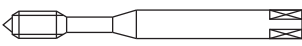
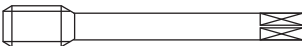
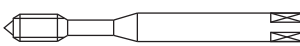
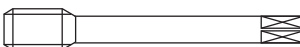
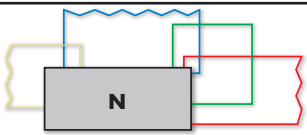
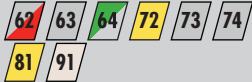
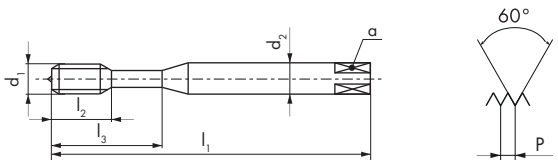


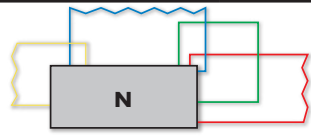
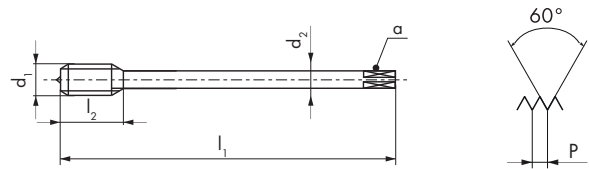
	N						
Caractéristiques Caratteristiche				 V	 TiN	 R15	 R40
							
Genre de trou Tipo di foro							
		N320-3				N350-3	N360-3
DIN longue DIN lungo	DIN 371	124				124	131
ISO courte ISO corto	ISO 529						
Tolérance Tolleranza	ISO 2 6H	124				124	131
Surcote Maggiorazione	ISO 3 6G						131
Tolérance fine Tolleranza fine	ISO 1 4H						
LH Filetage à gauche LH Filettatura sinistra	ISO 2 6H						
	N410-3	N420-3	N420-4	N420V-4	N420TN-4	N450-3	N460-3
DIN longue DIN lungo	DIN 374/~DIN 376	125 - 130	125 - 130	125 - 128	125 - 127	124	132 - 133
ISO courte ISO corto	ISO 529						
Tolérance Tolleranza	ISO 2 6H	125 - 129	125 - 129	125 - 128	125 - 127	124	132 - 133
Surcote Maggiorazione	ISO 3 6G						132
Tolérance fine Tolleranza fine	ISO 1 4H						
Tolérance Tolleranza	7H (EN 60423)	128 - 129					
LH Filetage à gauche LH Filettatura sinistra	ISO 2 6H	130	130				

N					Z			
 R40 V	 R40 TiN				 V	 VS	 R40 V	 R45 VS
								
								
N360V-3	N360TN-3	N1110-1	N1110-3	N1110-S	Z320V-3 Z320V-4	Z320VS-4	Z360V-3	Z370VS-3
131	131				134	134	134	134
		146	146	146				
131	131	146	146	146	134	134	134	134
N460V-3	N460TN-3	N1210-1	N1210-3	N1210-S	Z420V-4	Z420VS-4	Z460V-3	Z470VS-3
132 - 133	132				135	135	135	135
		147 - 148	147 - 148	147 - 148				
132 - 133	132	147 - 148	147 - 148	147 - 148	135	135	135	135

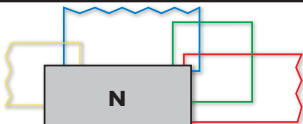
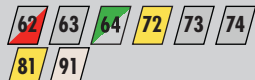
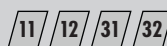
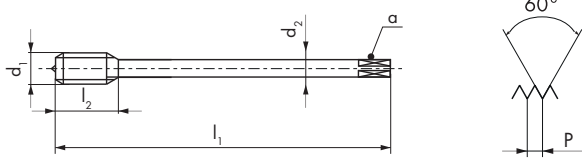
		H		S		SA		
Caractéristiques Caratteristiche		 TiCN	 R25 TiCN	 VS	 R35 VS		 R15	 R10
		 NEW	 NEW					
Genre de trou Tipo di foro								
		H320-4 H320TC-4	H350-3 H350TC-3	S320VS-4	S360VS-3	SA320-4	SA350-3	SA390-3
DIN longue DIN lungo	DIN 371	136	137	138	138	140	140	139
ISO courte ISO corto	ISO 529							
Tolérance Tolleranza	ISO 2 6H	136	137	138	138	140	140	139
Surcote Maggiorazione	ISO 3 6G							
Tolérance fine Tolleranza fine	ISO 1 4H					140	140	
LH Filetage à gauche LH Filettatura sinistra	ISO 2 6H							
		H420-4 H420TC-4	H450-3 H450TC-3	S420VS-4	S460VS-3	SA420-4	SA450-3	
DIN longue DIN lungo	DIN 374/~DIN 376	136	137	138	138	141	141	
ISO courte ISO corto	ISO 529							
Tolérance Tolleranza	ISO 2 6H	136	137	138	138	141	141	
Surcote Maggiorazione	ISO 3 6G							
Tolérance fine Tolleranza fine	ISO 1 4H					141	141	
Tolérance Tolleranza	7H (EN 60423)							
LH Filetage à gauche LH Filettatura sinistra	ISO 2 6H							

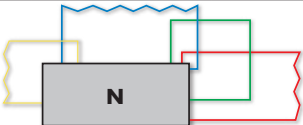
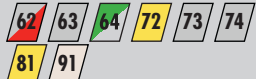
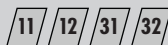
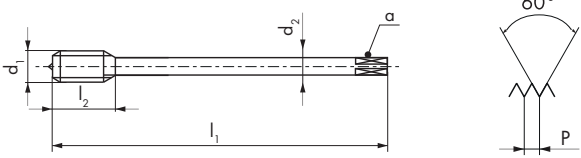
TL		K	QTAP				RTS	
								
VS	VS	TiCN	VS	VS	VS	VS	VS	VS
								
			NEW	NEW	NEW	NEW		
								
TL320VS-4	TL351VS-3	K313TC-3	Q320VS-4	Q323VS-4	Q360VS-3	Q363VS-3	RTS320VS-4	RTS362VS-3
140	140	142	143	143	144	144	145	145
140	140	142	143	143	144	144	145	145
140	140							
TL420VS-4	TL451VS-3	K413TC-3	Q420VS-4	Q423VS-4	Q460VS-3	Q463VS-3	RTS420VS-4	RTS462VS-3
141	141	142	143	143	144	144	145	145
141	141	142	143	143	144	144	145	145
141	141							

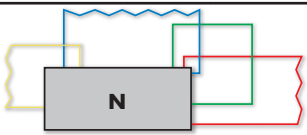
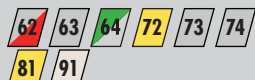
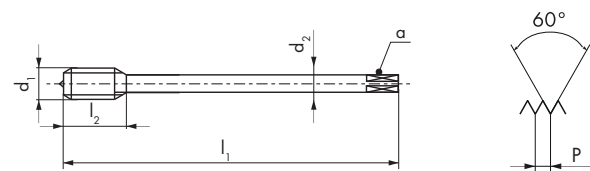
									N320-3		N350-3	N450-3
N320-3												
N350-3												
N450-3												
												
