

STROJNÍ ZÁVITNÍKY

Machine taps / Maschinengewindebohrer



KATALOG
2015

1. Měkké konstrukční oceli s pevností do 500 N/mm²

Soft structural steels up to 500 N/mm² / Weiche Baustähle bis 500 N/mm²

2. Automatové a konstrukční oceli s pevností do 800 N/mm²

Free cutting steels and structural steels up to 800 N/mm²

Automatenstähle und Baustähle bis 800 N/mm²

3. Zušlechtěné a nástrojové oceli s pevností do 1100 N/mm²

Heat-treated steels and tool steels up to 1100 N/mm²

Vergütungsstähle und Werkzeugstähle bis 1100 N/mm²

4. Vysoce legované a zušlechtěné oceli s pevností do 1400 N/mm²

High-alloyed steels and heat-treated steels up to 1400 N/mm²

Hochlegierte und vergütete Stähle bis 1400 N/mm²

5. Nerezavějící a žáruvzdorné oceli

Stainless steels and heat resisting steels / Rostfreie und hitzebeständige Stähle

6. Litiny

Cast iron / Gusswerkstoffe

7. Hliník měkký

Unalloyed aluminium / Reinaluminium

8. Hliník legovaný

Aluminium alloys / Aluminiumlegierungen

9. Měď čistá

Unalloyed copper / Reinkupfer

10. Slitiny mědi

Copper alloys / Kupferlegierungen

11. Zinek

Zinc / Zink

1.1. Konstrukční oceli / Structural steels / Baustähle

1.2. Nelegované lité oceli / Plain cast steels / Unlegierte Gussstähle

2.1. Automatové oceli / Free cutting steels / Automatenstähle

2.2. Konstrukční a zušlechtěné oceli / Structural steels and heat-treated steels
Baustähle und Vergütungsstähle

2.3. Nelegované lité oceli / Plain cast steels / Unlegierte Gussstähle

3.1. Cementační a nitridační oceli / Case hardened steels and nitriding steels
Einsatzstähle und Nitrierstähle

3.2. Zušlechtěné oceli / Heat-treated steels / Vergütungsstähle

3.3. Nástrojové oceli / Tool steels / Werkzeugstähle

4.1. Vysoce legované oceli / High-alloyed steels / Hochlegierte Stähle

4.2. Zušlechtěné oceli / Heat-treated steels / Vergütete Stähle

5.1. S pevností 450 - 800 N/mm² / With strength 450 - 800 N/mm²
Mit Festigkeit bis 450 - 800 N/mm²

5.2. S pevností 600 - 1000 N/mm² / With strength 600 - 1000 N/mm²
Mit Festigkeit bis 600 - 1000 N/mm²

6.1. Šedá litina / Grey cast iron / Grauguss

6.2. Tvárná a temperovaná litina / Spheroidal graphite cast iron
and malleable cast iron / Sphäroguss und Temperguss

7.1. Čistý hliník / Unalloyed aluminium / Reinaluminium

8.1. S obsahem Si < 10% / Si content < 10% / Si-Gehalt < 10%

8.2. S obsahem Si > 10% / Si content > 10% / Si-Gehalt > 10%

9.1. Měď čistá bez přísad / Unalloyed copper / Reinkupfer

10.1. Krátká drobná tříška / Short chipping / Kurzspanend

10.2. Dlouhá vlnutá tříška / Long chipping / Langspanend

11.1. Zinek a slitiny zinku / Zinc and zinc alloys / Zink und Zinklegierungen

SYMBOLY

Symbols / Symbole

typ
N

TYP N - závitník pro oceli s pevností do 800 N/mm²
tap for steels up to 800 N/mm² / Gewindebohrer für Stähle bis 800 N/mm²

typ
VA

TYP VA - závitník pro nerezavějící oceli
tap for stainless steels / Gewindebohrer für rostfreie Stähle

typ
UNI

TYP UNI - závitník pro univerzální použití
tap for universal applications / Gewindebohrer für den universalen Einsatz

OX

oxidace / oxidation / Oxidieren

TiAlN

povlak aluminiumnitridu titanu
titanium aluminiumnitride coating / Titanaluminiumnitrid-Beschichtung

TiCN

povlak karbonitridu titanu
titanium carbonitride coating / Titancarbonitrid-Beschichtung

HL

povlak Balinit® Hardlube
Balinit® Hardlube coating / Balinit® Hardlube-Beschichtung

**HSSE
V3**

vysoce výkonná rychlořezná ocel legovaná vanadem
super high speed steel 3% vanadium alloyed
höher legierter Schnellstahl V 3%

**HSSE
PM**































vysoce výkonná prášková rychlořezná ocel
powder super high speed steel / Pulverstahl


IKZ

































vnitřní přívod chladící kapaliny
internal axial coolant supply / innere Kühlmittelzufuhr axial

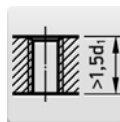
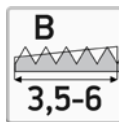
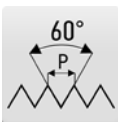
IKZN

vnitřní přívod chladící kapaliny s otvory v drážkách
internal axial coolant supply with hole outlets in the flutes
innere Kühlmittelzuführung axial mit Ölaustritt in den Nuten

1500NX		DIN 371	HSSE V3	ISO 2 6H	B 3,5-6	800 N/mm ²		M3-M10	4
1540NX		DIN 371	HSSE V3	ISO 2 6H	B 3,5-6	800 N/mm ²	 OX	M3-M10	4
1520NX		DIN 371	HSSE V3	ISO 2 6H	B 3,5-6	800 N/mm ²	 TiAlN	M3-M10	4
3500NX		DIN 376	HSSE V3	ISO 2 6H	B 3,5-6	800 N/mm ²		M12-M20	5
3540NX		DIN 376	HSSE V3	ISO 2 6H	B 3,5-6	800 N/mm ²	 OX	M12-M20	5
3520NX		DIN 376	HSSE V3	ISO 2 6H	B 3,5-6	800 N/mm ²	 TiAlN	M12-M20	5
2050NX		DIN 371	HSSE V3	ISO 2 6H	C 2-3	800 N/mm ²	 40° 	M3-M10	6
2090NX		DIN 371	HSSE V3	ISO 2 6H	C 2-3	800 N/mm ²	 40°  OX	M3-M10	6
2070NX		DIN 371	HSSE V3	ISO 2 6H	C 2-3	800 N/mm ²	 40°  TiAlN	M3-M10	6
4050NX		DIN 376	HSSE V3	ISO 2 6H	C 2-3	800 N/mm ²	 40° 	M12-M20	7
4090NX		DIN 376	HSSE V3	ISO 2 6H	C 2-3	800 N/mm ²	 40°  OX	M12-M20	7
4070NX		DIN 376	HSSE V3	ISO 2 6H	C 2-3	800 N/mm ²	 40°  TiAlN	M12-M20	7

1690NX		DIN 371	HSSE V3	ISO 2 6H	B 3,5-6	1100 N/mm ²		OX	M2-M10	8	
1680NX		DIN 371	HSSE V3	ISO 2 6H	B 3,5-6	1100 N/mm ²		TiCN	M3-M10	8	
3690NX		DIN 376	HSSE V3	ISO 2 6H	B 3,5-6	1100 N/mm ²		OX	M3-M36	9	
3680NX		DIN 376	HSSE V3	ISO 2 6H	B 3,5-6	1100 N/mm ²		TiCN	M12-M36	9	
2290NX		DIN 371	HSSE V3	ISO 2 6H	C 2-3	40°	1100 N/mm ²		OX	M2-M10	8
2280NX		DIN 371	HSSE V3	ISO 2 6H	C 2-3	40°	1100 N/mm ²		TiCN	M3-M10	8
4290NX		DIN 376	HSSE V3	ISO 2 6H	C 2-3	40°	1100 N/mm ²		OX	M3-M36	9
4280NX		DIN 376	HSSE V3	ISO 2 6H	C 2-3	40°	1100 N/mm ²		TiCN	M12-M36	9

