




















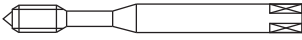
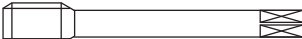
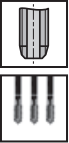


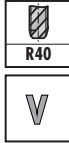
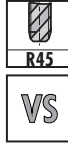


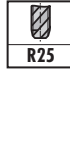









































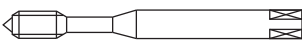
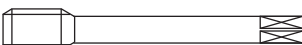




















		N						
Merkmale Characteristics								
					 NEW			 NEW
Lochart Hole type								
		N310-3	N320-3 N320-4	N320V-4	N320TN-4	N360-3	N360V-3	N360TN-3
DIN lang DIN long	DIN 371	154	154	154	154	156	156	156
ISO kurz ISO short	ISO 529							
Toleranz Tolerance	UNC 2B	154	154	154	154	156	156	156
Toleranz Tolerance	UNC 3B							
Toleranz Tolerance	UNC(J) 3B		154			156		
		N410-3	N420-4	N420V-4	N420TN-4	N460-3	N460V-3	N460TN-3
DIN lang DIN long	DIN 376	155	155	155	155	157	157	157
ISO kurz ISO short	ISO 529							
Toleranz Tolerance	UNC 2B	155	155	155	155	157	157	157
Toleranz Tolerance	UNC 3B							
Toleranz Tolerance	UNC(J) 3B							

N	Z				H			
	 V	 VS	 R40 V	 R45 VS		 TiCN	 R25	 R25 TiCN
						 NEW		 NEW
								
N1110 -1 -2 -3 -S	Z320V-3 Z320V-4	Z320VS-4	Z360V-3 Z362V-3	Z370VS-3	H320-4	H320TC-4	H350-3	H350TC-3
	158	158	159	160	161	161	162	162
170								
170	158	158	159	160	161	161	162	162
				160				
N1210 -1 -2 -3 -S	Z420V-4	Z420VS-4	Z462V-3	Z470VS-3	H420-4	H420TC-4	H450-3	H450TC-3
	158	158	159	160	161	161	162	162
171								
171	158	158	159	160	161	161	162	162

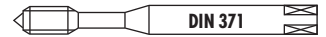
		S		SA			TL	
Merkmale Characteristics		 VS	 R35 VS		 R15	 R10	 VS	 R15  VS
								
Lochart Hole type								
		S320VS-4	S360VS-3	SA320-4	SA350-3	SA390-3	TL320VS-4	TL351VS-3
DIN lang DIN long	DIN 371	163	164	165	165	166	165	165
ISO kurz ISO short	ISO 529							
Toleranz Tolerance	UNC 2B	163	164	165	165		165	165
Toleranz Tolerance	UNC 3B							
Toleranz Tolerance	UNC(J) 3B	163		165	165	166	165	165
		S420VS-4	S460VS-3	SA420-4	SA450-3			
DIN lang DIN long	DIN 376	163	164	166	166			
ISO kurz ISO short	ISO 529							
Toleranz Tolerance	UNC 2B	163	164	166	166			
Toleranz Tolerance	UNC 3B							
Toleranz Tolerance	UNC(J) 3B							

Q				RTS	
					
VS	VS	VS	VS	VS	VS
					
NEW	NEW	NEW	NEW		
					
Q320VS-4	Q323VS-4	Q360VS-3	Q363VS-3	RTS320VS-4	RTS362VS-3
167	167	168	168	169	169
167	167	168	168	169	169
Q420VS-4	Q423VS-4	Q460VS-3	Q463VS-3	RTS420VS-4	RTS462VS-3
167	167	168	168	169	169
167	167	168	168	169	169

UNC ASME B1.1

≤ Ø 2.8 > Ø 2.8

PM HSSE



										N310-3	N320-4	N320V-4	N320TN-4
N310-3													
N320-4													
N320V-4													
N320TN-4													
Ø" d ₁ UNC	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm			ID	ID	ID	ID
* 2	56	2.18	45	9		2.8	2.1	2	1.75		● 101469	● 143690	
* 3	48	2.51	50	10		2.8	2.1	2	2		● 101470		
4	40	2.84	56	12	18	3.5	2.7	3	2.25	● 101450	● 101511	● 142738	
5	40	3.17	56	12	18	3.5	2.7	3	2.55		● 101512		
6	32	3.5	56	13	20	4	3	3	2.75	● 101451	● 101514	● 144402	● 196003
8	32	4.16	63	14	21	4.5	3.4	3	3.4	● 101452	● 101515	● 142739	● 196004
10	24	4.82	70	15	25	6	4.9	3	3.8	● 101449	● 101508	● 142740	● 196005
12	24	5.48	80	17	30	6	4.9	3	4.4		● 101509		
1/4	20	6.35	80	17	30	7	5.5	3	5.1	● 101448	● 101507	● 142741	● 196006
Ø d ₁ UNC	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm			ID			
4	40	2.84	56	12	18	3.5	2.7	3	2.3	● 145656			
6	32	3.5	56	13	20	4	3	3	2.8	● 155317			
8	32	4.16	63	14	21	4.5	3.4	3	3.45	● 155319			
										<p>* N320-3 / N320V-3</p>			