												
$\varnothing d_1$ MF	P mm	l_1 mm	l_2 mm	l_3 mm	d_2 mm	a mm			ID			
2	0.25	45	8		2.8	2.1	2	1.75	● 142689			
2.5	0.35	50	10		2.8	2.1	3	2.15	● 142691			
2.6	0.35	50	10		2.8	2.1	3	2.25	★ 142692			
3	0.35	56	12	18	3.5	2.7	3	2.65	● 142693			
3.5	0.35	56	13	20	4	3	3	3.15	● 142694			
$\varnothing d_1$ MF	P mm	l_1 mm	l_2 mm	l_3 mm	d_2 mm	a mm			ID	ID		
4	0.5	63	14	21	4.5	3.4	2	3.5	● 101586			
5	0.5	70	15	25	6	4.9	3	4.5	● 101588			
6	0.75	80	17	30	6	4.9	3	5.25	● 101590			
8	1	90	20		6	4.9	3	7		● 102326		
9	0.75	90	20		7	5.5	3	8.25		● 102328		
10	1	100	22		7	5.5	3	9		● 102313		
18	1.5	110	26		14	11	4	16.5		★ 102322		
												
									P 0.25			

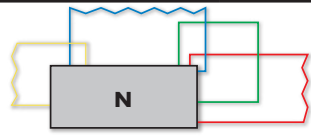
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N410-3											
N420-4											
N420V-4											
N420TN-4											
											
$\emptyset d_1$	P	l_1	l_2	d_2	a			ID	ID	ID	ID
* 4	0.35	63	14	2.8	2.1	3	3.65		• 142695		
4	0.5	63	14	2.8	2.1	3	3.5	• 101923	• 102145	• 142715	
4.5	0.5	70	15	3.5	2.7	3	4		• 102150		
5	0.5	70	15	3.5	2.7	3	4.5	• 101941	• 102167	• 142716	
5	0.75	70	15	3.5	2.7	3	4.25		• 102168		
5.5	0.5	80	17	4	3	3	5		• 142696		
6	0.5	80	17	4.5	3.4	3	5.5	• 101951	• 102178	• 142717	
6	0.75	80	17	4.5	3.4	3	5.25	• 101952	• 102179	• 102281	• 102249
7	0.5	80	17	5.5	4.3	3	6.5		• 102187		
7	0.75	80	17	5.5	4.3	3	6.25	• 101954	• 102188		
8	0.5	90	20	6	4.9	3	7.5	• 101955	• 102190	• 142718	
8	0.75	90	20	6	4.9	3	7.25	• 101956	• 102191	• 102283	
8	1	90	20	6	4.9	3	7	• 101957	• 102192	• 102284	• 102250
9	0.5	90	20	7	5.5	3	8.5		• 142697		
9	0.75	90	20	7	5.5	3	8.25		• 102200		
9	1	90	20	7	5.5	3	8		• 102201	• 143935	
10	0.5	100	22	7	5.5	3	9.5		• 142698		
10	0.75	100	22	7	5.5	3	9.25	• 101863	• 102056		
10	1	100	22	7	5.5	3	9	• 101864	• 102057	• 102262	• 102239
10	1.25	100	22	7	5.5	3	8.8	• 101865	• 102058	• 142719	• 148108
											

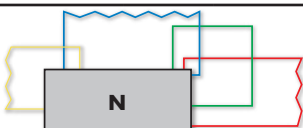
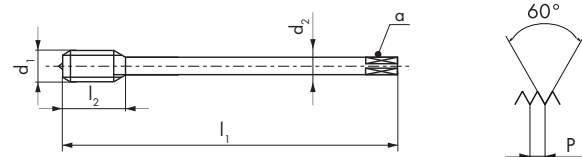
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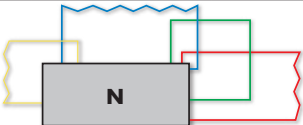
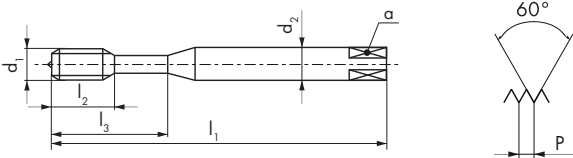
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N410-3											
N420-4											
N420V-4											
N420TN-4											
											
											
Ø d ₁ MF	P mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm			ID	ID	ID	ID
11	0.5	100	19	8	6.2	3	10.5		● 142699		
11	0.75	100	19	8	6.2	3	10.25		● 142700		
11	1	100	19	8	6.2	3	10		● 142701		
11	1.25	100	19	8	6.2	3	9.8		● 142702		
12	0.5	100	14	9	7	3	11.5		● 102066		
12	0.75	100	24	9	7	3	11.25		● 142703		
12	1	100	24	9	7	3	11	● 101867	● 102067	● 142345	● 102241
12	1.25	100	24	9	7	3	10.8	● 101868	● 102068	● 142721	
12	1.5	100	24	9	7	3	10.5	● 101869	● 102069	● 102264	● 102242
13	1	100	21	11	9	3	12	● 158401	● 142704		
14	0.5	100	14	11	9	3	13.5		● 142705		
14	0.75	100	24	11	9	3	13.25		● 142706		
14	1	100	24	11	9	3	13	● 101871	● 102077		
14	1.25	100	24	11	9	3	12.8	● 101872	● 102078		
14	1.5	100	24	11	9	3	12.5	● 101873	● 102079	● 102266	● 102244
15	1	100	26	12	9	3	14	● 101875	● 102085		
15	1.5	100	26	12	9	3	13.5	● 101876	● 102086		
16	0.75	100	26	12	9	3	15.25		● 142708		
16	1	100	26	12	9	* 3	15	● 101877	● 102087		
16	1.25	100	26	12	9	* 3	14.8	● 101878	● 102088		
16	1.5	100	26	12	9	* 3	14.5	● 101879	● 102089	● 102268	● 102246
17	1	100	26	12	9	3	16		● 142709		
17	1.5	100	26	12	9	3	15.5		● 142710		
18	0.75	110	26	14	11	4	17.25		● 142711		
18	1	110	26	14	11	4	17	● 101881	● 102095		
18	1.5	110	26	14	11	4	16.5	● 101882	● 102096	● 102270	● 145350
18	2	125	33	14	11	3	16		● 142712		
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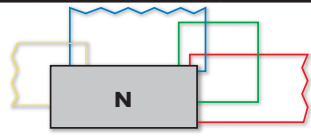
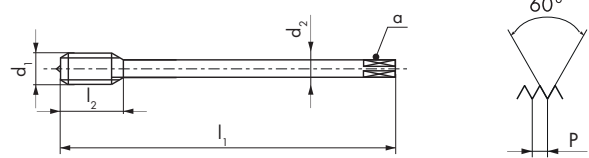
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N410-3											
N420-4											
N420V-4											
N420TN-4											
											
