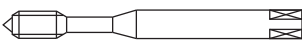
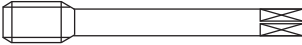
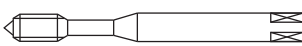
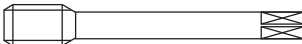
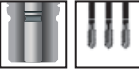


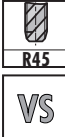
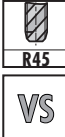
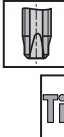
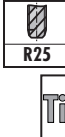
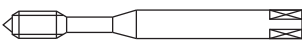
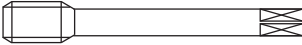
		N						
Caractéristiques Caratteristiche				 V	 TiN	 TiCN	 	 V
					 			
Genre de trou Tipo di foro								
		N310-3	N320-3 N320-4	N320V-3 N320V-4	N320TN-3/-4 N320TC-3/-4	N321-3 N321-4	N330-3 N330-4	N330V-3 N330V-4
DIN longue DIN lungo	DIN 371	60 / 62	62 / 64	60 / 64	64	70	70	70
Extra-longue Extra-lungo	DC							
ISO courte ISO corto	ISO 529							
DIN courte DIN corto	DIN 352							
Tolérance Tolleranza	ISO 2 6H	60 / 62	62 / 64	60 / 64	64	70	70	70
Surcote Maggiorazione	ISO 3 6G		68	68				
Surcote Maggiorazione	7G		68					
Surcote Maggiorazione	+ 0.10 mm + 0.20 mm		68					
Tolérance fine Tolleranza fine	ISO 1 4H		66					
LH Filetage à gauche LH Filettatura sinistra	ISO 2 6H	62	66	66				
		N410-3	N420-4	N420V-4	N420TN-4 N420TC-4	N421-4	N430-4	N430V-4
DIN longue DIN lungo	DIN 376	63	65	65	65	71	71	71
Extra-longue Extra-lungo	DC							
ISO courte ISO corto	ISO 529							
DIN courte DIN corto	DIN 352							
Tolérance Tolleranza	ISO 2 6H	63	65	65	65	71	71	71
Surcote Maggiorazione	ISO 3 6G		69	69				
Surcote Maggiorazione	7G		69					
Surcote Maggiorazione	+ 0.10 mm + 0.20 mm		69 / 71					
Tolérance fine Tolleranza fine	ISO 1 4H		67					
LH Filetage à gauche LH Filettatura sinistra	ISO 2 6H	63	67	67				

N

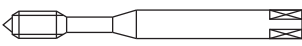
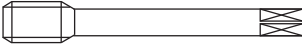
 R15 	 R40	 R40 	 R40  	 R40  V 	 R40 	 R40  		 V
								
								
N350-3 N350V-3	N360-3	N360V-3	N360TN-3 N360TC-3	N360-5 N360V-5	N361-3	N362V-3	N520-4	N520V-4
72	74	60 / 74	74	80	80	80		
							82	82
72	74	60 / 74	74	80	80	80	82	82
	76	76						
	78	78						
	78	78						
	78							
	76	76						
N450-3 N450V-3	N460-3	N460V-3	N460TN-3 N460TC-3	N460-5 N460V-5	N461-3	N462V-3	N620-4	N620V-4
73	75	75	75	81	81	81		
							83	83
73	75	75	75	81	81	81	83	83
	77	77						
	79	79						
	79	79						
	79							
	77	77						

		N												
Caractéristiques Caratteristiche			TiN		R40	V		R40	TiN			R40		
														
Genre de trou Tipo di foro														
		N520TN-4		N560-3		N560V-3		N560TN-3		N1120-4		N1160-3		N1110 -1 -2 -3 -S
DIN longue DIN lungo	DIN 371													
Extra-longue Extra-lungo	DC	82		84		84		84						
ISO courte ISO corto	ISO 529									118		118		60 / 114
DIN courte DIN corto	DIN 352													
Tolérance Tolleranza	ISO 2 6H	82		84		84		84		118		118		60 / 114
Surcote Maggiorazione	ISO 3 6G													
Surcote Maggiorazione	7G													
Surcote Maggiorazione	+ 0.10 mm + 0.20 mm													
Tolérance fine Tolleranza fine	ISO 1 4H													
LH Filetage à gauche LH Filettatura sinistra	ISO 2 6H													
		N620TN-4		N660-3		N660V-3		N660TN-3		N1220-4		N1260-3		N1210 -1 -2 -3 -S
DIN longue DIN lungo	DIN 376													
Extra-longue Extra-lungo	DC	83		85		85		85						
ISO courte ISO corto	ISO 529									118		118		60 / 115
DIN courte DIN corto	DIN 352													
Tolérance Tolleranza	ISO 2 6H	83		85		85		85		118		118		60 / 115
Surcote Maggiorazione	ISO 3 6G													
Surcote Maggiorazione	7G													
Surcote Maggiorazione	+ 0.10 mm + 0.20 mm													
Tolérance fine Tolleranza fine	ISO 1 4H													
LH Filetage à gauche LH Filettatura sinistra	ISO 2 6H													

N	W				Z			
 		 DLC	 R40	 R40 DLC	 V	 VS	 R40 V	 R40 VS
 NEW								
								
NP110-S -1 -2 -3 -S	W320-3 W320-4	W320DL-3 W320DL-4	W360-3	W360DL-3	Z320V-3 Z320V-4	Z320VS-4	Z360V-3 Z362V-3	Z360VS-3 Z362VS-3
	86	86	87	87	88	88	89	90
116								
116	86	86	87	87	88	88	89	90
NP210-S -1 -2 -3 -S	W420-4	W420DL-4	W460-3	W460DL-3	Z420V-4	Z420VS-4	Z462V-3	Z462VS-3
	86	86	87	87	88	88	89	91
117								
117	86	86	87	87	88	88	89	91

		Z		ZX	H		S	
Caractéristiques Caratteristiche								
				 NEW	 	 		
Genre de trou Tipo di foro								
		Z370VS-3	Z373VS-3	ZX320-4	H320-4 H320TC-4	H350-3 H350TC-3	S320VS-4	S360VS-3
DIN longue DIN lungo	DIN 371	90	90	93	94	96	98	99
Extra-longue Extra-lungo	DC							
ISO courte ISO corto	ISO 529							
DIN courte DIN corto	DIN 352							
Tolérance Tolleranza	ISO 2 6H	90	90	93	94	96	98	99
Surcote Maggiorazione	ISO 3 6G					96		
Surcote Maggiorazione	7G							
Surcote Maggiorazione	+ 0.10 mm + 0.20 mm							
Tolérance fine Tolleranza fine	ISO 1 4H	90					98	
LH Filetage à gauche LH Filettatura sinistra	ISO 2 6H							
		Z470VS-3	Z473VS-3	ZX420-4	H420-4 H420TC-4	H450-3 H450TC-3	S420VS-4	S460VS-3
DIN longue DIN lungo	DIN 376	91	91	93	95	97	98	99
Extra-longue Extra-lungo	DC							
ISO courte ISO corto	ISO 529							
DIN courte DIN corto	DIN 352							
Tolérance Tolleranza	ISO 2 6H	91	91	93	95	97	98	99
Surcote Maggiorazione	ISO 3 6G					97		
Surcote Maggiorazione	7G							
Surcote Maggiorazione	+ 0.10 mm + 0.20 mm							
Tolérance fine Tolleranza fine	ISO 1 4H							
LH Filetage à gauche LH Filettatura sinistra	ISO 2 6H							

SA			TL		GG			
								
								
								
SA320-4	SA350-3	SA390-3	TL320VS-4	TL351VS-3	GG350NV-3	GG350TC-3	GG353TC-3	GG550NV-3
100	100	99	100	100	102	102	102	102
100	100	99	100	100	102	102	102	102
100	100	99	100	100				
SA420-4	SA450-3		TL420VS-4	TL451VS-3	GG450NV-3	GG450TC-3	GG453TC-3	GG650NV-3
101	101		101	101	103	103	103	103
101	101		101	101	103	103	103	103
101	101		101	101				

		K			QTAP			
Caractéristiques Caratteristiche		 TiCN	 TiCN	 VS	 VS	 VS	 R40	 R40
					 NEW	 NEW	 NEW	 NEW
Genre de trou Tipo di foro								
		K313TC-3			Q320VS-4	Q323VS-4	Q360VS-3	Q363VS-3
DIN longue DIN lungo	DIN 371	104			61 / 106	106	61 / 107	107
Extra-longue Extra-lungo	DC							
ISO courte ISO corto	ISO 529							
DIN courte DIN corto	DIN 352							
Tolérance Tolleranza	ISO 2 6H	104			61 / 106	106	61 / 107	107
Surcote Maggiorazione	ISO 3 6G							
Surcote Maggiorazione	7G							
Surcote Maggiorazione	+ 0.10 mm + 0.20 mm							
Tolérance fine Tolleranza fine	ISO 1 4H							
LH Filetage à gauche LH Filettatura sinistra	ISO 2 6H							
		K413TC-3	K613TC-3	K613VS-3	Q420VS-4	Q423VS-4	Q460VS-3	Q463VS-3
DIN longue DIN lungo	DIN 376	104			106	106	107	107
Extra-longue Extra-lungo	DC		105	105				
ISO courte ISO corto	ISO 529							
DIN courte DIN corto	DIN 352							
Tolérance Tolleranza	ISO 2 6H	104	105	105	106	106	107	107
Surcote Maggiorazione	ISO 3 6G							
Surcote Maggiorazione	7G							
Surcote Maggiorazione	+ 0.10 mm + 0.20 mm							
Tolérance fine Tolleranza fine	ISO 1 4H							
LH Filetage à gauche LH Filettatura sinistra	ISO 2 6H							

RTS							
 VS	 VS	 R40 VS	 R40 VS	 R40 E 1.5xP VS	 R40 E 1.5xP VS	 VS	 R40 VS
							
							
RTS320VS-4	RTS323VS-4	RTS360VS-3 RTS362VS-3	RTS365VS-3	RTS362VS-5	RTS365VS-5	RTS523VS-4	RTS565VS-3
108	108	109	109	111	111		
						112	112
108	108	109	109	111	111	112	112
		110					
		110					
RTS420VS-4	RTS423VS-4	RTS462VS-3	RTS465VS-3			RTS623VS-4	RTS665VS-3
108	108	109	109				
						112	112
108	108	109	109			112	112
		110					
		110					

Assortiments de tarauds

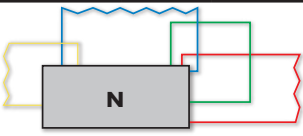
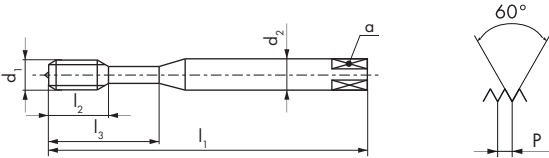
Assortimenti di maschi

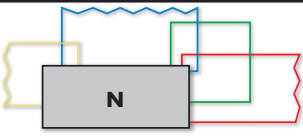
BOXSET					D5855	D5860	D5891
D5855			N1110-S N1210-S	M3, M4, M5, M6, M8, M10, M12			
D5860			N1110-S N1210-S	M3, M4, M5, M6, M8, M10, M12			
			FO DIN 338 FO DIN 338	D2.5, 3.3, 4.2, 5.0, 6.8, 8.5, 10.2			
D5891			N310-3 N410-3	M3, M4, M5, M6, M8, M10, M12			
No D5855 / D5860 / D5891					ID	ID	ID
M3 - M12					● 118728	● 118733	● 170922
BOXSET					D5892		
D5892				N320V-4 M3, M4, M5, M6, M8, M10			
							
No D5892					ID		
M3 - M10					● 170921		
BOXSET					D5896		
D5896				N360V-3 M3, M4, M5, M6, M8, M10			
							
No D5896					ID		
M3 - M10					● 167599		

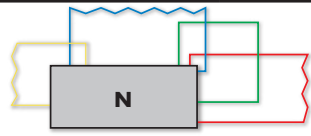
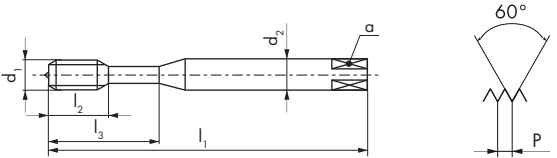
Assortiments de tarauds — QTAP
Assortimenti di maschi — QTAP

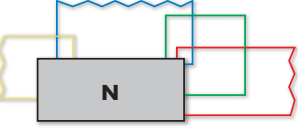
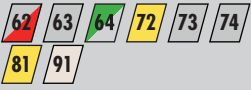
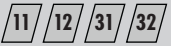
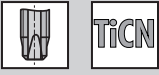
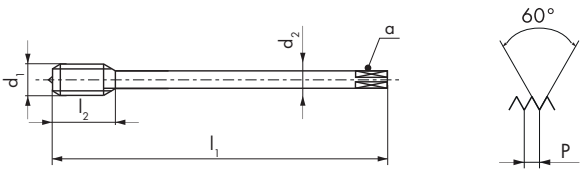


