



Leading Through Innovation

A close-up photograph of a YG HSS-PM Prime Tap. The tap is a dark, multi-fluted tool with a blue-colored hexagonal shank. It is positioned vertically, hovering just above a metal workpiece that has several pre-drilled holes. The background is dark and out of focus.

HSS-PM

PRIME TAP

PRIME GEWINDEBOHRER

- Premium Spiral Point and Spiral Flute Taps for CNC Machines
- High and Reliable Performance on Various Ductile Materials
- Premium Gerade- und Spiralgenutete Gewindebohrer
- Ausgezeichnete und zuverlässige Leistung in verschiedenen Werkstoffen

B76 phone:+82-32-526-0909, www.yg1.solutions, E-mail:yg1@yg1.solutions **YG-1 CO., LTD.**

E-mail:yg1@yg1.solutions YG-1 CO., LTD.



CARBIDE

HSS

PRIME TAP

TRE34 SERIES

M

ISO Metric Coarse Threads DIN 13

Metrisches ISO-Gewinde DIN 13

ISO MÉTRIQUE DIN13

ISO Metrico passo grosso DIN 13

Machine taps
Maschinengewindebohrer

High performance on various ductile materials

Specially designed to prevent oversized threads and reduce gauging problems

Ausgezeichnete Leistung bei verschiedenen Werkstoffen.

Speziell entwickelt, um zu große Gewindedurchmesser zu vermeiden und Messprobleme zu reduzieren.

DIN 371

DIN 376

Hole type
2.5×D

60°

P

Ø d1

60°

P

Ø d1

MU

HSS PM

DIN 371/376

6HX

60°

E

R45

X Coating

p.B88

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	X-Coating	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2	x 0.4	TRE34136GS	3.2	45.0	13.0	2.8	2.1	5.0	2	1.6
M3	x 0.5	TRE34206GS	4.0	56.0	18.0	3.5	2.7	6.0	3	2.5
M4	x 0.7	TRE34246GS	5.6	63.0	21.0	4.5	3.4	6.0	3	3.3
M5	x 0.8	TRE34286GS	6.4	70.0	25.0	6.0	4.9	8.0	3	4.2
M6	x 1.0	TRE34316GS	8.0	80.0	30.0	6.0	4.9	8.0	3	5.0
M8	x 1.25	TRE34366GS	13.0	90.0	35.0	8.0	6.2	9.0	3	6.8
M10	x 1.5	TRE34426GS	15.0	100.0	39.0	10.0	8.0	11.0	3	8.5
M12	x 1.75	TRE34506GS	18.0	110.0	44.0	9.0	7.0	10.0	3	10.3
M14	x 2.0	TRE34546GS	20.0	110.0	44.0	11.0	9.0	12.0	3	12.0
M16	x 2.0	TRE34606GS	20.0	110.0	44.0	12.0	9.0	12.0	3	14.0
M20	x 2.5	TRE34706GS	25.0	140.0	54.0	16.0	12.0	15.0	4	17.5

DIN 371(M2~M10) and DIN 376(M12~M20)

© : Excellent ○ : Good

ISO	P										M										K														
Material Description	Non-alloy steel					Low alloy steel					High alloyed steel, and tool steel					Stainless steel					Grey cast iron					Nodular cast iron					Malleable cast iron				
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	15	16	17	18	19	20	15	16	17	18	19	20			
HRC	13	25	28	32	38	10	29	32	38	15	35	15	23	10	10	26	3	25	21	21	10	26	3	25	21	10	26	3	25	21	21				
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230	180	260	160	250	130	230	180	260	160	250	130	230			
Recommended	○	◎	◎	◎	◎	◎	◎	◎	○	○	◎	◎	◎	◎	○	○	◎	◎	◎	◎	○	○	◎	◎	◎	○	○	◎	◎	◎	◎	◎			
ISO	N										S										H														
Material Description	Aluminum-wrought alloy					Aluminum-cast, alloyed					Copper and Copper Alloys (Bronze / Brass)					Non Metallic Materials					Heat Resistant Super Alloys					Titanium Alloys					Hardened steel				
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	31	32	33	34	35	36	37	38	39	40	41			
HRC	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	200	280	250	350	320	400Rm	1050Rm	550	630	400	550			
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400Rm	1050Rm	550	630	400	550														
Recommended	○	○	◎	◎	○	◎	◎	◎																											

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YG-1 CO., LTD.