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20	1	125	28	16	12	4	19		• 102098		
20	1.5	125	28	16	12	4	18.5	• 101884	• 102099	• 102272	• 143932
20	2	140	36	16	12	3	18	• 105130	• 102100		
22	1	125	28	18	14.5	4	21		• 102104		
22	1.5	125	28	18	14.5	4	20.5	• 101886	• 102105	• 102274	
22	2	140	36	18	14.5	3	20	• 101887	• 142714		
24	1	140	30	18	14.5	4	23		• 102107		
24	1.5	140	30	18	14.5	4	22.5	• 101889	• 102108	• 102276	
24	2	140	34	18	14.5	4	22	• 101890	• 102109	• 102277	
25	1	140	30	18	14.5	4	24		• 142722		
25	1.5	140	30	18	14.5	4	23.5	• 101892	• 102112		
25	2	140	34	18	14.5	4	23		• 142723		
26	1	140	30	18	14.5	4	25		• 102113		
26	1.5	140	30	18	14.5	4	24.5	• 101893	• 102114	• 145896	
27	1.5	140	34	20	16	4	25.5		• 102115		
27	2	140	34	20	16	4	25	• 101894	• 102116		
28	1	140	30	20	16	4	27		• 142725		
28	1.5	140	30	20	16	4	26.5	• 101896	• 102118		
28	2	140	30	20	16	4	26	• 122023			

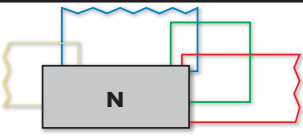
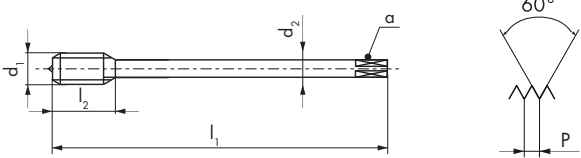
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N410-3											
N420-4											
N420V-4	 										
N420-3											
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30	1	150	32	22	18	4	29	 101898	 102121		
30	1.5	150	32	22	18	4	28.5	 101899	 102122	 143978	
30	2	150	32	22	18	4	28	 101900	 102123	 143766	
32	1	150	32	22	18	4	31	 101902			
32	1.5	150	32	22	18	4	30.5	 101903	 102126		 143812
32	2	150	32	22	18	4	30	 101904	 102127		
33	1.5	160	32	25	20	4	31.5	 101905	 102128		
33	2	160	32	25	20	4	31	 101906	 102129		
34	1.5	170	32	28	22	4	32.5	 101909			
35	1.5	170	32	28	22	4	33.5	 101910	 102132		
35	2	170	32	28	22	4	33	 101911			
36	1.5	170	34	28	22	4	34.5	 101912	 102134		
36	2	170	34	28	22	4	34	 101913	 102135		
36	3	200	45	28	22	4	33	 101914	 102136		
38	1.5	170	34	28	22	4	36.5	 101917	 102139		
38	2	170	34	28	22	4	36	 101918			
39	2	170	34	32	24	4	37	 101920			
39	3	200	45	32	24	4	36	 101921			

								N410-3	N420-4	N420-3	
N410-3		31 62 73 74 91									
N420-4		62 63 64 72 73 74 81 91									
N420-3		62 63 64 72 73 74 81 91									
 								 C 2.5 x P ISO 2 6H	 B 4 x P ISO 2 6H	 2.5 x P ISO 3 7H	
Ø d ₁ MF	P mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm			ID	ID	ID	
40	1	170	34	32	24	5	39	• 101925			
40	1.5	170	34	32	24	5	38.5	• 101926	• 102152	• 143813	
40	2	170	34	32	24	5	38	• 101927	• 102153		
40	3	200	45	32	24	4	37	★ 101928			
42	1.5	170	34	32	24	5	40.5	• 101929	• 102155		
42	2	170	34	32	24	5	40	• 101930	• 102156		
42	3	200	45	32	24	4	39	• 101931	• 102157		
45	1.5	180	34	36	29	5	43.5	• 101933	• 102159		
45	2	180	34	36	29	5	43	• 101934			
45	3	200	45	36	29	4	42	• 101935			
48	1.5	190	36	36	29	5	46.5	• 101937	• 102163		
48	2	190	36	36	29	5	46	• 101938	• 102164		
48	3	220	48	36	29	5	45	• 101939	• 102165		
50	1.5	190	36	36	29	5	48.5	• 101943	• 102176	• 143814	
50	2	190	36	36	29	5	48	• 101944	★ 102177		
52	2	190	36	40	32	5	50	• 101947			
60	2	220	42	45	35	5	58	• 105132			
63	1.5	220	38	45	35	5	61.5			• 143815	

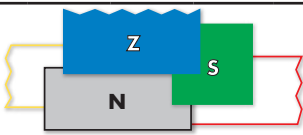
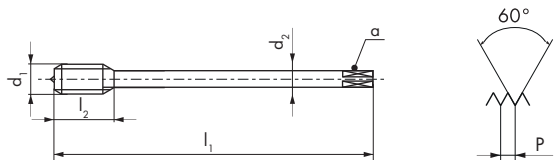
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N410-3 LH  LH 31 62 73 74 91 N420-4 LH  LH 62 63 64 72 73 74 81 91											
											