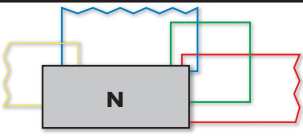
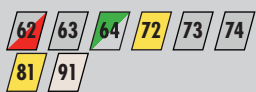
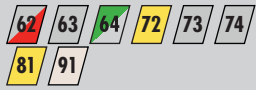
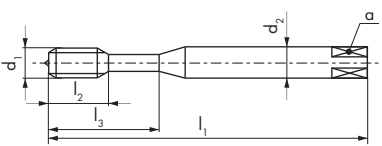
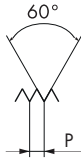
BOXSET	D5893
Q320VS-4     VS M3, M4, M5 M6, M8, M10	 NEW
No D5893	ID
M3 - M10	● 197104
BOXSET	D5897
Q360VS-3     VS M3, M4, M5 M6, M8, M10	 NEW
No D5897	ID
M3 - M10	● 197105

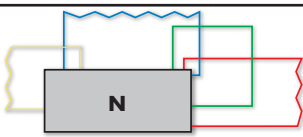
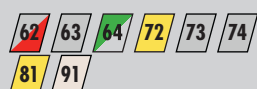
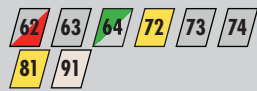
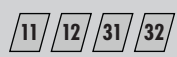
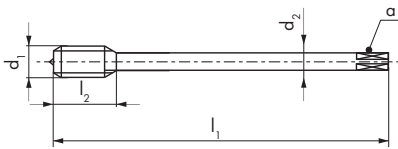
									N310-3	N310-3 LH	N320-3	
N310-3  												
N310-3 LH  LH 												
N320-3  												
									  			
									  			
									  			
Ø d ₁ M	P mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm			ID	ID	ID	
1	0.25	40	5.5		2.5	2.1	3	0.75	● 150167			
1.1	0.25	40	5.5		2.5	2.1	3	0.85	● 174745			
1.2	0.25	40	5.5		2.5	2.1	3	0.95	● 150168			
1.4	0.3	40	7		2.5	2.1	3	1.1	● 150169			
1.5	0.3	40	7		2.5	2.1	3	1.2	● 174752			
1.6	0.35	40	8		2.5	2.1	3	1.25	● 174753			
1.7	0.35	40	8		2.5	2.1	3	1.35	● 174754			
1.8	0.35	40	8		2.5	2.1	3	1.45	● 174755			
2	0.4	45	8		2.8	2.1	3	1.6	● 101439	● 111460		
2.2	0.45	45	9		2.8	2.1	3	1.75	● 174756			
2.3	0.4	45	9		2.8	2.1	3	1.9	● 174757			
2.5	0.45	50	10		2.8	2.1	3	2.05	● 101440	● 111461		
2.6	0.45	50	10		2.8	2.1	3	2.15	● 101441			
3	0.5	56	12	18	3.5	2.7	3	2.5	● 101442	● 111462		
3.5	0.6	56	13	20	4	3	3	2.9	● 101443			
4	0.7	63	14	21	4.5	3.4	3	3.3	● 101444	● 111464		
5	0.8	70	15	25	6	4.9	* 3	4.2	● 101445	● 111465	* 101465	
6	1	80	17	30	6	4.9	* 3	5	● 101446	● 111466	* 101466	
8	1.25	90	20	35	8	6.2	3	6.8	● 101447			
10	1.5	100	22	39	10	8	3	8.5	● 101438			
* N320-3 =  2												

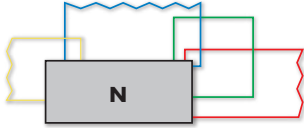
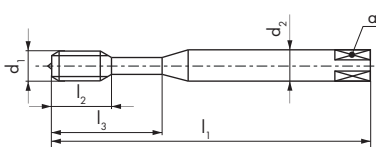
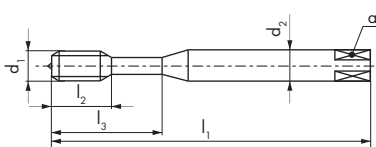
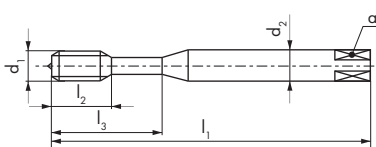
								N410-3	N410-3 LH		
N410-3  31 62 73 74 91								 			
N410-3 LH  LH 31 62 73 74 91								 			
 								 2.5 x P	 2.5 x P	 ISO 2 6H	 ISO 2 6H
Ø d ₁ M	P mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm			ID	ID		
3	0.5	56	12	2.2	1.8	3	2.5	• 101897			
4	0.7	63	14	2.8	2.1	3	3.3	• 101924			
5	0.8	70	15	3.5	2.7	3	4.2	• 101942			
6	1	80	17	4.5	3.4	3	5	• 101953			
7	1	80	17	5.5	4.3	3	6	• 142645	• 111491		
8	1.25	90	20	6	4.9	3	6.8	• 101958	• 111492		
10	1.5	100	22	7	5.5	3	8.5	• 101866	• 111478		
12	1.75	110	24	9	7	3	10.2	• 101870	• 111479		
14	2	110	28	11	9	3	12	• 101874	• 111480		
16	2	110	30	12	9	3	14	• 101880	• 111481		
18	2.5	125	33	14	11	3	15.5	• 101883	• 111482		
20	2.5	140	36	16	12	3	17.5	• 101885	• 125530		
22	2.5	140	36	18	14.5	3	19.5	★ 101888			
24	3	160	39	18	14.5	4	21	• 101891	• 111485		
27	3	160	42	20	16	4	24	• 101895	• 111486		
30	3.5	180	45	22	18	4	26.5	• 101901	• 111487		
33	3.5	180	48	25	20	4	29.5	★ 101907			
36	4	200	51	28	22	4	32	• 101915	• 111488		
39	4	200	55	32	24	4	35	• 101922			
42	4.5	200	55	32	24	4	37.5	• 101932			
48	5	250	63	36	29	4	43	• 111489			
56	5.5	280	71	45	35	5	50.5	• 111447			

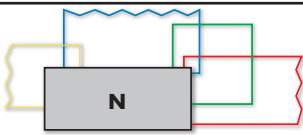
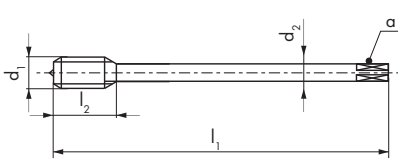
									N320-4	N320V-4	N320TN-4	N320TC-4
N320-4												
N320V-4												
N320TN-4												
N320TC-4												
												
$\varnothing d_1$ M	P mm	l_1 mm	l_2 mm	l_3 mm	d_2 mm	a mm			ISO 2 6H	ISO 2 6H	ISO 2 6H	ISO 2 6H
* 1	0.25	40	5.5		2.5	2.1	2	0.75	● 111467			
* 1.1	0.25	40	5.5		2.5	2.1	2	0.85	● 111468			
* 1.2	0.25	40	5.5		2.5	2.1	2	0.95	● 111469			
* 1.4	0.3	40	7		2.5	2.1	2	1.1	● 111470			
* 1.5	0.3	40	7		2.5	2.1	2	1.2	● 111471			
* 1.6	0.35	40	8		2.5	2.1	2	1.25	● 101454			
* 1.7	0.35	40	8		2.5	2.1	2	1.35	● 101455			
* 1.8	0.35	40	8		2.5	2.1	2	1.45	● 101456			
* 2	0.4	45	8		2.8	2.1	2	1.6	● 101458	● 101536	● 101528	● 152900
* 2.2	0.45	45	9		2.8	2.1	2	1.75	● 101459			
* 2.3	0.4	45	9		2.8	2.1	2	1.9	● 101460			
2.5	0.45	50	10		2.8	2.1	3	2.05	● 101483	● 101545	● 101530	● 101522
2.6	0.45	50	10		2.8	2.1	3	2.15	● 101484			
3	0.5	56	12	18	3.5	2.7	3	2.5	● 101485	● 101546	● 101531	● 101523
3.5	0.6	56	13	20	4	3	3	2.9	● 101491	● 101547		
4	0.7	63	14	21	4.5	3.4	3	3.3	● 101495	● 101548	● 101532	● 101524
5	0.8	70	15	25	6	4.9	3	4.2	● 101499	● 101549	● 101533	● 101525
6	1	80	17	30	6	4.9	3	5	● 101503	● 101550	● 101534	● 101526
8	1.25	90	20	35	8	6.2	3	6.8	● 101506	● 101551	● 101535	● 101527
10	1.5	100	22	39	10	8	3	8.5	● 101481	● 101544	● 101529	● 101521
* N320-3 / N320V-3 N320TN-3 / N320TC-3 									ISO 1 4H	ISO 1 4H	ISO 1 4H	ISO 1 4H

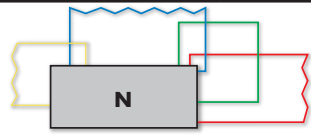
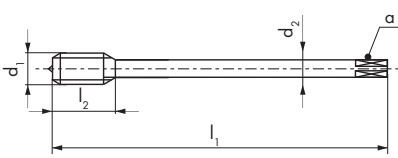
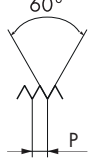
								N420-4	N420V-4	N420TN-4	N420TC-4
N420-4  											
N420V-4  											
N420TN-4  											
N420TC-4  											
											
											
Ø d ₁ M	P mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm			ID	ID	ID	ID
3	0.5	56	12	2.2	1.8	3	2.5	• 102119	• 143418		
4	0.7	63	14	2.8	2.1	3	3.3	• 102146	• 102279		
5	0.8	70	15	3.5	2.7	3	4.2	• 102171	• 102280	• 146297	
6	1	80	17	4.5	3.4	3	5	• 102182	• 102282	• 147439	
7	1	80	17	5.5	4.3	3	6	• 102189	• 144713		
8	1.25	90	20	6	4.9	3	6.8	• 102195	• 102285	• 102251	• 102233
9	1.25	90	20	7	5.5	3	7.8	• 102202			
10	1.5	100	22	7	5.5	3	8.5	• 102061	• 102263	• 102240	• 102228
11	1.5	100	19	8	6.2	3	9.5	• 162770			
12	1.75	110	24	9	7	3	10.2	• 102072	• 102265	• 102243	• 102229
14	2	110	28	11	9	3	12	• 102081	• 102267	• 102245	
16	2	110	30	12	9	3	14	• 102090	• 102269	• 102247	• 102231
18	2.5	125	33	14	11	3	15.5	• 102097	• 102271		
20	2.5	140	36	16	12	3	17.5	• 102101	• 102273	• 102248	• 102232
22	2.5	140	36	18	14.5	3	19.5	• 102106	• 102275		
24	3	160	39	18	14.5	4	21	• 102110	• 102278	• 144220	• 163736
27	3	160	42	20	16	4	24	• 102117	• 143856		
30	3.5	180	45	22	18	4	26.5	• 102124	• 105124		
33	3.5	180	48	25	20	4	29.5	• 102130	• 146968		
36	4	200	51	28	22	4	32	• 102137	• 143430		
39	4	200	55	32	24	4	35	• 102144	• 158724		
42	4.5	200	55	32	24	4	37.5	• 102158	• 143107		
45	4.5	220	59	36	29	4	40.5	• 110225	• 159565		
48	5	250	63	36	29	4	43	• 110226	• 157517		
56	5.5	280	71	45	35	5	50.5	• 110229	• 158178		

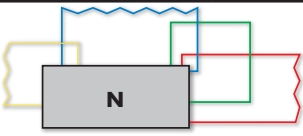
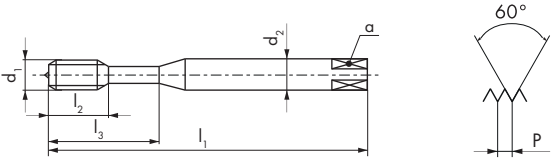
									N320-4	N320-4 LH	N320V-4 LH	
N320-4  												
N320-4 LH  LH 												
N320V-4 LH  V LH 												
 									 4 x P	 4 x P	 4 x P	
									ISO 1 4H	ISO 2 6H	ISO 2 6H	
Ø d₁ M	P mm	l₁ mm	l₂ mm	l₃ mm	d₂ mm	a mm			ID	ID	ID	
* 2	0.4	45	8		2.8	2.1	2	1.6	● 162503	● 111472	● 162771	
2.5	0.45	50	10		2.8	2.1	3	2.05	● 159345			
3	0.5	56	12	18	3.5	2.7	3	2.5	● 101487	● 111473	● 162772	
4	0.7	63	14	21	4.5	3.4	3	3.3	● 101493	● 111474	● 162773	
5	0.8	70	15	25	6	4.9	3	4.2	● 101497	● 111475	● 162774	
6	1	80	17	30	6	4.9	3	5	● 101501	● 111476	● 162775	
10	1.5	100	22	39	10	8	3	8.5	★ 146484			
* N320-3 / N320V-3  2.5 x P												

