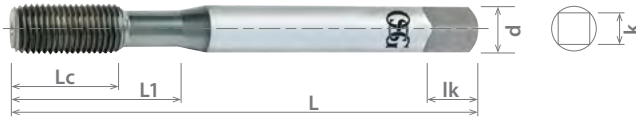




## List 14101

HY-PRO® NRT

FORMING	HSS-Co	BR	S/O	TiCN	TiN	C/1.5P	C/2.5P	C/4.5P	PACKED 1 PIECE
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EDP Number	Thread Size	Thread Limit	Chamfer Type	Overall Length		Thread Length		Neck Length		Shank Dia.		Square Width		Square Length		Tap Drill Size		Surface Treatment
				L (mm)	Lc (mm)	L1 (mm)	d (mm)	k (mm)	lk (mm)	Min (mm)	Max (mm)							
1410100000	● M1.6 x 0.35	D3	Modified Bottom (2.5P)	41.30	7.90	8.90	3.58	2.79	4.76	1.42	1.46	Bright						
1410100001	● M1.6 x 0.35	D3	Modified Bottom (2.5P)	41.30	7.90	8.90	3.58	2.79	4.76	1.42	1.46	Steam Oxide						
1410100005	● M1.6 x 0.35	D3	Modified Bottom (2.5P)	41.30	7.90	8.90	3.58	2.79	4.76	1.42	1.46	TiN						
1410100008	● M1.6 x 0.35	D3	Modified Bottom (2.5P)	41.30	7.90	8.90	3.58	2.79	4.76	1.42	1.46	TiCN						
1410100100	● M1.6 x 0.35	D5	Modified Bottom (2.5P)	41.30	7.90	8.90	3.58	2.79	4.76	1.42	1.46	Bright						
1410100101	● M1.6 x 0.35	D5	Modified Bottom (2.5P)	41.30	7.90	8.90	3.58	2.79	4.76	1.42	1.46	Steam Oxide						
1410100105	● M1.6 x 0.35	D5	Modified Bottom (2.5P)	41.30	7.90	8.90	3.58	2.79	4.76	1.42	1.46	TiN						
1410100108	● M1.6 x 0.35	D5	Modified Bottom (2.5P)	41.30	7.90	8.90	3.58	2.79	4.76	1.42	1.46	TiCN						
1410100200	● M1.7 x 0.35	D3	Modified Bottom (2.5P)	42.90	9.50	10.50	3.58	2.79	4.76	1.52	1.56	Bright						
1410100201	● M1.7 x 0.35	D3	Modified Bottom (2.5P)	42.90	9.50	10.50	3.58	2.79	4.76	1.52	1.56	Steam Oxide						
1410100205	● M1.7 x 0.35	D3	Modified Bottom (2.5P)	42.90	9.50	10.50	3.58	2.79	4.76	1.52	1.56	TiN						
1410100208	● M1.7 x 0.35	D3	Modified Bottom (2.5P)	42.90	9.50	10.50	3.58	2.79	4.76	1.52	1.56	TiCN						
1410100300	● M1.7 x 0.35	D5	Modified Bottom (2.5P)	42.90	9.50	10.50	3.58	2.79	4.76	1.52	1.56	Bright						
1410100301	● M1.7 x 0.35	D5	Modified Bottom (2.5P)	42.90	9.50	10.50	3.58	2.79	4.76	1.52	1.56	Steam Oxide						
1410100305	● M1.7 x 0.35	D5	Modified Bottom (2.5P)	42.90	9.50	10.50	3.58	2.79	4.76	1.52	1.56	TiN						
1410100400	● M2 x 0.4	D3	Bottom (1.5P)	44.30	11.10	12.10	3.58	2.79	4.76	1.80	1.84	Bright						
1410100401	● M2 x 0.4	D3	Bottom (1.5P)	44.30	11.10	12.10	3.58	2.79	4.76	1.80	1.84	Steam Oxide						
1410100405	● M2 x 0.4	D3	Bottom (1.5P)	44.30	11.10	12.10	3.58	2.79	4.76	1.80	1.84	TiN						
1410100408	● M2 x 0.4	D3	Bottom (1.5P)	44.30	11.10	12.10	3.58	2.79	4.76	1.80	1.84	TiCN						
1410100600	● M2 x 0.4	D3	Modified Bottom (2.5P)	44.30	11.10	12.10	3.58	2.79	4.76	1.80	1.84	Bright						
1410100601	● M2 x 0.4	D3	Modified Bottom (2.5P)	44.30	11.10	12.10	3.58	2.79	4.76	1.80	1.84	Steam Oxide						
1410100605	● M2 x 0.4	D3	Modified Bottom (2.5P)	44.30	11.10	12.10	3.58	2.79	4.76	1.80	1.84	TiN						
1410100608	● M2 x 0.4	D3	Modified Bottom (2.5P)	44.30	11.10	12.10	3.58	2.79	4.76	1.80	1.84	TiCN						
1410106100	● M2 x 0.4	D4	Modified Bottom (2.5P)	44.30	11.10	12.10	3.58	2.79	4.76	1.80	1.84	Bright						
1410106108	● M2 x 0.4	D4	Modified Bottom (2.5P)	44.30	11.10	12.10	3.58	2.79	4.76	1.80	1.84	TiCN						
1410100500	● M2 x 0.4	D5	Bottom (1.5P)	44.30	11.10	12.10	3.58	2.79	4.76	1.80	1.84	Bright						
1410100501	● M2 x 0.4	D5	Bottom (1.5P)	44.30	11.10	12.10	3.58	2.79	4.76	1.80	1.84	Steam Oxide						
1410100505	● M2 x 0.4	D5	Bottom (1.5P)	44.30	11.10	12.10	3.58	2.79	4.76	1.80	1.84	TiN						
1410100508	● M2 x 0.4	D5	Bottom (1.5P)	44.30	11.10	12.10	3.58	2.79	4.76	1.80	1.84	TiCN						
1410100700	● M2 x 0.4	D5	Modified Bottom (2.5P)	44.30	11.10	12.10	3.58	2.79	4.76	1.80	1.84	Bright						
1410100701	● M2 x 0.4	D5	Modified Bottom (2.5P)	44.30	11.10	12.10	3.58	2.79	4.76	1.80	1.84	Steam Oxide						
1410100705	● M2 x 0.4	D5	Modified Bottom (2.5P)	44.30	11.10	12.10	3.58	2.79	4.76	1.80	1.84	TiN						
1410100708	● M2 x 0.4	D5	Modified Bottom (2.5P)	44.30	11.10	12.10	3.58	2.79	4.76	1.80	1.84	TiCN						
1410106200	● M2 x 0.4	D6	Modified Bottom (2.5P)	44.30	11.10	12.10	3.58	2.79	4.76	1.80	1.84	Bright						
1410106208	● M2 x 0.4	D6	Modified Bottom (2.5P)	44.30	11.10	12.10	3.58	2.79	4.76	1.80	1.84	TiCN						
1410106300	● M2 x 0.4	D7	Modified Bottom (2.5P)	44.30	11.10	12.10	3.58	2.79	4.76	1.80	1.84	Bright						
1410106308	● M2 x 0.4	D7	Modified Bottom (2.5P)	44.30	11.10	12.10	3.58	2.79	4.76	1.80	1.84	TiCN						
1410106400	● M2 x 0.4	D8	Modified Bottom (2.5P)	44.30	11.10	12.10	3.58	2.79	4.76	1.80	1.84	Bright						
1410106408	● M2 x 0.4	D8	Modified Bottom (2.5P)	44.30	11.10	12.10	3.58	2.79	4.76	1.80	1.84	TiCN						
1410100800	● M2.5 x 0.45	D3	Bottom (1.5P)	46.00	12.80	13.80	3.58	2.79	4.76	2.27	2.32	Bright						
1410100801	● M2.5 x 0.45	D3	Bottom (1.5P)	46.00	12.80	13.80	3.58	2.79	4.76	2.27	2.32	Steam Oxide						
1410100805	● M2.5 x 0.45	D3	Bottom (1.5P)	46.00	12.80	13.80	3.58	2.79	4.76	2.27	2.32	TiN						

● Stocked ○ Available Upon Request; MOQ May Apply ▲ Globally Stocked

Note: Other coatings are available upon request.