								 ISO 2 6H	 4 x P ISO 2 6H		
Ø d ₁ MF	P mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm			ID	ID		
4	0.5	63	14	2.8	2.1	3	3.5	● 104844			
5	0.5	70	15	3.5	2.7	3	4.5	● 104845			
6	0.5	80	17	4.5	3.4	3	5.5	● 104846	● 104870		
6	0.75	80	17	4.5	3.4	3	5.25	● 104847	● 105133		
7	0.75	80	17	5.5	4.3	3	6.25	● 104848			
8	0.5	90	20	6	4.9	3	7.5	● 104849			
8	0.75	90	20	6	4.9	3	7.25	● 104850	● 104871		
8	1	90	20	6	4.9	3	7	● 104851	● 104872		
10	0.75	100	22	7	5.5	3	9.25	● 104852			
10	1	100	22	7	5.5	3	9	● 104853	● 104873		
10	1.25	100	22	7	5.5	3	8.8		● 104874		
12	1	100	24	9	7	3	11	● 104854	● 104875		
12	1.25	100	24	9	7	3	10.8	● 104855	● 104876		
12	1.5	100	24	9	7	3	10.5	● 104856	● 104877		
14	1	100	24	11	9	3	13	● 104857	● 104878		
14	1.25	100	24	11	9	3	12.8	● 104858			
14	1.5	100	24	11	9	3	12.5	● 104859	● 104879		
16	1	100	26	12	9	* 3	15	● 104860	● 104880		
16	1.5	100	26	12	9	* 3	14.5	● 104861	● 104881		
18	1	110	26	14	11	4	17	● 104862			
18	1.5	110	26	14	11	4	16.5	● 104863	● 104882		
20	1	125	28	16	12	4	19	● 104864			
20	1.5	125	28	16	12	4	18.5	● 104865	● 104883		
22	1.5	125	28	18	14.5	4	20.5	● 104866	● 104884		
24	1.5	140	30	18	14.5	4	22.5	● 104867	● 104885		
24	2	140	34	18	14.5	4	22	● 104868	● 104886		
28	1.5	140	30	20	16	4	26.5	● 105166			
30	1.5	150	32	22	18	4	28.5	● 105167	● 105165		
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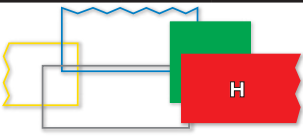
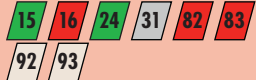
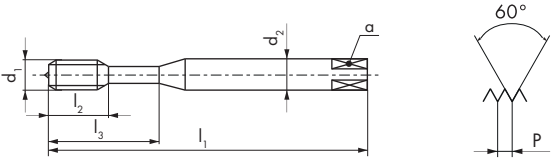
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N360-3  												
N360V-3   												
N360TN-3   												
												
												
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4	0.5	63	7.5	21	4.5	3.4	3	3.5	• 101632	• 101712	• 111618	• 101631 0.020
5	0.5	70	9	25	6	4.9	3	4.5	• 101641	• 101714	• 111617	• 101640 0.020
6	0.5	80	11	30	6	4.9	3	5.5	• 101648	• 143990		
6	0.75	80	11	30	6	4.9	3	5.25	• 101650	• 101716	• 101702	• 101649 0.022
8	0.75	90	12.5	35	8	6.2	3	7.25	• 101658	• 101719		• 101657 0.022
8	1	90	12.5	35	8	6.2	3	7	• 101660	• 101720	• 101704	• 101659 0.026
10	0.75	100	14	39	10	8	3	9.25	• 101606	• 144401		
10	1	100	14	39	10	8	3	9	• 101608	• 101706	• 101695	• 101607 0.026
10	1.25	100	14	39	10	8	3	8.8	• 101609	• 105134	• 110965	

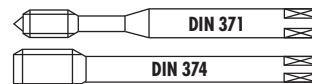
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N460-3  											
N460V-3   											
N460TN-3   											
								 ISO 2 6H	 ISO 2 6H	 ISO 2 6H	 ISO 3 6G
Ø d ₁ MF	P mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm			ID	ID	ID	ID 6H + mm
12	1	100	14	9	7	3	11	• 102353	• 102462	• 102447	• 102352 0.026
12	1.25	100	14	9	7	3	10.8	• 102354	• 102463	• 144202	
12	1.5	100	14	9	7	3	10.5	• 102356	• 102464	• 102448	• 102355 0.032
13	1	100	14	11	9	3	12	• 102364			
14	1	100	14	11	9	3	13	• 102365	• 102466		
14	1.5	100	14	11	9	3	12.5	• 102367	• 102467	• 102450	• 102366 0.032
15	1	100	14	12	9	3	14	• 102370			
15	1.5	100	18	12	9	3	13.5	• 102371			
16	1	100	14	12	9	4	15	• 102372	• 102469		
16	1.5	100	14	12	9	4	14.5	• 102374	• 102470	• 102452	• 102373 0.032
18	1	110	18	14	11	4	17	• 102380	• 143926		
18	1.5	110	18	14	11	4	16.5	• 102382	• 102472	• 145346	• 102381 0.032
20	1	125	20	16	12	4	19	• 102384	• 146377		
20	1.5	125	20	16	12	4	18.5	• 102386	• 102474	• 148780	
20	2	140	24	16	12	4	18	• 102387	• 143566		
22	1	125	20	18	14.5	4	21	• 102392	• 147702		
22	1.5	125	20	18	14.5	4	20.5	• 102393	• 102476		
24	1.5	140	22	18	14.5	4	22.5	• 102396	• 102478		
24	2	140	22	18	14.5	4	22	• 102397	• 102479		
25	1.5	140	22	18	14.5	4	23.5	• 102399	• 143810		
26	1.5	140	22	18	14.5	4	24.5	• 102400	• 143952		
27	1.5	140	22	20	16	4	25.5	• 102401	• 143965		
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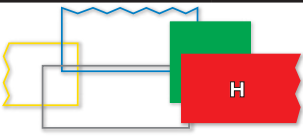
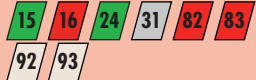
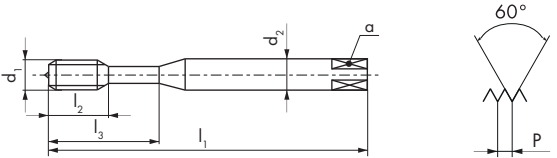
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N460-3  								 			
N460V-3   								 			
								 			
Ø d ₁ MF	P mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm			ID	ID		
30	1.5	150	24	22	18	4	28.5	● 102404	● 142524		
30	2	150	24	22	18	4	28	● 102405	● 142581		
32	1.5	150	24	22	18	4	30.5	● 102406	● 143605		
33	2	160	26	25	20	4	31	● 102407	● 147604		
33	3	180	33	25	20	4	30	● 175437	● 150448		
35	1.5	170	24	28	22	5	33.5	● 102408	● 146846		
36	1.5	170	24	28	22	5	34.5	● 102409	● 143824		
36	2	170	28	28	22	5	34	● 175436	● 164870		
36	3	200	36	28	22	4	33	● 115072	● 150453		
39	3	200	40	32	24	5	36	● 174995	● 122669		
42	3	200	40	32	24	5	39	● 174996	● 150436		