1720NX		DIN 371	HSSE PM	ISO 2 6HX	B 3,5-6	1300 N/mm ²		HL	M2-M10	10	
1720NX		DIN 371	HSSE PM	ISO 3 6GX	B 3,5-6	1300 N/mm ²		HL	M3-M10	10	
1720NXIKZN		DIN 371	HSSE PM	ISO 2 6HX	B 3,5-6	1300 N/mm ²		HL	IKZN	M6-M10	10
3720NX		DIN 376	HSSE PM	ISO 2 6HX	B 3,5-6	1300 N/mm ²		HL	M12-M30	11	
3720NX		DIN 376	HSSE PM	ISO 3 6GX	B 3,5-6	1300 N/mm ²		HL	M12-M20	11	
3720NXIKZN		DIN 376	HSSE PM	ISO 2 6HX	B 3,5-6	1300 N/mm ²		HL	IKZN	M12-M20	11
2220NX		DIN 371	HSSE PM	ISO 2 6HX	C 2-3	1300 N/mm ²		HL	M2-M10	12	
2220NX		DIN 371	HSSE PM	ISO 3 6GX	C 2-3	1300 N/mm ²		HL	M3-M10	12	
2220NXIKZ		DIN 371	HSSE PM	ISO 2 6HX	C 2-3	1300 N/mm ²		HL	IKZ	M6-M10	12
4220NX		DIN 376	HSSE PM	ISO 2 6HX	C 2-3	1300 N/mm ²		HL	M12-M30	13	
4220NX		DIN 376	HSSE PM	ISO 3 6GX	C 2-3	1300 N/mm ²		HL	M12-M20	13	
4220NXIKZ		DIN 376	HSSE PM	ISO 2 6HX	C 2-3	1300 N/mm ²		HL	IKZ	M12-M20	13
3720NX		DIN 374	HSSE PM	ISO 2 6HX	B 3,5-6	1300 N/mm ²		HL	M8 x 1 - M20 x 1,5	14	
4220NX		DIN 374	HSSE PM	ISO 2 6HX	C 2-3	1300 N/mm ²		HL	M8 x 1 - M20 x 1,5	14	
3722NX		DIN 5156	HSSE PM		B 3,5-6	1300 N/mm ²		HL	G1/8"-G1"	15	
4222NX		DIN 5156	HSSE PM		C 2-3	1300 N/mm ²		HL	G1/8"-G1"	15	



SKUPINA OBRÁBĚNÉHO MATERIÁLU

Material group / Werkstoffgruppe

1.1 1.2 2.1 2.2 2.3 7.1 8.1 8.2



1500NX

1.1 1.2 2.1 2.2 2.3 7.1 8.1 8.2



1540NX

1.1 1.2 2.1 2.2 2.3



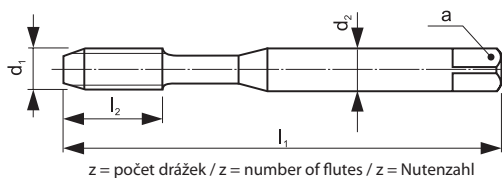
1520NX

KATALOGOVÉ ČÍSLO / Cat. No. / Kat. Nr.

1500NX

1540NX

1520NX



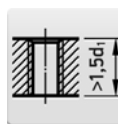
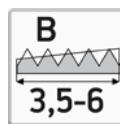
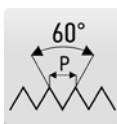
d ₁	P	l ₁	l ₂	d ₂	a	z	Ø mm	
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M3	0,5	56	11	3,5	2,7	3	2,5	●	●	●
M4	0,7	63	13	4,5	3,4	3	3,3	●	●	●
M5	0,8	70	16	6	4,9	3	4,2	●	●	●
M6	1	80	19	6	4,9	3	5	●	●	●
M8	1,25	90	22	8	6,2	3	6,8	●	●	●
M10	1,5	100	24	10	8	3	8,5	●	●	●

Řezné rychlosti / cutting speeds / Schnittgeschwindigkeiten

V _c m/min	1.1.	1.2.	2.1.	2.2.	2.3.	3.1.	3.2.	3.3.	4.1.	4.2.	5.1.	5.2.	6.1.	6.2.	7.1.	8.1.	8.2.	9.1.	10.1.	10.2.	11.1.
1500NX	10-15	12-15	10-15	10-15	10-15										10-15	10-15	10-15				
1540NX	10-15	12-15	10-15	10-15	10-15										12-15	12-15	12-15				
1520NX	15-22	15-22	12-20	12-20	12-20																

● Dodáváme standardně / standard supplies / Standardlieferbar
 X.X Doporučené užití / Recommended use / Optimal
 X.X Možno použít / Possible use / Geeignet



SKUPINA OBRÁBĚNÉHO MATERIÁLU

Material group / Werkstoffgruppe

1.1 1.2 2.1 2.2 2.3 7.1 8.1 8.2



3500NX

1.1 1.2 2.1 2.2 2.3 7.1 8.1 8.2



3540NX

1.1 1.2 2.1 2.2 2.3



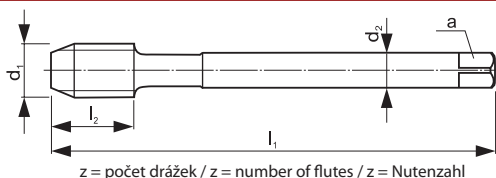
3520NX

KATALOGOVÉ ČÍSLO / Cat. No. / Kat. Nr.

3500NX

3540NX

3520NX

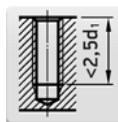
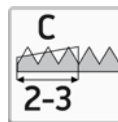
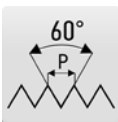


d ₁	P	l ₁	l ₂	d ₂	a	z	Ø mm	
M3	0,5	56	11	2,2	-	3	2,5	
M4	0,7	63	13	2,8	2,1	3	3,3	
M5	0,8	70	16	3,5	2,7	3	4,2	
M6	1	80	19	4,5	3,4	3	5	
M8	1,25	90	22	6	4,9	3	6,8	
M10	1,5	100	24	7	5,5	3	8,5	
M12	1,75	110	28	9	7	3	10,2	●
M14	2	110	30	11	9	3	12	●
M16	2	110	32	12	9	3	14	●
M18	2,5	125	34	14	11	3	15,5	●
M20	2,5	140	34	16	12	3	17,5	●
M22	2,5	140	34	18	14,5	3	19,5	●
M24	3	160	38	18	14,5	3	21	
M27	3	160	38	20	16	4	24	
M30	3,5	180	45	22	18	4	26,5	
M33	3,5	180	50	25	20	4	29,5	
M36	4	200	56	28	22	4	32	

Řezné rychlosti / cutting speeds / Schnittgeschwindigkeiten

V _c m/min	1.1.	1.2.	2.1.	2.2.	2.3.	3.1.	3.2.	3.3.	4.1.	4.2.	5.1.	5.2.	6.1.	6.2.	7.1.	8.1.	8.2.	9.1.	10.1.	10.2.	11.1.
3500NX	10-15	12-15	10-15	10-15	10-15										10-15	10-15	10-15				
3540NX	10-15	12-15	10-15	10-15	10-15										12-15	12-15	12-15				
3520NX	15-22	15-22	12-20	12-20	12-20																

● Dodáváme standardně / standard supplies / Standardlieferbar
 X.X Doporučené užití / Recommended use / Optimal
 X.X Možno použít / Possible use / Geeignet



SKUPINA OBRÁBĚNÉHO MATERIÁLU

Material group / Werkstoffgruppe

1.1 1.2 2.1 2.2 2.3 7.1 8.1 8.2



2050NX

1.1 1.2 2.1 2.2 2.3 7.1 8.1 8.2



2090NX

1.1 1.2 2.1 2.2 2.3



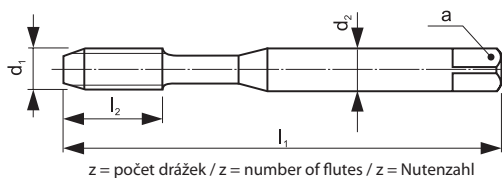
2070NX

KATALOGOVÉ ČÍSLO / Cat. No. / Kat. Nr.