CONTINUED

P					M			K	N		S		H			
Steel					Stainless Steel			Cast Iron	Non-Ferrous		HRSA		Hardened Steel			
Carbon Steel			Alloy Steel	Die Steel	Aluminum		Nickel Alloy		Titanium							
Low	Medium	High			6061	7075				Casting	Inconel	6Al4V (30 HRC)	~35 HRC	35-45 HRC	45-50 HRC	50-70 HRC
1010	1035	1045	1065	4140	4340	300	400	17-4 PH	50-90	45-100			10-15			
○	○	○	○	○	○	○	○	○	○	○			○			
35-100	20-50	15-25	15-25	15-20	15-40	15-40	10-25									

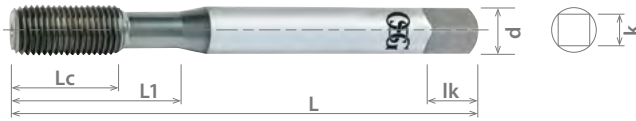
○ Good ○ Best





## List 14101 (Continued)

HY-PRO® NRT



ABOUT OSG

DRILLING

THREADING

MILLING

HOLDERS

INDEX

EDP Number	Thread Size	Thread Limit	Chamfer Type	Overall Length	Thread Length	Neck Length	Shank Dia.	Square Width	Square Length	Tap Drill Size		Surface Treatment
				L (mm)	Lc (mm)	L1 (mm)	d (mm)	k (mm)	lk (mm)	Min (mm)	Max (mm)	
1410100808	● M2.5 x 0.45	D3	Bottom (1.5P)	46.00	12.80	13.80	3.58	2.79	4.76	2.27	2.32	TiCN
1410101000	● M2.5 x 0.45	D3	Modified Bottom (2.5P)	46.00	12.80	13.80	3.58	2.79	4.76	2.27	2.32	Bright
1410101001	● M2.5 x 0.45	D3	Modified Bottom (2.5P)	46.00	12.80	13.80	3.58	2.79	4.76	2.27	2.32	Steam Oxide
1410101005	● M2.5 x 0.45	D3	Modified Bottom (2.5P)	46.00	12.80	13.80	3.58	2.79	4.76	2.27	2.32	TiN
1410101008	● M2.5 x 0.45	D3	Modified Bottom (2.5P)	46.00	12.80	13.80	3.58	2.79	4.76	2.27	2.32	TiCN
1410106500	● M2.5 x 0.45	D4	Modified Bottom (2.5P)	46.00	12.80	13.80	3.58	2.79	4.76	2.27	2.32	Bright
1410106508	● M2.5 x 0.45	D4	Modified Bottom (2.5P)	46.00	12.80	13.80	3.58	2.79	4.76	2.27	2.32	TiCN
1410100900	● M2.5 x 0.45	D5	Bottom (1.5P)	46.00	12.80	13.80	3.58	2.79	4.76	2.27	2.32	Bright
1410100901	● M2.5 x 0.45	D5	Bottom (1.5P)	46.00	12.80	13.80	3.58	2.79	4.76	2.27	2.32	Steam Oxide
1410100905	● M2.5 x 0.45	D5	Bottom (1.5P)	46.00	12.80	13.80	3.58	2.79	4.76	2.27	2.32	TiN
1410100908	● M2.5 x 0.45	D5	Bottom (1.5P)	46.00	12.80	13.80	3.58	2.79	4.76	2.27	2.32	TiCN
1410101100	● M2.5 x 0.45	D5	Modified Bottom (2.5P)	46.00	12.80	13.80	3.58	2.79	4.76	2.27	2.32	Bright
1410101101	● M2.5 x 0.45	D5	Modified Bottom (2.5P)	46.00	12.80	13.80	3.58	2.79	4.76	2.27	2.32	Steam Oxide
1410101105	● M2.5 x 0.45	D5	Modified Bottom (2.5P)	46.00	12.80	13.80	3.58	2.79	4.76	2.27	2.32	TiN
1410101108	● M2.5 x 0.45	D5	Modified Bottom (2.5P)	46.00	12.80	13.80	3.58	2.79	4.76	2.27	2.32	TiCN
1410106600	● M2.5 x 0.45	D6	Modified Bottom (2.5P)	46.00	12.80	13.80	3.58	2.79	4.76	2.27	2.32	Bright
1410106608	● M2.5 x 0.45	D6	Modified Bottom (2.5P)	46.00	12.80	13.80	3.58	2.79	4.76	2.27	2.32	TiCN
1410106700	● M2.5 x 0.45	D7	Modified Bottom (2.5P)	46.00	12.80	13.80	3.58	2.79	4.76	2.27	2.32	Bright
1410106708	● M2.5 x 0.45	D7	Modified Bottom (2.5P)	46.00	12.80	13.80	3.58	2.79	4.76	2.27	2.32	TiCN
1410106800	● M2.5 x 0.45	D8	Modified Bottom (2.5P)	46.00	12.80	13.80	3.58	2.79	4.76	2.27	2.32	Bright
1410106808	● M2.5 x 0.45	D8	Modified Bottom (2.5P)	46.00	12.80	13.80	3.58	2.79	4.76	2.27	2.32	TiCN
1410101200	● M2.6 x 0.45	D3	Modified Bottom (2.5P)	46.00	12.70	13.70	3.58	2.79	4.76	2.37	2.42	Bright
1410101201	● M2.6 x 0.45	D3	Modified Bottom (2.5P)	46.00	12.70	13.70	3.58	2.79	4.76	2.37	2.42	Steam Oxide
1410101205	● M2.6 x 0.45	D3	Modified Bottom (2.5P)	46.00	12.70	13.70	3.58	2.79	4.76	2.37	2.42	TiN
1410101300	● M2.6 x 0.45	D5	Modified Bottom (2.5P)	46.00	12.70	13.70	3.58	2.79	4.76	2.37	2.42	Bright
1410101301	● M2.6 x 0.45	D5	Modified Bottom (2.5P)	46.00	12.70	13.70	3.58	2.79	4.76	2.37	2.42	Steam Oxide
1410101305	● M2.6 x 0.45	D5	Modified Bottom (2.5P)	46.00	12.70	13.70	3.58	2.79	4.76	2.37	2.42	TiN
1410101400	● M3 x 0.5	D3	Bottom (1.5P)	49.20	6.20	16.00	3.58	2.79	4.76	2.75	2.80	Bright
1410101401	● M3 x 0.5	D3	Bottom (1.5P)	49.20	6.20	16.00	3.58	2.79	4.76	2.75	2.80	Steam Oxide
1410101405	● M3 x 0.5	D3	Bottom (1.5P)	49.20	6.20	16.00	3.58	2.79	4.76	2.75	2.80	TiN
1410101408	● M3 x 0.5	D3	Bottom (1.5P)	49.20	6.20	16.00	3.58	2.79	4.76	2.75	2.80	TiCN
1410101600	● M3 x 0.5	D3	Modified Bottom (2.5P)	49.20	6.20	16.00	3.58	2.79	4.76	2.75	2.80	Bright
1410101601	● M3 x 0.5	D3	Modified Bottom (2.5P)	49.20	6.20	16.00	3.58	2.79	4.76	2.75	2.80	Steam Oxide
1410101605	● M3 x 0.5	D3	Modified Bottom (2.5P)	49.20	6.20	16.00	3.58	2.79	4.76	2.75	2.80	TiN
1410101608	● M3 x 0.5	D3	Modified Bottom (2.5P)	49.20	6.20	16.00	3.58	2.79	4.76	2.75	2.80	TiCN
1410106900	● M3 x 0.5	D4	Modified Bottom (2.5P)	49.20	6.20	16.00	3.58	2.79	4.76	2.75	2.80	Bright
1410106908	● M3 x 0.5	D4	Modified Bottom (2.5P)	49.20	6.20	16.00	3.58	2.79	4.76	2.75	2.80	TiCN
1410101500	● M3 x 0.5	D5	Bottom (1.5P)	49.20	6.20	16.00	3.58	2.79	4.76	2.75	2.80	Bright
1410101501	● M3 x 0.5	D5	Bottom (1.5P)	49.20	6.20	16.00	3.58	2.79	4.76	2.75	2.80	Steam Oxide
1410101505	● M3 x 0.5	D5	Bottom (1.5P)	49.20	6.20	16.00	3.58	2.79	4.76	2.75	2.80	TiN
1410101508	● M3 x 0.5	D5	Bottom (1.5P)	49.20	6.20	16.00	3.58	2.79	4.76	2.75	2.80	TiCN
1410101700	● M3 x 0.5	D5	Modified Bottom (2.5P)	49.20	6.20	16.00	3.58	2.79	4.76	2.75	2.80	Bright
1410101701	● M3 x 0.5	D5	Modified Bottom (2.5P)	49.20	6.20	16.00	3.58	2.79	4.76	2.75	2.80	Steam Oxide
1410101705	● M3 x 0.5	D5	Modified Bottom (2.5P)	49.20	6.20	16.00	3.58	2.79	4.76	2.75	2.80	TiN
1410101708	● M3 x 0.5	D5	Modified Bottom (2.5P)	49.20	6.20	16.00	3.58	2.79	4.76	2.75	2.80	TiCN
1410110700	● M3 x 0.5	D5	Plug (4.5P)	49.20	6.20	16.00	3.58	2.79	4.76	2.75	2.80	Bright
1410106000	● M3 x 0.5	D6	Bottom (1.5P)	49.20	6.20	16.00	3.58	2.79	4.76	2.75	2.80	Bright
1410107000	● M3 x 0.5	D6	Modified Bottom (2.5P)	49.20	6.20	16.00	3.58	2.79	4.76	2.75	2.80	Bright
1410107008	● M3 x 0.5	D6	Modified Bottom (2.5P)	49.20	6.20	16.00	3.58	2.79	4.76	2.75	2.80	TiCN
1410107100	● M3 x 0.5	D7	Modified Bottom (2.5P)	49.20	6.20	16.00	3.58	2.79	4.76	2.75	2.80	Bright
1410107108	● M3 x 0.5	D7	Modified Bottom (2.5P)	49.20	6.20	16.00	3.58	2.79	4.76	2.75	2.80	TiCN
1410107200	● M3 x 0.5	D8	Modified Bottom (2.5P)	49.20	6.20	16.00	3.58	2.79	4.76	2.75	2.80	Bright

