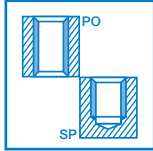
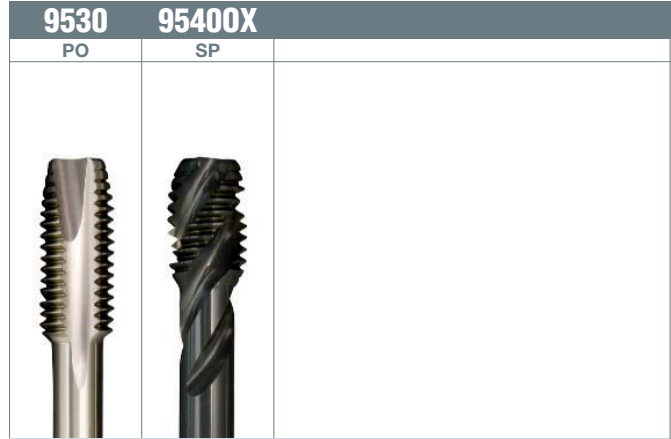


M
DIN352



MATERIAL GROUP	Vc (m/min)	
	BR-OX-NX-NI	TIN-TICN PV15
1-5	5~15	
9-10	3~8	
13-14	8~15	
15-20	10~20	



MATERIAL GROUPS / GRUPPI MATERIALE WERKSTOFFEGRUPPE / GROUPES MATIÈRE							1-5 13 14 15-20		1-5 9 10			
							PO	40°				
							HSSE BR	HSSE OX				
							ISO2 (6H)	ISO2 (6H)				
							3.5P-5P B	2P-3P C				
D	p	\varnothing	L	l	*	d	k	Stock	Stock			
M 3	0.5	2.5	40	11	5	3.5	2.7	○	○			
4	0.7	3.3	45	13	7	4.5	3.4	●	●			
5	0.8	4.2	50	16	9	6	4.9	●	●			
6	1	5	50	19	11	6	4.9	●	●			
8	1.25	6.8	56	22	12	6	4.9	●	●			
10	1.5	8.5	70	24	13	7	5.5	●	●			
12	1.75	10.3	75	29	15	9	7	○	●			
14	2	12	80	30	18	11	9	○	○			
16	2	14	80	32	18	12	9	○	○			
20	2.5	17.5	95	40	20	16	12	○	○			

*1-9540..

● stock standard ○ non-standard stock △ on request EX stock exhaustion



M 3 ~ 16	3	3
18 ~ 20	3	4

M

DIN371

MATERIAL GROUP	Vc (m/min)	
	BR-OX-NX-NI	TiN-TiCN PV15
1-5	5~15	10~25
9-10	4~8	6~12
13-14	8~15	12~25
15-20	10~20	15~25



MATERIAL GROUPS / GRUPPI MATERIALE WERKSTOFFGRUPPE / GROUPES MATIÈRE										1-5 13 14 15-20	1-5 9 10	1-5 13 14 15-20	1-5 13 14 15-20	1-5 13 14 15-20
										40° HSSE BR	40° HSSE PV15	LH40° HSSE BR	40° HSSE BR	40° HSSE BR
										ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO3 (6G)	ISO2+0,05 (6H+0,05)
										2P-3P C	2P-3P C	2P-3P C	2P-3P C	2P-3P C
D	p	Ø	L	l	*	l1	d	k	Stock	Stock	Stock	Stock	Stock	
M 1	0.25	0.75	40	5.5			2.5	2.1	○**					
1.2	0.25	0.95	40	5.5			2.5	2.1	○**					
1.4	0.3	1.1	40	7			2.5	2.1	○**					
1.6	0.35	1.25	40	8			2.5	2.1	○**					
2	0.4	1.6	45	4		9	2.8	2.1	●					
2.5	0.45	2.1	50	4		12.5	2.8	2.1	●					
2.6	0.45	2.2	50	4		12.5	2.8	2.1	●					
3	0.5	2.5	56	5	11	18	3.5	2.7	●	●		●		
3.5	0.6	2.9	56	7		20	4	3	●					
4	0.7	3.3	63	7	13	21	4.5	3.4	●	●	●	●		
5	0.8	4.2	70	9	16	25	6	4.9	●	●	●	●		
6	1	5	80	11	19	30	6	4.9	●	●	●	●	○	
7	1	6	80	11		30	7	5.5	●					
8	1.25	6.8	90	12	22	35	8	6.2	●	●	●	●	○	
10	1.5	8.5	100	13	24	39	10	8	●	●	●	●	○	

*1-9647..