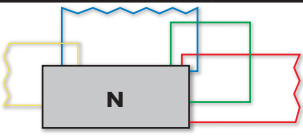
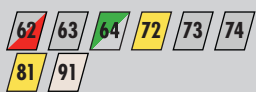
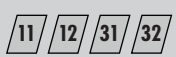
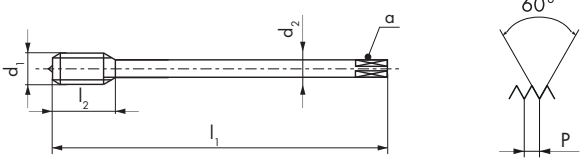
								N420-4	N420-4 LH	N420V-4 LH	
N420-4											
N420-4 LH											
N420V-4 LH											
 								 ISO 1 4H	 ISO 2 6H	 ISO 2 6H	
Ø d ₁ M	P mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm			ID	ID	ID	
8	1.25	90	20	6	4.9	3	△6.8	● 102193	● 102198	● 142621	
10	1.5	100	22	7	5.5	3	8.5	● 102059	● 102064	● 143287	
12	1.75	110	24	9	7	3	10.2	● 102070	● 102040	● 146583	
14	2	110	28	11	9	3	12		● 102084	● 146563	
16	2	110	30	12	9	3	14		● 102093	● 143108	
20	2.5	140	36	16	12	3	17.5		● 102103	● 145579	
24	3	160	39	18	14.5	4	21		● 111493	● 145578	

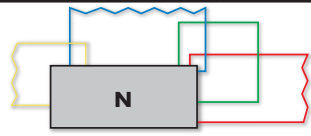
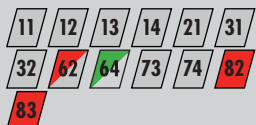
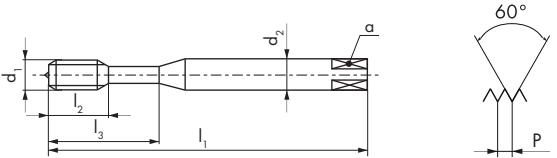
									N320-4	N320V-4	N320-4	N320-4			
N320-4  626364727374 8191 N320V-4  V 11123132															
 															
 															
 															
Ø d ₁ M	P mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm			ID	6H + mm	ID	6H + mm	ID	6H + mm	ID
* 2	0.4	45	8		2.8	2.1	2	1.6	● 101457	0.019	● 143584	0.019			
2.5	0.45	50	10		2.8	2.1	3	2.05	● 101482	0.020	● 150522	0.020			
3	0.5	56	12	18	3.5	2.7	3	2.5	● 101486	0.020	● 143116	0.020	● 101489	0.036	● 101488
3.5	0.6	56	13	20	4	3	3	2.95	● 101490	0.021					
4	0.7	63	14	21	4.5	3.4	3	3.35	● 101494	0.022	● 143087	0.022	● 101496	0.041	● 111522
5	0.8	70	15	25	6	4.9	3	4.25	● 101498	0.024	● 143088	0.024	● 101500	0.044	● 111523
6	1	80	17	30	6	4.9	3	5	● 101502	0.026	● 143089	0.026	● 101504	0.050	● 111524
8	1.25	90	20	35	8	6.2	3	6.8	● 101505	0.028	● 143604	0.028			
* N320-3 / N320V-3 															

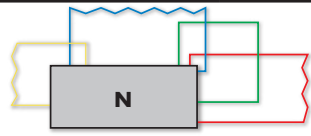
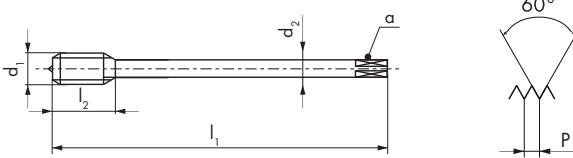
								N420-4	N420V-4	N420-4	N420-4			
N420-4  626364727374 8191 N420V-4  V 11123132								   						
														
 								 ISO 3 6G	 ISO 3 6G	 7G	 6H +0.1 mm			
Ø d ₁ M	P mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm		 6H	ID	6H + mm	ID	6H + mm	ID	6H + mm	ID
8	1.25	90	20	6	4.9	3	6.8	• 102194	0.028	• 145246	0.028	• 102199	0.052	• 102196
10	1.5	100	22	7	5.5	3	8.5	• 102060	0.032	• 143726	0.032	• 102065	0.060	• 102062
12	1.75	110	24	9	7	3	10.3	• 102071	0.034	• 145655	0.034	• 102076	0.066	• 102073
16	2	110	30	12	9	3	14	• 135531	0.038	• 162795	0.038	• 102094	0.072	• 102091

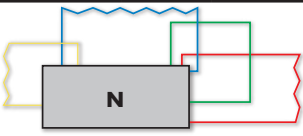
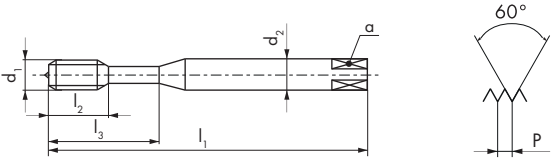
								N420-4	N421-4	N430-4	N430V-4
N420-4  											
N421-4   											
N430-4  											
N430V-4   											
											
											
Ø d ₁ M	P mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm			ID	ID	ID	ID
4	0.7	63	14	2.8	2.1	3	3.3		• 102293		
5	0.8	70	15	3.5	2.7	3	4.2		• 102294		
6	1	80	17	4.5	3.4	3	5		• 102295		
8	1.25	90	20	6	4.9	3	6.8	• 102197	• 102296	• 102301	• 102306
10	1.5	100	22	7	5.5	3	8.5	• 102063	• 102286	• 102297	• 102302
12	1.75	110	24	9	7	3	10.2	• 102074	• 102287	• 102298	• 102303
16	2	110	30	12	9	3	14	• 102092	• 102289		

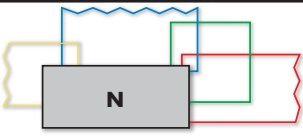
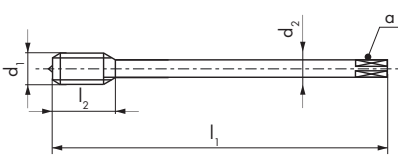
									N350-3	N350V-3		
N350-3  62 63 64 72 73 74 81 91 N350V-3   11 12 31 32									 			
									  			
									 	 		
Ø d ₁ M	P mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm			ID	ID		
2	0.4	45	8		2.8	2.1	2	1.6	• 101580	• 101593		
2.3	0.4	45	9		2.8	2.1	2	1.9	• 101581			
2.5	0.45	50	10		2.8	2.1	2	2.05	• 101582	• 101594		
2.6	0.45	50	10		2.8	2.1	2	2.15	• 101583			
3	0.5	56	12	18	3.5	2.7	2	2.5	• 101584	• 101595		
3.5	0.6	56	13	20	4	3	2	2.9	• 101585			
4	0.7	63	14	21	4.5	3.4	2	3.3	• 101587	• 101596		
5	0.8	70	15	25	6	4.9	3	4.2	• 101589	• 101597		
6	1	80	17	30	6	4.9	3	5	• 101591	• 101598		
8	1.25	90	20	35	8	6.2	3	6.8	• 101592	• 146810		
10	1.5	100	22	39	10	8	3	8.5	• 101579	• 147217		

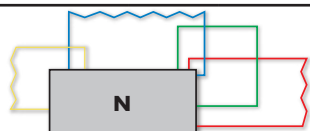
								N450-3	N450V-3		
N450-3  								 			
N450V-3   								  			
								   			
Ø d ₁ M	P mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm			ID	ID		
8	1.25	90	20	6	4.9	3	6.8	• 102327	• 102334		
10	1.5	100	22	7	5.5	3	8.5	• 102314	• 102329		
12	1.75	110	24	9	7	3	10.2	• 102317	• 102330		
14	2	110	28	11	9	3	12	• 102319	• 145487		
16	2	110	30	12	9	3	14	• 102321	• 102331		
20	2.5	140	36	16	12	4	17.5	• 102324	• 102332		
24	3	160	39	18	14.5	4	21	• 102325	• 102333		

									N360-3	N360V-3	N360TN-3	N360TC-3
N360-3  												
N360V-3   												
N360TN-3   												
N360TC-3   												
												
												
$\varnothing d_1$ M	P mm	l_1 mm	l_2 mm	l_3 mm	d_2 mm	a mm			ID	ID	ID	ID
2	0.4	45	7		2.8	2.1	2	1.6	● 101618	● 101708	● 101697	● 146842
2.2	0.45	45	8		2.8	2.1	2	1.75	● 101619			
2.3	0.4	45	8		2.8	2.1	2	1.9	● 101620			
2.5	0.45	50	9		2.8	2.1	2	2.05	● 101622	● 101709	● 101698	● 101689
2.6	0.45	50	9		2.8	2.1	2	2.15	● 101623	● 101710		
3	0.5	56	5.5	18	3.5	2.7	3	2.5	● 101626	● 101711	● 101699	● 101690
3.5	0.6	56	6.5	20	4	3	3	2.9	● 101630	● 142625		
4	0.7	63	7.5	21	4.5	3.4	3	3.3	● 101635	● 101713	● 101700	● 101691
4.5	0.75	70	9	25	6	4.9	3	3.75	● 101639			
5	0.8	70	9	25	6	4.9	3	4.2	● 101644	● 101715	● 101701	● 101692
6	1	80	11	30	6	4.9	3	5	● 101652	● 101717	● 101703	● 101693
7	1	80	11	30	7	5.5	3	6	● 101656	● 101718		
8	1.25	90	12.5	35	8	6.2	3	6.8	● 101663	● 101721	● 101705	● 101694
9	1.25	90	12.5	35	9	7	3	7.8	● 101668			
10	1.5	100	14	39	10	8	3	8.5	● 101612	● 101707	● 101696	● 101688

								N460-3	N460V-3	N460TN-3	N460TC-3
N460-3  63 72 73 74 81 91											
N460V-3   11 12 32											
N460TN-3   11 12 13 14 32											
N460TC-3   11 12 13 14 21 31 32 62 64 73 74 82 83											
											
											
Ø d ₁ M	P mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm			ID	ID	ID	ID
5	0.8	70	9	3.5	2.7	3	4.2	• 102410	• 102489	• 160682	
6	1	80	11	4.5	3.4	3	5	• 102411	• 102491	• 152850	
8	1.25	90	12.5	6	4.9	3	6.8	• 102412	• 102492	• 152849	
10	1.5	100	14	7	5.5	3	8.5	• 102351	• 102461	• 150242	• 158687
12	1.75	110	14	9	7	3	10.2	• 102359	• 102465	• 102449	• 102438
14	2	110	14	11	9	3	12	• 102369	• 102468	• 102451	• 111615
16	2	110	18	12	9	3	14	• 102376	• 102471	• 102453	• 102440
18	2.5	125	21	14	11	3	15.5	• 102383	• 102473		
20	2.5	140	24	16	12	4	17.5	• 102389	• 102475	• 102454	• 143280
22	2.5	140	24	18	14.5	4	19.5	• 102394	• 102477		
24	3	160	27	18	14.5	4	21	• 102398	• 102480	• 143119	• 150018
27	3	160	27	20	16	4	24	• 175423	• 102481		
30	3.5	180	30	22	18	4	26.5	• 150246	• 102482		
33	3.5	180	33	25	20	4	29.5	• 167621	• 102483		
36	4	200	36	28	22	5	32	• 143914	• 102484		
39	4	200	40	32	24	5	35	• 175424	• 102485		
42	4.5	200	40	32	24	5	37.5	• 169122	• 102486		
45	4.5	220	44	36	29	5	40.5		• 102487		
48	5	250	48	36	29	5	43		• 102488		
52	5	250	52	40	32	5	47		• 110228		
56	5.5	280	56	45	35	6	50.5		• 102490		
64	6	315	64	50	39	6	58		• 143805		

									N360-3 LH	N360V-3 LH	N360-3	N360V-3
N360-3 LH  LH       N360V-3 LH  V LH    N360-3        N360V-3  V   												
												
												
												