● Stocked ○ Available Upon Request; MOQ May Apply ▲ Globally Stocked  
Note: Other coatings are available upon request.





## List 14101 (Continued)

HY-PRO® NRT

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EDP Number	Thread Size	Thread Limit	Chamfer Type	Overall Length	Thread Length	Neck Length	Shank Dia.	Square Width	Square Length	Tap Drill Size		Surface Treatment	
				L (mm)	Lc (mm)	L1 (mm)	d (mm)	k (mm)	lk (mm)	Min (mm)	Max (mm)		
1410107208	●	M3 x 0.5	D8	Modified Bottom (2.5P)	49.20	6.20	16.00	3.58	2.79	4.76	2.75	2.80	TiCN
1410107300	●	M3 x 0.5	D9	Modified Bottom (2.5P)	49.20	6.20	16.00	3.58	2.79	4.76	2.75	2.80	Bright
1410107308	●	M3 x 0.5	D9	Modified Bottom (2.5P)	49.20	6.20	16.00	3.58	2.79	4.76	2.75	2.80	TiCN
1410107400	●	M3 x 0.5	D10	Modified Bottom (2.5P)	49.20	6.20	16.00	3.58	2.79	4.76	2.75	2.80	Bright
1410107408	●	M3 x 0.5	D10	Modified Bottom (2.5P)	49.20	6.20	16.00	3.58	2.79	4.76	2.75	2.80	TiCN
1410107500	●	M3 x 0.5	D11	Modified Bottom (2.5P)	49.20	6.20	16.00	3.58	2.79	4.76	2.75	2.80	Bright
1410107508	●	M3 x 0.5	D11	Modified Bottom (2.5P)	49.20	6.20	16.00	3.58	2.79	4.76	2.75	2.80	TiCN
1410101800	●	M3.5 x 0.6	D4	Bottom (1.5P)	50.80	6.20	17.50	3.58	2.79	4.76	3.19	3.26	Bright
1410101801	●	M3.5 x 0.6	D4	Bottom (1.5P)	50.80	6.20	17.50	3.58	2.79	4.76	3.19	3.26	Steam Oxide
1410101805	●	M3.5 x 0.6	D4	Bottom (1.5P)	50.80	6.20	17.50	3.58	2.79	4.76	3.19	3.26	TiN
1410101808	●	M3.5 x 0.6	D4	Bottom (1.5P)	50.80	6.20	17.50	3.58	2.79	4.76	3.19	3.26	TiCN
1410102000	●	M3.5 x 0.6	D4	Modified Bottom (2.5P)	50.80	6.20	17.50	3.58	2.79	4.76	3.19	3.26	Bright
1410102001	●	M3.5 x 0.6	D4	Modified Bottom (2.5P)	50.80	6.20	17.50	3.58	2.79	4.76	3.19	3.26	Steam Oxide
1410102005	●	M3.5 x 0.6	D4	Modified Bottom (2.5P)	50.80	6.20	17.50	3.58	2.79	4.76	3.19	3.26	TiN
1410102008	●	M3.5 x 0.6	D4	Modified Bottom (2.5P)	50.80	6.20	17.50	3.58	2.79	4.76	3.19	3.26	TiCN
1410102200	●	M3.5 x 0.6	D4	Plug (4.5P)	50.80	6.20	17.50	3.58	2.79	4.76	3.19	3.26	Bright
1410102201	●	M3.5 x 0.6	D4	Plug (4.5P)	50.80	6.20	17.50	3.58	2.79	4.76	3.19	3.26	Steam Oxide
1410102205	●	M3.5 x 0.6	D4	Plug (4.5P)	50.80	6.20	17.50	3.58	2.79	4.76	3.19	3.26	TiN
1410102208	●	M3.5 x 0.6	D4	Plug (4.5P)	50.80	6.20	17.50	3.58	2.79	4.76	3.19	3.26	TiCN
1410107600	●	M3.5 x 0.6	D5	Modified Bottom (2.5P)	50.80	6.20	17.50	3.58	2.79	4.76	3.19	3.26	Bright
1410107608	●	M3.5 x 0.6	D5	Modified Bottom (2.5P)	50.80	6.20	17.50	3.58	2.79	4.76	3.19	3.26	TiCN
1410101900	●	M3.5 x 0.6	D6	Bottom (1.5P)	50.80	6.20	17.50	3.58	2.79	4.76	3.19	3.26	Bright
1410101901	●	M3.5 x 0.6	D6	Bottom (1.5P)	50.80	6.20	17.50	3.58	2.79	4.76	3.19	3.26	Steam Oxide
1410101905	●	M3.5 x 0.6	D6	Bottom (1.5P)	50.80	6.20	17.50	3.58	2.79	4.76	3.19	3.26	TiN
1410101908	●	M3.5 x 0.6	D6	Bottom (1.5P)	50.80	6.20	17.50	3.58	2.79	4.76	3.19	3.26	TiCN
1410102100	●	M3.5 x 0.6	D6	Modified Bottom (2.5P)	50.80	6.20	17.50	3.58	2.79	4.76	3.19	3.26	Bright
1410102101	●	M3.5 x 0.6	D6	Modified Bottom (2.5P)	50.80	6.20	17.50	3.58	2.79	4.76	3.19	3.26	Steam Oxide
1410102105	●	M3.5 x 0.6	D6	Modified Bottom (2.5P)	50.80	6.20	17.50	3.58	2.79	4.76	3.19	3.26	TiN
1410102108	●	M3.5 x 0.6	D6	Modified Bottom (2.5P)	50.80	6.20	17.50	3.58	2.79	4.76	3.19	3.26	TiCN
1410102300	●	M3.5 x 0.6	D6	Plug (4.5P)	50.80	6.20	17.50	3.58	2.79	4.76	3.19	3.26	Bright
1410102301	●	M3.5 x 0.6	D6	Plug (4.5P)	50.80	6.20	17.50	3.58	2.79	4.76	3.19	3.26	Steam Oxide
1410102305	●	M3.5 x 0.6	D6	Plug (4.5P)	50.80	6.20	17.50	3.58	2.79	4.76	3.19	3.26	TiN
1410102308	●	M3.5 x 0.6	D6	Plug (4.5P)	50.80	6.20	17.50	3.58	2.79	4.76	3.19	3.26	TiCN
1410107700	●	M3.5 x 0.6	D7	Modified Bottom (2.5P)	50.80	6.20	17.50	3.58	2.79	4.76	3.19	3.26	Bright
1410107708	●	M3.5 x 0.6	D7	Modified Bottom (2.5P)	50.80	6.20	17.50	3.58	2.79	4.76	3.19	3.26	TiCN
1410107800	●	M3.5 x 0.6	D8	Modified Bottom (2.5P)	50.80	6.20	17.50	3.58	2.79	4.76	3.19	3.26	Bright
1410107808	●	M3.5 x 0.6	D8	Modified Bottom (2.5P)	50.80	6.20	17.50	3.58	2.79	4.76	3.19	3.26	TiCN
1410102400	●	M4 x 0.7	D4	Bottom (1.5P)	54.00	8.40	19.60	4.27	3.33	6.35	3.64	3.71	Bright
1410102401	●	M4 x 0.7	D4	Bottom (1.5P)	54.00	8.40	19.60	4.27	3.33	6.35	3.64	3.71	Steam Oxide
1410102405	●	M4 x 0.7	D4	Bottom (1.5P)	54.00	8.40	19.60	4.27	3.33	6.35	3.64	3.71	TiN
1410102408	●	M4 x 0.7	D4	Bottom (1.5P)	54.00	8.40	19.60	4.27	3.33	6.35	3.64	3.71	TiCN
1410102600	●	M4 x 0.7	D4	Modified Bottom (2.5P)	54.00	8.40	19.60	4.27	3.33	6.35	3.64	3.71	Bright
1410102601	●	M4 x 0.7	D4	Modified Bottom (2.5P)	54.00	8.40	19.60	4.27	3.33	6.35	3.64	3.71	Steam Oxide
1410102605	●	M4 x 0.7	D4	Modified Bottom (2.5P)	54.00	8.40	19.60	4.27	3.33	6.35	3.64	3.71	TiN
1410102608	●	M4 x 0.7	D4	Modified Bottom (2.5P)	54.00	8.40	19.60	4.27	3.33	6.35	3.64	3.71	TiCN
1410102800	●	M4 x 0.7	D4	Plug (4.5P)	54.00	8.40	19.60	4.27	3.33	6.35	3.64	3.71	Bright
1410102801	●	M4 x 0.7	D4	Plug (4.5P)	54.00	8.40	19.60	4.27	3.33	6.35	3.64	3.71	Steam Oxide