**9640 M1 ~ M1.6 = N-SP

M1 ~ M1.4 = 4H



























M 1 ~ 2.6
3 ~ 10

2
3 3 3 3 3

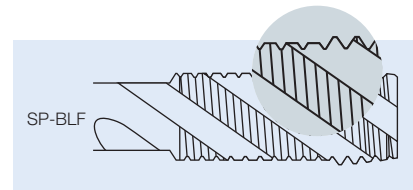
● stock standard ○ non-standard stock △ on request EX stock exhaustion

NEW

964010	9642	96422F	9647	9647E	96470X	9647TC	9647TI	
OS-SP	HISP	HISP	SP-BLF	SP-BLF-E	SP-BLF	SP-BLF	SP-BLF	
oversized / maggiorato / übermaß / surcoté								
								
1-5 13 14 15-20	1 2 15-20	15 17 18	1-5 13 14 15-20	1-5 13 14 15-20	1-5 9 10	1-5 9 10 13 14 15 16 18-20	1-5 9 10 13 14 15 16 18-20	
								
HSSE BR	HSSE BR	HSSE BR	HSSE BR	HSSE BR	HSSE OX	HSSE TiCN	HSSE TiN	
ISO2+0,10 (6H+0,10)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	
								
Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	
								D
								M 1
								1.2
								1.4
								1.6
	●							2
	●							2.5
								2.6
○	●	●	●	○	●	●	●	3
								3.5
●	●	●	●	●	●	●	●	4
●	●	●	●	●	●	●	●	5
●	●	●	●	●	●	●	●	6
								7
●	●		●	●	●	●	●	8
●	●		●	●	●	●	●	10
								p
								0.25
								0.25
								0.3
								0.35
								0.4
								0.45
								0.45
								0.5
								0.6
								0.7
								0.8
								1
								1
								1.25
								1.5

● stock standard ○ non-standard stock △ on request EX stock exhaustion

3	3	2	3	3	3	3	3	M 1 ~ 2.6
								3 ~ 10



M (MJ)

M

DIN376

MATERIAL GROUP	Vc (m/min)	
	BR-OX-NX-NI	TIN-TICN PV15
1-5	5~15	10~25
9-10	4~8	6~12
13-14	8~15	12~25
15-20	10~20	15~25



MATERIAL GROUPS / GRUPPI MATERIALE WERKSTOFFEGRUPPE / GROUPES MATIÈRE										1-5 13 14 15-20	1-5 9 10	1-5 13 14 15-20	1-5 13 14 15-20	1-5 13 14 15-20
										40° HSSE BR	40° HSSE PV15	LH40° HSSE BR	40° HSSE BR	40° HSSE BR
										ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO3 (6G)	ISO2+0,05 (6H+0,05)
										2P-3P C	2P-3P C	2P-3P C	2P-3P C	2P-3P C
D	p	Ø	L	l	*	l2	d	k		Stock	Stock	Stock	Stock	Stock
M 3	0.5	2.5	56	5		17	2.2			○				
4	0.7	3.3	63	7		19	2.8	2.1		○				
5	0.8	4.2	70	9		22	3.5	2.7		●				
6	1	5	80	11		25	4.5	3.4		●				
8	1.25	6.8	90	12		28	6	4.9		●				
10	1.5	8.5	100	13		35	7	5.5		●				
12	1.75	10.3	110	15	29	42	9	7		●	●	●	●	○
14	2	12	110	18	30	49	11	9		●	●	○	○	
16	2	14	110	18	32	56	12	9		●	●	●	○	
18	2.5	15.5	125	20	34	63	14	11		●	○	○		
20	2.5	17.5	140	20	34	70	16	12		●	○	●		
22	2.5	19.5	140	20	34	77	18	14.5		●				
24	3	21	160	25	38	84	18	14.5		●				
27	3	24	160	25	38	95	20	16		●				
30	3.5	26.5	180	30	45	105	22	18		●				
33	3.5	29.5	180	30	50	115	25	20		●				
36	4	32	200	40	55	126	28	22		●				
39	4	35	200	40	60	135	32	24		●				
42	4.5	37.5	200	40		135	32	24		●				
45	4.5	40.5	220	45		155	36	29		○				
48	5	43	250	45		168	36	29		●				

