UNC ASME B1.1

HSSE



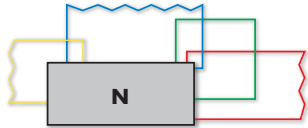
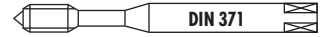
										N410-3	N420-4	N420V-4	N420TN-4
										N410-3		31 62 73 74 91	
N420-4		62 63 64 72 73 74 81 91								NEW			
N420V-4		11 12 31 32											
N420TN-4		11 12 13 14 32											
										2.5 x P	4 x P	4 x P	4 x P
										2B	2B	2B	2B
$\emptyset'' d_1$ UNC	P TPI	d_1 mm	l_1 mm	l_2 mm	d_2 mm	a mm			ID	ID	ID	ID	
5/16	18	7.93	90	20	6	4.9	3	6.5	● 101997	● 102213	● 142742	● 196007	
3/8	16	9.52	100	22	7	5.5	3	8	● 101996	● 102212	● 142743	● 158317	
7/16	14	11.11	100	19	8	6.2	3	9.3		● 102215	● 142744	● 196008	
1/2	13	12.7	110	24	9	7	3	10.8	● 101993	● 102208	● 142745	● 143827	
9/16	12	14.28	110	28	11	9	3	12.2		● 102217			
5/8	11	15.87	110	30	12	9	3	13.6	● 101998	● 102214	● 142746	● 146391	
3/4	10	19.05	125	33	14	11	3	16.6	● 101995	● 102211	● 142747	● 146054	
7/8	9	22.22	140	36	18	14.5	3	19.5		● 102216	● 142748		
1	8	25.4	160	39	18	14.5	4	22.3	● 101994	● 102209	● 142749		
1 1/8	7	28.57	180	45	22	18	4	25		● 102205			
1 1/4	7	31.75	180	45	22	18	4	28.2		● 102204			
1 1/2	6	38.1	200	55	32	24	4	34		● 102203			
1 3/4	5	44.45	220	59	36	29	4	39.5	★ 101992	● 102206			
2	4.5	50.8	250	67	40	32	4	45.3		● 102210			

UNC, UNC(I)

UNC ASME B1.1

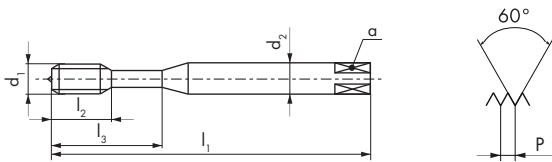
≤ Ø 2.8 > Ø 2.8

PM HSSE



N360-3		63 72 73 74 81 91
N360V-3		11 12 32
N360TN-3		11 12 13 14 32
N360-3		63 72 73 74 81 91

N360-3	N360V-3	N360TN-3	N360-3
		NEW	
< 2.5 x D	< 2.5 x D	< 2.5 x D	< 2.5 x D



2B	2B	2B	3B UNC(J)

Ø" d ₁ UNC	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm			ID	ID	ID	ID
2	56	2.18	45	8		2.8	2.1	2	1.75	● 101673	● 148887		
3	48	2.51	50	9		2.8	2.1	2	2	● 101674			
4	40	2.84	56	5.5	18	3.5	2.7	3	¹ 2.25	● 101676	● 101725		● 155316
5	40	3.17	56	5.5	18	3.5	2.7	3	2.55	● 101677			
6	32	3.5	56	6.5	20	4	3	3	² 2.75	● 101679	● 101727	● 195998	● 155318
8	32	4.16	63	7.5	21	4.5	3.4	3	³ 3.4	● 101680	● 101728	● 150558	● 155320
10	24	4.82	70	9	25	6	4.9	3	3.8	● 101671	● 101723	● 195999	
12	24	5.48	80	11	30	6	4.9	3	4.4	● 101672			
1/4	20	6.35	80	11	30	7	5.5	3	5.1	● 101670	● 101722	● 196000	
5/16	18	7.93	90	12.5	35	8	6.2	3	6.5	● 101678	● 101726	● 196001	
3/8	16	9.52	100	14	39	10	8	3	8	● 101675	● 101724	● 164171	