● Stocked ○ Available Upon Request; MOQ May Apply ▲ Globally Stocked  
 Note: Other coatings are available upon request.



CONTINUED ➤

P					M			K	N		S		H			
Steel					Stainless Steel			Cast Iron	Non-Ferrous		HRSA		Hardened Steel			
Carbon Steel			Alloy Steel	Die Steel	300	400	17-4 PH		Aluminum		Nickel Alloy	Titanium				
Low	Medium	High							6061	Casting			Inconel	6Al4V (30 HRC)	~35 HRC	35-45 HRC
1010 1018	1035 1045	1065	4140 4340	○	○	○		○	○		○					
35-100	20-50	15-25	15-25	15-20	15-40	15-40	10-25		50-90	45-100			10-15			

○ Good ○ Best

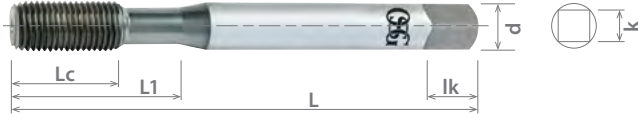




## List 14101 (Continued)

HY-PRO® NRT

FORMING	HSS-Co	BR	S/O	TiN	C/1.5P	C/2.5P	C/4.5P	PACKED 1 PIECE
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EDP Number	Thread Size	Thread Limit	Chamfer Type	Overall Length	Thread Length	Neck Length	Shank Dia.	Square Width	Square Length	Tap Drill Size		Surface Treatment	
				L (mm)	Lc (mm)	L1 (mm)	d (mm)	k (mm)	lk (mm)	Min (mm)	Max (mm)		
1410102805	●	M4 x 0.7	D4	Plug (4.5P)	54.00	8.40	19.60	4.27	3.33	6.35	3.64	3.71	TiN
1410102808	●	M4 x 0.7	D4	Plug (4.5P)	54.00	8.40	19.60	4.27	3.33	6.35	3.64	3.71	TiCN
1410107900	●	M4 x 0.7	D5	Modified Bottom (2.5P)	54.00	8.40	19.60	4.27	3.33	6.35	3.64	3.71	Bright
1410107908	●	M4 x 0.7	D5	Modified Bottom (2.5P)	54.00	8.40	19.60	4.27	3.33	6.35	3.64	3.71	TiCN
1410102500	●	M4 x 0.7	D6	Bottom (1.5P)	54.00	8.40	19.60	4.27	3.33	6.35	3.64	3.71	Bright
1410102501	●	M4 x 0.7	D6	Bottom (1.5P)	54.00	8.40	19.60	4.27	3.33	6.35	3.64	3.71	Steam Oxide
1410102505	●	M4 x 0.7	D6	Bottom (1.5P)	54.00	8.40	19.60	4.27	3.33	6.35	3.64	3.71	TiN
1410102508	●	M4 x 0.7	D6	Bottom (1.5P)	54.00	8.40	19.60	4.27	3.33	6.35	3.64	3.71	TiCN
1410102700	●	M4 x 0.7	D6	Modified Bottom (2.5P)	54.00	8.40	19.60	4.27	3.33	6.35	3.64	3.71	Bright
1410102701	●	M4 x 0.7	D6	Modified Bottom (2.5P)	54.00	8.40	19.60	4.27	3.33	6.35	3.64	3.71	Steam Oxide
1410102705	●	M4 x 0.7	D6	Modified Bottom (2.5P)	54.00	8.40	19.60	4.27	3.33	6.35	3.64	3.71	TiN
1410102708	●	M4 x 0.7	D6	Modified Bottom (2.5P)	54.00	8.40	19.60	4.27	3.33	6.35	3.64	3.71	TiCN
1410102900	●	M4 x 0.7	D6	Plug (4.5P)	54.00	8.40	19.60	4.27	3.33	6.35	3.64	3.71	Bright
1410102901	●	M4 x 0.7	D6	Plug (4.5P)	54.00	8.40	19.60	4.27	3.33	6.35	3.64	3.71	Steam Oxide
1410102905	●	M4 x 0.7	D6	Plug (4.5P)	54.00	8.40	19.60	4.27	3.33	6.35	3.64	3.71	TiN
1410102908	●	M4 x 0.7	D6	Plug (4.5P)	54.00	8.40	19.60	4.27	3.33	6.35	3.64	3.71	TiCN
1410108000	●	M4 x 0.7	D7	Modified Bottom (2.5P)	54.00	8.40	19.60	4.27	3.33	6.35	3.64	3.71	Bright
1410108008	●	M4 x 0.7	D7	Modified Bottom (2.5P)	54.00	8.40	19.60	4.27	3.33	6.35	3.64	3.71	TiCN
1410108100	●	M4 x 0.7	D8	Modified Bottom (2.5P)	54.00	8.40	19.60	4.27	3.33	6.35	3.64	3.71	Bright
1410108108	●	M4 x 0.7	D8	Modified Bottom (2.5P)	54.00	8.40	19.60	4.27	3.33	6.35	3.64	3.71	TiCN
1410108200	●	M4 x 0.7	D9	Modified Bottom (2.5P)	54.00	8.40	19.60	4.27	3.33	6.35	3.64	3.71	Bright
1410108208	●	M4 x 0.7	D9	Modified Bottom (2.5P)	54.00	8.40	19.60	4.27	3.33	6.35	3.64	3.71	TiCN