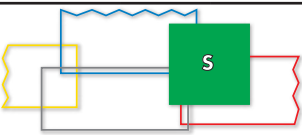
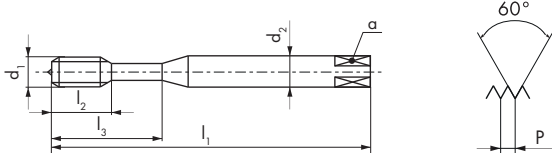
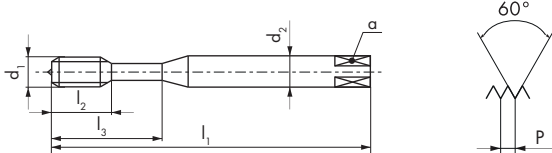
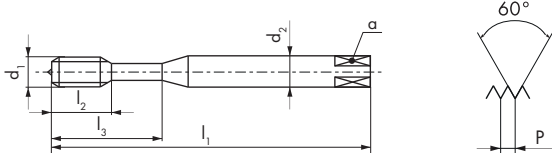
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Z320VS-4		VS	11 12 13 14 21 22 23 32 61 63 94									
Z360V-3		V	12 21 32									
Z370VS-3		VS	CLASSIC	14 15 21 22 23 24 51 61 94								
Z370VS-3		VS	SYNCHRO	13 14 15 21 22 23 24 51 52								PM
									ISO 2 6H	ISO 2 6H	ISO 2 6H	6HX
Ø d ₁ MF	P mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm			ID	ID		
* 3	0.35	56	12	18	3.5	2.7	3	2.65	● 115468			
6	0.75	80	17	30	6	4.9	3	5.25	● 142726	● 123691		
8	1	90	20	35	8	6.2	3	7	● 142727	● 124289		
10	1	100	22	39	10	8	3	9	● 142728	● 120060		
10	1.25	100	22	39	10	8	3	8.8	● 196023	● 196024		
Ø d ₁ MF	P mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm			ID			
4	0.5	63	7.5	21	4.5	3.4	3	3.5		● 104675		
5	0.5	70	9	25	6	4.9	3	4.5		● 104676		
6	0.75	80	11	30	6	4.9	3	5.25		● 104677		
8	1	90	12.5	35	8	6.2	3	7		● 104678		
10	1	100	14	39	10	8	3	9		● 104674		
Ø d ₁ MF	P mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ h6 mm	a mm			ID			
6	0.75	80	11	30	6	4.9	3	5.25		● 166117		
8	1	90	12.5	35	8	6.2	3	7		● 166118		
10	1	100	14	39	10	8	3	9		● 166119		
10	1.25	100	14	39	10	8	3	8.8		● 196020		
* Z320V-3												

								Z420V-4	Z420VS-4	Z460V-3	Z470VS-3	
Z420V-4		V	11 12 13 21 32									
Z420VS-4		VS	11 12 13 14 21 22 23 32 61 63 94									
Z460V-3		V	12 21 32									
Z470VS-3		VS	14 15 21 22 23 24 51 61 94									
Z470VS-3		VS	13 14 15 21 22 23 24 51 52								PM	
												
$\varnothing d_1$ MF	P mm	l_1 mm	l_2 mm	d_2 mm	a mm			ID	ID			
12	1	100	24	9	7	3	11	● 142729				
12	1.5	100	24	9	7	3	10.5	● 142730	● 120421			
14	1.5	100	24	11	9	3	12.5	● 142731	● 120688			
16	1.5	100	26	12	9	3	14.5	● 142732	● 120878			
18	1.5	110	26	14	11	4	16.5	● 196025	● 196027			
20	1.5	125	28	16	12	4	18.5	● 163931	● 196026			
$\varnothing d_1$ MF	P mm	l_1 mm	l_2 mm	d_2 mm	a mm			ID				
12	1	100	14	9	7	3	11	● 104729				
12	1.5	100	14	9	7	3	10.5	● 104730				
14	1.5	100	14	11	9	3	12.5	● 104731				
16	1.5	100	14	12	9	4	14.5	● 104732				
18	1.5	110	18	14	11	4	16.5	● 104733				
20	1.5	125	20	16	12	4	18.5	● 104734				
22	1.5	125	20	18	14.5	4	20.5	● 104735				
24	1.5	140	22	18	14.5	4	22.5	● 104736				
24	2	140	22	18	14.5	4	22	● 104737				
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12	1.5	110	14	* 10	* 8	4	10.5					● 166120
14	1.5	110	14	* 12	* 9	4	12.5					● 166121
16	1.5	110	18	12	9	4	14.5					● 166122
18	1.5	125	21	14	11	4	16.5					● 196021
20	1.5	140	24	16	12	4	18.5					● 196022
* Norme DC / * DC Norm/ * Norma DC												

									H320-4	H420-4	H320TC-4	H420TC-4
H320-4												
H420-4											NEW	NEW
H320TC-4												
H420TC-4												
												
												
Ø d ₁ MF	P mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm			ID	ID	ID	ID
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8	0.75	90	20	35	8	6.2	3	7.25	● 101216			
8	1	90	20	35	8	6.2	3	7	● 101217		● 196036	
10	1	100	22	39	10	8	3	9	● 101204		● 172963	
10	1.25	100	22	39	10	8	3	8.8	● 175213		● 173079	
12	1.25	100	24		9	7	4	10.8		● 101273		
12	1.5	100	24		9	7	4	10.5		● 101274		● 196037
14	1.5	100	24		11	9	4	12.5		● 101276		● 164053
16	1.5	100	26		12	9	4	14.5		● 101278		● 196038
18	1.5	110	26		14	11	4	16.5		● 101280		● 196039
20	1.5	125	28		16	12	4	18.5		● 101282		● 148362
24	2	140	34		18	14.5	4	22		● 101285		



									H350-3	H450-3	H350TC-3	H450TC-3
H350-3  												
H450-3  												
H350TC-3   											NEW	NEW
H450TC-3   												
												
												
Ø d ₁ MF	P mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm			ID	ID	ID	ID
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8	0.75	90	12.5	35	8	6.2	3	7.25	● 101252			
8	1	90	12.5	35	8	6.2	3	7	● 101253		● 150356	
10	1	100	14	39	10	8	3	9	● 101235		● 148753	
10	1.25	100	14	39	10	8	3	8.8	● 145590		● 196034	
12	1	100	14		9	7	4	11		● 101302		
12	1.5	100	14		9	7	4	10.5		● 101303		● 145561
14	1.5	100	14		11	9	4	12.5		● 101306		● 184003
16	1.5	100	14		12	9	4	14.5		● 101308		● 176013
18	1.5	110	18		14	11	4	16.5		● 101310		● 160146
20	1.5	125	20		16	12	4	18.5		● 101312		● 160147
22	1.5	125	20		18	14.5	4	20.5		● 101314		
24	1.5	140	22		18	14.5	4	22.5		● 101316		
24	2	140	22		18	14.5	4	22		● 101317		
27	2	140	22		20	16	4	25		● 101319		
30	1.5	150	24		22	18	4	28.5		● 101321		
30	2	150	24		22	18	4	28		● 101322		