UNJC
¹ 2.3
² 2.8
³ 3.45

UNC ASME B1.1

HSSE

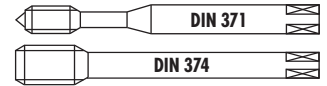


										N460-3	N460V-3	N460TN-3
<p>N460-3 63 72 73 74 81 91</p> <p>N460V-3 11 12 32</p> <p>N460TN-3 11 12 13 14 32</p>												
$\emptyset'' d_1$ UNC	P TPI	d_1 mm	l_1 mm	l_2 mm	d_2 mm	a mm				ID	ID	ID
7/16	14	11.11	100	14	8	6.2	3	9.3		● 102424	● 105135	● 196002
1/2	13	12.7	110	14	9	7	3	10.8		● 102420	● 102497	● 157376
9/16	12	14.28	110	14	11	9	3	12.2		● 102426	● 102502	
5/8	11	15.87	110	18	12	9	3	13.6		● 102423	● 102500	● 128252
3/4	10	19.05	125	21	14	11	3	16.6		● 102422	● 102499	● 143519
7/8	9	22.22	140	24	18	14.5	4	19.5		● 102425	● 102501	
1	8	25.4	160	27	18	14.5	4	22.3		● 102421	● 102498	
1 1/8	7	28.57	180	30	22	18	4	25		● 102418	● 102495	
1 1/4	7	31.75	180	30	22	18	4	28.2		● 102417	● 102494	
1 1/2	6	38.1	200	40	32	24	5	34		● 102416	● 102493	
1 3/4	5	44.45	220	44	36	29	5	39.5			● 128062	
2	4.5	50.8	250	52	40	32	5	45.3			● 128084	

UNC, UNC(I)

UNC ASME B1.1

PM



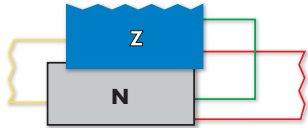
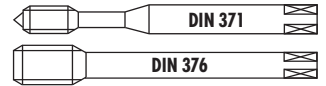
										Z320V-4	Z320VS-4	Z420V-4	Z420VS-4
Z320V-4		V	11	12	13	21	32						
Z320VS-4		VS	11	12	13	14	21	22	23	32	61	63	94
Z420V-4		V	11	12	13	21	32						
Z420VS-4		VS	11	12	13	14	21	22	23	32	61	63	94
										2B	2B	2B	2B
\emptyset'' d ₁ UNC	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm			ID	ID	ID	ID
* 2	56	2.18	45	9		2.8	2.1	2	1.75	● 142750			
4	40	2.84	56	12	18	3.5	2.7	3	2.25	● 142751			
6	32	3.5	56	13	20	4	3	3	2.75	● 142752	● 111560		
8	32	4.16	63	14	21	4.5	3.4	3	3.4	● 142753	● 111561		
10	24	4.82	70	15	25	6	4.9	3	3.8	● 142754	● 111562		
1/4	20	6.35	80	17	30	7	5.5	3	5.1	● 142755	● 111563		
5/16	18	7.93	90	20	35	8	6.2	3	6.5	● 142756	● 111564		
3/8	16	9.52	100	22	39	10	8	3	8	● 142757	● 111565		
7/16	14	11.11	100	19		8	6.2	3	9.3				● 196028
1/2	13	12.7	110	24		9	7	3	10.8			● 142758	● 111566
5/8	11	15.87	110	30		12	9	3	13.6			● 142759	● 111567
3/4	10	19.05	125	33		14	11	4	16.6			● 142760	● 111568
7/8	9	22.22	140	36		18	14.5	4	19.5			● 142761	
1	8	25.4	160	39		18	14.5	4	22.3			● 142762	

* Z320V-3 2.5 x P

UNC ASME B1.1

≤ Ø 2.8 > Ø 2.8

PM HSSE



Z362V-3

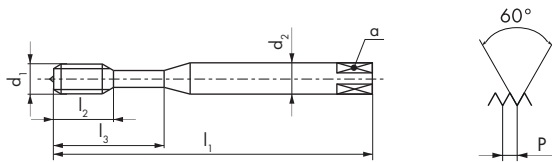


Z462V-3





Z362V-3

Z462V-3



2B

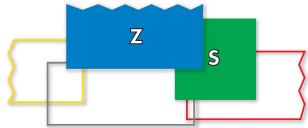
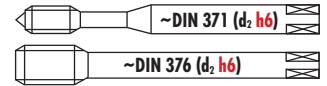
2B

Ø" d ₁ UNC	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm			ID	ID
* 2	56	2.18	45	8		2.8	2.1	2	1.75	● 104695	
* 4	40	2.84	56	5.5	18	3.5	2.7	3	2.25	● 104697	
6	32	3.5	56	6.5	20	4	3	3	2.75	● 104699	
8	32	4.16	63	7.5	21	4.5	3.4	3	3.4	● 104700	
10	24	4.82	70	9	25	6	4.9	3	3.8	● 104694	
1/4	20	6.35	80	11	30	7	5.5	3	5.1	● 104693	
5/16	18	7.93	90	12.5	35	8	6.2	3	6.5	● 104698	
3/8	16	9.52	100	14	39	10	8	3	8	● 104696	
7/16	14	11.11	100	14		8	6.2	3	9.3		● 104757
1/2	13	12.7	110	14		9	7	3	10.8		● 104753
5/8	11	15.87	110	18		12	9	3	13.6		● 104756
3/4	10	19.05	125	21		14	11	3	16.6		● 104755
7/8	9	22.22	140	24		18	14.5	3	19.5		● 104758
1	8	25.4	160	27		18	14.5	4	22.3		● 104754

