/2 - 8 UN		1302502501	10.82	1.000	5.000				

Packed: 1 pc.
Available Steam Oxide finish only.



List No.	Work Material																
	P					M			K	N		S		H			
	Carbon Steels			Alloy Steels	Die Steels	Stainless Steels			Cast Iron	Aluminum		Nickel Alloy	Titanium	Hardened Steels			
	Low	Med.	High			300	400	17-4 PH		6061	Casting			Inconel	6Al4V (30 HRC)	~35 HRC	35-45 HRC
13025	☐	☐	☐	☐	☐	☐	☐	☐	☐				☐	☐			
SFM	50-120	45-110	40-100	45-110	20-60	30-70	30-70	20-50	40-100					20-60	15-50		

☐ good ☐ best



List 13116

HXL-SFT, Horizontal Applications, DIN Overall Length, Modified Bottom (2.5P-3P)



HSSE

S/O

15°



Tap Size	Thread Limit	No. of Flutes	EDP Number		DIN Overall Length	Thread Length	Neck Length	Shank Dia.	Square Width	Square Length
			Modified Bottom (2.5P-3P)							
			S/O	L						
M16 x 2.0	D7 D17 (6H +0.005")	4	1311602501	180	16	93	12.19	9.14	14.3	
			1311602401	110						
			1311602301							
M20 x 2.5	D8 D18 (6H +0.005")		1311600101	140	20	73	16.56	12.42	17.5	
			1311600201	200						
			1311601601	140						
M24 x 3.0	D9 D19 (6H +0.005")	1311600401	160	24	88	19.3	14.48	19.1		
		1311600501	200							
		1311601701	160							
M27 x 3.0	D9 D19 (6H +0.005")	1311600601	160		28	88	22.75	17.07	22.2	
		1311600701	200							
		1311601801	160							
M30 x 3.5	D10 D20 (6H +0.005")	1311600801	180	28	103	25.93	19.46	25.4		
		1311600901	250							
		1311601901	180							
M33 x 3.5	D10 D20 (6H +0.005")	1311601001	180		32	93	28.14	21.11	27.0	
		1311601101	250							
		1311602001	180							
M36 x 4.0	D11 D21 (6H +0.005")	1311601201	200	36	118	31.31	23.50	28.6		
		1311601301	250							
		1311602101	200							
M42 x 4.5	D11 D21 (6H +0.005")	1311601401	200	36	98	36.32	27.23	31.8		
		1311601501	300							
		1311602201	200							

Packed: 1 pc.
Available Steam Oxide finish only.
Note: +0.005" available for threads that will be heat treated after tapping.



Work Material																	
List No.	P					M			K	N		S	H				
	Carbon Steels			Alloy Steels	Die Steels	Stainless Steels			Cast Iron	Aluminum		Nickel Alloy	Titanium	Hardened Steels			
	Low	Med.	High			300	400	17-4 PH		6061 7075	Casting	Inconel	6Al4V (30 HRC)	~35 HRC	35-45 HRC	45-50 HRC	50-70 HRC
13116	☐	☐	☐	☐	☐	☐	☐	☐	☐				☐	☐			
SFM	25-80	20-50	20-45	20-50	15-20	20-45	20-45	15-20	25-75					15-35	8-15		

☐ good ☐ best





List 13126

HXL-OIL-SFT, Horizontal Applications, Coolant-Through, DIN Overall Length, Modified Bottom (2.5P-3P)



Tap Size	Class of Fit	No. of Flutes	EDP Number		DIN Overall Length	Thread Length	Neck Length	Shank Dia.	Square Width	Square Length
			Modified Bottom (2.5P - 3P)							
			S/O	L						
M16 x 2.0	D7	4	1312602401	180	16	93	12.19	9.14	14.3	
	D17 (6H +0.005")		1312602501	110		58				
M20 x 2.5	D8		1312602301	140	20	73	16.56	12.42	17.5	
	D18 (6H +0.005")		1312600101	200		103				
M24 x 3.0	D9	5	1312601601	140	24	73	19.30	14.48	19.1	
	D19 (6H +0.005")		1312600401	160		88				
M27 x 3.0	D9		1312600501	200	28	108	22.75	17.07	22.2	
	D19 (6H +0.005")		1312601701	160		88				
M30 x 3.5	D10		1312600601	200	32	108	25.93	19.46	25.4	
	D20 (6H +0.005")		1312600701	180		103				
M33 x 3.5	D10	6	1312600901	250	36	138	28.14	21.11	27.0	
	D20 (6H +0.005")		1312601901	180		103				
M36 x 4.0	D11		1312601001	180	32	93	31.31	23.50	28.6	
	D21 (6H +0.005")		1312601101	250		128				
M42 x 4.5	D11	1312602001	180	36	98	36.32	27.23	31.8		
	D21 (6H +0.005")	1312601201	200		118					
			1312601301	250		143				
			1312602101	200		118				
			1312601401	300		98				
			1312601501	300		148				
			1312602201	200		98				

Packed: 1 pc.
Available Steam Oxide finish only.
Note: +0.005" available for threads that will be heat treated after tapping.