2050NX

2090NX

2070NX



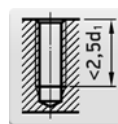
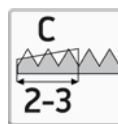
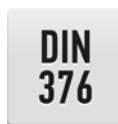
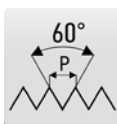
d_1	P	l_1	l_2	d_2	a	z	\varnothing mm	
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M3	0,5	56	5	3,5	2,7	3	2,5		●	●	●
M4	0,7	63	7	4,5	3,4	3	3,3		●	●	●
M5	0,8	70	8	6	4,9	3	4,2		●	●	●
M6	1	80	10	6	4,9	3	5		●	●	●
M8	1,25	90	13	8	6,2	3	6,8		●	●	●
M10	1,5	100	15	10	8	3	8,5		●	●	●

Řezné rychlosti / cutting speeds / Schnittgeschwindigkeiten

V_c m/min	1.1.	1.2.	2.1.	2.2.	2.3.	3.1.	3.2.	3.3.	4.1.	4.2.	5.1.	5.2.	6.1.	6.2.	7.1.	8.1.	8.2.	9.1.	10.1.	10.2.	11.1.
2050NX	8-10	8-10	8-10	8-10	8-10										8-10	8-10	8-10				
2090NX	10-12	10-12	10-12	10-12	10-12										10-15	10-15	10-15				
2070NX	10-12	10-12	12-15	12-15	12-15																

● Dodáváme standardně / standard supplies / Standardlieferbar
 X.X Doporučené užití / Recommended use / Optimal
 X.X Možno použít / Possible use / Geeignet



SKUPINA OBRÁBĚNÉHO MATERIÁLU

Material group / Werkstoffgruppe

1.1 1.2 2.1 2.2 2.3 7.1 8.1 8.2



4050NX

1.1 1.2 2.1 2.2 2.3 7.1 8.1 8.2



4090NX

1.1 1.2 2.1 2.2 2.3



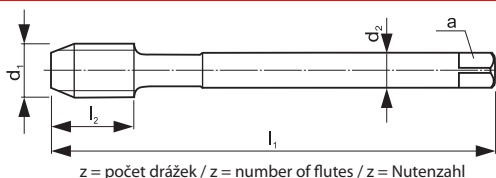
4070NX

KATALOGOVÉ ČÍSLO / Cat. No. / Kat. Nr.

4050NX

4090NX

4070NX

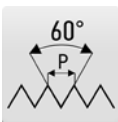


d ₁	P	l ₁	l ₂	d ₂	a	z	Ø mm	
M3	0,5	56	5	2,2	-	3	2,5	
M4	0,7	63	7	2,8	2,1	3	3,3	
M5	0,8	70	8	3,5	2,7	3	4,2	
M6	1	80	10	4,5	3,4	3	5	
M8	1,25	90	13	6	4,9	3	6,8	
M10	1,5	100	15	7	5,5	3	8,5	
M12	1,75	110	18	9	7	3	10,2	●
M14	2	110	20	11	9	3	12	●
M16	2	110	20	12	9	3	14	●
M18	2,5	125	25	14	11	4	15,5	●
M20	2,5	140	25	16	12	4	17,5	●
M22	2,5	140	25	18	14,5	4	19,5	
M24	3	160	30	18	14,5	4	21	
M27	3	160	30	20	16	4	24	
M30	3,5	180	35	22	18	4	26,5	
M33	3,5	180	35	25	20	4	29,5	
M36	4	200	40	28	22	4	32	

Řezné rychlosti / cutting speeds / Schnittgeschwindigkeiten

V _c m/min	1.1.	1.2.	2.1.	2.2.	2.3.	3.1.	3.2.	3.3.	4.1.	4.2.	5.1.	5.2.	6.1.	6.2.	7.1.	8.1.	8.2.	9.1.	10.1.	10.2.	11.1.
4050NX	8-10	8-10	8-10	8-10	8-10										8-10	8-10	8-10				
4090NX	10-12	10-12	10-12	10-12	10-12										10-15	10-15	10-15				
4070NX	10-12	10-12	12-15	12-15	12-15																

● Dodáváme standardně / standard supplies / Standardlieferbar
 X.X Doporučené užití / Recommended use / Optimal
 X.X Možno použít / Possible use / Geeignet



SKUPINA OBRÁBĚNÉHO MATERIÁLU

Material group / Werkstoffgruppe

2 3 5 8 9 10 11 6.2 7.1



1690NX

2 3 5 8 9 10 11 6.2 7.1



1680NX

2 3 5 8 9 10 11 6.2 7.1



2290NX

2 3 5 8 9 10 11 6.2 7.1



2280NX

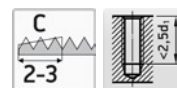
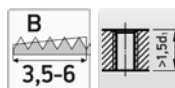
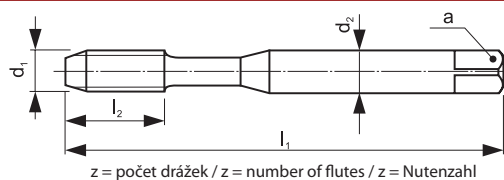
KATALOGOVÉ ČÍSLO / Cat. No. / Kat. Nr.

1690NX

1680NX

2290NX

2280NX



d ₁	P	l ₁	l ₂	l _{2R40°}	d ₂	a	z	Ø mm
M2	0,4	45	8	8	2,8	2,1	2	1,6
M2,5	0,45	50	9	9	2,8	2,1	2	2,05
M3	0,5	56	11	5	3,5	2,7	3	2,5
M3,5	0,6	56	12	6	4	3	3	2,9
M4	0,7	63	13	7	4,5	3,4	3	3,3
M5	0,8	70	16	8	6	4,9	3	4,2
M6	1	80	19	10	6	4,9	3	5
M8	1,25	90	22	13	8	6,2	3	6,8
M10	1,5	100	24	15	10	8	3	8,5

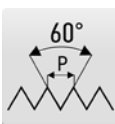
OX	TiCN	OX	TiCN
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●		●	
●		●	
●	●	●	●
●		●	
●	●	●	●
●	●	●	●
●	●	●	●
●	●	●	●
●	●	●	●
●	●	●	●