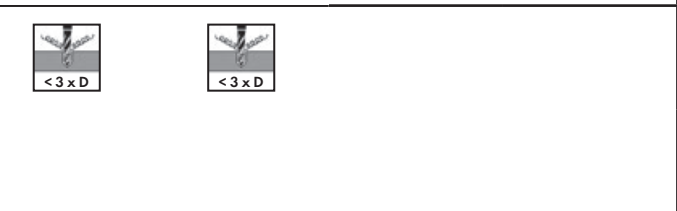
* Z360V-3

UNC ASME B1.1

PM



Z370VS-3 Z470VS-3



Z370VS-3 R45 VS CLASSIC

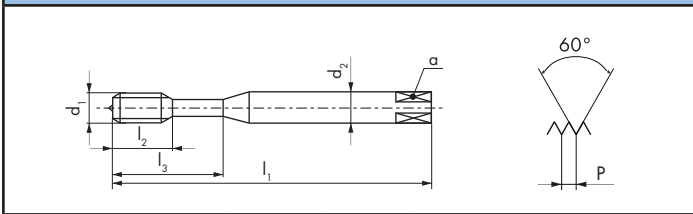
Z470VS-3 R45 VS CLASSIC

Z370VS-3 R45 VS SYNCHRO

Z470VS-3 R45 VS SYNCHRO

14 15 21 22 23
24 51 61 94

13 14 15 21 22
23 24 51 52



C 2.5 x P

2BX

C 2.5 x P

2BX

Ø" d ₁ UNC	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ h ₆ mm	a mm		
6	32	3.5	56	6.5	20	4 (h9)	3	3	2.75
8	32	4.16	63	7.5	21	4.5(h9)	3.4	3	3.4
10	24	4.82	70	9	25	6	4.9	3	3.8
1/4	20	6.35	80	11	30	*6	*4.9	3	5.1
5/16	18	7.93	90	12.5	35	8	6.2	3	6.5
3/8	16	9.52	100	14	39	10	8	3	8
7/16	14	11.11	100	14		8	6.2	3	9.3
1/2	13	12.7	110	14		*10	*8	4	10.8
5/8	11	15.87	110	18		12	9	4	13.6
3/4	10	19.05	125	21		14	11	4	16.6
1	8	25.4	160	27		16	12	4	22.3

ID	ID
● 166123	
● 166124	
● 166125	
● 166126	
● 166127	
● 166128	
	● 166129
	● 166130
	● 166131
	● 166132
	● 175703

* Norme DC / * DC Norm/ * Norma DC

3B
UNC(J)

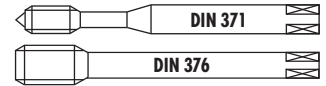
Ø" d ₁ UNC	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ h ₆ mm	a mm		
4	40	2.84	56	5.5	18	3.5(h9)	2.7	3	2.3
6	32	3.5	56	6.5	20	4 (h9)	3	3	2.8
8	32	4.16	63	7.5	21	4.5(h9)	3.4	3	3.45
1/4	20	6.35	80	11	30	*6	*4.9	3	5.2
5/16	18	7.93	90	12.5	35	8	6.2	3	6.7

ID
● 165114
● 165115
● 165116
● 165117
● 165118

* Norme DC / * DC Norm/ * Norma DC

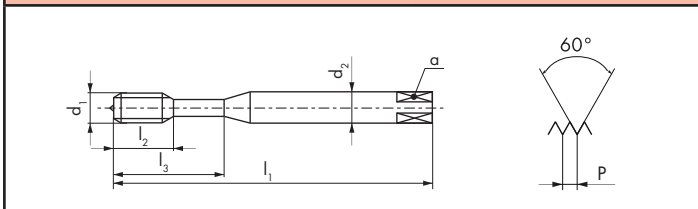
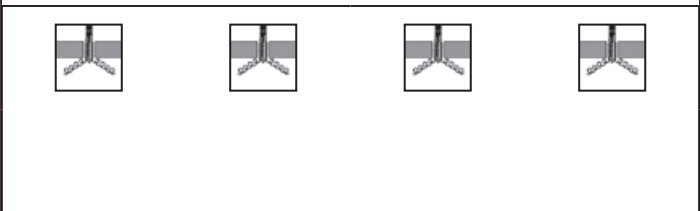
UNC ASME B1.1

PM



H320-4		15 16 62 64 82
H420-4		15 16 62 64 82
H320TC-4	TiCN	15 16 24 31 82 83 92 93
H420TC-4	TiCN	15 16 24 31 82 83 92 93