1410108300	●	M4 x 0.7	D10	Modified Bottom (2.5P)	54.00	8.40	19.60	4.27	3.33	6.35	3.64	3.71	Bright
1410108308	●	M4 x 0.7	D10	Modified Bottom (2.5P)	54.00	8.40	19.60	4.27	3.33	6.35	3.64	3.71	TiCN
1410108400	●	M4 x 0.7	D11	Modified Bottom (2.5P)	54.00	8.40	19.60	4.27	3.33	6.35	3.64	3.71	Bright
1410108408	●	M4 x 0.7	D11	Modified Bottom (2.5P)	54.00	8.40	19.60	4.27	3.33	6.35	3.64	3.71	TiCN
1410103000	●	M5 x 0.8	D4	Bottom (1.5P)	60.30	10.00	22.20	4.93	3.86	6.35	4.59	4.67	Bright
1410103001	●	M5 x 0.8	D4	Bottom (1.5P)	60.30	10.00	22.20	4.93	3.86	6.35	4.59	4.67	Steam Oxide
1410103005	●	M5 x 0.8	D4	Bottom (1.5P)	60.30	10.00	22.20	4.93	3.86	6.35	4.59	4.67	TiN
1410103008	●	M5 x 0.8	D4	Bottom (1.5P)	60.30	10.00	22.20	4.93	3.86	6.35	4.59	4.67	TiCN
1410103200	●	M5 x 0.8	D4	Modified Bottom (2.5P)	60.30	10.00	22.20	4.93	3.86	6.35	4.59	4.67	Bright
1410103201	●	M5 x 0.8	D4	Modified Bottom (2.5P)	60.30	10.00	22.20	4.93	3.86	6.35	4.59	4.67	Steam Oxide
1410103205	●	M5 x 0.8	D4	Modified Bottom (2.5P)	60.30	10.00	22.20	4.93	3.86	6.35	4.59	4.67	TiN
1410103208	●	M5 x 0.8	D4	Modified Bottom (2.5P)	60.30	10.00	22.20	4.93	3.86	6.35	4.59	4.67	TiCN
1410103400	●	M5 x 0.8	D4	Plug (4.5P)	60.30	10.00	22.20	4.93	3.86	6.35	4.59	4.67	Bright
1410103401	●	M5 x 0.8	D4	Plug (4.5P)	60.30	10.00	22.20	4.93	3.86	6.35	4.59	4.67	Steam Oxide
1410103405	●	M5 x 0.8	D4	Plug (4.5P)	60.30	10.00	22.20	4.93	3.86	6.35	4.59	4.67	TiN
1410103408	●	M5 x 0.8	D4	Plug (4.5P)	60.30	10.00	22.20	4.93	3.86	6.35	4.59	4.67	TiCN
1410108500	●	M5 x 0.8	D5	Modified Bottom (2.5P)	60.30	10.00	22.20	4.93	3.86	6.35	4.59	4.67	Bright
1410108508	●	M5 x 0.8	D5	Modified Bottom (2.5P)	60.30	10.00	22.20	4.93	3.86	6.35	4.59	4.67	TiCN
1410108600	●	M5 x 0.8	D6	Modified Bottom (2.5P)	60.30	10.00	22.20	4.93	3.86	6.35	4.59	4.67	Bright
1410108608	●	M5 x 0.8	D6	Modified Bottom (2.5P)	60.30	10.00	22.20	4.93	3.86	6.35	4.59	4.67	TiCN
1410103100	●	M5 x 0.8	D7	Bottom (1.5P)	60.30	10.00	22.20	4.93	3.86	6.35	4.59	4.67	Bright
1410103101	●	M5 x 0.8	D7	Bottom (1.5P)	60.30	10.00	22.20	4.93	3.86	6.35	4.59	4.67	Steam Oxide
1410103105	●	M5 x 0.8	D7	Bottom (1.5P)	60.30	10.00	22.20	4.93	3.86	6.35	4.59	4.67	TiN
1410103108	●	M5 x 0.8	D7	Bottom (1.5P)	60.30	10.00	22.20	4.93	3.86	6.35	4.59	4.67	TiCN
1410103300	●	M5 x 0.8	D7	Modified Bottom (2.5P)	60.30	10.00	22.20	4.93	3.86	6.35	4.59	4.67	Bright
1410103301	●	M5 x 0.8	D7	Modified Bottom (2.5P)	60.30	10.00	22.20	4.93	3.86	6.35	4.59	4.67	Steam Oxide
1410103305	●	M5 x 0.8	D7	Modified Bottom (2.5P)	60.30	10.00	22.20	4.93	3.86	6.35	4.59	4.67	TiN
1410103308	●	M5 x 0.8	D7	Modified Bottom (2.5P)	60.30	10.00	22.20	4.93	3.86	6.35	4.59	4.67	TiCN
1410103500	●	M5 x 0.8	D7	Plug (4.5P)	60.30	10.00	22.20	4.93	3.86	6.35	4.59	4.67	Bright
1410103501	●	M5 x 0.8	D7	Plug (4.5P)	60.30	10.00	22.20	4.93	3.86	6.35	4.59	4.67	Steam Oxide

● Stocked ○ Available Upon Request; MOQ May Apply ▲ Globally Stocked  
 Note: Other coatings are available upon request.