*1-9747..

● stock standard ○ non-standard stock △ on request EX stock exhaustion



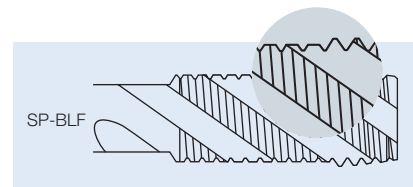
M 3 ~10	3				
12 ~16	3	3	3	3	3
18 ~48	4	4	4		

NEW

974010	9742	97422F	9747	9747E	97470X	9747TC	9747TI	
OS-SP	HISP	HISP	SP-BLF	SP-BLF-E	SP-BLF	SP-BLF	SP-BLF	
oversized / maggiorato / übermaß / surcofé								
								
1-5 13 14 15-20	1 2 15-20	15 17 18	1-5 13 14 15-20	1-5 13 14 15-20	1-5 9 10	1-5 9 10 13 14 15 16 18-20	1-5 9 10 13 14 15 16 18-20	
								
HSSE BR	HSSE BR	HSSE BR	HSSE BR	HSSE BR	HSSE OX	HSSE TiCN	HSSE TiN	
ISO2+0,10 (6H+0,10)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	
								
Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	
								D p
								M 3 0.5
								4 0.7
								5 0.8
								6 1
								8 1.25
								10 1.5
●	○		●	●	●	●	●	12 1.75
	○		●	○	●	●	●	14 2
	○		●	○	●	●	●	16 2
			●		●	●	●	18 2.5
			●	○	●	●	●	20 2.5
			○		●	○	○	22 2.5
			●		●	●	●	24 3
					●			27 3
					●			30 3.5
					●			33 3.5
					●			36 4
					●			39 4
								42 4.5
								45 4.5
								48 5

● stock standard ○ non-standard stock △ on request EX stock exhaustion

3	3	2	3	3	3	3	3	M 3 ~10
			4	4	4	4	4	12 ~16
								18 ~48



M (MJ)

M

DIN371

MATERIAL GROUP	Vc (m/min)	
	BR-OX-NX-NI	TIN-TICN PV15
1-5	10~20	15~25
6	5~15	
9-12	5~20	10~20
15-20	10~20	15~30
22-24	3~10	



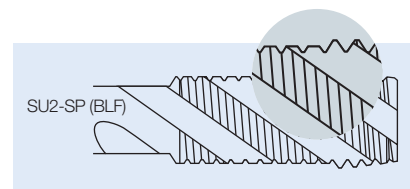
MATERIAL GROUPS / GRUPPI MATERIALE WERKSTOFFEGRUPPE / GROUPES MATIÈRE		4 5 6 9-12 22 24	15-20	15 16 18-20	3-5 9-12	1-5 9 10							
		48° HSS-P OX	45° HSSE NI	45° HSSE TiCN	BLF45° HSSE OX	45° HSSE OX							
		ISO2X (6HX) 3P	ISO2X (6HX) 2P-3P C	ISO2X (6HX) 2P-3P C	ISO2 (6H) 2P-3P C	ISO2 (6H) 2P-3P C							
D	p	Ø	L	l	*	l1	d	k	Stock	Stock	Stock	Stock	Stock
M	2	0.4	1.6	45	4	9	2.8	2.1		●	○		●
	2.5	0.45	2.1	50	4	12.5	2.8	2.1		●	○		●
	3	0.5	2.5	56	5	11	18	3.5	2.7	●	●	●	●
	4	0.7	3.3	63	7	13	21	4.5	3.4	●	●	●	●
	5	0.8	4.2	70	9	16	25	6	4.9	●	●	●	●
	6	1	5	80	11	19	30	6	4.9	●	●	●	●
	8	1.25	6.8	90	12	22	35	8	6.2	●	●	●	●
	10	1.5	8.5	100	13	24	39	10	8	●	●	●	●

*1-9644.. / 9643..
