Ø d ₁ M	P mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm			ID	ID	ID 6H + mm	ID 6H + mm
2	0.4	45	7		2.8	2.1	2	1.6			● 101617 0.019	● 146000 0.019
2.5	0.45	50	9		2.8	2.1	2	2.05			● 101621 0.020	● 143294 0.020
3	0.5	56	5.5	18	3.5	2.7	3	2.5	● 101627	● 146811	● 101625 0.020	● 104816 0.020
3.5	0.6	56	6.5	20	4	3	3	2.95			● 101629 0.021	● 125829 0.021
4	0.7	63	7.5	21	4.5	3.4	3	3.3	● 101637	● 162540	● 101634 0.022	● 104817 0.022
5	0.8	70	9	25	6	4.9	3	4.2	● 101646	● 144003	● 101643 0.024	● 104818 0.024
6	1	80	11	30	6	4.9	3	5	● 101654	● 144004	● 101669 0.026	● 104819 0.026
8	1.25	90	12.5	35	8	6.2	3	6.8	● 101666	● 143925	● 101662 0.028	● 104820 0.028
10	1.5	100	14	39	10	8	3	8.5	● 101615	● 143587	● 101611 0.032	● 104821 0.032

								N460-3 LH	N460V-3 LH	N460-3	N460V-3
N460-3 LH  LH       N460V-3 LH  V LH    N460-3        N460V-3  V   											
											
 											
$\emptyset d_1$ M	P mm	l_1 mm	l_2 mm	d_2 mm	a mm			ID	ID	ID $6H$ + mm	ID $6H$ + mm
12	1.75	110	14	9	7	3	10.2	• 102362	• 146354	• 102358 0.034	• 143602 0.034
14	2	110	14	11	9	3	12			• 102368 0.038	• 144712 0.038
16	2	110	18	12	9	3	14	• 102378	• 143439	• 102375 0.038	• 150197 0.038
20	2.5	140	24	16	12	4	17.5	• 102390	• 146564	• 102388 0.042	• 145420 0.042



N360-3

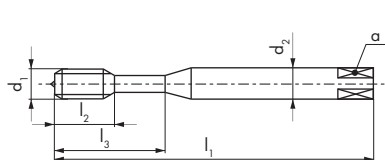


63 72 73 74 81 91

N360V-3



11 12 32



N360-3

N360-3

N360V-3



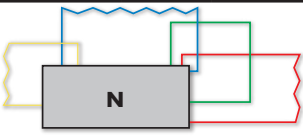
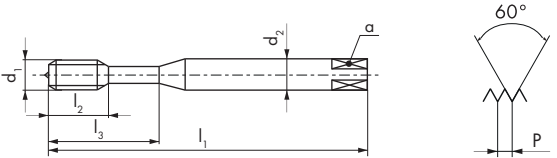
$\varnothing d_1$ M	P mm	l_1 mm	l_2 mm	l_3 mm	d_2 mm	a mm		
3	0.5	56	5.5	18	3.5	2.7	3	2.5
4	0.7	63	7.5	21	4.5	3.4	3	3.3
5	0.8	70	9	25	6	4.9	3	4.2
6	1	80	11	30	6	4.9	3	5
8	1.25	90	12.5	35	8	6.2	3	$\Delta 6.8$
10	1.5	100	14	39	10	8	3	8.5

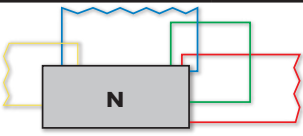
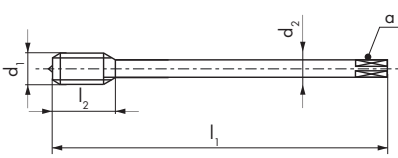
ID	ID	6H + mm	ID	6H + mm
• 101624	• 101628	0.036	• 144311	0.036
• 101633	• 101638	0.041	• 144192	0.041
• 101642	• 101647	0.044	• 143208	0.044
• 101651	• 101655	0.050	• 146709	0.050
• 101661	• 101667	0.052	• 146267	0.052
• 101610	• 101616	0.060	• 142547	0.060

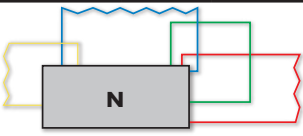
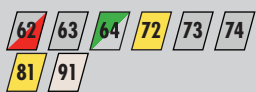
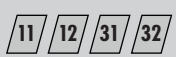
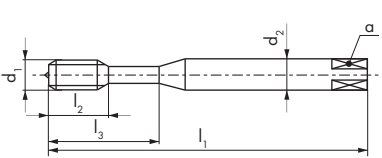
$\varnothing d_1$ M	P mm	l_1 mm	l_2 mm	l_3 mm	d_2 mm	a mm		
3	0.5	56	5.5	18	3.5	2.7	3	2.6
4	0.7	63	7.5	21	4.5	3.4	3	3.4
5	0.8	70	9	25	6	4.9	3	4.3
6	1	80	11	30	6	4.9	3	5.1
8	1.25	90	12.5	35	8	6.2	3	6.9
10	1.5	100	14	39	10	8	3	8.6

ID	ID
• 160847	• 146513
• 101636	• 146046
• 101645	• 145559
• 101653	• 143415
• 101664	• 124917
• 101613	

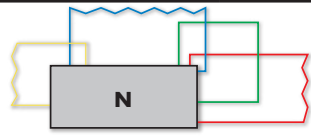
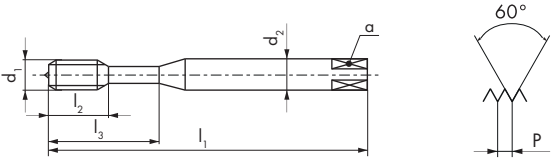
Δ ISO 1
4H = 6.70

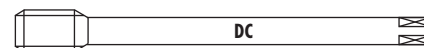
									N360-5	N360V-5	N361-3	N362V-3
N360-5												
N360V-5												
N361-3												
N362V-3												
												
												
Ø d ₁ M	P mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm			ID	ID	ID	ID
2	0.4	45	7		2.8	2.1	2	1.6	● 158079	● 150058		
3	0.5	56	5.5	18	3.5	2.7	3	2.5	● 104809	● 142646	● 101735	
4	0.7	63	7.5	21	4.5	3.4	3	3.3	● 104810	● 142647	● 101736	● 101741
5	0.8	70	9	25	6	4.9	3	4.2	● 104811	● 142648	● 101737	● 101742
6	1	80	11	30	6	4.9	3	5	● 104812	● 142649	● 101738	● 101743
8	1.25	90	12.5	35	8	6.2	3	6.8	● 104813	● 142650	● 101739	● 101744
10	1.5	100	14	39	10	8	3	8.5	● 104814	● 124899	● 101734	● 101740

								N460-5	N460V-5	N461-3	N462V-3
N460-5  											
N460V-5   											
N461-3   											
N462V-3    											
 											
											
Ø d ₁ M	P mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm			ID	ID	ID	ID
12	1.75	110	14	9	7	3	10.2	● 104815	● 142651	● 102506	● 102512
14	2	110	14	11	9	3	12				● 102513
16	2	110	18	12	9	3	14				● 102514
18	2.5	125	21	14	11	3	15.5			★ 111614	● 102515
20	2.5	140	24	16	12	4	17.5				● 102516
24	3	160	27	18	14.5	4	21				● 102517
27	3	160	27	20	16	4	24				● 159244
30	3.5	180	30	22	18	4	26.5				● 143090

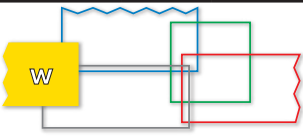
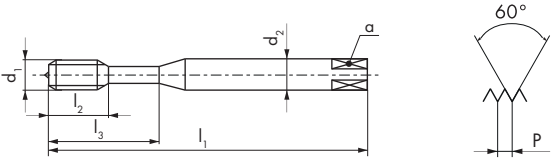
									N520-4	N520V-4	N520TN-4	
N520-4  												
N520V-4   												
N520TN-4   												
												
												
Ø d ₁ M	P mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm			ID	ID	ID	
2.5	0.45	100	10		2.8	2.1	3	2.05	● 102594	● 142623		
3	0.5	112	12	18	3.5	2.7	3	2.5	● 102595	● 143399	● 162790	
4	0.7	112	14	21	4.5	3.4	3	3.3	● 102596	● 143400	● 146837	
5	0.8	125	15	25	6	4.9	3	4.2	● 102597	● 142654	● 150113	
6	1	125	17	30	6	4.9	3	5	● 102598	● 143137	● 148821	

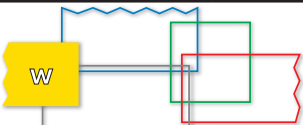
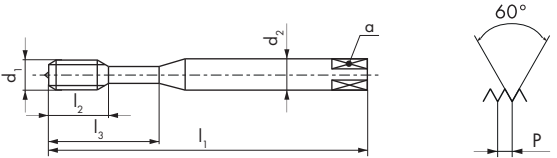
83

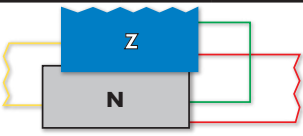
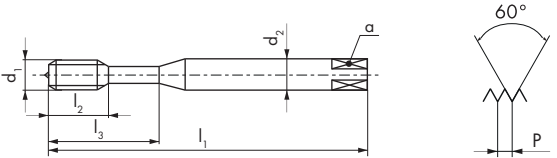
									N560-3	N560V-3	N560TN-3	
N560-3  												
N560V-3   												
N560TN-3   												
									 	 	 	
$\varnothing d_1$ M	P mm	l_1 mm	l_2 mm	l_3 mm	d_2 mm	a mm			ID	ID	ID	
2.5	0.45	100	9		2.8	2.1	2	2.05	● 102600	● 102607		
3	0.5	112	5.5	18	3.5	2.7	3	2.5	● 102601	● 102608	● 142663	
4	0.7	112	7.5	21	4.5	3.4	3	3.3	● 102602	● 102609	● 142664	
5	0.8	125	9	25	6	4.9	3	4.2	● 102603	● 102610	● 142665	
6	1	125	11	30	6	4.9	3	5	● 102604	● 102611	● 142666	
8	1.25	140	12.5	35	8	6.2	3	6.8	● 102605	● 102612	● 142667	
10	1.5	160	14	39	10	8	3	8.5	● 102599	● 102606	● 142668	

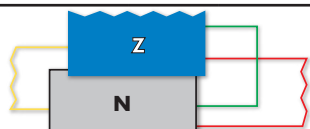


								N660-3	N660V-3	N660TN-3	
N660-3 63 72 73 74 81 91 N660V-3 11 12 32 N660TN-3 11 12 13 14 32											
$\emptyset d_1$ M	P mm	l_1 mm	l_2 mm	d_2 mm	a mm			ID	ID	ID	
6	1	125	11	4.5	3.4	3	5	● 162792	● 115657		
8	1.25	140	12.5	6	4.9	3	6.8	● 162793	● 115544		
10	1.5	160	14	7	5.5	3	8.5	● 162794	● 135539	● 173484	
12	1.75	180	14	9	7	3	10.2	● 102623	● 102626	● 142669	
14	2	180	14	11	9	3	12	● 162253	● 147500		
16	2	200	18	12	9	3	14	● 102624	● 102627	● 142670	
20	2.5	224	24	16	12	4	17.5	● 102625	● 102628	● 178003	

									W320-4	W420-4	W320DL-4	W420DL-4
W320-4  71 72 81												
W420-4  71 72 81												
W320DL-4  DLC 71 72 73												
W420DL-4  DLC 71 72 73												
									 4 x P ISO 2 6H	 4 x P ISO 2 6H	 4 x P ISO 2 6H	 4 x P ISO 2 6H
$\emptyset d_1$ M	P mm	l_1 mm	l_2 mm	l_3 mm	d_2 mm	a mm			ID	ID	ID	ID
* 2	0.4	45	8		2.8	2.1	2	1.6	● 104612		● 176688	
2.5	0.45	50	10		2.8	2.1	2	2.05	● 104613		● 176689	
3	0.5	56	12	18	3.5	2.7	2	2.5	● 104615		● 176690	
4	0.7	63	14	21	4.5	3.4	2	3.3	● 104617		● 176691	
5	0.8	70	15	25	6	4.9	2	4.2	● 104618		● 176354	
6	1	80	17	30	6	4.9	2	5	● 104619		● 175590	
8	1.25	90	20		6	4.9	2	6.8		● 104636		● 176692
10	1.5	100	22		7	5.5	2	8.5		● 104632		● 176693
12	1.75	110	24		9	7	3	10.2		● 104633		● 176694
16	2	110	30		12	9	3	14		● 104634		● 176695
* W320-3  * W320DL-3  2.5 x P												