CARBIDE

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PRIME TAP

TRE31 SERIES

MF

ISO Metric Fine Threads DIN 13

Metrisches ISO-Feingewinde DIN 13

ISO MÉTRIQUE PAS FINS DIN13

ISO Metrico passo fine DIN 13

Machine taps
Maschinengewindebohrer

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Hole type
2.5×D

60°

P

Ø d1

60°

P

Ø d1

MU

HSS PM

DIN 374

6HX

60°

C

R45

X Coating

p.B88

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	X-Coating	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M4	x 0.5	TRE31256GS	5.6	63.0	21.0	2.8	2.1	5.0	3	3.5
M4	x 0.35	TRE31696GS	5.6	63.0	21.0	2.8	2.1	5.0	3	3.7
M5	x 0.5	TRE31296GS	6.4	70.0	25.0	3.5	2.7	6.0	3	4.5
M6	x 0.75	TRE31326GS	8.0	80.0	30.0	4.5	3.4	6.0	3	5.3
M6	x 0.5	TRE31336GS	8.0	80.0	30.0	4.5	3.4	6.0	3	5.5
M8	x 1.0	TRE31376GS	10.0	90.0	36.0	6.0	4.9	8.0	3	7.0
M8	x 0.75	TRE31386GS	10.0	80.0	30.0	6.0	4.9	8.0	3	7.3
M9	x 1.0	TRE31406GS	10.0	90.0	36.0	7.0	5.5	8.0	3	8.0
M9	x 0.75	TRE31416GS	10.0	80.0	30.0	7.0	5.5	8.0	3	8.3
M10	x 1.25	TRE31436GS	13.0	100.0	40.0	7.0	5.5	8.0	3	8.8
M10	x 0.75	TRE31456GS	10.0	90.0	36.0	7.0	5.5	8.0	3	9.3
M12	x 1.5	TRE31516GS	15.0	100.0	40.0	9.0	7.0	10.0	3	10.5
M12	x 1.25	TRE31526GS	15.0	100.0	40.0	9.0	7.0	10.0	3	10.8
M12	x 1.0	TRE31536GS	15.0	100.0	40.0	9.0	7.0	10.0	3	11.0
M14	x 1.5	TRE31556GS	15.0	100.0	40.0	11.0	9.0	12.0	3	12.5
M14	x 1.25	TRE31566GS	15.0	100.0	40.0	11.0	9.0	12.0	3	12.8
M16	x 1.5	TRE31616GS	15.0	100.0	40.0	12.0	9.0	12.0	3	14.5
M16	x 1.0	TRE31626GS	15.0	100.0	40.0	12.0	9.0	12.0	3	15.0

► NEXT PAGE

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ISO	P										M										K														
Material Description	Non-alloy steel					Low alloy steel					High alloyed steel, and tool steel					Stainless steel					Grey cast iron					Nodular cast iron					Malleable cast iron				
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	15	16	17	18	19	20	15	16	17	18	19	20			
HRC	13	25	28	32	38	10	29	32	38	15	35	15	23	10	10	26	3	25	21	21	10	26	3	25	21	10	26	3	25	21	21				
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230	180	260	160	250	130	230	180	260	160	250	130	230			
Recommended	○	◎	◎	◎	◎	◎	◎	◎	○	○	◎	◎	◎	◎	○	○	◎	◎	◎	◎	○	○	◎	◎	◎	○	○	◎	◎	◎	◎	◎			
ISO	N										S										H														
Material Description	Aluminum-wrought alloy					Aluminum-cast, alloyed					Copper and Copper Alloys (Bronze / Brass)					Non Metallic Materials					Heat Resistant Super Alloys					Titanium Alloys					Hardened steel				
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	31	32	33	34	35	36	37	38	39	40	41			
HRC	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	200	280	250	350	320	400Rm	1050Rm	550	630	400	550			
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400Rm	1050Rm	550	630	400	550														
Recommended	○	○	◎	◎	○	◎	◎	◎																											