Work Material																	
List No.	P					M			K	N		S		H			
	Carbon Steels			Alloy Steels	Die Steels	Stainless Steels			Cast Iron	Aluminum		Nickel Alloy	Titanium	Hardened Steels			
	Low	Med.	High			300	400	17-4 PH		6061	Casting			Inconel	6Al4V (30 HRC)	~35 HRC	35-45 HRC
13126	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<input type="checkbox"/>		
SFM	50-120	45-110	40-100	45-110	20-60	30-70	30-70	20-50	40-100					20-60	15-50		

good best



List 13117

VXL-SFT, Vertical Applications, DIN Overall Length, Modified Bottom (2.5P-3P)



HSSE

S/O

45°



Tap Size	Thread Limit	No. of Flutes	EDP Number		DIN Overall Length	Thread Length	Neck Length	Shank Dia.	Square Width	Square Length
			Modified Bottom (2.5P - 3P)							
			S/O	L						
M16 x 2.0	D7	4	1311702401	110	16	-	12.19	9.14	14.3	
	D17 (6H + 0.005")		1311702501	180		-				
			1311702301	110		-				
M20 x 2.5	D8		1311700101	140	20	-	16.56	12.42	17.5	
	D18 (6H + 0.005")		1311700201	200		-				
			1311701601	140		-				
M24 x 3.0	D9	1311700401	160	24	-	19.30	14.48	19.1		
	D19 (6H + 0.005")	1311700501	200		-					
		1311701701	160		-					
M27 x 3.0	D9	1311700601	160		28	-	22.75	17.07	22.2	
	D19 (6H + 0.005")	1311700701	200			-				
		1311701801	160			-				
M30 x 3.5	D10	1311700801	180	32		-	25.93	19.46	25.4	
	D20 (6H + 0.005)	1311700901	250			-				
		1311701901	180			-				
M33 x 3.5	D10	1311701001	180		36	-	28.14	21.11	27.0	
	D20 (6H + 0.005)	1311701101	250			-				
		1311702001	180			-				
M36 x 4.0	D11	1311701201	200	200		-	31.31	23.50	28.6	
	D21 (6H + 0.005)	1311701301	250			-				
		1311702101	200			-				
M42 x 4.5	D11	1311701401	200		36	-	36.32	27.23	31.8	
		1311701501	300			-				
		1311702201	200			-				

Packed: 1 pc.
 Available Steam Oxide finish only.
 Note: +0.005" available for threads that will be heat treated after tapping.



Work Material																	
List No.	P					M			K	N		S		H			
	Carbon Steels			Alloy Steels	Die Steels	Stainless Steels			Cast Iron	Aluminum		Nickel Alloy	Titanium	Hardened Steels			
	Low	Med.	High			300	400	17-4 PH		6061 7075	Casting			Inconel	6Al4V (30 HRC)	~35 HRC	35-45 HRC
13117	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<input type="checkbox"/>		
SFM	25-80	20-50	20-45	20-50	15-20	20-45	20-45	15-20	25-75					15-35	8-15		

good best



List 13127



VXL-OIL-SFT, Vertical Applications, Coolant-Through, DIN Overall Length, Modified Bottom (2.5P-3P)