									W360-3	W460-3	W360DL-3	W460DL-3
W360-3  71 72 81												
W460-3  71 72 81												
W360DL-3  DLC 71 72 73												
W460DL-3  DLC 71 72 73												
									 ISO 2 6H	 ISO 2 6H	 ISO 2 6H	 ISO 2 6H
Ø d ₁ M	P mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm			ID	ID	ID	ID
2	0.4	45	7		2.8	2.1	2	1.6	● 104625		● 176719	
2.5	0.45	50	9		2.8	2.1	2	2.05	● 104626		● 176720	
3	0.5	56	5.5	18	3.5	2.7	2	2.5	● 104627		● 176721	
4	0.7	63	7.5	21	4.5	3.4	2	3.3	● 104628		● 176722	
5	0.8	70	9	25	6	4.9	2	4.2	● 104629		● 176723	
6	1	80	11	30	6	4.9	2	5	● 104630		● 176355	
8	1.25	90	12.5	35	8	6.2	2	6.8	● 104631		● 176724	
10	1.5	100	14	39	10	8	2	8.5	● 104624		● 176725	
12	1.75	110	14		9	7	3	10.2		● 104640		● 176726
16	2	110	18		12	9	3	14		● 104641		● 176727

									Z320V-4	Z420V-4	Z320VS-4	Z420VS-4
Z320V-4		V	11	12	13	21	32					
Z420V-4		V	11	12	13	21	32					
Z320VS-4		VS	11	12	13	14	21	22				
Z420VS-4		VS	11	12	13	14	21	22				
												
									ISO 2 6H	ISO 2 6H	ISO 2 6H	ISO 2 6H
Ø d ₁ M	P mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm			ID	ID	ID	ID
* 1.6	0.35	40	8		2.5	2.1	2	1.25	● 142671			
* 2	0.4	45	8		2.8	2.1	2	1.6	● 111613			
2.5	0.45	50	10		2.8	2.1	3	2.05	● 111455		● 143683	
2.6	0.45	50	10		2.8	2.1	3	2.15	● 142672			
3	0.5	56	12	18	3.5	2.7	3	2.5	● 104669		● 104830	
4	0.7	63	14	21	4.5	3.4	3	3.3	● 104670		● 104831	
5	0.8	70	15	25	6	4.9	3	4.2	● 104671		● 104832	
6	1	80	17	30	6	4.9	3	5	● 104672		● 104833	
8	1.25	90	20	35	8	6.2	3	6.8	● 104673		● 104834	
10	1.5	100	22	39	10	8	3	8.5	● 104668		● 104835	
12	1.75	110	24		9	7	3	10.2		● 104723		● 104836
14	2	110	28		11	9	3	12		● 142673		● 143684
16	2	110	30		12	9	3	14		● 105068		● 111569
18	2.5	125	33		14	11	4	15.5		● 142674		
20	2.5	140	36		16	12	4	17.5		● 105069		● 111570
22	2.5	140	36		18	14.5	4	19.5		● 146003		
24	3	160	39		18	14.5	4	21		● 142675		● 150017
30	3.5	180	45		22	18	4	26.5		● 142676		
												



Z360V-3



12 21 32

Z362V-3



12 21 32

Z462V-3



12 21 32

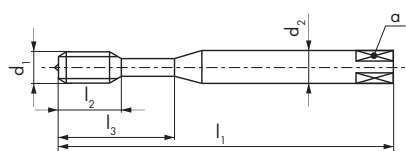
Z360V-3



Z362V-3



Z462V-3



Ø d ₁ M	P mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm		
2	0.4	45	7		2.8	2.1	2	1.6
2.5	0.45	50	9		2.8	2.1	2	2.05
2.6	0.45	50	9		2.8	2.1	2	2.15
3	0.5	56	5.5	18	3.5	2.7	3	2.5
3.5	0.6	56	6.5	20	4	3	3	2.9
4	0.7	63	7.5	21	4.5	3.4	3	3.3
5	0.8	70	9	25	6	4.9	3	4.2
6	1	80	11	30	6	4.9	3	5
8	1.25	90	12.5	35	8	6.2	3	6.8
10	1.5	100	14	39	10	8	3	8.5
12	1.75	110	14		9	7	3	10.2
14	2	110	14		11	9	3	12
16	2	110	18		12	9	3	14
18	2.5	125	21		14	11	3	15.5
20	2.5	140	24		16	12	3	17.5
22	2.5	140	24		18	14.5	3	19.5
24	3	160	27		18	14.5	4	21
27	3	160	27		20	16	4	24
30	3.5	180	30		22	18	4	26.5
36	4	200	36		28	22	4	32
42	4.5	200	40		32	24	4	37.5

ID

ID

ID

• 104684

• 104685

• 104686

• 104687

• 104688

• 104689

• 104690

• 104691

• 104692

• 104683

• 104742

• 104743

• 104744

• 104745

• 104746

• 104752

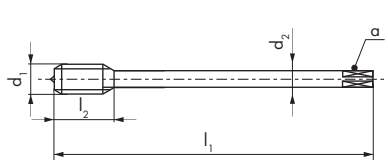
• 104747

• 104748

• 104749

• 104750

• 104751

Z S								Z462VS-3	Z470VS-3	Z473VS-3									
Z462VS-3			VS																
Z470VS-3																			
Z473VS-3																			
Z470VS-3																			
Z473VS-3																			
 																			
Ø d₁ M	P mm	l₁ mm	l₂ mm	d₂ mm	a mm			ID											
12	1.75	110	14	9	7	4	10.2	● 111510											
14	2	110	14	11	9	4	12	★ 148169											
16	2	110	18	12	9	4	14	● 111511											
20	2.5	140	24	16	12	4	17.5	● 111512											
24	3	160	27	18	14.5	4	21	★ 111620											

ZX AMPCO®

ALLIAGES D'ALU-BRONZE

LEGHE DI ALLUMINIO-BRONZO



ZX - Tarauds à machine DC avec une géométrie de coupe spécialement adaptée

Pour trous traversants et borgnes < 1.5 x D

Optimale
pour AMPCO® 21 / 22
Dureté HB > 280 - < 330

Fonctionnelle
pour AMPCO® 18
Dureté HB < 420

Fonctionnelle
pour AMPCO® 25 / 26
Dureté HB < 420

Recommandation
Pour AMPCO® 25 / 26 : Ø de perçage + 0.2 mm

Autres options pour travailler de l'AMPCO® :

Optimale
Pour trous traversants

Tarauds à machine DC type H320-4 / H420-4
pour AMPCO® 18
Dureté HB < 200

Optimale
Pour trous traversants et borgnes < 2 x D

pour AMPCO® 25 / 26
Dureté HB > 380 - < 420
Lubrifiant : huile de coupe / émulsion

Fraise à fileter en carbure monobloc, type DC
GF6165VS
Vitesse de coupe Vc : 30 - 50 m/min
Avance fraisage fz : 0.01 - 0.05 mm/dent

Optimale
Pour trous traversants et borgnes < 4 x D

pour AMPCO® 25 / 26
Dureté HB > 380 - < 420
Lubrifiant : huile de coupe / émulsion

Fraises à tourbillonner en carbure monobloc, type DC
GW301.VS / GWi306.VS
Vitesse de coupe Vc : 30 - 50 m/min
Avance fraisage fz : 0.01 - 0.08 mm/dent

ZX - Maschi a macchina DC con geometria di taglio appositamente adattata

Per fori passanti e ciechi < 1.5 x D

Ottimale
per AMPCO® 21 / 22
Durezza HB > 280 - < 330

Funzionale
per AMPCO® 18
Durezza HB < 420

Funzionale
per AMPCO® 25 / 26
Durezza HB < 420

Raccomandazione
Per AMPCO® 25 / 26: Ø del preforo + 0.2 mm

Ulteriori opzioni per la lavorazione dell'AMPCO® :

Ottimale
Per fori passanti

Maschi a macchina DC tipo H320-4 / H420-4
per AMPCO® 18
Durezza HB < 200

Ottimale
Per fori passanti e ciechi < 2 x D

per AMPCO® 25 / 26
Durezza HB > 380 - < 420
Lubrificante: olio da taglio / emulsione

Frese a filettare in metallo duro integrale, tipo DC
GF6165VS
Velocità di taglio Vc: 30 - 50 m/min
Avanzamento fz: 0.01 - 0.05 mm/dente

Ottimale
Per fori passanti e ciechi < 4 x D

per AMPCO® 25 / 26
Durezza HB > 380 - < 420
Lubrificante: olio da taglio / emulsione

Frese a filettare vorticoso in metallo duro integrale, tipo
GW301.VS / GWi306.VS
Velocità di taglio Vc: 30 - 50 m/min
Avanzamento fz: 0.01 - 0.08 mm/dente

ZX

ZX320-4



AMPCO®
21 22

ZX420-4



AMPCO®
21 22

ZX320-4

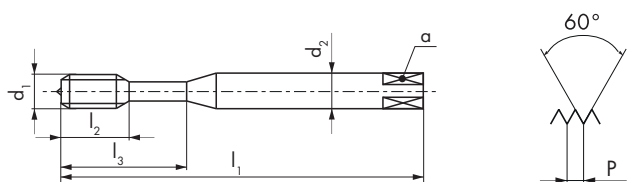


AMPCO®
18
25 26

ZX420-4



AMPCO®
18
25 26



ZX320-4

ZX420-4



NEW



NEW



< 1.5 x D



< 1.5 x D



B
4 x P



B
4 x P

6HX

6HX

Ø d ₁ M	P mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm		
4	0.7	63	14	21	4.5	3.4	3	* 3.3
5	0.8	70	15	25	6	4.9	3	* 4.2
6	1	80	17	30	6	4.9	3	* 5
8	1.25	90	20	35	8	6.2	3	* 6.8
10	1.5	100	22	39	10	8	3	* 8.5

ID

- 143599
- 145458
- 110232
- 110233
- 124905

Ø d ₁ M	P mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm		
12	1.75	110	24	9	7	3	* 10.2
16	2	110	30	12	9	3	* 14

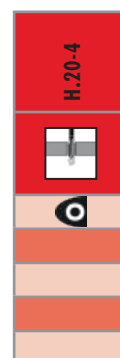
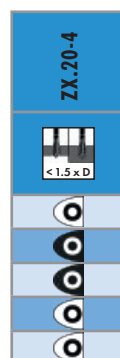
ID

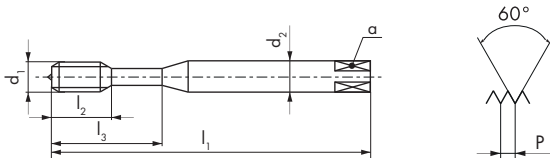
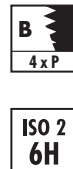
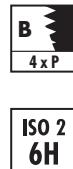
- 110208
- 110207

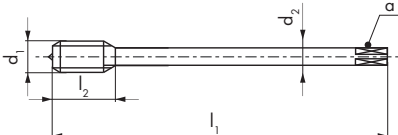
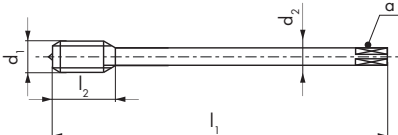
* Ampco® 25 / Ampco® 26 + 0.2 mm

TABELLE D'UTILISATION POUR ALLIAGES D'ALU-BRONZE TABELLA D'IMPIEGO PER LEGHE DI ALLUMINIO-BRONZO

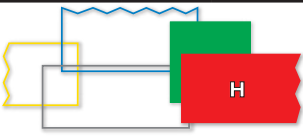
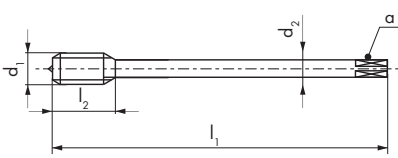
Groupes de matières Gruppi di materiali	Dureté Durezza (HB)	Vitesse de coupe Velocità di taglio V _c (m/min) Guide Line
AMPCO® 18	< 290	6 - 10
AMPCO® 21	> 280 - < 330	2 - 3
AMPCO® 22	> 280 - < 330	2 - 3
AMPCO® 25	< 420	2 - 3
AMPCO® 26	< 420	2 - 3

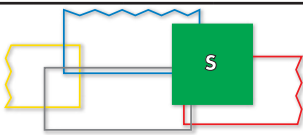
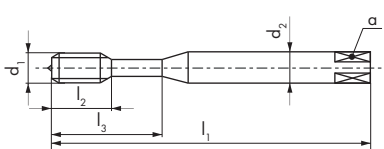


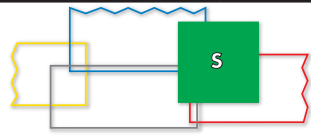
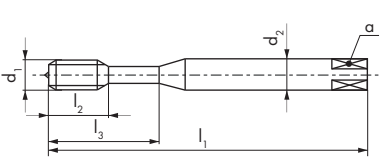
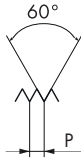
									H320-4	H320TC-4		
H320-4  1516626482 H320TC-4  TiCN 151624318283 9293 <td colspan="2"></td> <td colspan="2"></td>												
												