H320-4	H420-4	H320TC-4	H420TC-4
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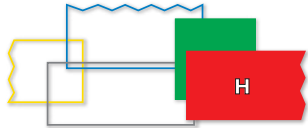
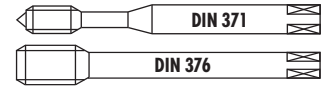
2B	2B	2B	2B

Ø" d ₁ UNC	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm			ID	ID	ID	ID
2	56	2.18	45	8		2.8	2.1	2	1.75	● 101221			
4	40	2.84	56	10	18	3.5	2.7	3	2.25	● 101223			
6	32	3.5	56	13	20	4	3	3	2.75	● 101225		● 196046	
8	32	4.16	63	14	21	4.5	3.4	3	3.4	● 101226		● 196047	
10	24	4.82	70	15	25	6	4.9	3	3.8	● 101220		● 196048	
1/4	20	6.35	80	17	30	7	5.5	3	5.1	● 101219		● 196049	
5/16	18	7.93	90	20	35	8	6.2	3	6.5	● 101224		● 143730	
3/8	16	9.52	100	22	39	10	8	3	8	● 101222		● 196050	
7/16	14	11.11	100	19		8	6.2	3	9.3		● 196051		● 196052
1/2	13	12.7	110	24		9	7	4	10.8		● 101290		● 143731
5/8	11	15.87	110	30		12	9	4	13.6		● 163741		● 196053
3/4	10	19.05	125	33		14	11	4	16.6		● 163743		● 196054

UNC, UNC(I)

UNC ASME B1.1

PM

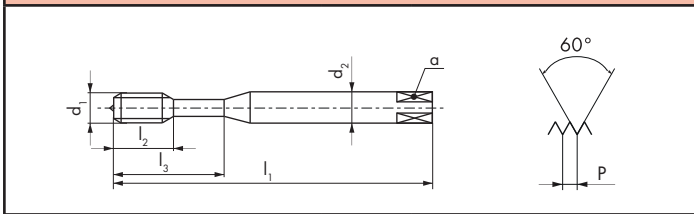


H350-3		15 16 62 64 82
H450-3		15 16 62 64 82
H350TC-3		15 16 24 31 82 83 92 93
H450TC-3		15 16 24 31 82 83 92 93

H350-3	H450-3	H350TC-3	H450TC-3
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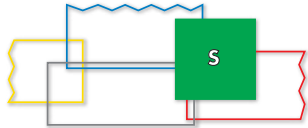
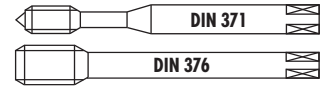


2B	2B	2B	2B

Ø" d ₁ UNC	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm			ID	ID	ID	ID
2	56	2.18	45	8		2.8	2.1	2	1.75	● 101258			
4	40	2.84	56	5.5	18	3.5	2.7	3	2.25	● 101260			
6	32	3.5	56	6.5	20	4	3	3	2.75	● 101262		● 196040	
8	32	4.16	63	7.5	21	4.5	3.4	3	3.4	● 101263		● 196041	
10	24	4.82	70	9	25	6	4.9	3	3.8	● 101257		● 196042	
1/4	20	6.35	80	11	30	7	5.5	3	5.1	● 101256		● 160585	
5/16	18	7.93	90	12.5	35	8	6.2	3	6.5	● 101261		● 160587	
3/8	16	9.52	100	14	39	10	8	3	8	● 101259		● 162106	
7/16	14	11.11	100	14		8	6.2	3	9.3		● 101330		● 196043
1/2	13	12.7	110	14		9	7	4	10.8		● 101326		● 160586
5/8	11	15.87	110	18		12	9	4	13.6		● 101329		● 196044
3/4	10	19.05	125	21		14	11	4	16.6		● 101328		● 196045
1	8	25.4	160	27		18	14.5	4	22.3		● 101327		

UNC ASME B1.1

PM



S320VS-4



VS

13 15 16 22 23 24
52

S420VS-4

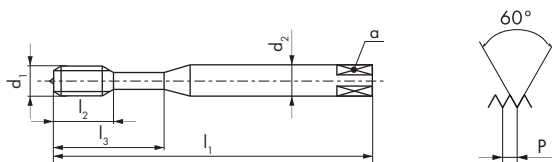


VS

13 15 16 22 23 24
52

S320VS-4

S420VS-4



2B

2B

Ø" d ₁ UNC	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm		
6	32	3.5	56	13	20	4	3	3	2.75
8	32	4.16	63	14	21	4.5	3.4	3	3.4
1/4	20	6.35	80	17	30	7	5.5	3	5.1
5/16	18	7.93	90	20	35	8	6.2	3	6.5
3/8	16	9.52	100	22	39	10	8	3	8
1/2	13	12.7	110	24		9	7	4	10.8
5/8	11	15.87	110	30		12	9	4	13.6
3/4	10	19.05	125	33		14	11	4	16.6