Tap Size	Thread Limit	No. of Flutes	EDP Number		DIN Overall Length	Thread Length	Neck Length	Shank Dia.	Square Width	Square Length			
			Modified Bottom (2.5P - 3P)										
			S/O	L									
M16 x 2.0	D7	4	1312702401	110	16	-	12.19	9.14	14.3				
	D17 (6H +0.005")		1312702501	180		-							
			1312702301	110		-							
M20 x 2.5	D8		1312700101	140	19	-	16.56	12.42	17.5				
	D18 (6H +0.005")		1312700201	200		-							
			1312701601	140		-							
M24 x 3.0	D9	5	1312700401	160	24	-	19.30	14.47	19.1				
	D19 (6H +0.005")		1312700501	200		-							
			1312701701	160		-							
M27 x 3.0	D9		1312700601	160		27				-	22.75	17.06	22.1
	D19 (6H +0.005")		1312700701	200						-			
			1312701801	160						-			
M30 x 3.5	D10	5	1312700801	180	27	-	25.93	19.45	25.4				
	D20 (6H +0.005")		1312700901	250		-							
			1312701901	180		-							
M33 x 3.5	D10		1312701001	180		32				-	28.14	21.10	27.0
	D20 (6H +0.005")		1312701101	250						-			
			1312702001	180						-			
M36 x 4.0	D11	6	1312701201	199	35	-	36.32	27.22	31.8				
	D21 (6H +0.005")		1312701301	250		-							
			1312702101	200		-							
M42 x 4.5	D11		1312701401	300		35				-	36.32	27.22	31.8
	D21 (6H +0.005")		1312701501	300						-			
			1312702201	200						-			

Packed: 1 pc.
Available Steam Oxide finish only.
Note: +0.005" available for threads that will be heat treated after tapping.



Work Material																	
List No.	P					M			K	N		S		H			
	Carbon Steels			Alloy Steels	Die Steels	Stainless Steels			Cast Iron	Aluminum		Nickel Alloy	Titanium	Hardened Steels			
	Low	Med.	High			300	400	17-4 PH		6061	Casting			Inconel	6Al4V (30 HRC)	~35 HRC	35-45 HRC
13127	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<input type="checkbox"/>		
SFM	50-120	45-110	40-100	45-110	20-60	30-70	30-70	20-50	40-100					20-60	15-50		

good best



List 13118



RXL-RFT, DIN Overall Length & Extended Length, Plug (4.5P-5.5P),
RHC/LHS for Through Holes



Tap Size	Thread Limit	No. of Flutes	EDP Number	DIN Overall Length	Thread Length	Neck Length	Shank Dia.	Square Width	Square Length
			Plug (4.5P - 5.5P)	L	Lc	Ln	d	k	lk
M16 x 2.0	D7 D17 (6H+0.005")	4	1311802408	110	24	58	12.19	9.14	14.3
			1311802508	180		93			
			1311802308	110		58			
M20 x 2.5	D8 D18 (6H+0.005")	4	1311800108	140	30	73	16.56	12.42	17.5
			1311800208	200		103			
			1311801608	140		73			
M24 x 3.0	D9 D19 (6H+0.005")	5	1311800408	160	36	88	19.30	14.48	19.1
			1311800508	200		108			
			1311801708	160		88			
M27 x 3.0	D9 D19 (6H+0.005")	5	1311800608	160	42	88	22.75	17.07	22.2
			1311800708	200		108			
			1311801808	160		88			
M30 x 3.5	D10 D20 (6H+0.005")	5	1311800808	180	42	103	25.93	19.46	25.4
			1311800908	250		158			
			1311801908	180		103			
M33 x 3.5	D10 D20 (6H+0.005")	5	1311801008	180	42	93	28.14	21.11	27.0
			1311801108	250		128			
			1311802008	180		93			
M36 x 4.0	D11 D21 (6H+0.005")	6	1311801208	200	48	118	31.31	23.50	28.6
			1311801308	250		143			
			1311802108	200		118			
M42 x 4.5	D11 D21 (6H+0.005")	6	1311801408	200	54	98	36.32	27.23	31.8
			1311801508	300		148			
			1311802208	200		98			

Packed: 1 pc.
Available V coating only.
Note: +0.005" available for threads that will be heat treated after tapping.



List No.	Work Material																
	P					M			K	N		S		H			
	Carbon Steels			Alloy Steels	Die Steels	Stainless Steels			Cast Iron	Aluminum		Nickel Alloy	Titanium	Hardened Steels			
	Low	Med.	High	4140 4340		300	400	17-4 PH		6061 7075	Casting	Inconel	6Al4V (30 HRC)	~35 HRC	35-45 HRC	45-50 HRC	50-70 HRC
13118	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			☐	☐		
SFM	50-120	45-110	40-100	45-110	20-60	30-70	30-70	20-50	40-100	30-80	30-80			20-60	15-50		

☐ good ☐ best





shaping your dreams

 **Safe use of cutting tools**

- Use safety cover, safety glasses and safety shoes during operation.
- Do not touch cutting edges with bare hands.
- Do not touch cutting chips with bare hands. Chips will be hot after cutting.
- Stop cutting when the tool becomes dull.
- Stop cutting operation immediately if you hear any abnormal cutting sounds.
- Do not modify tools.
- Please use appropriate tools for the operation. Check dimensions to ensure proper selection.

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