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YG-1 CO., LTD.

CARBIDE

HSS

THREAD MILL

SYNCHRO TAP

PRIME TAP

COMBO TAP

YG TAP STEEL

YG TAP CHIP BREAKER

YG TAP INOX

YG TAP CAST IRON

YG TAP HARDENED STEEL

YG TAP Ti Ni

YG TAP ALU

YG TAP FORMING

YG TAP GENERAL

PIPE TAP

STI TAP

NUT TAP

B79


PRIME TAP

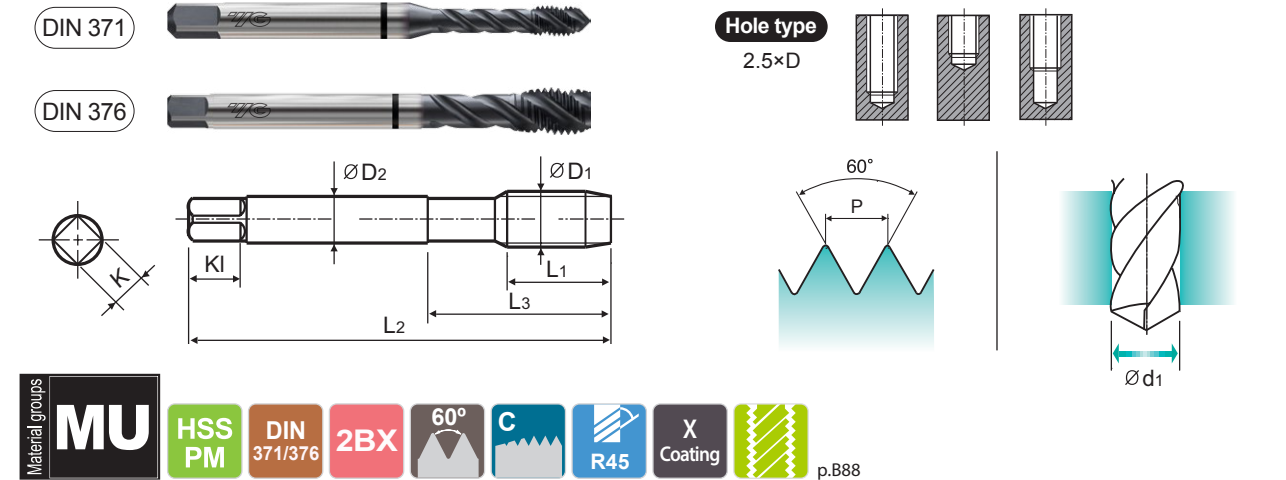
TRE32 SERIES

UNC Unified Coarse Threads

- Unified Grobgewinde
- UNC
- Unificato passo grosso

Machine taps
Maschinengewindebohrer

- High performance on various ductile materials
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- **Ausgezeichnete Leistung bei verschiedenen Werkstoffen.**
 - **Speziell entwickelt, um zu große Gewindedurchmesser zu vermeiden und Messprobleme zu reduzieren.**