ID

ID

• 111587

• 111588

• 111590

• 111591

• 111592

• 111593

• 111594

• 111595

3B
UNC(J)

Ø" d ₁ UNC	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm		
4	40	2.84	56	12	18	3.5	2.7	3	2.3
6	32	3.5	56	13	20	4	3	3	2.8
8	32	4.16	63	14	21	4.5	3.4	3	3.45
1/4	20	6.35	80	17	30	7	5.5	3	5.2
5/16	18	7.93	90	20	35	8	6.2	3	6.7

ID

• 165314

• 165315

• 165316

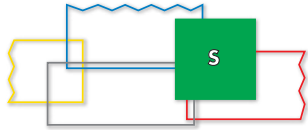
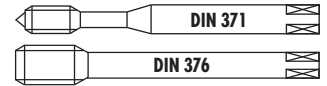
• 165317

* 143761

UNC, UNC(J)

UNC ASME B1.1

PM

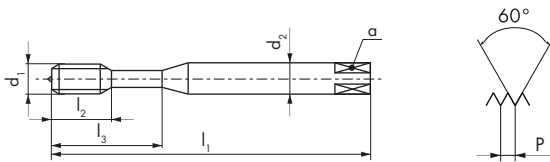


S360VS-3

S460VS-3

S360VS-3

S460VS-3



2B

2B

\emptyset " d ₁ UNC	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm		
6	32	3.5	56	6.5	20	4	3	3	2.75
8	32	4.16	63	7.5	21	4.5	3.4	3	3.4
1/4	20	6.35	80	11	30	7	5.5	3	5.1
5/16	18	7.93	90	12.5	35	8	6.2	3	6.5
3/8	16	9.52	100	14	39	10	8	3	8
1/2	13	12.7	110	14		9	7	4	10.8

ID

ID

● 111530

● 111531

● 111533

● 111534

● 111535

● 111537

aero

SA320-4



15 16 52 64

SA350-3



15 16 52 64

TL320VS-4

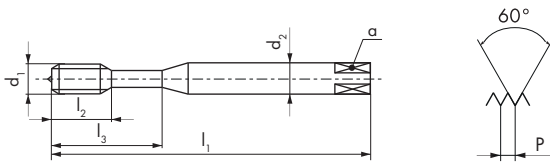


41 42

TL351VS-3



41 42



SA320-4

SA350-3

TL320VS-4

TL351VS-3



2B

2B

2B

2B

Ø" d ₁ UNC	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm		
4	40	2.84	56	12		3.5	2.7	3	2.25
5	40	3.17	56	12		3.5	2.7	3	2.55
6	32	3.5	56	13		4	3	3	2.75
8	32	4.16	63	14		4.5	3.4	3	3.4
10	24	4.82	70	15		6	4.9	3	3.8
1/4	20	6.35	80	15	23	7	5.5	3	5.1
5/16	18	7.93	90	18	29	8	6.2	3	6.5
3/8	16	9.52	100	20	33	10	8	3	8

ID

ID

ID

ID

● 147271	● 149003		● 152018
		* 152023	* 152024
● 149055	● 149057	* 152027	● 152028
● 149093	● 149095		● 152037
● 149125	* 149127		
● 149222	● 149224		● 127972
● 149269	● 149271		● 152068
● 149346	● 149348	* 152084	● 152085

3B
UNC(J)

3B
UNC(J)

3B
UNC(J)

3B
UNC(J)

Ø" d ₁ UNC	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm		
4	40	2.84	56	12		3.5	2.7	3	2.3
6	32	3.5	56	13		4	3	3	2.8
8	32	4.16	63	14		4.5	3.4	3	3.45
10	24	4.82	70	15		6	4.9	3	3.9
1/4	20	6.35	80	15	23	7	5.5	3	5.2
5/16	18	7.93	90	18	29	8	6.2	3	6.7
3/8	16	9.52	100	20	33	10	8	3	8.1

ID

ID

ID

ID

● 149005	● 149007	* 148804	● 150194
● 149059	● 149061	* 152029	● 150210
● 149097	● 149099		● 152039
			* 152045
● 149226	● 149228	* 152063	● 152064
● 149273	● 149275	* 152069	● 152070
● 149350	● 149352		● 152087



aero

SA420-4



15 16 52 64

SA450-3



15 16 52 64

SA390-3

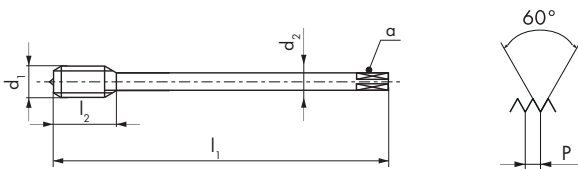


16 53

SA420-4

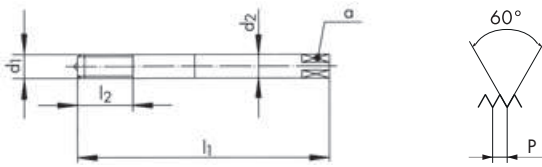
SA450-3

SA390-3



Ø" d ₁ UNC	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm		
1/2	13	12.7	110	24	9	7	4	10.8
5/8	11	15.87	110	30	12	9	4	13.6