												
Ø d ₁ M	P mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm			ID	ID		
2	0.4	45	8		2.8	2.1	2	1.6	● 101206	● 151836		
2.2	0.45	45	9		2.8	2.1	2	1.75	● 111801			
2.5	0.45	50	10		2.8	2.1	3	2.05	● 101207	● 148603		
3	0.5	56	12	18	3.5	2.7	3	2.5	● 101209	● 111836		
3.5	0.6	56	13	20	4	3	3	2.9	● 101210			
4	0.7	63	14	21	4.5	3.4	3	3.3	● 101211	● 111502		
4.5	0.75	70	15	25	6	4.9	3	3.75	● 101212			
5	0.8	70	15	25	6	4.9	3	4.2	● 101213	● 111458		
6	1	80	17	30	6	4.9	3	5	● 101215	● 111456		
8	1.25	90	20	35	8	6.2	3	6.8	● 101218	● 111453		
10	1.5	100	22	39	10	8	3	8.5	● 101205	● 110911		

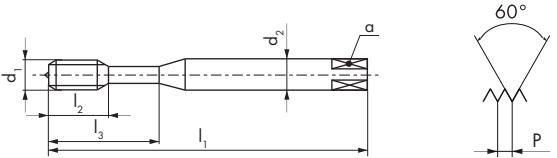
								H420-4	H420TC-4		
H420-4  											
H420TC-4   											
											
											
											
Ø d ₁ M	P mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm			ID	ID		
12	1.75	110	24	9	7	4	10.2	● 101275	● 110912		
14	2	110	28	11	9	4	12	● 101277	● 145461		
16	2	110	30	12	9	4	14	● 101279	● 111612		
18	2.5	125	33	14	11	4	15.5	● 101281			
20	2.5	140	36	16	12	4	17.5	● 101284	● 144606		
22	2.5	140	36	18	14.5	4	19.5	● 157752			
24	3	160	39	18	14.5	4	21	● 101286	● 143588		
27	3	160	42	20	16	4	24	● 101287			
30	3.5	180	45	22	18	4	26.5	● 101288			
36	4	200	51	28	22	4	32	● 101289			

									H350-3	H350-3	H350TC-3	
H350-3 H350TC-3												
$\emptyset d_1$ M	P mm	l_1 mm	l_2 mm	l_3 mm	d_2 mm	a mm			ID	ID	6H + mm	ID
2	0.4	45	7		2.8	2.1	2	1.6	• 101238			• 146451
2.5	0.45	50	9		2.8	2.1	3	2.05	• 101239			• 144957
3	0.5	56	5.5	18	3.5	2.7	3	2.5	• 101242	• 101241	0.020	• 111835
3.5	0.6	56	6.5	20	4	3	3	2.9	• 101243			
4	0.7	63	7.5	21	4.5	3.4	3	3.3	• 101245	• 101244	0.022	• 111607
4.5	0.75	70	9	25	6	4.9	3	3.75	• 101246			
5	0.8	70	9	25	6	4.9	3	4.2	• 101248	• 101247	0.024	• 111610
6	1	80	11	30	6	4.9	3	5	• 101251	• 101250	0.026	• 111500
8	1.25	90	12.5	35	8	6.2	3	6.8	• 101255	• 101254	0.028	• 110963
10	1.5	100	14	39	10	8	3	8.5	• 101237	• 101236	0.032	• 111454

								H450-3	H450-3	H450TC-3	
H450-3  											
H450TC-3   											
											
											
											
											
											
											
											
											
											
											
Ø d ₁ M	P mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm		6H	ID	ID	6H + mm	ID
12	1.75	110	14	9	7	4	10.2	● 101305	★ 101304	0.034	● 111501
14	2	110	14	11	9	4	12	● 101307			● 146151
16	2	110	18	12	9	4	14	● 101309			● 111605
18	2.5	125	21	14	11	4	15.5	● 101311			
20	2.5	140	24	16	12	4	17.5	● 101313			● 144986
22	2.5	140	24	18	14.5	4	19.5	● 101315			
24	3	160	27	18	14.5	4	21	● 101318			● 144987
27	3	160	27	20	16	4	24	● 101320			
30	3.5	180	30	22	18	4	26.5	● 101323			
36	4	200	36	28	22	4	32	● 101324			
42	4.5	200	40	32	24	4	37.5	● 101325			

									S320VS-4	S320VS-4	S420VS-4	
S320VS-4  VS 13 15 16 22 23 24 52 S420VS-4  VS 13 15 16 22 23 24 52												
												
 									 4 x P	 4 x P	 4 x P	
									6HX	4HX	6HX	
Ø d ₁ M	P mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm			ID	ID	ID	
3	0.5	56	12	18	3.5	2.7	3	2.5	● 111596	★ 165318		
4	0.7	63	14	21	4.5	3.4	3	3.3	● 111597	★ 165319		
5	0.8	70	15	25	6	4.9	3	4.2	● 111598	★ 165320		
6	1	80	17	30	6	4.9	3	5	● 111599	★ 165321		
8	1.25	90	20	35	8	6.2	3	△ 6.8	● 111600	★ 165322		
10	1.5	100	22	39	10	8	3	8.5	● 111601	★ 165323		
12	1.75	110	24		9	7	4	10.2			● 111602	
16	2	110	30		12	9	4	14			● 111603	
20	2.5	140	36		16	12	4	17.5			● 111604	

										S360VS-3	S460VS-3	SA390-3	SA390-3
S360VS-3   													
S460VS-3   													
aero													
SA390-3  													
 													
$\emptyset d_1$ M	P mm	l_1 mm	l_2 mm	l_3 mm	d_2 mm	a mm				ID	ID		
3	0.5	56	5.5	18	3.5	2.7	3	2.5		• 111513			
4	0.7	63	7.5	21	4.5	3.4	3	3.3		• 111514			
5	0.8	70	9	25	6	4.9	3	4.2		• 111515			
6	1	80	11	30	6	4.9	3	5		• 111516			
8	1.25	90	12.5	35	8	6.2	3	6.8		• 111517			
10	1.5	100	14	39	10	8	3	8.5		• 111518			
12	1.75	110	14		9	7	4	10.2			• 111519		
14	2	110	14		11	9	4	12			* 148171		
16	2	110	18		12	9	4	14			• 111520		
20	2.5	140	24		16	12	4	17.5			• 111521		
24	3	160	27		18	14.5	4	21			• 111606		
$\emptyset d_1$ M	P mm	l_1 mm	l_2 mm		d_2 mm	a mm					ID	ID	
4	0.7	63	14		4.5	3.4	3	3.3			• 149673	• 149674	
5	0.8	70	15		6	4.9	3	4.2			• 149693	• 149694	
6	1	80	20		6	4.9	3	5			• 149707	• 149708	
8	1.25	90	25		8	6.2	3	△ 6.8			• 149736	• 149737	
10	1.5	100	30		10	8	3	8.5			* 149754	• 149755	
12	1.75	110	35		12	9	4	10.2				• 149775	
14	2	110	40		16	12	4	12				* 149792	
 = 6.7													

aero									SA320-4	SA350-3	TL320VS-4	TL351VS-3
SA320-4 SA350-3									   			
TL320VS-4 TL351VS-3									   			
									   			
									4HX 4HX 4HX 4HX			
$\emptyset d_1$ M	P mm	l_1 mm	l_2 mm	l_3 mm	d_2 mm	a mm			ID	ID	ID	ID
3	0.5	56	12		3.5	2.7	3	2.5	● 147975	● 147987	● 152006	● 152012
4	0.7	63	14		4.5	3.4	3	3.3	● 147976	● 147988	● 152007	● 152013
5	0.8	70	15		6	4.9	3	4.2	● 147977	● 147989	● 152008	● 152014
6	1	80	15	23	6	4.9	3	5	● 147978	● 147990	● 152009	● 152015
8	1.25	90	18	29	8	6.2	3	6.7	● 147979	● 147991	● 152010	● 152016
10	1.5	100	20	33	10	8	3	8.5	● 147980	● 147992	● 152011	● 152017
									6HX	6HX	6HX	6HX
$\emptyset d_1$ M	P mm	l_1 mm	l_2 mm	l_3 mm	d_2 mm	a mm			ID	ID	ID	ID
3	0.5	56	12		3.5	2.7	3	2.5	● 147981	● 147993	● 148001	● 148000
4	0.7	63	14		4.5	3.4	3	3.3	● 147982	● 147994	● 148003	● 148002
5	0.8	70	15		6	4.9	3	4.2	● 147983	● 147995	● 148007	● 148006
6	1	80	15	23	6	4.9	3	5	● 147984	● 147996	● 148011	● 148010
8	1.25	90	18	29	8	6.2	3	6.8	● 147985	● 147997	● 148020	● 148018
10	1.5	100	20	33	10	8	3	8.5	● 147986	● 147998	● 148027	● 148025

aero

15 16 52 64



R15

15 16 52 64

VS

41 42

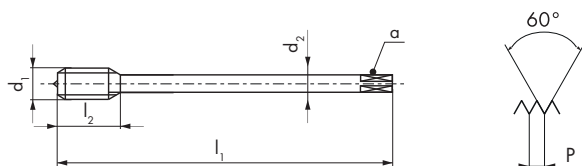


R15



VS

41 42



TL451VS-3



B
4xP



B
4xP



4HX

4HX

4HX

4HX

$\emptyset d_1$ M	P mm	l_1 mm	l_2 mm	d_2 mm	a mm		
12	1.75	110	24	9	7	4	10.2
14	2	110	28	11	9	4	12
16	2	110	30	12	9	4	14

ID	ID	ID	ID
* 148096	* 152189	* 152192	* 152195
* 152187			
* 152188			* 152197

6HX

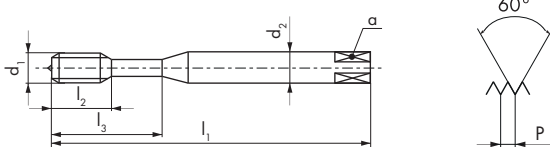
6HX

6HX

6HX

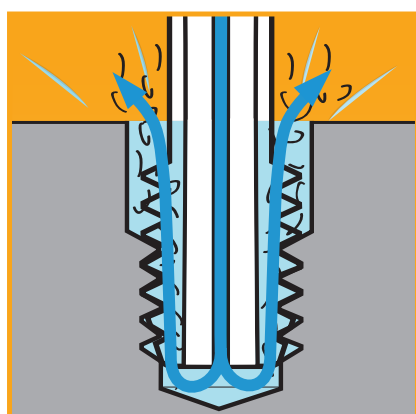
$\emptyset d_1$ M	P mm	l_1 mm	l_2 mm	d_2 mm	a mm		
12	1.75	110	24	9	7	4	10.2
14	2	110	28	11	9	4	12
16	2	110	30	12	9	4	14

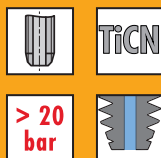
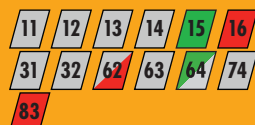
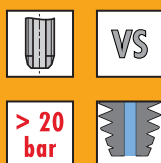
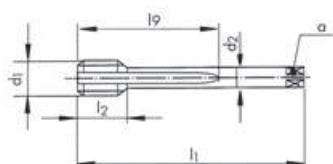
ID	ID	ID	ID
* 152198	* 152201	* 152204	● 148028
* 152199			● 152207
	* 152203		● 148029

GG										GG350NV-3	GG350TC-3	GG353TC-3	GG550NV-3
GG350NV-3 R15 NV 31 GG350TC-3 R15 TiCN 31 62 74 GG353TC-3 R15 TiCN 31 62 74 GG550NV-3 R15 NV 31													
        2.5 x P  2.5 x P  2.5 x P  2.5 x P 6HX 6HX 6HX 6HX													
 60° P										 2.5 x P 6HX	 2.5 x P 6HX	 2.5 x P 6HX	 2.5 x P 6HX
Ø d₁ M	P mm	l₁ mm	l₂ mm	l₃ mm	d₂ mm	a mm			ID	ID			
3	0.5	56	12	18	3.5	2.7	3	2.5	● 101172	● 101178			
4	0.7	63	14	21	4.5	3.4	3	3.3	● 101173	● 101179			
5	0.8	70	15	25	6	4.9	3	4.2	● 101174	● 101180			
6	1	80	17	30	6	4.9	3	5	● 101175	● 101181			
8	1.25	90	20	35	8	6.2	4	6.8	● 101076	● 101182			
10	1.5	100	22	39	10	8	4	8.5	● 101171	● 101177			
Ø d₁ M	P mm	l₁ mm	l₂ mm	l₃ mm	d₂ h6 mm	a mm			ID				
5	0.8	70	15	25	6	4.9	3	4.2	● 144947				
6	1	80	17	30	6	4.9	3	5	● 147710				
8	1.25	90	20	35	8	6.2	4	6.8	● 147711				
10	1.5	100	22	39	10	8	4	8.5	● 146708				
Ø d₁ M	P mm	l₁ mm	l₂ mm	l₃ mm	d₂ mm	a mm			ID				
4	0.7	112	14	21	4.5	3.4	3	3.3	● 101196				
5	0.8	125	15	25	6	4.9	3	4.2	● 101197				
6	1	125	17	30	6	4.9	3	5	● 101198				