## List 14101 (Continued)

HY-PRO® NRT

FORMING	HSS-Co	BR	S/O	TIN	C/1.5P	C/2.5P	C/4.5P	PACKED 1 PIECE
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EDP Number	Thread Size	Thread Limit	Chamfer Type	Overall Length	Thread Length	Neck Length	Shank Dia.	Square Width	Square Length	Tap Drill Size		Surface Treatment	
				L (mm)	Lc (mm)	L1 (mm)	d (mm)	k (mm)	lk (mm)	Min (mm)	Max (mm)		
1410103505	●	M5 x 0.8	D7	Plug (4.5P)	60.30	10.00	22.20	4.93	3.86	6.35	4.59	4.67	TiN
1410103508	●	M5 x 0.8	D7	Plug (4.5P)	60.30	10.00	22.20	4.93	3.86	6.35	4.59	4.67	TiCN
1410108700	●	M5 x 0.8	D8	Modified Bottom (2.5P)	60.30	10.00	22.20	4.93	3.86	6.35	4.59	4.67	Bright
1410108708	●	M5 x 0.8	D8	Modified Bottom (2.5P)	60.30	10.00	22.20	4.93	3.86	6.35	4.59	4.67	TiCN
1410108800	●	M5 x 0.8	D9	Modified Bottom (2.5P)	60.30	10.00	22.20	4.93	3.86	6.35	4.59	4.67	Bright
1410108808	●	M5 x 0.8	D9	Modified Bottom (2.5P)	60.30	10.00	22.20	4.93	3.86	6.35	4.59	4.67	TiCN
1410108900	●	M5 x 0.8	D10	Modified Bottom (2.5P)	60.30	10.00	22.20	4.93	3.86	6.35	4.59	4.67	Bright
1410108908	●	M5 x 0.8	D10	Modified Bottom (2.5P)	60.30	10.00	22.20	4.93	3.86	6.35	4.59	4.67	TiCN
1410109000	●	M5 x 0.8	D11	Modified Bottom (2.5P)	60.30	10.00	22.20	4.93	3.86	6.35	4.59	4.67	Bright
1410109008	●	M5 x 0.8	D11	Modified Bottom (2.5P)	60.30	10.00	22.20	4.93	3.86	6.35	4.59	4.67	TiCN
1410110500	●	M5 x 0.8	D14	Modified Bottom (2.5P)	60.30	10.00	22.20	4.93	3.86	6.35	4.59	4.67	Bright
1410110508	●	M5 x 0.8	D14	Modified Bottom (2.5P)	60.30	10.00	22.20	4.93	3.86	6.35	4.59	4.67	TiCN
1410103600	●	M6 x 1	D5	Bottom (1.5P)	63.50	12.00	25.40	6.48	4.85	7.94	5.49	5.59	Bright
1410103601	●	M6 x 1	D5	Bottom (1.5P)	63.50	12.00	25.40	6.48	4.85	7.94	5.49	5.59	Steam Oxide
1410103605	●	M6 x 1	D5	Bottom (1.5P)	63.50	12.00	25.40	6.48	4.85	7.94	5.49	5.59	TiN
1410103608	●	M6 x 1	D5	Bottom (1.5P)	63.50	12.00	25.40	6.48	4.85	7.94	5.49	5.59	TiCN
1410103800	●	M6 x 1	D5	Modified Bottom (2.5P)	63.50	12.00	25.40	6.48	4.85	7.94	5.49	5.59	Bright
1410103801	●	M6 x 1	D5	Modified Bottom (2.5P)	63.50	12.00	25.40	6.48	4.85	7.94	5.49	5.59	Steam Oxide
1410103805	●	M6 x 1	D5	Modified Bottom (2.5P)	63.50	12.00	25.40	6.48	4.85	7.94	5.49	5.59	TiN
1410103808	●	M6 x 1	D5	Modified Bottom (2.5P)	63.50	12.00	25.40	6.48	4.85	7.94	5.49	5.59	TiCN
1410104000	●	M6 x 1	D5	Plug (4.5P)	63.50	12.00	25.40	6.48	4.85	7.94	5.49	5.59	Bright
1410104001	●	M6 x 1	D5	Plug (4.5P)	63.50	12.00	25.40	6.48	4.85	7.94	5.49	5.59	Steam Oxide
1410104005	●	M6 x 1	D5	Plug (4.5P)	63.50	12.00	25.40	6.48	4.85	7.94	5.49	5.59	TiN
1410104008	●	M6 x 1	D5	Plug (4.5P)	63.50	12.00	25.40	6.48	4.85	7.94	5.49	5.59	TiCN
1410109100	●	M6 x 1	D6	Modified Bottom (2.5P)	63.50	12.00	25.40	6.48	4.85	7.94	5.49	5.59	Bright
1410109108	●	M6 x 1	D6	Modified Bottom (2.5P)	63.50	12.00	25.40	6.48	4.85	7.94	5.49	5.59	TiCN
1410109200	●	M6 x 1	D7	Modified Bottom (2.5P)	63.50	12.00	25.40	6.48	4.85	7.94	5.49	5.59	Bright
1410109208	●	M6 x 1	D7	Modified Bottom (2.5P)	63.50	12.00	25.40	6.48	4.85	7.94	5.49	5.59	TiCN
1410103700	●	M6 x 1	D8	Bottom (1.5P)	63.50	12.00	25.40	6.48	4.85	7.94	5.49	5.59	Bright
1410103701	●	M6 x 1	D8	Bottom (1.5P)	63.50	12.00	25.40	6.48	4.85	7.94	5.49	5.59	Steam Oxide
1410103705	●	M6 x 1	D8	Bottom (1.5P)	63.50	12.00	25.40	6.48	4.85	7.94	5.49	5.59	TiN
1410103708	●	M6 x 1	D8	Bottom (1.5P)	63.50	12.00	25.40	6.48	4.85	7.94	5.49	5.59	TiCN
1410103900	●	M6 x 1	D8	Modified Bottom (2.5P)	63.50	12.00	25.40	6.48	4.85	7.94	5.49	5.59	Bright
1410103901	●	M6 x 1	D8	Modified Bottom (2.5P)	63.50	12.00	25.40	6.48	4.85	7.94	5.49	5.59	Steam Oxide
1410103905	●	M6 x 1	D8	Modified Bottom (2.5P)	63.50	12.00	25.40	6.48	4.85	7.94	5.49	5.59	TiN
1410103908	●	M6 x 1	D8	Modified Bottom (2.5P)	63.50	12.00	25.40	6.48	4.85	7.94	5.49	5.59	TiCN
1410104100	●	M6 x 1	D8	Plug (4.5P)	63.50	12.00	25.40	6.48	4.85	7.94	5.49	5.59	Bright
1410104101	●	M6 x 1	D8	Plug (4.5P)	63.50	12.00	25.40	6.48	4.85	7.94	5.49	5.59	Steam Oxide
1410104105	●	M6 x 1	D8	Plug (4.5P)	63.50	12.00	25.40	6.48	4.85	7.94	5.49	5.59	TiN
1410104108	●	M6 x 1	D8	Plug (4.5P)	63.50	12.00	25.40	6.48	4.85	7.94	5.49	5.59	TiCN
1410109300	●	M6 x 1	D9	Modified Bottom (2.5P)	63.50	12.00	25.40	6.48	4.85	7.94	5.49	5.59	Bright
1410109308	●	M6 x 1	D9	Modified Bottom (2.5P)	63.50	12.00	25.40	6.48	4.85	7.94	5.49	5.59	TiCN
1410109400	●	M6 x 1	D10	Modified Bottom (2.5P)	63.50	12.00	25.40	6.48	4.85	7.94	5.49	5.59	Bright
1410109408	●	M6 x 1	D10	Modified Bottom (2.5P)	63.50	12.00	25.40	6.48	4.85	7.94	5.49	5.59	TiCN
1410109500	●	M6 x 1	D11	Modified Bottom (2.5P)	63.50	12.00	25.40	6.48	4.85	7.94	5.49	5.59	Bright
1410109508	●	M6 x 1	D11	Modified Bottom (2.5P)	63.50	12.00	25.40	6.48	4.85	7.94	5.49	5.59	TiCN
1410109600	●	M6 x 1	D12	Modified Bottom (2.5P)	63.50	12.00	25.40	6.48	4.85	7.94	5.49	5.59	Bright

● Stocked ○ Available Upon Request; MOQ May Apply ▲ Globally Stocked

Note: Other coatings are available upon request.



CONTINUED ➔

P					M			K	N		S		H			
Steel					Stainless Steel			Cast Iron	Non-Ferrous		HRSA		Hardened Steel			
Carbon Steel			Alloy Steel	Die Steel					Aluminum		Nickel Alloy	Titanium				
Low	Medium	High			300		400		17-4 PH	6061			Casting	Inconel	6Al4V	~35 HRC
1010 1018	1035 1045	1065	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		
○	○	○	○	○	○	○	○			○	○					
35-100	20-50	15-25	15-25	15-20	15-40	15-40	10-25			50-90	45-100			10-15		

○ Good ○ Best

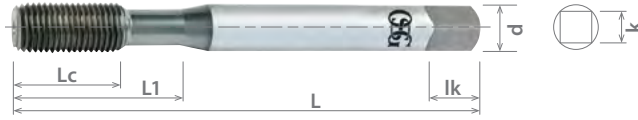




## List 14101 (Continued)

HY-PRO® NRT

FORMING	HSS-Co	BR	S/O	TIN	C/1.5P	C/2.5P	C/4.5P	PACKED 1 PIECE
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ABOUT OSG