Řezné rychlosti / cutting speeds / Schnittgeschwindigkeiten

V _c m/min	1.1.	1.2.	2.1.	2.2.	2.3.	3.1.	3.2.	3.3.	4.1.	4.2.	5.1.	5.2.	6.1.	6.2.	7.1.	8.1.	8.2.	9.1.	10.1.	10.2.	11.1.	
1690NX			15-18	15-18	15-18	8-10	8-10	8-10			10-12	10-12		10-12	20-25	10-12	10-12	10-12	10-12	10-12	10-12	10-12
1680NX			15-22	15-22	15-22	15-18	15-18	15-18			15-18	15-18		15-18	32-40	18-22	15-18	22-25	10-12	10-12	10-12	
2290NX			10-15	10-15	10-15	8-10	8-10	8-10			10-12	10-12		10-12	15-20	10-12	10-12	10-12	10-12	10-12	10-12	10-12
2280NX			10-12	10-12	10-12	10-12	10-12	10-12			10-12	10-12		12-16	26-32	15-18	12-16	18-22	10-12	10-12	10-12	10-12

● Dodáváme standardně / standard supplies / Standardlieferbar
 X.X Doporučené užití / Recommended use / Optimal
 X.X Možno použít / Possible use / Geeignet



SKUPINA OBRÁBĚNÉHO MATERIÁLU

Material group / Werkstoffgruppe

2 3 5 8 9 10 11 6.2 7.1



3690NX

2 3 5 8 9 10 11 6.2 7.1



3680NX

2 3 5 8 9 10 11 6.2 7.1



4290NX

2 3 5 8 9 10 11 6.2 7.1



4280NX

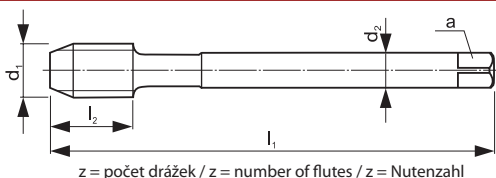
KATALOGOVÉ ČÍSLO / Cat. No. / Kat. Nr.

3690NX

3680NX

4290NX

4280NX



d ₁	P	l ₁	l ₂	l _{2R40°}	d ₂	a	z	Ø mm
M3	0,5	56	11	5	2,2	-	3	2,5
M4	0,7	63	13	7	2,8	2,1	3	3,3
M5	0,8	70	16	8	3,5	2,7	3	4,2
M6	1	80	19	10	4,5	3,4	3	5
M8	1,25	90	22	13	6	4,9	3	6,8
M10	1,5	100	24	15	7	5,5	3	8,5
M12	1,75	110	28	18	9	7	3	10,2
M14	2	110	30	20	11	9	3	12
M16	2	110	32	20	12	9	3	14
M18	2,5	125	34	25	14	11	3	15,5
M20	2,5	140	34	25	16	12	3	17,5
M22	2,5	140	34	25	18	14,5	3	19,5
M24	3	160	38	30	18	14,5	3	21
M27	3	160	38	30	20	16	4	24
M30	3,5	180	45	35	22	18	4	26,5
M33	3,5	180	50	35	25	20	4	29,5
M36	4	200	56	40	28	22	4	32



●		●	
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●		●	
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●	●	●	●
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●	●	●	●
●	●	●	●
●	●	●	●
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●	●	●	●
●	●	●	●
●	●	●	●
●	●	●	●
●	●	●	●

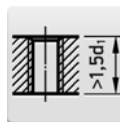
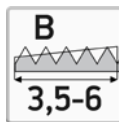
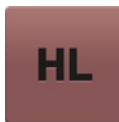
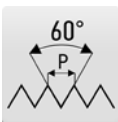
Řezné rychlosti / cutting speeds / Schnittgeschwindigkeiten

V _c m/min	1.1.	1.2.	2.1.	2.2.	2.3.	3.1.	3.2.	3.3.	4.1.	4.2.	5.1.	5.2.	6.1.	6.2.	7.1.	8.1.	8.2.	9.1.	10.1.	10.2.	11.1.	
3690NX			15-18	15-18	15-18	8-10	8-10	8-10			10-12	10-12		10-12	20-25	10-12	10-12	10-12	10-12	10-12	10-12	10-12
3680NX			15-22	15-22	15-22	15-18	15-18	15-18			15-18	15-18		15-18	32-40	18-22	15-18	22-25	10-12	10-12	10-12	
4290NX			10-15	10-15	10-15	8-10	8-10	8-10			10-12	10-12		10-12	15-20	10-12	10-12	10-12	10-12	10-12	10-12	
4280NX			10-12	10-12	10-12	10-12	10-12	10-12			10-12	10-12		12-16	26-32	15-18	12-16	18-22	10-12	10-12	10-12	

● Dodáváme standardně / standard supplies / Standardlieferbar

X.X Doporučené užití / Recommended use / Optimal

X.X Možno použít / Possible use / Geeignet



SKUPINA OBRÁBĚNÉHO MATERIÁLU

Material group / Werkstoffgruppe

1 2 3 4 5 6 7 8 9 10 11



1720NX

1 2 3 4 5 6 7 8 9 10 11

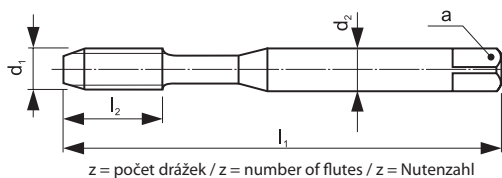
1720NXIKZN

KATALOGOVÉ ČÍSLO / Cat. No. / Kat. Nr.

1720NX

1720NX

1720NXIKZN



ISO 2
6HX

ISO 3
6GX

ISO 2
6HX

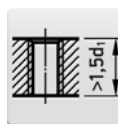
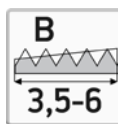
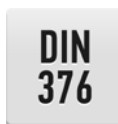
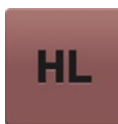
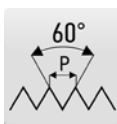
IKZN

d ₁	P	l ₁	l ₂	d ₂	a	z	Ø mm	
M2	0,4	45	8	2,8	2,1	3	1,6	
M2,5	0,45	50	9	2,8	2,1	3	2,05	
M3	0,5	56	11	3,5	2,7	3	2,5	
M4	0,7	63	13	4,5	3,4	3	3,3	
M5	0,8	70	16	6	4,9	3	4,2	
M6	1	80	19	6	4,9	3	5	
M8	1,25	90	22	8	6,2	3	6,8	
M10	1,5	100	24	10	8	3	8,5	

ISO 2 6HX	ISO 3 6GX	ISO 2 6HX	IKZN
●			
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●	●		
●	●		
●	●		
●	●	●	
●	●	●	●
●	●	●	●

Řezné rychlosti / cutting speeds / Schnittgeschwindigkeiten

V _c m/min	1.1.	1.2.	2.1.	2.2.	2.3.	3.1.	3.2.	3.3.	4.1.	4.2.	5.1.	5.2.	6.1.	6.2.	7.1.	8.1.	8.2.	9.1.	10.1.	10.2.	11.1.
1720NX	22-26	22-26	18-22	18-22	18-22	15-18	15-18	15-18	8-14	8-14	12-15	12-15	18-22	15-18	32-40	18-22	15-18	22-25	10-12	10-12	10-12
1720NXIKZN	25-30	25-30	20-25	20-25	20-25	10-12	10-12	10-12	10-16	10-16	12-15	12-15	18-22	15-18	40-50	18-22	15-18	25-30	10-15	12-15	12-15



SKUPINA OBRÁBĚNÉHO MATERIÁLU

Material group / Werkstoffgruppe

1 2 3 4 5 6 7 8 9 10 11



3720NX

1 2 3 4 5 6 7 8 9 10 11



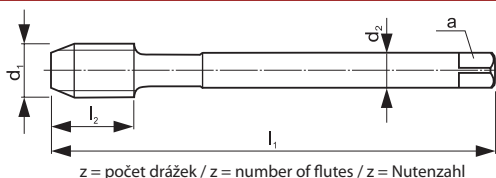
3720NXIKZN

KATALOGOVÉ ČÍSLO / Cat. No. / Kat. Nr.