● stock standard ○ non-standard stock △ on request EX stock exhaustion



M	2 ~ 2.5	2	2	2	2
	3	3	3	2	2
	3.5 ~ 10	3	3	3	3



NEW

9645EOX	9645TC	9645OX6G	9646OX	9648OX	
SP-VA-E	SP-VA	OS-SP-VA	SP-NW	PH-SP	
		oversized / maggiorato / übermaß / surcoat 		SYNCHRO RIGID  ~HRC37	
1-5 9 10	1-5 9 10	1-5 9 10	1 17	4 5 6	
					
HSSE OX	HSSE TiCN	HSSE OX	HSSE OX	HSSE OX	
ISO2 (6H)	ISO2 (6H)	ISO3 (6G)	ISO2 (6H)	ISO2 (6H)	
					
Stock	Stock	Stock	Stock	Stock	
					D
					M 2
					2.5
○	●	○	EX	●	3
○	●	●	EX	●	4
○	●	●	EX	●	5
○	●	●	EX	●	6
○	●	●	EX	●	8
○	●	●	EX	●	10
					p
					0.4
					0.45
					0.5
					0.7
					0.8
					1
					1.25
					1.5

● stock standard ○ non-standard stock △ on request EX stock exhaustion

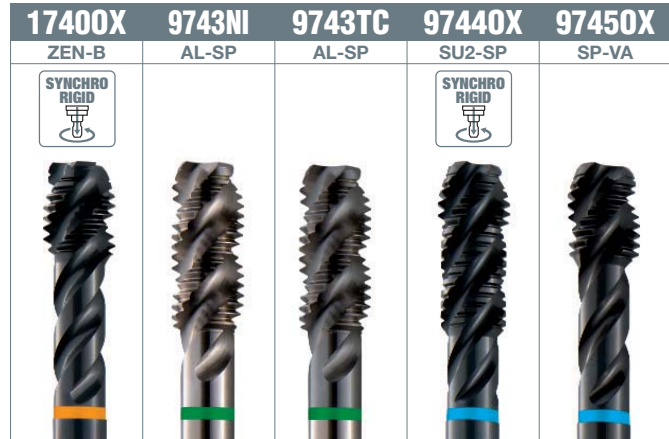
2	2	2	3	3	M 2 ~ 2.5
3	3	3	3	3	3
					3.5 ~ 10

M (MJ)

M

DIN376

MATERIAL GROUP	Vc (m/min)	
	BR-OX-NX-NI	TIN-TICN PV15
1-5	10~20	15~25
6	5~15	
9-12	5~20	10~20
15-20	10~20	15~30
22-24	3~10	