ID	ID
● 152247	● 152252
● 152249	● 152254

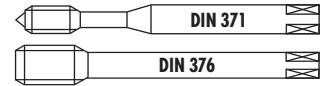


Ø" d ₁ UNC	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm		
4	40	2.84	56	12	3.5	2.7	3	2.3
6	32	3.5	56	13	4	3	3	2.8
8	32	4.16	63	14	4.5	3.4	3	3.45
10	24	4.82	70	15	6	4.9	3	3.9
1/4	20	6.35	80	20	7	5.5	3	5.2
5/16	18	7.93	90	25	8	6.2	3	6.7
3/8	16	9.52	100	30	10	8	3	8.1

ID
● 149652
● 149666
● 149677
● 149685
● 149713
● 149726
● 149747



PM



QTAP

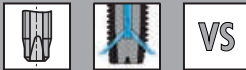
Q320VS-4



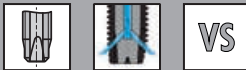
Q420VS-4



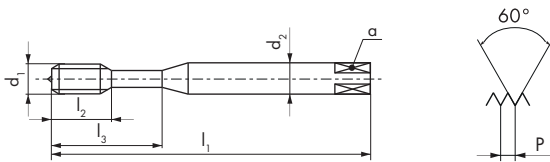
Q323VS-4



Q423VS-4



- 11 12 13 14
- 15 21 22 23
- 24 31 32 51
- 52 61 62 63
- 64 71 72 73
- 74 81 82 83
- 91 92 94



Q320VS-4

Q420VS-4

Q323VS-4

Q423VS-4



NEW



NEW



NEW



NEW



2B

2B

2B

2B

Ø" d ₁ UNC	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm		
6	32	3.5	56	13	20	4	3	3	2.75
8	32	4.16	63	14	21	4.5	3.4	3	3.4
10	24	4.82	70	15	25	6	4.9	3	3.8
1/4	20	6.35	80	17	30	7	5.5	3	5.1
5/16	18	7.93	90	20	35	8	6.2	3	6.5
3/8	16	9.52	100	22	39	10	8	3	8
1/2	13	12.7	110	24		9	7	3	10.8
5/8	11	15.87	110	30		12	9	3	13.6
3/4	10	19.05	125	33		14	11	4	16.6
7/8	9	22.22	140	36		18	14.5	4	19.5
1	8	25.4	160	39		18	14.5	4	22.3

ID

ID

ID

ID

● 196275

● 196320

● 196276

● 196321

● 196277

● 196322

● 196278

● 196323

● 196279

● 196324

● 196280

● 196325

● 196281

● 196326

● 196282

● 196327

● 196283

● 196328

● 196284

● 196329

● 196285

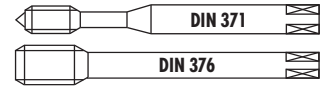
● 196330

UNC, UNC(I)



≤ Ø 16 > Ø 16

PM HSSE



QTAP

Q360VS-3

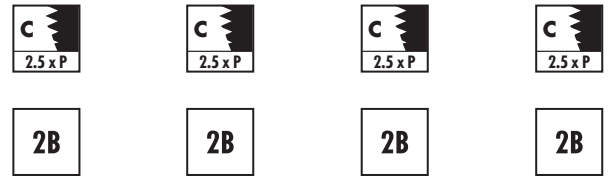
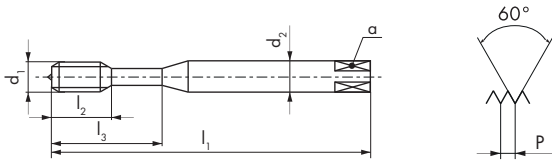
Q460VS-3

Q363VS-3

Q463VS-3

11 12 13 14
15 21 22 23
24 31 32 51
52 61 62 63
64 71 72 73
74 81 82 83
91 92 94

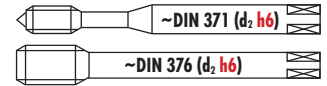
Q360VS-3 **Q460VS-3** **Q363VS-3** **Q463VS-3**