3720NX

3720NX

3720NXIKZN



ISO 2
6HX

ISO 3
6GX

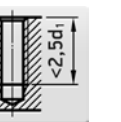
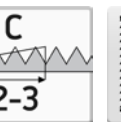
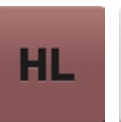
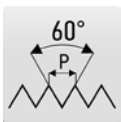
ISO 2
6HX

IKZN

d ₁	P	l ₁	l ₂	d ₂	a	z	Ø mm	
M12	1,75	110	28	9	7	3	10,2	●
M14	2	110	30	11	9	4	12	●
M16	2	110	32	12	9	4	14	●
M20	2,5	140	34	16	12	4	17,5	●
M24	3	160	38	18	14,5	3	21	●
M27	3	160	38	20	16	4	24	●
M30	3,5	180	45	22	18	4	26,5	●

Řezné rychlosti / cutting speeds / Schnittgeschwindigkeiten

V _c m/min	1.1.	1.2.	2.1.	2.2.	2.3.	3.1.	3.2.	3.3.	4.1.	4.2.	5.1.	5.2.	6.1.	6.2.	7.1.	8.1.	8.2.	9.1.	10.1.	10.2.	11.1.
3720NX	22-26	22-26	18-22	18-22	18-22	15-18	15-18	15-18	8-14	8-14	12-15	12-15	18-22	15-18	32-40	18-22	15-18	22-25	10-12	10-12	10-12
3720NXIKZN	25-30	25-30	20-25	20-25	20-25	10-12	10-12	10-12	10-16	10-16	12-15	12-15	18-22	15-18	40-50	18-22	15-18	25-30	10-15	12-15	12-15



SKUPINA OBRÁBĚNÉHO MATERIÁLU

Material group / Werkstoffgruppe

1 2 3 4 5 6 7 8 9 10 11



2220NX

1 2 3 4 5 6 7 8 9 10 11



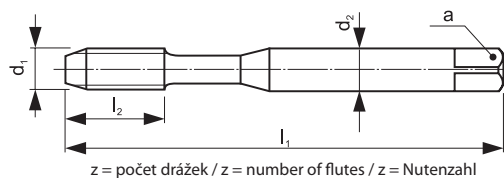
2220NXIKZ

KATALOGOVÉ ČÍSLO / Cat. No. / Kat. Nr.

2220NX

2220NX

2220NXIKZ



ISO 2
6HX

ISO 3
6GX

ISO 2
6HX

IKZ

d_1	P	l_1	l_2	d_2	a	z	\varnothing mm	
M2	0,4	45	8	2,8	2,1	3	1,6	
M2,5	0,45	50	9	2,8	2,1	3	2,05	
M3	0,5	56	11	3,5	2,7	3	2,5	
M4	0,7	63	13	4,5	3,4	3	3,3	
M5	0,8	70	16	6	4,9	3	4,2	
M6	1	80	19	6	4,9	3	5	
M8	1,25	90	22	8	6,2	3	6,8	
M10	1,5	100	24	10	8	3	8,5	

●			
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●	●		
●	●	●	
●	●		●
●	●		●
●	●		●

Řezné rychlosti / cutting speeds / Schnittgeschwindigkeiten

V_c m/min	1.1.	1.2.	2.1.	2.2.	2.3.	3.1.	3.2.	3.3.	4.1.	4.2.	5.1.	5.2.	6.1.	6.2.	7.1.	8.1.	8.2.	9.1.	10.1.	10.2.	11.1.
2220NX	18-22	18-22	10-12	10-12	10-12	10-12	10-12	10-12	10-12	10-12	10-12	10-12	15-18	12-16	26-32	15-18	12-16	18-22	10-12	10-12	10-12
2220NXIKZ	18-22	18-22	10-12	10-12	10-12	10-12	10-12	10-12	10-12	10-12	10-12	10-12	15-18	12-16	26-32	15-18	12-16	18-22	10-12	10-12	10-12



SKUPINA OBRÁBĚNÉHO MATERIÁLU

Material group / Werkstoffgruppe

1 2 3 4 5 6 7 8 9 10 11



4220NX

1 2 3 4 5 6 7 8 9 10 11



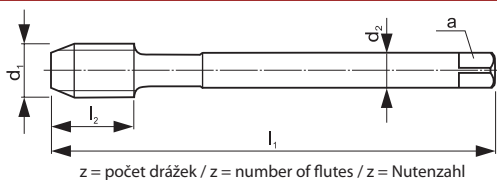
4220NXIKZ

KATALOGOVÉ ČÍSLO / Cat. No. / Kat. Nr.

4220NX

4220NX

4220NXIKZ



ISO 2
6HX

ISO 3
6GX

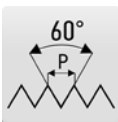
ISO 2
6HX

IKZ

d_1	P	l_1	l_2	d_2	a	z	\emptyset mm	
M12	1,75	110	28	9	7	3	10,2	●
M14	2	110	30	11	9	3	12	●
M16	2	110	32	12	9	3	14	●
M20	2,5	140	34	16	12	3	17,5	●
M24	3	160	38	18	14,5	4	21	●
M27	3	160	38	20	16	5	24	●
M30	3,5	180	45	22	18	5	26,5	●

Řezné rychlosti / cutting speeds / Schnittgeschwindigkeiten

V_c m/min	1.1.	1.2.	2.1.	2.2.	2.3.	3.1.	3.2.	3.3.	4.1.	4.2.	5.1.	5.2.	6.1.	6.2.	7.1.	8.1.	8.2.	9.1.	10.1.	10.2.	11.1.
4220NX	18-22	18-22	10-12	10-12	10-12	10-12	10-12	10-12	10-12	10-12	10-12	10-12	15-18	12-16	26-32	15-18	12-16	18-22	10-12	10-12	10-12
4220NXIKZ	18-22	18-22	10-12	10-12	10-12	10-12	10-12	10-12	10-12	10-12	10-12	10-12	15-18	12-16	26-32	15-18	12-16	18-22	10-12	10-12	10-12



SKUPINA OBRÁBĚNÉHO MATERIÁLU

Material group / Werkstoffgruppe

1 2 3 4 5 6 7 8 9 10 11



3720NX

1 2 3 4 5 6 7 8 9 10 11

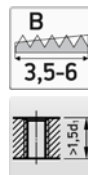
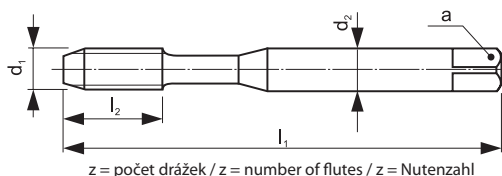


4220NX

KATALOGOVÉ ČÍSLO / Cat. No. / Kat. Nr.