										S320VS-4	S420VS-4	S360VS-3	S460VS-3																																																															
S320VS-4  VS 13 15 16 22 23 24 52 S420VS-4  VS 13 15 16 22 23 24 52 S360VS-3 R35 VS 13 15 16 22 23 24 52 S460VS-3 R35 VS 13 15 16 22 23 24 52																																																																												
										 < 2 x D	 < 2 x D	 < 2 x D	 < 2 x D																																																															
										B 4 x P	B 4 x P	C 2.5 x P	C 2.5 x P																																																															
										6HX	6HX	6HX	6HX																																																															
<table><thead><tr><th>Ø d₁ MF</th><th>P mm</th><th>l₁ mm</th><th>l₂ mm</th><th>l₃ mm</th><th>d₂ mm</th><th>a mm</th><th></th><th></th></tr></thead><tbody><tr><td>6</td><td>0.75</td><td>80</td><td>17</td><td>30</td><td>6</td><td>4.9</td><td>3</td><td>5.25</td></tr><tr><td>8</td><td>1</td><td>90</td><td>20</td><td>35</td><td>8</td><td>6.2</td><td>3</td><td>7</td></tr><tr><td>10</td><td>1</td><td>100</td><td>22</td><td>39</td><td>10</td><td>8</td><td>3</td><td>9</td></tr><tr><td>12</td><td>1.5</td><td>100</td><td>24</td><td></td><td>9</td><td>7</td><td>4</td><td>10.5</td></tr><tr><td>14</td><td>1.5</td><td>100</td><td>24</td><td></td><td>11</td><td>9</td><td>4</td><td>12.5</td></tr><tr><td>16</td><td>1.5</td><td>100</td><td>26</td><td></td><td>12</td><td>9</td><td>4</td><td>14.5</td></tr></tbody></table>										Ø d ₁ MF	P mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm			6	0.75	80	17	30	6	4.9	3	5.25	8	1	90	20	35	8	6.2	3	7	10	1	100	22	39	10	8	3	9	12	1.5	100	24		9	7	4	10.5	14	1.5	100	24		11	9	4	12.5	16	1.5	100	26		12	9	4	14.5	ID	ID		
Ø d ₁ MF	P mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm																																																																						
6	0.75	80	17	30	6	4.9	3	5.25																																																																				
8	1	90	20	35	8	6.2	3	7																																																																				
10	1	100	22	39	10	8	3	9																																																																				
12	1.5	100	24		9	7	4	10.5																																																																				
14	1.5	100	24		11	9	4	12.5																																																																				
16	1.5	100	26		12	9	4	14.5																																																																				
										★ 123690																																																																		
										● 124288																																																																		
										● 120059																																																																		
											● 120420																																																																	
											● 120687																																																																	
											● 120877																																																																	
<table><thead><tr><th>Ø d₁ MF</th><th>P mm</th><th>l₁ mm</th><th>l₂ mm</th><th>l₃ mm</th><th>d₂ mm</th><th>a mm</th><th></th><th></th></tr></thead><tbody><tr><td>8</td><td>1</td><td>90</td><td>12.5</td><td>35</td><td>8</td><td>6.2</td><td>3</td><td>7</td></tr><tr><td>10</td><td>1</td><td>100</td><td>14</td><td>39</td><td>10</td><td>8</td><td>3</td><td>9</td></tr><tr><td>12</td><td>1.5</td><td>100</td><td>14</td><td></td><td>9</td><td>7</td><td>4</td><td>10.5</td></tr><tr><td>14</td><td>1.5</td><td>100</td><td>14</td><td></td><td>11</td><td>9</td><td>4</td><td>12.5</td></tr><tr><td>16</td><td>1.5</td><td>100</td><td>14</td><td></td><td>12</td><td>9</td><td>4</td><td>14.5</td></tr></tbody></table>										Ø d ₁ MF	P mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm			8	1	90	12.5	35	8	6.2	3	7	10	1	100	14	39	10	8	3	9	12	1.5	100	14		9	7	4	10.5	14	1.5	100	14		11	9	4	12.5	16	1.5	100	14		12	9	4	14.5	ID	ID											
Ø d ₁ MF	P mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm																																																																						
8	1	90	12.5	35	8	6.2	3	7																																																																				
10	1	100	14	39	10	8	3	9																																																																				
12	1.5	100	14		9	7	4	10.5																																																																				
14	1.5	100	14		11	9	4	12.5																																																																				
16	1.5	100	14		12	9	4	14.5																																																																				
											● 111528																																																																	
											● 111529																																																																	
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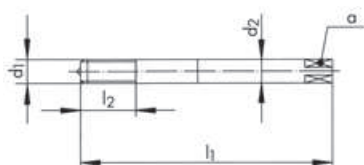
aero

SA390-3



16 53

SA390-3

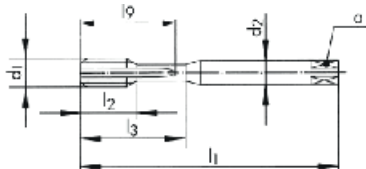


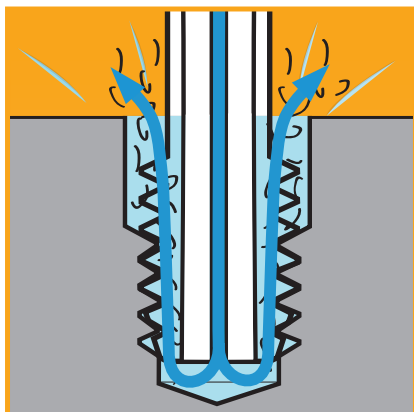
Ø d ₁ MF	P mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm		
10	1	100	30	10	8	3	9
12	1	110	35	12	9	4	11
12	1.5	110	35	12	9	4	10.5
14	1.5	110	40	16	12	4	12.5

ID

★ 149751
★ 149769
★ 149773
★ 149790

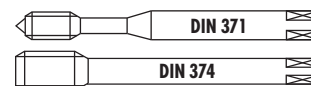
aero								SA420-4	SA450-3	TL420VS-4	TL451VS-3
SA420-4											
SA450-3											
TL420VS-4											
TL451VS-3											
Ø d ₁ MF	P mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm			ID	ID	ID	ID
12	1	100	19	9	7	4	11	★ 152209		★ 152218	
12	1.5	100	24	9	7	4	10.5		★ 152213		
16	1.5	100	26	12	9	4	14.5		★ 152216		★ 152226
Ø d ₁ MF	P mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm			ID	ID	ID	ID
12	1	100	19	9	7	4	11	★ 152228		★ 152237	
12	1.5	100	24	9	7	4	10.5	★ 152227			
14	1.5	100	24	11	9	4	12.5		★ 152233	★ 152238	
16	1	100	23	12	9	4	15				★ 152244
16	1.5	100	26	12	9	4	14.5		★ 152235		

K										K313TC-3	K413TC-3		
K313TC-3  TiCN > 20 bar  11 12 13 14 15 16 31 32 62 63 64 74 83										 			
K413TC-3  TiCN > 20 bar  11 12 13 14 15 16 31 32 62 63 64 74 83										 < 3 x D  < 3 x D			
 										 C 2.5 x P  C 2.5 x P 6HX 6HX			
Ø d ₁ MF	P mm	l ₁ mm	l ₂ mm	l ₃ mm	l ₀ mm	d ₂ mm	a mm			ID	ID		
10	1	100	22	39	37	10	8	3	9	• 175729			
10	1.25	100	22	39	37	10	8	3	8.8	• 196067			
12	1	110	24		42	9	7	3	11		• 175731		
12	1.25	110	24		42	9	7	3	10.8		• 175733		
12	1.5	110	24		42	9	7	3	10.5		• 175735		
14	1.5	110	28		49	11	9	3	12.5		• 175737		
16	1.5	110	30		56	12	9	3	14.5		• 175739		
20	1.5	140	36		70	16	12	5	18.5		• 171205		