Ø" d ₁ UNC	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm			ID	ID	ID	ID
6	32	3.5	56	6.5	20	4	3	3	2.75	● 196286		● 196331	
8	32	4.16	63	7.5	21	4.5	3.4	3	3.4	● 196287		● 196332	
10	24	4.82	70	9	25	6	4.9	3	3.8	● 196288		● 196333	
1/4	20	6.35	80	11	30	7	5.5	3	5.1	● 196289		● 197622	
5/16	18	7.93	90	12.5	35	8	6.2	3	6.5	● 196290		● 197623	
3/8	16	9.52	100	14	39	10	8	3	8	● 196291		● 197624	
7/16	14	11.11	100	14		8	6.2	3	9.3		● 196292		● 197625
1/2	13	12.7	110	14		9	7	3	10.8		● 196293		● 197626
5/8	11	15.87	110	18		12	9	3	13.6		● 196294		● 197627
3/4	10	19.05	125	21		14	11	3	16.6		● 196295		● 197628
7/8	9	22.22	140	24		18	14.5	3	19.5		● 196296		● 197629
1	8	25.4	160	27		18	14.5	4	22.3		● 196297		● 197630



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



RTS Rigid Tapping Synchro

RTS320VS-4



RTS420VS-4



RTS362VS-3



RTS462VS-3

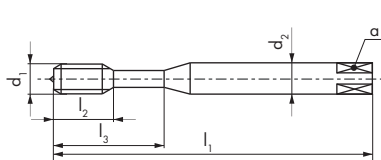


RTS320VS-4

RTS420VS-4

RTS362VS-3

RTS462VS-3



Ø" d ₁ UNC	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ h ₆ mm	a mm			ID
6	32	3.5	56	6.5	20	4 (h9)	3	3	2.75	● 157395
8	32	4.16	63	7.5	21	4.5(h9)	3.4	3	3.4	● 157396
10	24	4.82	70	9	25	6	4.9	3	3.8	● 157397
1/4	20	6.35	80	11	30	* 6	* 4.9	3	5.1	● 157398
5/16	18	7.93	90	12.5	35	8	6.2	3	6.5	● 157399
3/8	16	9.52	100	14	39	10	8	3	8	● 157400
1/2	13	12.7	110	14		* 10	* 8	3	10.8	● 157401

* Norme DC / * DC Norm/ * Norma DC



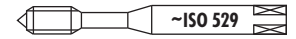
sur demande
 auf Anfrage
 on request
 su richiesta
 sobre pedido
 no zapytany

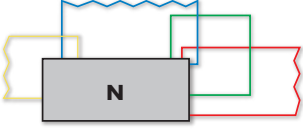



















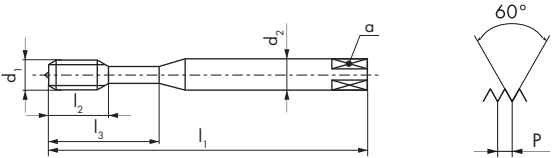










UNC, UNC(I)

UNC ASME B1.1

≤ Ø 2.8 > Ø 2.8

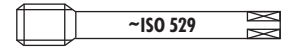
PM HSS



										N1110-1	N1110-2	N1110-3	N1110-S
										N1110-1			
N1110-2					N1110-3								
N1110-3					N1110-S								
													
													
\emptyset " d ₁ UNC	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm			ID	ID	ID	ID
2	56	2.18	45	9.5		2.8	2.1	3	1.75	● 102799	● 102885	● 102998	● 111067
3	48	2.51	45	9.5		2.8	2.1	3	2	* 102800	* 102886	* 102999	* 111068
4	40	2.84	48	11	18	3.15	2.5	3	2.25	● 102802	● 102888	● 103001	● 111070
5	40	3.17	48	11	18	3.15	2.5	3	2.55			● 103002	
6	32	3.5	50	13	20	3.55	2.8	3	2.75	● 102805	● 102891	● 103004	● 111073
8	32	4.16	53	13	21	4.5	3.55	3	3.4	● 102806	● 102892	● 103005	● 111074
10	24	4.82	58	16	25	5	4	3	3.8	● 102797	● 102883	● 102996	● 111065
1/4	20	6.35	66	19	30	6.3	5	3	5.1	● 102796	● 102882	● 102995	● 111064
5/16	18	7.93	72	22	35	8	6.3	3	6.5	● 102804	● 102890	● 103003	● 111072
3/8	16	9.52	80	24	39	10	8	3	8	● 102801	● 102887	● 103000	● 111069

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HSS



										N1210-1	N1210-2	N1210-3	N1210-S					
N1210-1																		
N1210-2																		
N1210-3																		
N1210-S																		
\emptyset " d ₁ UNC	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm				ID	ID	ID	ID					
7/16	14	11.11	85	22	8	6.3				● 103392	● 103466	● 103606	● 111236					
1/2	13	12.7	89	24	9	7.1				● 103387	● 103461	● 103601	● 111229					
5/8	11	15.87	102	32	12.5	10				● 103391	● 103465	● 103605	● 111235					
3/4	10	19.05	112	33	14	11.2				● 103390	● 103464	● 103604	● 111234					
1	8	25.4	130	45	18	14				● 103388	● 103462	● 103602	● 111230					

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