3720NX

4220NX



d_1	P	l_1	l_2	$l_2^{R50^\circ}$	d_2	a	z	Ø mm
M8 x 1	1	90	22	10	6	4,9	3	7
M10 x 1,25	1,25	100	24	12	7	5,5	3	8,8
M10 x 1	1	90	20	12	7	5,5	3	9
M12 x 1,5	1,5	100	22	14	9	7	4	10,5
M12 x 1,25	1,25	100	22	14	9	7	4	10,8
M12 x 1	1	100	22	14	9	7	4	11
M14 x 1,5	1,5	100	22	16	11	9	4	12,5
M16 x 1,5	1,5	100	22	16	12	9	4	14,5
M18 x 1,5	1,5	110	25	20	14	11	4	16,5
M20 x 1,5	1,5	125	25	20	16	12	4	18,5

3720NX	4220NX
●	●
●	●
●	●
●	●
●	●
●	●
●	●
●	●
●	●
●	●
●	●
●	●
●	●
●	●
●	●
●	●
●	●
●	●
●	●
●	●

Řezné rychlosti / cutting speeds / Schnittgeschwindigkeiten

V_c m/min	1.1.	1.2.	2.1.	2.2.	2.3.	3.1.	3.2.	3.3.	4.1.	4.2.	5.1.	5.2.	6.1.	6.2.	7.1.	8.1.	8.2.	9.1.	10.1.	10.2.	11.1.
3720NX	22-26	22-26	18-22	18-22	18-22	15-18	15-18	15-18	8-14	8-14	12-15	12-15	18-22	15-18	32-40	18-22	15-18	22-25	10-12	10-12	10-12
4220NX	18-22	18-22	10-12	10-12	10-12	10-12	10-12	10-12	10-12	10-12	10-12	10-12	15-18	12-16	26-32	15-18	12-16	18-22	10-12	10-12	10-12

G

DIN
ISO 228

typ
UNI

HSSE
PM

HL

DIN
5156

SKUPINA OBRÁBĚNÉHO MATERIÁLU

Material group / Werkstoffgruppe

1 2 3 4 5 6 7 8 9 10 11



3722NX

1 2 3 4 5 6 7 8 9 10 11

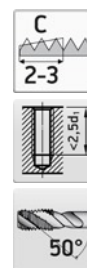
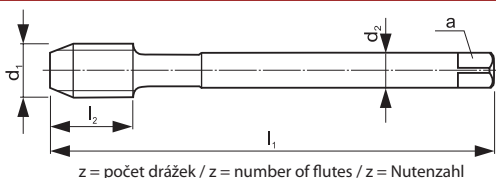


4222NX

KATALOGOVÉ ČÍSLO / Cat. No. / Kat. Nr.

3722NX

4222NX



d_1	TPI	l_1	l_2	$l_2^{R50^\circ}$	d_2	a	z	\varnothing mm	
G1/8	28	90	20	12	7	5,5	3	8,8	●
G1/4	19	100	21	15	11	9	4	11,8	●
G3/8	19	100	21	15	12	9	4	15,25	●
G1/2	14	125	24	18	16	12	4	19	●
G5/8	14	125	24	18	18	14,5	4	21	●
G3/4	14	140	26	20	20	16	5	24,5	●
G1	11	160	28	22	25	20	5	30,75	●

Řezné rychlosti / cutting speeds / Schnittgeschwindigkeiten

V_c m/min	1.1.	1.2.	2.1.	2.2.	2.3.	3.1.	3.2.	3.3.	4.1.	4.2.	5.1.	5.2.	6.1.	6.2.	7.1.	8.1.	8.2.	9.1.	10.1.	10.2.	11.1.
3722NX	22-26	22-26	18-22	18-22	18-22	15-18	15-18	15-18	8-14	8-14	12-15	12-15	18-22	15-18	32-40	18-22	15-18	22-25	10-12	10-12	10-12
4222NX	18-22	18-22	10-12	10-12	10-12	10-12	10-12	10-12	10-12	10-12	10-12	10-12	15-18	12-16	26-32	15-18	12-16	18-22	10-12	10-12	10-12

● Dodáváme standardně / standard supplies / Standardlieferbar
 X.X Doporučené užití / Recommended use / Optimal
 X.X Možno použít / Possible use / Geeignet

1500NX	1.1.	1.2.	2.1.	2.2.	2.3.	7.1.	8.1.	8.2.			
1540NX	1.1.	1.2.	2.1.	2.2.	2.3.	7.1.	8.1.	8.2.			
1520NX	1.1.	1.2.	2.1.	2.2.	2.3.						
3500NX	1.1.	1.2.	2.1.	2.2.	2.3.	7.1.	8.1.	8.2.			
3540NX	1.1.	1.2.	2.1.	2.2.	2.3.	7.1.	8.1.	8.2.			
3520NX	1.1.	1.2.	2.1.	2.2.	2.3.						
2050NX	1.1.	1.2.	2.1.	2.2.	2.3.	7.1.	8.1.	8.2.			
2090NX	1.1.	1.2.	2.1.	2.2.	2.3.	7.1.	8.1.	8.2.			
2070NX	1.1.	1.2.	2.1.	2.2.	2.3.						
4050NX	1.1.	1.2.	2.1.	2.2.	2.3.	7.1.	8.1.	8.2.			
4090NX	1.1.	1.2.	2.1.	2.2.	2.3.	7.1.	8.1.	8.2.			
4070NX	1.1.	1.2.	2.1.	2.2.	2.3.						
1690NX	2	3	5	8	9	10	11	6.2.	7.1.		
1680NX	2	3	5	8	9	10	11	6.2.	7.1.		
2290NX	2	3	5	8	9	10	11	6.2.	7.1.		
2280NX	2	3	5	8	9	10	11	6.2.	7.1.		
3690NX	2	3	5	8	9	10	11	6.2.	7.1.		
3680NX	2	3	5	8	9	10	11	6.2.	7.1.		
4290NX	2	3	5	8	9	10	11	6.2.	7.1.		
4280NX	2	3	5	8	9	10	11	6.2.	7.1.		
1720NX (6HX / 6GX)	1	2	3	4	5	6	7	8	9	10	11
1720NXIKZN	1	2	3	4	5	6	7	8	9	10	11
3720NX (6HX / 6GX)	1	2	3	4	5	6	7	8	9	10	11
3720NXIKZN	1	2	3	4	5	6	7	8	9	10	11
2220NX (6HX / 6GX)	1	2	3	4	5	6	7	8	9	10	11
2220NXIKZ	1	2	3	4	5	6	7	8	9	10	11
4220NX (6HX / 6GX)	1	2	3	4	5	6	7	8	9	10	11
4220NXIKZ	1	2	3	4	5	6	7	8	9	10	11
3720NX (MF)	1	2	3	4	5	6	7	8	9	10	11
4220NX (MF)	1	2	3	4	5	6	7	8	9	10	11
3722NX	1	2	3	4	5	6	7	8	9	10	11
4222NX	1	2	3	4	5	6	7	8	9	10	11