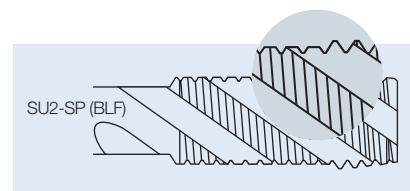
MATERIAL GROUPS / GRUPPI MATERIALE WERKSTOFFEGRUPPE / GROUPES MATIÈRE									4	5	6	9-12	15-20	15	16	18-20	3-5	9-12	1-5	9	10							
									48°	45°	45°	BLF45°	45°	HSS-P	HSSE	HSSE	HSSE	HSSE	OX	NI	TiCN	OX	OX	OX	OX	OX	OX	OX
									ISO2X (6HX)	ISO2X (6HX)	ISO2X (6HX)	ISO2 (6H)	ISO2 (6H)	ISO2X (6HX)	ISO2X (6HX)	ISO2X (6HX)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)					
									3P	2P-3P C	2P-3P C	2P-3P C	2P-3P C	2P-3P C	2P-3P C	2P-3P C	2P-3P C	2P-3P C	2P-3P C	2P-3P C	2P-3P C	2P-3P C	2P-3P C					
D	p	Ø	L	l	*	l2	d	k	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock						
M 8	1.25	6.8	90	12		28	6	4.9																				
10	1.5	8.5	100	13		35	7	5.5																				
12	1.75	10.3	110	15	29	42	9	7	●																			
14	2	12	110	18	30	49	11	9	●																			
16	2	14	110	18	32	56	12	9	●	○																		
18	2.5	15.5	125	20	34	63	14	11	○																			
20	2.5	17.5	140	20	34	70	16	12	●																			
22	2.5	19.5	140	20	34	77	18	14.5																				
24	3	21	160	25	38	84	18	14.5	●																			
27	3	24	160	25		95	20	16																				
30	3.5	26.5	180	30		105	22	18																				
36	4	32	200	40		126	28	22														● NEW						

*1-9744.. / 9743..
















● stock standard ○ non-standard stock △ on request EX stock exhaustion



M 8 ~ 10					3
12 ~ 16	3	3	3	4	3
18 ~ 20	4			4	4
22 ~ 36	4			4	4



NEW

9745EOX	9745TC	9745OX6G	9746OX	9748OX	
SP-VA-E	SP-VA	OS-SP-VA	SP-NW	PH-SP	
		 oversized / maggiorato / übermaß / surcote		 ~HRC37 SYNCHRO RIGID	
1-5 9 10	1-5 9 10	1-5 9 10	1 17	4 5 6	
					
HSSE OX	HSSE TiCN	HSSE OX	HSSE OX	HSSE OX	
ISO2 (6H)	ISO2 (6H)	ISO3 (6G)	ISO2 (6H)	ISO2 (6H)	
					
Stock	Stock	Stock	Stock	Stock	
					D
					M 8
					10
○	●	○	EX	●	12
○	○		EX	●	14
○	●		EX	●	16
				●	18
○	●		EX	●	20
			EX	○	22
					24
				●	27
				●	30
				●	36
					p
					1.25
					1.5
					1.75
					2
					2
					2.5
					2.5
					2.5
					3
					3
					3.5
					4

● stock standard ○ non-standard stock △ on request EX stock exhaustion

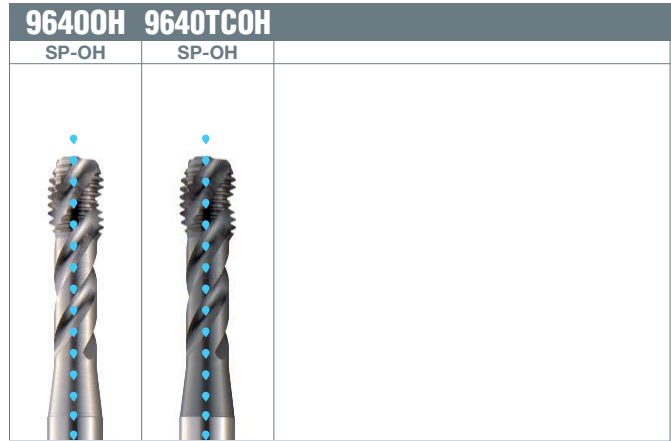
3	3	3	3	4	M 8 ~ 10
4	4		4	4	12 ~ 16
			4	5	18 ~ 20
					22 ~ 36

M (MJ)