DRILLING

THREADING

MILLING

HOLDERS

INDEX

EDP Number	Thread Size	Thread Limit	Chamfer Type	Overall Length	Thread Length	Neck Length	Shank Dia.	Square Width	Square Length	Tap Drill Size		Surface Treatment
				L (mm)	Lc (mm)	L1 (mm)	d (mm)	k (mm)	lk (mm)	Min (mm)	Max (mm)	
1410109608	M6 x 1	D12	Modified Bottom (2.5P)	63.50	12.00	25.40	6.48	4.85	7.94	5.49	5.59	TiCN
1410109700	M6 x 1	D13	Modified Bottom (2.5P)	63.50	12.00	25.40	6.48	4.85	7.94	5.49	5.59	Bright
1410109708	M6 x 1	D13	Modified Bottom (2.5P)	63.50	12.00	25.40	6.48	4.85	7.94	5.49	5.59	TiCN
1410110600	M6 x 1	D14	Modified Bottom (2.5P)	63.50	12.00	25.40	6.48	4.85	7.94	5.49	5.59	Bright
1410110608	M6 x 1	D14	Modified Bottom (2.5P)	63.50	12.00	25.40	6.48	4.85	7.94	5.49	5.59	TiCN
1410104200	M8 x 1.25	D5	Bottom (1.5P)	69.10	15.00	28.60	8.08	6.05	9.53	7.36	7.49	Bright
1410104201	M8 x 1.25	D5	Bottom (1.5P)	69.10	15.00	28.60	8.08	6.05	9.53	7.36	7.49	Steam Oxide
1410104205	M8 x 1.25	D5	Bottom (1.5P)	69.10	15.00	28.60	8.08	6.05	9.53	7.36	7.49	TiN
1410104208	M8 x 1.25	D5	Bottom (1.5P)	69.10	15.00	28.60	8.08	6.05	9.53	7.36	7.49	TiCN
1410104400	M8 x 1.25	D5	Modified Bottom (2.5P)	69.10	15.00	28.60	8.08	6.05	9.53	7.36	7.49	Bright
1410104401	M8 x 1.25	D5	Modified Bottom (2.5P)	69.10	15.00	28.60	8.08	6.05	9.53	7.36	7.49	Steam Oxide
1410104405	M8 x 1.25	D5	Modified Bottom (2.5P)	69.10	15.00	28.60	8.08	6.05	9.53	7.36	7.49	TiN
1410104408	M8 x 1.25	D5	Modified Bottom (2.5P)	69.10	15.00	28.60	8.08	6.05	9.53	7.36	7.49	TiCN
1410104600	M8 x 1.25	D5	Plug (4.5P)	69.10	15.00	28.60	8.08	6.05	9.53	7.36	7.49	Bright
1410104601	M8 x 1.25	D5	Plug (4.5P)	69.10	15.00	28.60	8.08	6.05	9.53	7.36	7.49	Steam Oxide
1410104605	M8 x 1.25	D5	Plug (4.5P)	69.10	15.00	28.60	8.08	6.05	9.53	7.36	7.49	TiN
1410104608	M8 x 1.25	D5	Plug (4.5P)	69.10	15.00	28.60	8.08	6.05	9.53	7.36	7.49	TiCN
1410104300	M8 x 1.25	D9	Bottom (1.5P)	69.10	15.00	28.60	8.08	6.05	9.53	7.36	7.49	Bright
1410104301	M8 x 1.25	D9	Bottom (1.5P)	69.10	15.00	28.60	8.08	6.05	9.53	7.36	7.49	Steam Oxide
1410104305	M8 x 1.25	D9	Bottom (1.5P)	69.10	15.00	28.60	8.08	6.05	9.53	7.36	7.49	TiN
1410104308	M8 x 1.25	D9	Bottom (1.5P)	69.10	15.00	28.60	8.08	6.05	9.53	7.36	7.49	TiCN
1410104500	M8 x 1.25	D9	Modified Bottom (2.5P)	69.10	15.00	28.60	8.08	6.05	9.53	7.36	7.49	Bright
1410104501	M8 x 1.25	D9	Modified Bottom (2.5P)	69.10	15.00	28.60	8.08	6.05	9.53	7.36	7.49	Steam Oxide
1410104505	M8 x 1.25	D9	Modified Bottom (2.5P)	69.10	15.00	28.60	8.08	6.05	9.53	7.36	7.49	TiN
1410104508	M8 x 1.25	D9	Modified Bottom (2.5P)	69.10	15.00	28.60	8.08	6.05	9.53	7.36	7.49	TiCN
1410104700	M8 x 1.25	D9	Plug (4.5P)	69.10	15.00	28.60	8.08	6.05	9.53	7.36	7.49	Bright
1410104701	M8 x 1.25	D9	Plug (4.5P)	69.10	15.00	28.60	8.08	6.05	9.53	7.36	7.49	Steam Oxide
1410104705	M8 x 1.25	D9	Plug (4.5P)	69.10	15.00	28.60	8.08	6.05	9.53	7.36	7.49	TiN
1410104708	M8 x 1.25	D9	Plug (4.5P)	69.10	15.00	28.60	8.08	6.05	9.53	7.36	7.49	TiCN
1410104800	M10 x 1.5	D6	Bottom (1.5P)	74.60	18.00	31.80	9.68	7.26	11.11	9.24	9.39	Bright
1410104801	M10 x 1.5	D6	Bottom (1.5P)	74.60	18.00	31.80	9.68	7.26	11.11	9.24	9.39	Steam Oxide
1410104805	M10 x 1.5	D6	Bottom (1.5P)	74.60	18.00	31.80	9.68	7.26	11.11	9.24	9.39	TiN
1410104808	M10 x 1.5	D6	Bottom (1.5P)	74.60	18.00	31.80	9.68	7.26	11.11	9.24	9.39	TiCN
1410105000	M10 x 1.5	D6	Modified Bottom (2.5P)	74.60	18.00	31.80	9.68	7.26	11.11	9.24	9.39	Bright
1410105001	M10 x 1.5	D6	Modified Bottom (2.5P)	74.60	18.00	31.80	9.68	7.26	11.11	9.24	9.39	Steam Oxide
1410105005	M10 x 1.5	D6	Modified Bottom (2.5P)	74.60	18.00	31.80	9.68	7.26	11.11	9.24	9.39	TiN
1410105008	M10 x 1.5	D6	Modified Bottom (2.5P)	74.60	18.00	31.80	9.68	7.26	11.11	9.24	9.39	TiCN
1410105200	M10 x 1.5	D6	Plug (4.5P)	74.60	18.00	31.80	9.68	7.26	11.11	9.24	9.39	Bright
1410105201	M10 x 1.5	D6	Plug (4.5P)	74.60	18.00	31.80	9.68	7.26	11.11	9.24	9.39	Steam Oxide
1410105205	M10 x 1.5	D6	Plug (4.5P)	74.60	18.00	31.80	9.68	7.26	11.11	9.24	9.39	TiN
1410105208	M10 x 1.5	D6	Plug (4.5P)	74.60	18.00	31.80	9.68	7.26	11.11	9.24	9.39	TiCN
1410109800	M10 x 1.5	D7	Modified Bottom (2.5P)	74.60	18.00	31.80	9.68	7.26	11.11	9.24	9.39	Bright
1410109808	M10 x 1.5	D7	Modified Bottom (2.5P)	74.60	18.00	31.80	9.68	7.26	11.11	9.24	9.39	TiCN
1410109900	M10 x 1.5	D8	Modified Bottom (2.5P)	74.60	18.00	31.80	9.68	7.26	11.11	9.24	9.39	Bright
1410109908	M10 x 1.5	D8	Modified Bottom (2.5P)	74.60	18.00	31.80	9.68	7.26	11.11	9.24	9.39	TiCN
1410110000	M10 x 1.5	D9	Modified Bottom (2.5P)	74.60	18.00	31.80	9.68	7.26	11.11	9.24	9.39	Bright
1410110008	M10 x 1.5	D9	Modified Bottom (2.5P)	74.60	18.00	31.80	9.68	7.26	11.11	9.24	9.39	TiCN
1410104900	M10 x 1.5	D10	Bottom (1.5P)	74.60	18.00	31.80	9.68	7.26	11.11	9.24	9.39	Bright
1410104901	M10 x 1.5	D10	Bottom (1.5P)	74.60	18.00	31.80	9.68	7.26	11.11	9.24	9.39	Steam Oxide
1410104905	M10 x 1.5	D10	Bottom (1.5P)	74.60	18.00	31.80	9.68	7.26	11.11	9.24	9.39	TiN
1410104908	M10 x 1.5	D10	Bottom (1.5P)	74.60	18.00	31.80	9.68	7.26	11.11	9.24	9.39	TiCN
1410105100	M10 x 1.5	D10	Modified Bottom (2.5P)	74.60	18.00	31.80	9.68	7.26	11.11	9.24	9.39	Bright

● Stocked ○ Available Upon Request; MOQ May Apply ▲ Globally Stocked  
 Note: Other coatings are available upon request.