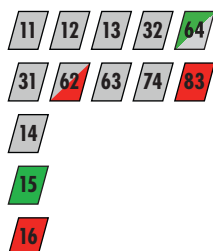
								GG450NV-3	GG450TC-3	GG453TC-3	GG650NV-3
GG450NV-3											
GG450TC-3											
GG453TC-3											
GG650NV-3											
								6HX	6HX	6HX	6HX
Ø d ₁ M	P mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm			ID	ID		
8	1.25	90	20	6	4.9	4		• 101189	• 101194		
10	1.5	100	22	7	5.5	4		• 101183	• 101195		
12	1.75	110	24	9	7	4		• 101184	• 101190		
14	2	110	28	11	9	4		• 101185	• 101191		
16	2	110	30	12	9	4		• 101186	• 101192		
20	2.5	140	36	16	12	4		• 101187	• 101193		
24	3	160	39	18	14.5	4		• 101188			
Ø d ₁ M	P mm	l ₁ mm	l ₂ mm	d ₂ h6 mm	a mm			ID			
12	1.75	110	24	* 10	* 8	4		• 146707			
16	2	110	30	12	9	4		• 162796			
* Norme DC / * DC Norm/ * Norma DC											
Ø d ₁ M	P mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm			ID			
8	1.25	140	20	6	4.9	4		• 101203			
10	1.5	160	22	7	5.5	4		• 101199			
12	1.75	180	24	9	7	4		• 101200			
16	2	200	30	12	9	4		• 101201			
20	2.5	224	36	16	12	4		• 101202			

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													
										 C 2.5 x P	 C 2.5 x P		
 6HX										 6HX	 6HX		
Ø d ₁ M	P mm	l ₁ mm	l ₂ mm	l ₃ mm	l ₀ mm	d ₂ mm	a mm			ID	ID		
5	0.8	70	15	25	23	6	4.9	3	4.2	• 175961			
6	1	80	17	30	28	6	4.9	3	5	• 170766			
8	1.25	90	20	35	33	8	6.2	3	6.8	• 170769			
10	1.5	100	22	39	37	10	8	3	8.5	• 170772			
12	1.75	110	24		42	9	7	3	10.2		• 165838		
14	2	110	28		49	11	9	3	12		• 170778		
16	2	110	30		56	12	9	4	14		• 170783		
20	2.5	140	36		70	16	12	5	17.5		• 170786		
24	3	160	39		84	18	14.5	5	21		• 170775		



K**K613TC-3****K613VS-3****K613TC-3****K613VS-3****6HX****6HX**

$\varnothing d_1$ M	P mm	l_1 mm	l_2 mm	l_3 mm	d_2 mm	a mm			ID	ID
6	1	110	17	30	4.5	3.4	3	5	● 170646	● 172699
8	1.25	110	20	40	6	4.9	3	6.8	● 170649	● 172700
10	1.5	125	22	50	7	5.5	3	8.5	● 170652	● 172701
12	1.75	140	24	60	9	7	3	10.2	● 167982	● 172702
14	2	140	28	70	11	9	4	12	● 167983	
16	2	160	30	80	12	9	4	14	● 167984	● 170573
20	2.5	180	36	100	16	12	5	17.5	● 167985	● 170576
24	3	200	39	120	18	14.5	5	21	● 167986	● 172704
27	3	225	42	135	20	16	5	24	● 167987	
30	3.5	250	45	150	22	18	5	26.5	● 165542	
33	3.5	280	48	165	25	20	5	29.5	● 167988	
36	4	300	51	180	28	22	6	32	● 167989	
39	4	300	55	195	32	24	6	35	● 167990	
42	4.5	355	55	210	32	24	6	37.5	● 167999	

Vc (m/min) Guide Line**M5 - M10****M12 - M16****M20 - M30****M33 - M42**

30 - 40

20 - 30

20 - 30

20 - 30

30 - 40

30 - 40

30 - 40

30 - 40

20 - 30

15 - 25

15 - 25

15 - 25

15 - 20

10 - 15

8 - 12

5 - 8

8 - 12

5 - 8

5 - 8

5 - 8

QTAP

Q320VS-4



VS

Q420VS-4



VS

Q323VS-4

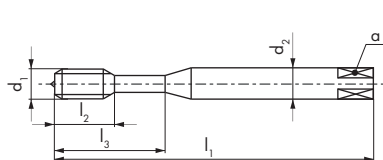


VS

Q423VS-4



VS



Q320VS-4

Q420VS-4

Q323VS-4

Q423VS-4



NEW



NEW



NEW



NEW

ISO 2
6HISO 2
6HISO 2
6HISO 2
6H

$\emptyset d_1$ M	P mm	l_1 mm	l_2 mm	l_3 mm	d_2 mm	a mm		
3	0.5	56	12	18	3.5	2.7	3	2.5
4	0.7	63	14	21	4.5	3.4	3	3.3
5	0.8	70	15	25	6	4.9	3	4.2
6	1	80	17	30	6	4.9	3	5
8	1.25	90	20	35	8	6.2	3	6.8
10	1.5	100	22	39	10	8	3	8.5
12	1.75	110	24		9	7	3	10.2
14	2	110	28		11	9	3	12
16	2	110	30		12	9	3	14
20	2.5	140	36		16	12	4	17.5
24	3	160	39		18	14.5	4	21

ID

ID

ID

ID

● 195494

● 195505

● 195495

● 195506

● 195496

● 195507

● 195497

● 195508

● 195498

● 195509

● 195499

● 195510

● 195500

● 195511

● 195501

● 195512

● 195502

● 195513

● 195503

● 195514

● 195504

● 195515

QTAP

Q360VS-3



VS

Q460VS-3



VS

Q363VS-3



VS

Q463VS-3



VS



Q360VS-3

Q460VS-3

Q363VS-3

Q463VS-3



NEW



NEW



NEW



NEW



< 2.5 x D



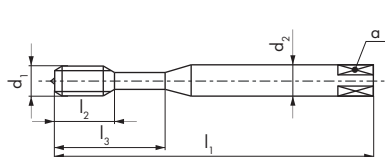
< 2.5 x D



< 2.5 x D



< 2.5 x D

ISO 2
6HISO 2
6HISO 2
6HISO 2
6H

Ø d ₁ M	P mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm		
3	0.5	56	5.5	18	3.5	2.7	3	2.5
4	0.7	63	7.5	21	4.5	3.4	3	3.3
5	0.8	70	9	25	6	4.9	3	4.2
6	1	80	11	30	6	4.9	3	5
8	1.25	90	12.5	35	8	6.2	3	6.8
10	1.5	100	14	39	10	8	3	8.5
12	1.75	110	14		9	7	3	10.2
14	2	110	14		11	9	3	12
16	2	110	18		12	9	3	14
20	2.5	140	24		16	12	3	17.5
24	3	160	27		18	14.5	4	21

ID

ID

ID

ID

● 195516

● 195527

● 195517

● 195528

● 195518

● 195529

● 195519

● 195530

● 195520

● 195531

● 195521

● 195532

● 195522 ● 195533

● 195523 ● 195534

● 195524 ● 195535

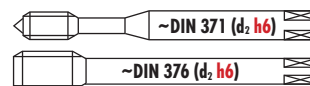
● 195525 ● 195536

● 195526 ● 195537



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



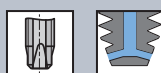
VS

RTS323VS-4

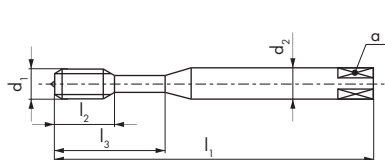


VS

RTS423VS-4



VS



RTS320VS-4

RTS420VS-4

RTS323VS-4

RTS423VS-4



6HX

6HX

6HX

6HX

$\emptyset d_1$ M	P mm	l_1 mm	l_2 mm	l_3 mm	$d_2 h_6$ mm	a mm		
* 2	0.4	45	8		2.8(h9)	2.1	2	1.6
2.5	0.45	50	10		2.8(h9)	2.1	3	2.05
3	0.5	56	5.5	18	3.5(h9)	2.7	3	2.5
4	0.7	63	7.5	21	4.5(h9)	3.4	3	3.3
5	0.8	70	9	25	6	4.9	3	4.2
6	1	80	11	30	6	4.9	3	5
8	1.25	90	12.5	35	8	6.2	3	6.8
10	1.5	100	14	39	10	8	3	8.5
12	1.75	110	14		* 10	* 8	3	10.2
14	2	110	14		* 12	* 9	3	12
16	2	110	18		12	9	3	14
20	2.5	140	24		16	12	4	17.5
24	3	160	27		16	12	4	21

* Norme DC / * DC Norm / * Norma DC

* RTS320VS-3



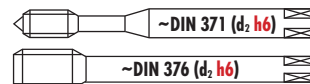
sur demande
auf Anfrage
on request
su richiesta
sobre pedido
по запросу

≥ 6 mm



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

RTS362VS-3



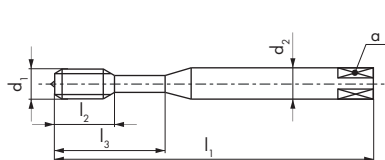
RTS462VS-3



RTS365VS-3



RTS465VS-3



RTS362VS-3

RTS462VS-3

RTS365VS-3

RTS465VS-3



$\emptyset d_1$ M	P mm	l_1 mm	l_2 mm	l_3 mm	$d_2 h_6$ mm	a mm		
* 2	0.4	45	7		2.8(h9)	2.1	3	1.6
* 2.5	0.45	50	9		2.8(h9)	2.1	3	2.05
3	0.5	56	5.5	18	3.5(h9)	2.7	3	2.5
4	0.7	63	7.5	21	4.5(h9)	3.4	3	3.3
5	0.8	70	9	25	6	4.9	3	4.2
6	1	80	11	30	6	4.9	3	5
8	1.25	90	12.5	35	8	6.2	3	6.8
10	1.5	100	14	39	10	8	3	8.5
12	1.75	110	14		* 10	* 8	3	10.2
14	2	110	14		* 12	* 9	3	12
16	2	110	18		12	9	3	14
20	2.5	140	24		16	12	4	17.5
24	3	160	27		16	12	4	21

ID

ID

ID

ID

● 143536			
● 143538			
● 150602		● 160477	
● 150604		● 160478	
● 150607		● 150608	
● 150612		● 150613	
● 150622		● 150623	
● 150637		● 150638	
	● 151865		● 151866
	● 151870		● 150663
	● 150672		● 150673
	● 150681		● 150682
	● 151873		● 150690

* Norme DC / * DC Norm / * Norma DC

* RTS360VS-3

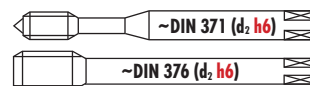


sur demande
auf Anfrage
on request
su richiesta
sobre pedido
no zampocy



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

PM



RTS

Rigid Tapping Synchro

RTS362VS-3



VS

RTS462VS-3



VS



RTS362VS-3

RTS462VS-3

RTS362VS-3

RTS462VS-3



NEW

NEW

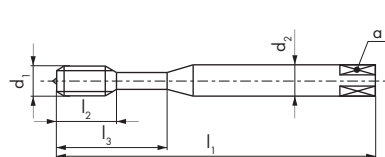


6GX

6GX

7GX

7GX



$\emptyset d_1$ M	P mm	l_1 mm	l_2 mm	l_3 mm	d_2 h6 mm	a mm			ID	6H + mm	ID	6H + mm	ID	6H + mm	ID	6H + mm
3	0.5	56	5.5	18	3.5(h9)	2.7	3	2.5	● 162797	0.020			● 184689	0.036		
4	0.7	63	7.5	21	4.5(h9)	3.4	3	3.35	● 162798	0.022			● 184691	0.041		
5	0.8	70	9	25	6	4.9	3	4.25	● 162799	0.024			● 184693	0.044		
6	1	80	11	30	6	4.9	3	5	● 162800	0.026			● 184695	0.050		
8	1.25	90	12.5	35	8	6.2	3	6.8	● 162801	0.028			● 184697	0.052		
10	1.5	100	14	39	10	8	3	8.5	● 162802	0.032			● 184699	0.060		
12	1.75	110	14		* 10	* 8	3	10.3			● 163253	0.034			● 184701	0.066
16	2	110	18		12	9	3	14			● 172037	0.038			● 184703	0.072