M

**DIN371
DIN376**

MATERIAL GROUP	Vc (m/min)	
	BR-OX-NX-NI	TiN-TiCN PV15
1-5	10~20	15~30
9-10		8~15
13-14	10~20	15~30
15-20	10~20	15~30



MATERIAL GROUPS / GRUPPI MATERIALE WERKSTOFFEGRUPPE / GROUPES MATIÈRE		1-5 13 14 15-20		1-5 9 10 13 14 15 16 18-20					
		 HSSE BR	 HSSE TiCN						
		ISO2 (6H) 2P-3P C	ISO2 (6H) 2P-3P C						
D	p		L	I	I1	d	k	Stock	Stock
• DIN371									
M 6	1	5	80	11	30	6	4.9	○	○
8	1.25	6.8	90	12	35	8	6.2	○	○
10	1.5	8.5	100	13	39	10	8	○	○
D	p		L	I	I2	d	k	Stock	Stock
• DIN376									
12	1.75	10.3	110	15	42	9	7	○	○
14	2	12	110	18	49	11	9	○	○
16	2	14	110	18	56	12	9	○	○
20	2.5	17.5	140	20	70	16	12	○	○


● stock standard ○ non-standard stock △ on request EX stock exhaustion



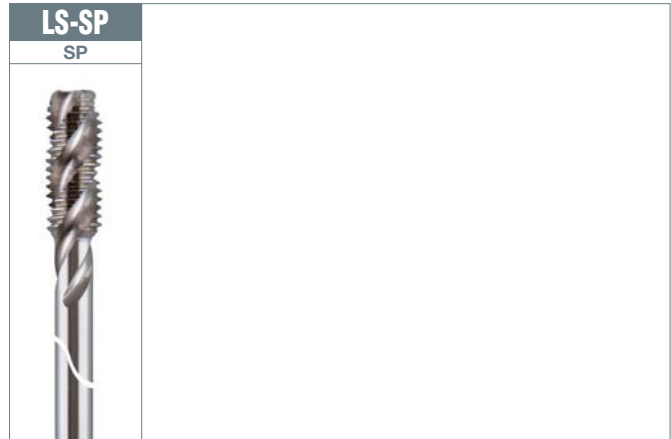
M 6 ~ 16	3	3
20	4	4

M

**JIS
NORM**



MATERIAL GROUP	Vc (m/min)	
	BR-OX-NX-NI	TiN-TiCN PV15
1-5	5~15	
13-14	8~15	
15-20	10~20	



MATERIAL GROUPS / GRUPPI MATERIALE
WERKSTOFFGRUPPE / GROUPES MATIÈRE

1-5 13
14 15-20

40°

HSSE
BR

P CLASS

2,5 P

D	p	\varnothing	L	l	l1	d	k	Stock
M 3	0.5	2.5	100	11	18	4	3.2	● (P1)
4	0.7	3.3	100	13	21	5	4	● (P2)
5	0.8	4.2	100	16	25	5.5	4.5	● (P2)
6	1	5	100	19	30	6	4.5	● (P2)
8	1.25	6.8	100	22		6.2	5	● (P2)
3	0.5	2.5	150	11	18	4	3.2	○ (P1)
4	0.7	3.3	150	13	21	5	4	● (P2)
5	0.8	4.2	150	16	25	5.5	4.5	● (P2)
6	1	5	150	19	30	6	4.5	● (P2)
8	1.25	6.8	150	22		6.2	5	● (P2)
10	1.5	8.5	150	24		7	5.5	● (P2)
12	1.75	10.3	150	29		8.5	6.5	● (P2)
14	2	12	150	30		10.5	8	○ (P2)
16	2	14	150	32		12.5	10	● (P2)
18	2.5	15.5	150	37		14	11	○ (P3)
20	2.5	17.5	150	37		15	12	● (P3)
10	1.5	8.5	200	24		7	5.5	● (P2)
12	1.75	10.3	200	29		8.5	6.5	● (P2)
14	2	12	200	30		10.5	8	○ (P2)
16	2	14	200	32		12.5	10	● (P2)
18	2.5	15.5	200	37		14	11	○ (P3)
20	2.5	17.5	200	37		15	12	● (P3)
24	3	21	200	45		19	15	● (P3)