PM



QTAP

Q320VS-4



VS

Q420VS-4



VS

Q323VS-4

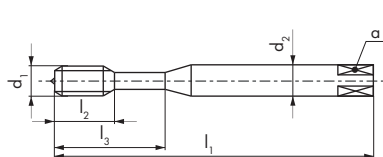


VS

Q423VS-4



VS



Q320VS-4

Q420VS-4

Q323VS-4

Q423VS-4



NEW



NEW



NEW



NEW



ISO 2
6H

ISO 2
6H

ISO 2
6H

ISO 2
6H

Ø d ₁ MF	P mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm		
6	0.75	80	17	30	6	4.9	3	5.25
8	1	90	20	35	8	6.2	3	7
10	1	100	22	39	10	8	3	9
12	1	100	24		9	7	3	11
12	1.5	100	24		9	7	3	10.5
14	1.5	100	24		11	9	3	12.5
16	1.5	100	26		12	9	3	14.5
18	1.5	110	26		14	11	4	16.5
20	1.5	125	28		16	12	4	18.5

ID

ID

ID

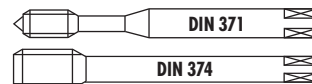
ID

● 197661		● 197684	
● 197662		● 197685	
● 197663		● 197686	
	● 197664		● 197687
	● 197665		● 197688
	● 197666		● 197689
	● 197667		● 197690
	● 197668		● 197691
	● 197669		● 197692



≤ Ø 16 > Ø 16

PM HSSE



QTAP

Q360VS-3



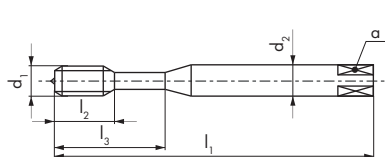
Q460VS-3



Q363VS-3



Q463VS-3



Q360VS-3

Q460VS-3

Q363VS-3

Q463VS-3



NEW



NEW



NEW



NEW



ISO 2 6H

ISO 2 6H

ISO 2 6H

ISO 2 6H

Ø d ₁ MF	P mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm		
4	0.5	63	7.5	21	4.5	3.4	3	3.5
5	0.5	70	9	25	6	4.9	3	4.5
6	0.75	80	11	30	6	4.9	3	5.25
8	1	90	12.5	35	8	6.2	3	7
10	1	100	14	39	10	8	3	9
12	1	100	14		9	7	3	11
12	1.5	100	14		9	7	3	10.5
14	1.5	100	14		11	9	3	12.5
16	1.5	100	14		12	9	4	14.5
18	1.5	110	18		14	11	4	16.5
20	1.5	125	20		16	12	4	18.5
22	1.5	125	20		18	14.5	4	20.5
24	1.5	140	22		18	14.5	4	22.5
24	2	140	22		18	14.5	4	22

ID

ID

ID

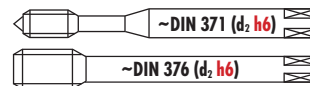
ID

● 197670		● 197693	
● 197671		● 197694	
● 197672		● 197695	
● 197673		● 197696	
● 197674		● 197697	
	● 197675		● 197698
	● 197676		● 197699
	● 197677		● 197700
	● 197678		● 197701
	● 197679		● 197702
	● 197680		● 197703
	● 197681		● 197704
	● 197682		● 197705
	● 197683		● 197706



Uniquement pour taraudage synchro
Nur für Synchrobearbeitung
Only for rigid tapping
Solo per mescolatura sincrona
Solo para roscado sincronizado
Только для rigid tapping

PM



RTS

Rigid Tapping Synchro

RTS320VS-4



VS

RTS420VS-4



VS

RTS362VS-3

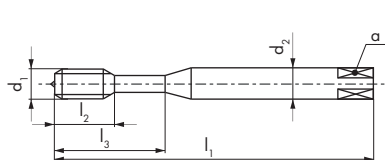


VS

RTS462VS-3



VS



RTS320VS-4

RTS420VS-4

RTS362VS-3

RTS462VS-3



6HX

6HX

6HX

6HX

Ø d₁ MF P mm l₁ mm l₂ mm l₃ mm d₂ h6 mm a mm

8	1	90	12.5	35	8	6.2	3	7
10	1	100	14	39	10	8	3	9
12	1.5	110	14		* 10	* 8	3	10.5
14	1.5	110	14		* 12	* 9	3	12.5
16	1.5	110	18		12	9	3	14.5

* Norme DC / * DC Norm / * Norma DC

ID

ID

- 150615
- 150630

- 150640

- 150655

- 150665

Ø d₁ MF P mm l₁ mm l₂ mm l₃ mm d₂ h6 mm a mm

8	1	90	12.5	35	8	6.2	3	7
10	1	100	14	39	10	8	3	9
12	1.5	110	14		* 10	* 8	3	10.5
14	1.5	110	14		* 12	* 9	3	12.5
16	1.5	110	18		12	9	3	14.5

* Norme DC / * DC Norm / * Norma DC

ID

ID

- 150617
- 150632

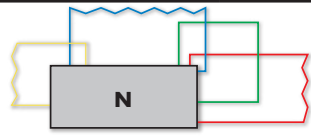
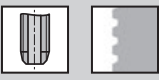
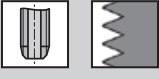
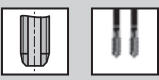
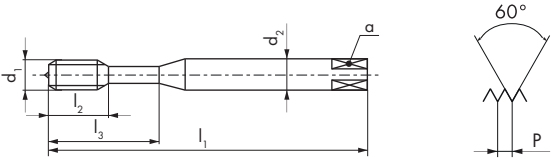
- 151862

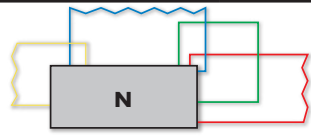
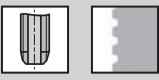
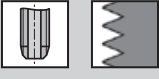
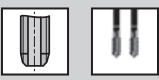
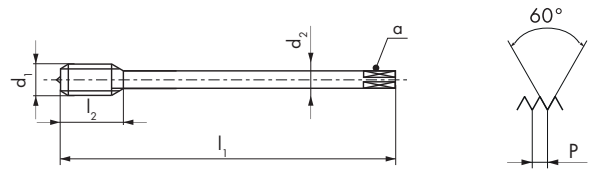
- 151869