ŘEZNÉ RYCHLOSTI

Cutting speed / Schnittgeschwindigkeiten



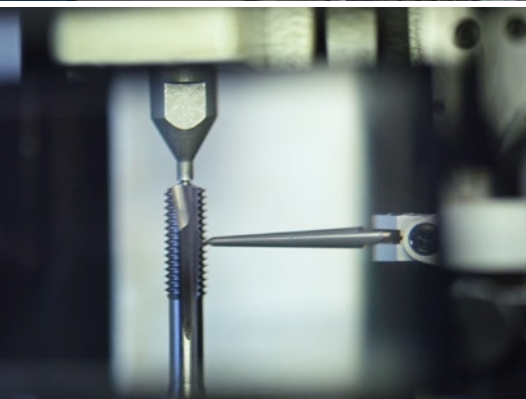
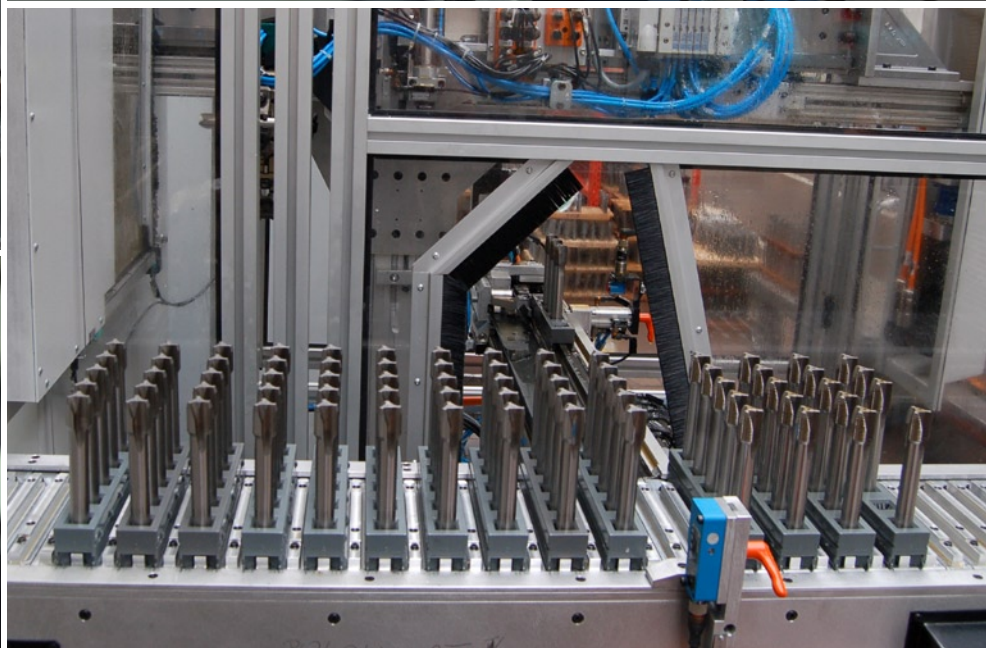
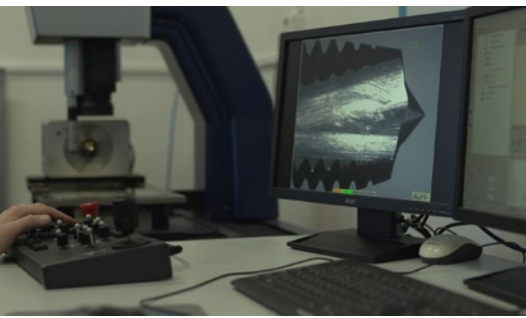
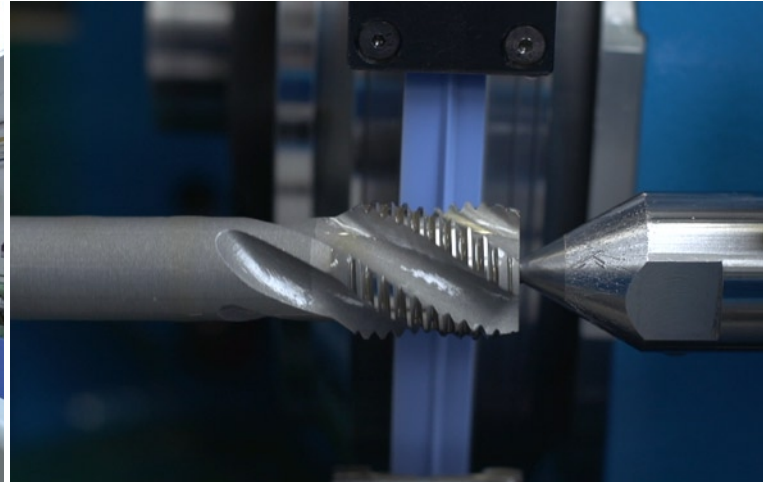
1500NX 1540NX 1520NX 2050NX 2090NX 2070NX 1690NX 1680NX 2290NX 2280NX 1720NX 1720NXIKZN 2220NX 2220NXIKZ 3722NX 4222NX
 3500NX 3540NX 3520NX 4050NX 4090NX 4070NX 3690NX 3680NX 4290NX 4280NX 3720NX 3720NXIKZN 4220NX 4220NXIKZ

1.1.	10-15	10-15	15-22	8-10	10-12	10-12					22-26	25-30	18-22	18-22	22-26	18-22
1.2.	12-15	12-15	15-22	8-10	10-12	10-12					22-26	25-30	18-22	18-22	22-26	18-22
2.1.	10-15	10-15	12-20	8-10	10-12	12-15	15-18	15-22	10-15	10-12	18-22	20-25	10-12	10-12	18-22	10-12
2.2.	10-15	10-15	12-20	8-10	10-12	12-15	15-18	15-22	10-15	10-12	18-22	20-25	10-12	10-12	18-22	10-12
2.3.	10-15	10-15	12-20	8-10	10-12	12-15	15-18	15-22	10-15	10-12	18-22	20-25	10-12	10-12	18-22	10-12
3.1.							8-10	15-18	8-10	10-12	15-18	10-12	10-12	10-12	15-18	10-12
3.2.							8-10	15-18	8-10	10-12	15-18	10-12	10-12	10-12	15-18	10-12
3.3.							8-10	15-18	8-10	10-12	15-18	10-12	10-12	10-12	15-18	10-12
4.1.											8-14	10-16	10-12	10-12	8-14	10-12
4.2.											8-14	10-16	10-12	10-12	8-14	10-12
5.1.							10-12	15-18	10-12	10-12	12-15	12-15	10-12	10-12	12-15	10-12
5.2.							10-12	15-18	10-12	10-12	12-15	12-15	10-12	10-12	12-15	10-12
6.1.											18-22	18-22	15-18	15-18	18-22	15-18
6.2.							10-12	15-18	10-12	12-16	15-18	15-18	12-16	12-16	15-18	12-16
7.1.	10-15	12-15		8-10	10-15		20-25	32-40	15-20	26-32	32-40	40-50	26-32	26-32	32-40	26-32
8.1.	10-15	12-15		8-10	10-15		10-12	18-22	10-12	15-18	18-22	18-22	15-18	15-18	18-22	15-18
8.2.	10-15	12-15		8-10	10-15		10-12	15-18	10-12	12-16	15-18	15-18	12-16	12-16	15-18	12-16
9.1.							10-12	22-25	10-12	18-22	22-25	25-30	18-22	18-22	22-25	18-22
10.1.							10-12	10-12	10-12	10-12	10-12	10-15	10-12	10-12	10-12	10-12
10.2.							10-12	10-12	10-12	10-12	10-12	12-15	10-12	10-12	10-12	10-12
11.1.							10-12	10-12	10-12	10-12	10-12	12-15	10-12	10-12	10-12	10-12

Řezná rychlost m/min / Cutting speed m/min. / Schnittgeschwindigkeit m/Min.