P CLASS page 50

● stock standard ○ non-standard stock △ on request EX stock exhaustion



M 3 ~ 16	3
18 ~ 24	4

M

DIN371

MATERIAL GROUP	Vc (m/min)	
	BR-OX-NX-NI	TIN-TICN PV15
1-5	5~20	10~30
6-7	5~10	8~15
13-14	10~15	15~25
15-20	10~20	15~30
21-23-25-26	5~10	









MATERIAL GROUPS / GRUPPI MATERIALE WERKSTOFFEGRUPPE / GROUPES MATIÈRE									4 5 6 7 13 14 18-20 21 23 25 26	4 5 6 7 13 14 23 25	1-5 13 14 15-20	1-5	1-5 13 14 15 16 18-20
									15° HSS-P NI ISO2X (6HX) 3P	15° HSS-P TICN ISO2X (6HX) 3P	20° HSS BR ISO2 (6H) 3.5P-5P D	20° HSSE OX ISO2 (6H) 3.5P-5P D	20° HSSE TICN ISO2 (6H) 3.5P-5P D
									Stock	Stock	Stock	Stock	Stock
									●	○	●	●	○
									●	●	●	●	○
D	p	∅	L	l	*	l1	d	k	Stock	Stock	Stock	Stock	Stock
M 2	0.4	1.6	45	8			2.8	2.1				○	
2.5	0.45	2.1	50	9			2.8	2.1				○	
3	0.5	2.5	56	11	5	18	3.5	2.7	●	○	●	●	○
4	0.7	3.3	63	13	7	21	4.5	3.4	●	○	●	●	○
5	0.8	4.2	70	16	9	25	6	4.9	●	○	●	●	○
6	1	5	80	19	11	30	6	4.9	●	●	●	●	○
8	1.25	6.8	90	22	12	35	8	6.2	●	●	●	●	○
10	1.5	8.5	100	24	13	39	10	8	●	●	●	●	○

*l-1641..

● stock standard ○ non-standard stock △ on request EX stock exhaustion



M 2 ~ 2.6			2	2	2
3	3	3	2	2	2
4 ~ 10	3	3	3	3	3

9641TI		9641OX6G	
LOSP		OS-LOSP	
			
		oversized / maggiorato / übermaß / surcoté	
<div style="display: flex; justify-content: space-between;"> 1-5 13 14 1-5 </div> <div style="display: flex; justify-content: space-between;"> 15 16 18-20 </div>			
<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;">  20° </div> <div style="text-align: center;">  20° </div> </div>			
<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> HSSE TiN </div> <div style="text-align: center;"> HSSE OX </div> </div>			
<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> ISO2 (6H) </div> <div style="text-align: center;"> ISO3 (6G) </div> </div>			
<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;">  3.5P-5P D </div> <div style="text-align: center;">  3.5P-5P D </div> </div>			
Stock		Stock	
		D	
		p	
		M	
		2	0.4
		2.5	0.45
○	EX	3	0.5
○	EX	4	0.7
○	EX	5	0.8
○	EX	6	1
○		8	1.25
○		10	1.5

● stock standard ○ non-standard stock △ on request EX stock exhaustion

2		M 2 ~ 2.6
2	2	3
3	3	4 ~ 10

M (MJ)

M

DIN376

MATERIAL GROUP	Vc (m/min)	
	BR-OX-NX-NI	TIN-TICN PV15
1-5	5~20	10~30
6-7	5~10	8~15
13-14	10~15	15~25
15-20	10~20	15~30
21-23-25-26	5~10	