## List 14101 (Continued)

HY-PRO® NRT

FORMING	HSS-Co	BR	S/O	TIN	C/1.5P	C/2.5P	C/4.5P	PACKED 1 PIECE
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EDP Number	Thread Size	Thread Limit	Chamfer Type	Overall Length	Thread Length	Neck Length	Shank Dia.	Square Width	Square Length	Tap Drill Size		Surface Treatment	
				L (mm)	Lc (mm)	L1 (mm)	d (mm)	k (mm)	lk (mm)	Min (mm)	Max (mm)		
1410105101	●	M10 x 1.5	D10	Modified Bottom (2.5P)	74.60	18.00	31.80	9.68	7.26	11.11	9.24	9.39	Steam Oxide
1410105105	●	M10 x 1.5	D10	Modified Bottom (2.5P)	74.60	18.00	31.80	9.68	7.26	11.11	9.24	9.39	TiN
1410105108	●	M10 x 1.5	D10	Modified Bottom (2.5P)	74.60	18.00	31.80	9.68	7.26	11.11	9.24	9.39	TiCN
1410105300	●	M10 x 1.5	D10	Plug (4.5P)	74.60	18.00	31.80	9.68	7.26	11.11	9.24	9.39	Bright
1410105301	●	M10 x 1.5	D10	Plug (4.5P)	74.60	18.00	31.80	9.68	7.26	11.11	9.24	9.39	Steam Oxide
1410105305	●	M10 x 1.5	D10	Plug (4.5P)	74.60	18.00	31.80	9.68	7.26	11.11	9.24	9.39	TiN
1410105308	●	M10 x 1.5	D10	Plug (4.5P)	74.60	18.00	31.80	9.68	7.26	11.11	9.24	9.39	TiCN
1410110100	●	M10 x 1.5	D11	Modified Bottom (2.5P)	74.60	18.00	31.80	9.68	7.26	11.11	9.24	9.39	Bright
1410110108	●	M10 x 1.5	D11	Modified Bottom (2.5P)	74.60	18.00	31.80	9.68	7.26	11.11	9.24	9.39	TiCN
1410110200	●	M10 x 1.5	D12	Modified Bottom (2.5P)	74.60	18.00	31.80	9.68	7.26	11.11	9.24	9.39	Bright
1410110208	●	M10 x 1.5	D12	Modified Bottom (2.5P)	74.60	18.00	31.80	9.68	7.26	11.11	9.24	9.39	TiCN
1410110300	●	M10 x 1.5	D13	Modified Bottom (2.5P)	74.60	18.00	31.80	9.68	7.26	11.11	9.24	9.39	Bright
1410110308	●	M10 x 1.5	D13	Modified Bottom (2.5P)	74.60	18.00	31.80	9.68	7.26	11.11	9.24	9.39	TiCN
1410105400	●	M12 x 1.75	D6	Bottom (1.5P)	85.70	21.00	49.10	9.32	6.99	11.11	11.11	11.29	Bright
1410105401	●	M12 x 1.75	D6	Bottom (1.5P)	85.70	21.00	49.10	9.32	6.99	11.11	11.11	11.29	Steam Oxide
1410105405	●	M12 x 1.75	D6	Bottom (1.5P)	85.70	21.00	49.10	9.32	6.99	11.11	11.11	11.29	TiN
1410105408	●	M12 x 1.75	D6	Bottom (1.5P)	85.70	21.00	49.10	9.32	6.99	11.11	11.11	11.29	TiCN
1410105600	●	M12 x 1.75	D6	Modified Bottom (2.5P)	85.70	21.00	49.10	9.32	6.99	11.11	11.11	11.29	Bright
1410105601	●	M12 x 1.75	D6	Modified Bottom (2.5P)	85.70	21.00	49.10	9.32	6.99	11.11	11.11	11.29	Steam Oxide
1410105605	●	M12 x 1.75	D6	Modified Bottom (2.5P)	85.70	21.00	49.10	9.32	6.99	11.11	11.11	11.29	TiN
1410105608	●	M12 x 1.75	D6	Modified Bottom (2.5P)	85.70	21.00	49.10	9.32	6.99	11.11	11.11	11.29	TiCN
1410105800	●	M12 x 1.75	D6	Plug (4.5P)	85.70	21.00	49.10	9.32	6.99	11.11	11.11	11.29	Bright
1410105801	●	M12 x 1.75	D6	Plug (4.5P)	85.70	21.00	49.10	9.32	6.99	11.11	11.11	11.29	Steam Oxide
1410105805	●	M12 x 1.75	D6	Plug (4.5P)	85.70	21.00	49.10	9.32	6.99	11.11	11.11	11.29	TiN
1410105808	●	M12 x 1.75	D6	Plug (4.5P)	85.70	21.00	49.10	9.32	6.99	11.11	11.11	11.29	TiCN
1410105500	●	M12 x 1.75	D11	Bottom (1.5P)	85.70	21.00	49.10	9.32	6.99	11.11	11.11	11.29	Bright
1410105501	●	M12 x 1.75	D11	Bottom (1.5P)	85.70	21.00	49.10	9.32	6.99	11.11	11.11	11.29	Steam Oxide
1410105505	●	M12 x 1.75	D11	Bottom (1.5P)	85.70	21.00	49.10	9.32	6.99	11.11	11.11	11.29	TiN
1410105508	●	M12 x 1.75	D11	Bottom (1.5P)	85.70	21.00	49.10	9.32	6.99	11.11	11.11	11.29	TiCN
1410105700	●	M12 x 1.75	D11	Modified Bottom (2.5P)	85.70	21.00	49.10	9.32	6.99	11.11	11.11	11.29	Bright
1410105701	●	M12 x 1.75	D11	Modified Bottom (2.5P)	85.70	21.00	49.10	9.32	6.99	11.11	11.11	11.29	Steam Oxide
1410105705	●	M12 x 1.75	D11	Modified Bottom (2.5P)	85.70	21.00	49.10	9.32	6.99	11.11	11.11	11.29	TiN
1410105708	●	M12 x 1.75	D11	Modified Bottom (2.5P)	85.70	21.00	49.10	9.32	6.99	11.11	11.11	11.29	TiCN
1410105900	●	M12 x 1.75	D11	Plug (4.5P)	85.70	21.00	49.10	9.32	6.99	11.11	11.11	11.29	Bright
1410105901	●	M12 x 1.75	D11	Plug (4.5P)	85.70	21.00	49.10	9.32	6.99	11.11	11.11	11.29	Steam Oxide
1410105905	●	M12 x 1.75	D11	Plug (4.5P)	85.70	21.00	49.10	9.32	6.99	11.11	11.11	11.29	TiN
1410105908	●	M12 x 1.75	D11	Plug (4.5P)	85.70	21.00	49.10	9.32	6.99	11.11	11.11	11.29	TiCN

● Stocked ○ Available Upon Request; MOQ May Apply ▲ Globally Stocked

Note: Other coatings are available upon request.



P					M			K	N		S		H			
Steel					Stainless Steel			Cast Iron	Non-Ferrous		HRSA		Hardened Steel			
Carbon Steel			Alloy Steel	Die Steel	Aluminum		Nickel Alloy		Titanium							
Low	Medium	High														
1010	1035	1065	4140	Die Steel	300	400	17-4 PH	6061	Casting	Inconel	6Al4V (30 HRC)	~35 HRC	35-45 HRC	45-50 HRC	50-70 HRC	
1018	1045		4340													
○	○	○	○	○	○	○	○	○	○			○				
35-100	20-50	15-25	15-25	15-20	15-40	15-40	10-25	50-90	45-100			10-15				

○ Good ○ Best