M	G	UN	1	2	3	4	5	6	7	8	9	10	12	14	15	16	18	20	22	24	25	26	28	30	32	34	35	40		
			Otáčky/min. / Revolutions per minute / Drehzahl/Min.																											
2	159	318	478	637	796	955	1115	1274	1433	1592	1911	2229	2389	2548	2866	3185	3503	3822	3981	4140	4459	4777	5096	5414	5573	6369				
2,5	127	255	382	510	637	764	892	1019	1146	1274	1529	1783	1911	2038	2293	2548	2803	3057	3185	3312	3567	3822	4076	4331	4459	5096				
3	No.5	106	212	318	425	531	637	743	849	955	1062	1274	1466	1592	1699	1911	2123	2335	2548	2654	2760	2972	3185	3397	3609	3715	4246			
4	No.8	80	159	239	318	398	478	557	637	717	796	955	1115	1194	1274	1433	1592	1752	1911	1990	2070	2229	2389	2548	2707	2787	3185			
5	No.10	64	127	191	255	318	382	446	510	573	637	764	892	955	1019	1146	1274	1401	1529	1592	1656	1783	1911	2038	2166	2229	2546			
6	1/4	53	106	159	212	265	318	372	425	478	531	637	743	796	849	955	1062	1168	1274	1327	1380	1486	1592	1699	1805	1858	2123			
7		45	91	136	182	227	273	318	364	409	455	546	637	682	728	819	910	1001	1092	1137	1183	1274	1365	1456	1547	1592	1820			
8	1/16"	40	80	119	159	199	239	279	318	358	398	478	557	597	637	717	796	876	955	995	1035	1115	1194	1274	1354	1393	1592			
9		35	71	106	142	177	212	248	283	318	354	425	495	531	566	637	708	778	849	885	920	991	1062	1132	1203	1238	1415			
10	1/8"	32	64	96	127	159	191	223	255	287	318	382	446	478	510	573	637	701	764	796	828	892	955	1019	1083	1115	1274			
12	1/4"	27	53	80	106	133	159	186	212	239	265	318	372	398	425	478	531	584	637	663	690	743	796	849	902	929	1062			
14		23	45	68	91	114	136	159	182	205	227	273	318	341	364	409	455	500	546	569	591	637	682	728	773	796	910			
16	3/8"	20	40	60	80	100	119	139	159	179	199	239	279	299	316	358	398	438	478	498	518	557	597	637	677	697	796			
18		18	35	53	71	99	106	124	142	159	177	212	248	265	283	318	354	389	425	442	460	495	531	566	602	619	708			
20	1/2"	16	32	48	64	80	96	111	127	143	159	191	223	239	255	287	318	350	382	398	414	446	478	510	541	557	637			
22	5/8"	14	29	43	58	72	87	101	116	130	145	174	203	217	232	261	290	318	347	362	376	405	434	463	492	507	579			
24		13	27	40	53	66	80	93	106	119	133	159	186	199	212	239	265	292	318	332	345	372	398	425	451	464	531			
27	3/4"	12	24	35	47	59	71	83	94	106	118	142	165	177	189	212	236	259	283	295	307	330	354	377	401	413	472			
30		11	21	32	42	53	64	74	85	96	106	127	149	159	170	191	212	234	255	265	276	297	318	340	361	372	425			
33	1"	10	19	29	39	48	58	68	77	87	97	116	135	145	154	174	193	212	232	241	251	270	290	309	328	338	386			
36		9	18	27	35	44	53	62	71	80	88	106	124	133	142	159	177	195	212	221	230	248	265	283	301	310	354			
39	1 1/8"	8	16	24	33	41	49	57	65	73	82	98	114	122	131	147	163	180	196	204	212	229	245	261	278	286	327			
42		8	15	23	30	38	45	53	61	68	76	91	106	114	121	136	152	167	182	190	197	212	227	243	258	265	303			
45	1 3/8"	7	14	21	28	35	42	50	57	64	71	85	99	106	113	127	142	156	170	177	184	198	212	226	241	248	283			
48	1 1/2"	7	13	20	27	33	40	46	53	60	66	80	93	100	106	119	133	146	159	166	173	186	199	212	226	232	265			
52		6	12	18	24	31	37	43	49	55	61	73	86	92	98	110	122	135	147	153	159	171	184	196	208	214	245			

VICKERS		BRINELL		ROCKWELL		TENSILE STRNTH R _m		VICKERS		BRINELL		ROCKWELL		TENSILE STRNTH R _m			
HV 30	HB 30	HRB	HRC	N/mm ²	kp/mm ²	HV 30	HB 30	HRB	HRC	N/mm ²	kp/mm ²	HV 30	HB 30	HRB	HRC	N/mm ²	kp/mm ²
80	80	36,4	-	270	28	580	-	-	53,3	-	-						
85	85	42,4	-	290	30	590	-	-	53,9	-	-						
90	90	47,4	-	310	32	600	-	-	54,4	-	-						
95	95	52,0	-	320	33	610	-	-	55,0	-	-						
100	100	56,4	-	340	35	620	-	-	55,5	-	-						
105	105	60,0	-	360	37	630	-	-	56,0	-	-						
110	110	63,4	-	380	39	640	-	-	56,5	-	-						
115	115	66,4	-	390	40	650	-	-	57,0	-	-						
120	120	69,4	-	410	42	660	-	-	57,5	-	-						
125	125	72,0	-	420	43	670	-	-	58,0	-	-						
130	130	74,4	-	440	45	680	-	-	58,5	-	-						
135	135	76,4	-	460	47	690	-	-	59,0	-	-						
140	140	78,4	-	470	48	700	-	-	59,5	-	-						
145	145	80,4	-	490	50	720	-	-	60,4	-	-						
150	150	82,2	-	500	51	740	-	-	61,2	-	-						
155	155	83,8	-	520	53	760	-	-	62,0	-	-						
160	160	85,4	-	540	55	780	-	-	62,8	-	-						
165	165	86,8	-	550	56	800	-	-	63,6	-	-						
170	170	88,2	-	570	58	820	-	-	64,3	-	-						
175	175	89,6	-	590	60	840	-	-	65,0	-	-						
180	180	90,8	-	600	62	860	-	-	65,7	-	-						
185	185	91,8	-	620	63	880	-	-	66,3	-	-						
190	190	93,0	-	640	65	900	-	-	66,9	-	-						
195	195	94,0	-	660	67	920	-	-	67,5	-	-						
200	200	95,0	-	670	68	940	-	-	68,0	-	-						
205	205	95,8	-	680	70												
210	210	96,6	-	710	72												
215	215	97,6	-	720	73												
220	220	98,2	-	730	75												
225	225	99,0	-	750	77												
230	230	-	19,2	760	78												
235	235	-	20,2	780	80												
240	240	-	21,2	800	82												
245	245	-	22,1	820	84												
250	250	-	23,0	830	85												
255	255	-	23,8	850	87												
260	260	-	24,6	870	89												
265	265	-	25,4	880	90												
270	270	-	26,2	900	92												
275	275	-	26,9	920	94												
280	280	-	27,6	940	96												
285	285	-	28,3	950	97												
290	290	-	29,0	970	99												
295	295	-	29,6	990	101												
300	300	-	30,3	1010	103												
310	310	-	31,5	1040	106												
320	320	-	32,7	1080	110												
330	330	-	33,8	1110	113												
340	340	-	34,9	1140	117												
350	350	-	36,0	1170	120												
360	359	-	37,0	1200	123												
370	368	-	38,0	1230	126												
380	376	-	38,9	1260	129												
390	385	-	39,8	1290	132												
400	392	-	40,7	1320	135												
410	400	-	41,5	1350	138												
420	408	-	42,4	1380	144												
440	423	-	44,0	1430	146												
450	430	-	44,8	1460	149												
460	-	-	45,6	-	-												
470	-	-	46,3	-	-												
480	-	-	47,0	-	-												
490	-	-	47,7	-	-												
500	-	-	48,3	-	-												
510	-	-	49,1	-	-												
520	-	-	49,7	-	-												
530	-	-	50,4	-	-												
540	-	-	51,0	-	-												
550	-	-	51,6	-	-												
560	-	-	52,2	-	-												
570	-	-	52,8	-	-												



narex[®] žďánice

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