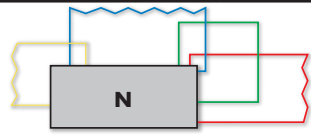
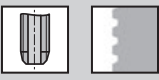
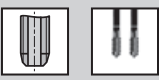
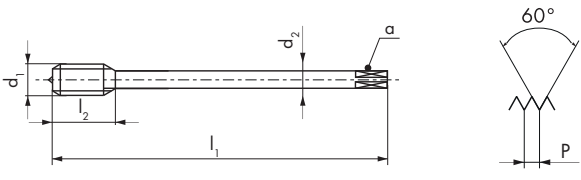
- 151871



sur demande
auf Anfrage
on request
su richiesta
sobre pedido
по запросу

									N1110-1	N1110-3	N1110-S	
N1110-1 												
N1110-3  31 62 73 74 91												
N1110-S 												
									   			
$\varnothing d_1$ MF	P mm	l_1 mm	l_2 mm	l_3 mm	d_2 mm	a mm			ID	ID	ID	
2	0.25	45	8		2.8	2.1	3	1.75		• 102933		
2.2	0.25	45	9.5		2.8	2.1	3	1.95		• 102936		
2.5	0.35	45	9.5		2.8	2.1	3	2.15		• 102940		
3	0.35	48	11	18	3.15	2.5	3	2.65		• 102945		
3.5	0.35	50	13	20	3.55	2.8	3	3.15		• 102949		
4	0.35	53	13	21	4	3.15	3	3.65		• 102952		
4	0.5	53	13	21	4	3.15	3	3.5	• 102773	• 102953	• 111040	
4.5	0.5	53	13	21	4.5	3.55	3	4		• 102958		
5	0.35	58	16	25	5	4	3	4.65		• 102960		
5	0.5	58	16	25	5	4	3	4.5	• 102778	• 102961	• 111045	
5	0.75	58	16	25	5	4	3	4.25		• 102963		
5.5	0.5	62	17	26	5.6	4.5	3	5		• 102967		
6	0.5	66	19	30	6.3	5	3	5.5	• 102783	• 102969	• 111050	
6	0.75	66	19	30	6.3	5	3	5.25	• 102784	• 102971	• 111051	
7	0.5	66	19	30	7.1	5.6	3	6.5		• 102975		
8	0.75	72	22	35	8	6.3	3	7.25	• 102790	• 102982	• 111057	
8	1	72	22	35	8	6.3	3	7	• 102791	• 102984	• 111058	
9	0.5	72	22	36	9	7.1	3	8.5		• 102988		
9	0.75	72	22	36	9	7.1	3	8.25		• 102989		
9	1	72	22	36	9	7.1	3	8		• 102990		
10	0.5	80	24	39	10	8	3	9.5		• 102925		
10	1	80	24	39	10	8	3	9	• 102756	• 102928	• 111024	
10	1.25	80	24	39	10	8	3	8.8	• 102758	• 102930	• 111025	
												
									P 0.25			

								N1210-1	N1210-3	N1210-S	
N1210-1 											
N1210-3  											
N1210-S 											
									 < 1.5 x D	 < 2.5 x D	
								 5 x P	 C 2 x P		
									 ISO 2 6H	 ISO 2 6H	
Ø d ₁ MF	P mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm			ID	ID	ID	
11	0.5	85	22	8	6.3	3	10.5		• 103485		
11	0.75	85	22	8	6.3	3	10.25		• 103486		
11	1	85	22	8	6.3	3	10		• 103487		
11	1.25	85	22	8	6.3	3	9.8		• 103488		
12	0.5	89	24	9	7.1	3	11.5		• 103490		
12	0.75	89	24	9	7.1	3	11.25		• 103491		
12	1	89	24	9	7.1	3	11	• 103305	• 103493	• 111169	
12	1.25	89	24	9	7.1	3	10.8	• 103307	• 103495	• 111171	
12	1.5	89	24	9	7.1	3	10.5	• 103308	• 103497	• 111172	
14	0.5	95	24	11.2	9	3	13.5		• 103502		
14	0.75	95	24	11.2	9	3	13.25		• 103503		
14	1	95	24	11.2	9	3	13	• 103312	• 103504	• 111175	
14	1.25	95	24	11.2	9	3	12.8	• 103314	• 103506	• 111177	
14	1.5	95	24	11.2	9	3	12.5	• 103315	• 103508	• 111178	
15	0.75	90	23	11.2	9	3	14.25		• 103512		
15	1	90	23	11.2	9	3	14		• 103513		
16	0.5	102	32	12.5	10	4	15.5		• 103515		
16	0.75	102	32	12.5	10	4	15.25		• 103516		
16	1	102	32	12.5	10	4	15	• 103321	• 103517	• 111183	
16	1.5	102	32	12.5	10	4	14.5	• 103322	• 103520	• 111184	
17	1	95	23	12.5	10	4	16		• 103525		
18	0.75	112	30	14	11.2	4	17.25		• 103527		
18	1	112	30	14	11.2	4	17	• 103326	• 103528	• 111187	
18	1.5	112	30	14	11.2	4	16.5	• 103327	• 103531	• 111188	
18	2	112	30	14	11.2	3	16		• 103533		
19	1	112	33	14	11.2	4	18		• 103536		

								N1210-1	N1210-3	N1210-S
N1210-1  N1210-3  N1210-S 										
									 < 1.5 x D	 < 2.5 x D
								 5 x P	 c 2 x P	 ISO 2 6H
Ø d ₁ MF	P mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm			ID	ID	ID
20	1	112	37	14	11.2	4	19	• 103332	• 103537	• 111198
20	1.25	112	37	14	11.2	4	18.8		• 103539	
20	1.5	112	37	14	11.2	4	18.5	• 103334	• 103540	• 111195
22	1	115	32	16	12.5	4	21		• 103545	
22	1.5	115	32	16	12.5	4	20.5	• 103340	• 103546	• 121669
22	2	115	32	16	12.5	3	20		• 103548	
24	1	120	30	18	14	4	23		• 103552	
24	1.5	120	30	18	14	4	22.5	• 103343	• 103553	• 111202
24	2	130	45	18	14	4	22	• 103344	• 103555	• 111203
25	1	120	30	18	14	4	24		• 103559	
25	1.5	120	30	18	14	4	23.5		• 103560	
25	2	120	30	18	14	4	23		• 103561	
26	1	120	30	18	14	4	25		• 103562	
26	1.5	120	30	18	14	4	24.5	• 103346	• 103563	• 111207
26	2	120	30	18	14	4	24		• 103564	
27	1	127	30	20	16	4	26		• 103565	
27	1.5	127	30	20	16	4	25.5		• 103566	
27	2	135	45	20	16	4	25	* 103351	* 103567	* 111210
28	1	127	30	20	16	4	27		• 103570	
28	1.5	127	30	20	16	4	26.5		• 103571	
30	1.5	127	32	20	16	4	28.5	• 103355	• 103575	• 111214
30	2	127	32	20	16	4	28	• 103356	• 103577	• 111215