MATERIAL GROUPS / GRUPPI MATERIALE WERKSTOFFEGRUPPE / GROUPES MATIÈRE							4 5 6 7 13 14 18-20 21 23 25 26		4 5 6 7 13 14 23 25		1-5 13 14 15-20		1-5	1-5 13 14 15 16 18-20							
													HSS-P	HSS-P	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	TICN
							NI	TICN	BR	OX	TICN	IS02X (6HX)	IS02X (6HX)	IS02 (6H)	IS02 (6H)	IS02 (6H)	IS02 (6H)	IS02 (6H)	IS02 (6H)	IS02 (6H)	
							Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock	Stock		
D	p		L	l	*	d	k														
M 3	0.5	2.5	56	11		2.2							○								
4	0.7	3.3	63	13		2.8	2.1						○								
5	0.8	4.2	70	16		3.5	2.7						○								
6	1	5	80	19		4.5	3.4						○								
8	1.25	6.8	90	22		6	4.9						○								
10	1.5	8.5	100	24		7	5.5						○								
12	1.75	10.3	110	29	15	9	7	●	●	●	●	●	○	○							
14	2	12	110	30	18	11	9	●	○	○	●	●	○	○							
16	2	14	110	32	18	12	9	●	○	●	●	●	○	○							
18	2.5	15.5	125	34	20	14	11	○	○		○	○	○	○							
20	2.5	17.5	140	34	20	16	12	●	○	○	●	●	○	○							
22	2.5	19.5	140	34	20	18	14.5				○	○	○	○							
24	3	21	160	38	25	18	14.5	●	○		●	●	○	○							
27	3	24	160	38		20	16				○	○	○	○							
30	3.5	26.5	180	45		22	18				○	○	○	○							

M 3 ~ M24 LOSP = 20°
M27 ~ LOSP = 15°
*l-1741..

● stock standard ○ non-standard stock △ on request EX stock exhaustion



M 3					2
4 ~ 16	3	3	3	3	3
18 ~ 30	4	4	4	4	4

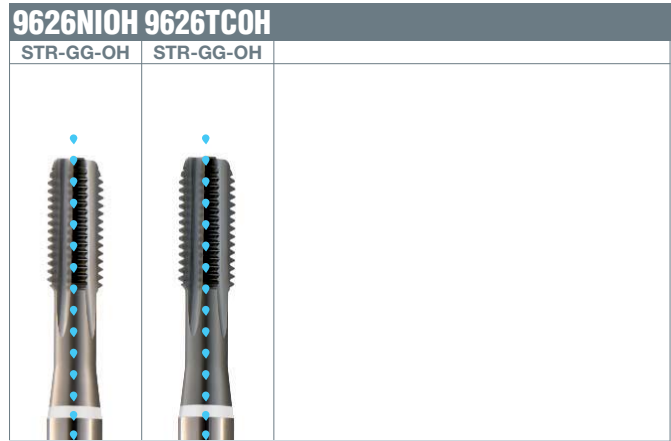
9741TI		97410X6G	
LOSP		OS-LOSP	
		oversized / maggiorato / übermaß / surcote	
1-5 13 14 15 16 18-20	1-5		
			
HSSE TiN	HSSE OX		
ISO2 (6H)	ISO3 (6G)		
			
Stock	Stock		
		D	p
		M 3	0.5
		4	0.7
		5	0.8
		6	1
		8	1.25
		10	1.5
○		12	1.75
○	EX	14	2
○		16	2
		18	2.5
○		20	2.5
		22	2.5
		24	3
		27	3
		30	3.5

● stock standard ○ non-standard stock △ on request EX stock exhaustion

3	3	M 3
4	4	4 ~ 16
		18 ~ 30



MATERIAL GROUP	Vc (m/min)	
	BR-OX-NX-NI	TIN-TICN PV15
13 - 14	15~25	20~40
16 - 19 - 20	10~20	15~30



MATERIAL GROUPS / GRUPPI MATERIALE WERKSTOFFEGRUPPE / GROUPES MATIÈRE									13 14 16 19 20	13 14 16 19 20
D	p		L	l	l1	d	k	Stock	Stock	
• DIN371										
M 6	1	5	80	19	30	6	4.9	●	●	
8	1.25	6.8	90	22	35	8	6.2	●	●	
10	1.5	8.5	100	24	39	10	8	●	●	
• DIN376										
12	1.75	10.3	110	29	9	7		9726NIOH	9726TCOH	
14	2	12	110	30	11	9		●	●	
16	2	14	110	32	12	9		●	●	
18	2.5	15.5	125	34	14	11		○	○	
20	2.5	17.5	140	34	16	12		●	●	

● stock standard ○ non-standard stock △ on request EX stock exhaustion



M 6 ~20

4

4