* Norme DC / * DC Norm/ * Norma DC

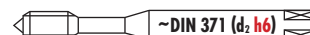


sur demande
auf Anfrage
on request
su richiesta
sobre pedido
no zampocy



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

PM



RTS

Rigid Tapping Synchro

RTS362VS-5



VS



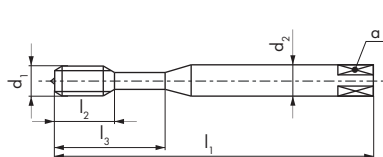
RTS365VS-5



VS

RTS362VS-5

RTS365VS-5



6HX

6HX

$\emptyset d_1$ M	P mm	l_1 mm	l_2 mm	l_3 mm	d_2 h6 mm	a mm		
3	0.5	56	5.5	18	3.5(h9)	2.7	3	2.5
4	0.7	63	7.5	21	4.5(h9)	3.4	3	3.3
5	0.8	70	9	25	6	4.9	3	4.2
6	1	80	11	30	6	4.9	3	5
8	1.25	90	12.5	35	8	6.2	3	6.8
10	1.5	100	14	39	10	8	3	8.5

ID

ID

● 157648

● 157650

● 157652

● 162791

● 158074

● 151803

● 158076

● 157821

● 153286

● 157823

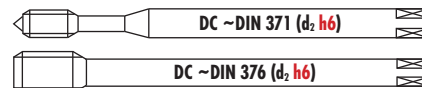


sur demande
auf Anfrage
on request
su richiesta
sobre pedido
по запросу



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

PM



RTS

Rigid Tapping Synchro

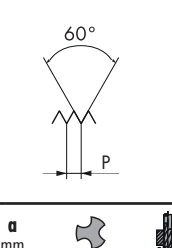
RTS523VS-4



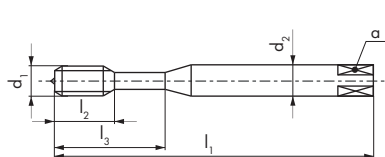
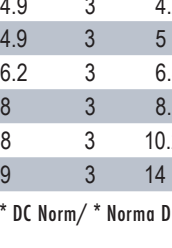
RTS623VS-4



RTS565VS-3



RTS665VS-3



RTS523VS-4

RTS623VS-4

RTS565VS-3

RTS665VS-3



$\emptyset d_1$ M	P mm	l_1 mm	l_2 mm	l_3 mm	$d_2 h_6$ mm	a mm		
5	0.8	125	9	25	6	4.9	3	4.2
6	1	125	11	30	6	4.9	3	5
8	1.25	140	12.5	35	8	6.2	3	6.8
10	1.5	160	14	39	10	8	3	8.5
12	1.75	180	14		* 10	* 8	3	10.2
16	2	200	18		12	9	3	14

* Norme DC / * DC Norm/ * Norma DC

ID	ID
• 161038	
• 161041	
• 161044	
• 161047	
	• 161050
	• 161053

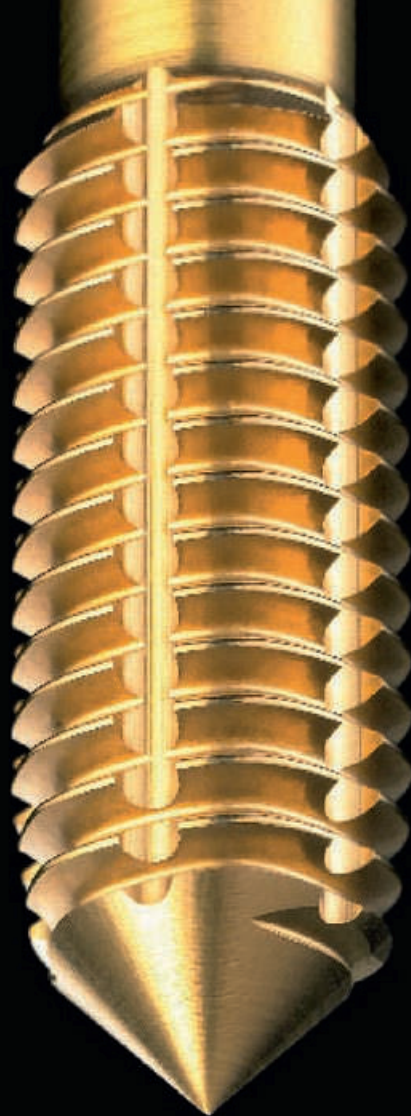
$\emptyset d_1$ M	P mm	l_1 mm	l_2 mm	l_3 mm	$d_2 h_6$ mm	a mm		
6	1	125	11	30	6	4.9	3	5
8	1.25	140	12.5	35	8	6.2	3	6.8
10	1.5	160	14	39	10	8	3	8.5
12	1.75	180	14		* 10	* 8	3	10.2
16	2	200	18		12	9	3	14

* Norme DC / * DC Norm/ * Norma DC

ID	ID
• 150614	
• 150624	
• 150639	
	• 151867
	• 150674



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

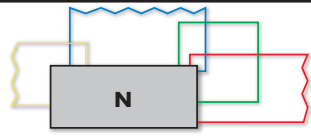
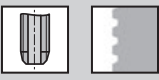
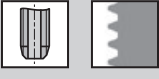
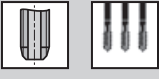
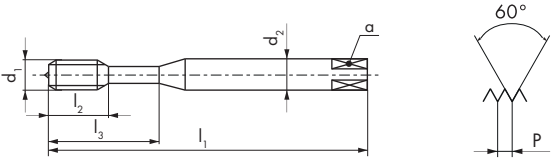


TARAUDS À REFOULER

Dans ce catalogue, vous trouverez le programme des tarauds à refouler FS - FPS - FAS dans un chapitre séparé qui commence à la **page 244.**

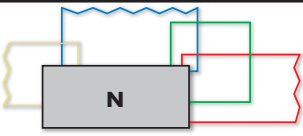
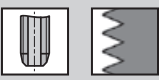
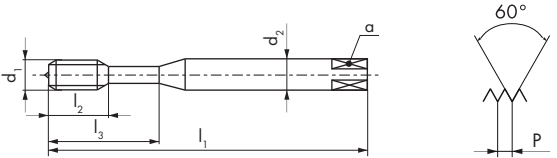
MASCHI A RULLARE

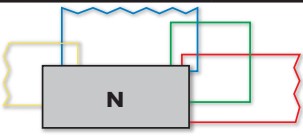
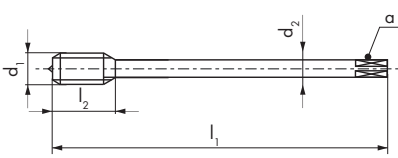
In questo catalogo troverete il programma di maschi a rullare FS - FPS - FAS in un capitolo separato a partire da **pagina 244.**

									N1110-1	N1110-2	N1110-3	N1110-S
N1110-1 												
N1110-2 												
N1110-3  											 $< 1.5 \times D$	 $< 2.5 \times D$
N1110-S 												
												
												
$\varnothing d_1$ M	P mm	l_1 mm	l_2 mm	l_3 mm	d_2 mm	a mm			ID	ID	ID	ID
1	0.25	40	5.5		2.5	2.1	3	0.75	● 102744	● 102844	● 102917	● 111015
1.2	0.25	40	5.5		2.5	2.1	3	0.95	● 102746	● 102846	● 102919	● 111017
1.4	0.3	40	7		2.5	2.1	3	1.1	● 102747	● 102847	● 102920	● 111018
1.6	0.35	40	8		2.5	2.1	3	1.25	● 102749	● 102849	● 102922	● 111020
1.7	0.35	40	8		2.5	2.1	3	1.35	● 102750	● 102850	● 102923	● 111021
1.8	0.35	40	8		2.5	2.1	3	1.45	● 102751	● 102851	● 102924	● 111022
2	0.4	45	8		2.8	2.1	3	1.6	● 102759	● 102854	● 102934	● 111028
2.2	0.45	45	9.5		2.8	2.1	3	1.75	● 102761	● 102856	● 102937	● 111030
2.5	0.45	45	9.5		2.8	2.1	3	2.05	● 102763	● 102858	● 102941	● 111032
2.6	0.45	45	9.5		2.8	2.1	3	2.15	● 102765	● 102860	● 102944	● 111034
3	0.5	48	11	18	3.15	2.5	3	2.5	● 102766	● 102861	● 102947	● 111036
3.5	0.6	50	13	20	3.55	2.8	3	2.9	● 102769	● 102864	● 102950	● 111038
4	0.7	53	13	21	4	3.15	3	3.3	● 102771	● 102866	● 102956	● 111042
4.5	0.75	53	13	21	4.5	3.55	3	3.75	* 102775	* 102869	* 102959	* 111044
5	0.8	58	16	25	5	4	3	4.2	● 102776	● 102870	● 102965	● 111047
6	1	66	19	30	6.3	5	3	5	● 102781	● 102874	● 102973	● 111053
7	1	66	19	30	7.1	5.6	3	6	* 102786	* 102876	* 102978	* 111055
8	1.25	72	22	35	8	6.3	3	6.8	● 102788	● 102878	● 102986	● 111059
9	1.25	72	22	36	9	7.1	3	7.8	* 102792	* 102880	* 102991	* 111061
10	1.5	80	24	39	10	8	3	8.5	● 102752	● 102852	● 102931	● 111026
												

≤M1.5

								N1210-1	N1210-2	N1210-3	N1210-S
N1210-1 N1210-2 N1210-3 N1210-S											
N1210-3 N1210-S											
Ø d ₁ M	P mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm			ID	ID	ID	ID
11	1.5	85	22	8	6.3	3	9.5	★ 103302	★ 103427	● 103489	★ 111168
12	1.75	89	24	9	7.1	3	10.2	● 103303	● 103428	● 103499	● 111173
14	2	95	24	11.2	9	3	12	● 103310	● 103430	● 103510	● 111179
16	2	102	32	12.5	10	3	14	● 103319	● 103432	● 103522	● 111185
18	2.5	112	30	14	11.2	3	15.5	● 103324	● 103434	● 103534	● 111191
20	2.5	112	37	14	11.2	3	17.5	● 103330	● 103436	● 103543	● 111196
22	2.5	115	32	16	12.5	3	19.5	★ 103337	★ 103438	★ 103550	★ 125567
24	3	130	45	18	14	4	21	● 103341	● 103440	● 103557	● 111204
27	3	135	45	20	16	4	24	★ 103347	★ 103442	★ 103568	★ 111211
30	3.5	138	48	20	16	4	26.5	● 103353	● 103444	● 103579	● 111216
33	3.5	151	51	22.4	18	4	29.5	★ 103357	★ 103446	★ 103581	★ 111218
36	4	162	57	25	20	4	32	★ 103359	★ 103448	★ 103583	★ 111220

									NP110-1	NP110-2	NP110-3	NP110-S
NP110-1  NP110-2  NP110-3  NP110-S 												
NEW									NEW	NEW	NEW	NEW
												
												
ISO 2 6H									ISO 2 6H	ISO 2 6H	ISO 2 6H	ISO 2 6H
$\emptyset d_1$ M	P mm	l_1 mm	l_2 mm	l_3 mm	d_2 mm	a mm			ID	ID	ID	ID
3	0.5	40	11	18	3.5	2.7	3	2.5	• 174678	• 174687	• 174696	• 173676
4	0.7	45	13	21	4.5	3.4	3	3.3	• 174679	• 174688	• 174697	• 173644
5	0.8	50	16	24	6	4.9	3	4.2	• 174680	• 174689	• 174698	• 173677
6	1	56	19	27	6	4.9	3	5	• 174681	• 174690	• 174699	• 173394

								NP210-1	NP210-2	NP210-3	NP210-S
NP210-1   											
NP210-2  								NEW	NEW	NEW	NEW
NP210-3     										 $< 1.5 \times D$	 $< 2.5 \times D$
NP210-S   											
								 $3 \times P$	 $3 \times P$	 $3 \times P$	
										 $ISO 2$ $6H$	 $ISO 2$ $6H$
$\emptyset d_1$ M	P mm	l_1 mm	l_2 mm	d_2 mm	a mm			ID	ID	ID	ID
8	1.25	63	22	6	4.9	3	6.8	● 174682	● 174691	● 174700	● 173645
10	1.5	70	24	7	5.5	3	8.5	● 174683	● 174692	● 174701	● 173646
12	1.75	75	28	9	7	3	10.2	● 174684	● 174693	● 174702	● 173647
14	2	80	30	11	9	3	12	● 174685	● 174694	● 174703	● 173648
16	2	80	32	12	9	3	14	● 180705	● 180706	● 180707	● 174677

										N1120-4	N1220-4	N1160-3	N1260-3
N1120-4													
N1220-4													
N1160-3													
N1260-3													