Unit : mm										
SIZE	TPI	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1		X-Coating	L1	L2	L3	ØD2	K	KI	Z	Ød1
#4 - 40 UNC		TRE32162GS	5.1	56.0	18.0	3.5	2.7	6.0	2	2.30
#5 - 40 UNC		TRE32202GS	5.1	56.0	18.0	3.5	2.7	6.0	3	2.60
#6 - 32 UNC		TRE32242GS	6.4	56.0	20.0	4.0	3.0	6.0	3	2.80
#8 - 32 UNC		TRE32282GS	6.4	63.0	21.0	4.5	3.4	6.0	3	3.40
#10 - 24 UNC		TRE32322GS	8.5	70.0	25.0	6.0	4.9	8.0	3	3.90
#12 - 24 UNC		TRE32362GS	8.5	80.0	30.0	6.0	4.9	8.0	3	4.50
5/16 - 18 UNC		TRE32442GS	14.2	90.0	35.0	8.0	6.2	9.0	3	6.60
7/16 - 14 UNC		TRE32522GS	18.2	100.0	40.0	8.0	6.2	9.0	3	9.40
1/2 - 13 UNC		TRE32562GS	19.6	110.0	44.0	9.0	7.0	10.0	3	10.80
9/16 - 12 UNC		TRE32602GS	21.2	110.0	44.0	11.0	9.0	12.0	3	12.20
5/8 - 11 UNC		TRE32642GS	23.1	110.0	44.0	12.0	9.0	12.0	3	13.60
3/4 - 10 UNC		TRE32702GS	25.4	125.0	50.0	14.0	11.0	14.0	4	16.50
7/8 - 9 UNC		TRE32742GS	28.3	140.0	54.0	18.0	14.5	17.0	4	19.50
1 - 8 UNC		TRE32782GS	31.8	160.0	60.0	20.0	16.0	19.0	4	22.20

▶ DIN 371(#4~3/8) and DIN 376(7/16~1)

[illegible]

CARBIDE

HSS

PRIME TAP

TRE33 SERIES

UNF

Unified Fine Threads

Unified Feingewinde

UNF

Unificato passo fine

Machine taps
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DIN 371

DIN 374

Hole type

2.5×D

60°

P

ØD1

ØD2

ØD1

KI

L1

L2

L3

MU

HSS PM

DIN 371/374

2BX

60°

C

R45

X Coating

p.B88

Unit : mm

SIZE	TPI	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1		X-Coating	L1	L2	L3	ØD2	K	KI	Z	Ød1
#4 - 48 UNF		TRE33182GS	5.1	56.0	18.0	3.5	2.7	6.0	2	2.40
#5 - 44 UNF		TRE33222GS	5.1	56.0	18.0	3.5	2.7	6.0	3	2.70
#6 - 40 UNF		TRE33262GS	6.4	56.0	20.0	4.0	3.0	6.0	3	2.90
#8 - 36 UNF		TRE33302GS	6.4	63.0	21.0	4.5	3.4	6.0	3	3.50
#10 - 32 UNF		TRE33342GS	8.5	70.0	25.0	6.0	4.9	8.0	3	4.10
#12 - 28 UNF		TRE33382GS	8.5	80.0	30.0	6.0	4.9	8.0	3	4.60
1/4 - 28 UNF		TRE33422GS	10.2	80.0	30.0	7.0	5.5	8.0	3	5.50
5/16 - 24 UNF		TRE33462GS	10.6	90.0	35.0	8.0	6.2	9.0	3	6.90
3/8 - 24 UNF		TRE33502GS	10.6	100.0	39.0	9.0	7.0	10.0	3	8.50
7/16 - 20 UNF		TRE33542GS	12.7	100.0	40.0	8.0	6.2	9.0	3	9.90
1/2 - 20 UNF		TRE33582GS	12.7	100.0	40.0	9.0	7.0	10.0	3	11.50
9/16 - 18 UNF		TRE33622GS	14.2	100.0	40.0	11.0	9.0	12.0	3	12.90
5/8 - 18 UNF		TRE33662GS	14.2	100.0	40.0	12.0	9.0	12.0	3	14.50
3/4 - 16 UNF		TRE33722GS	15.9	110.0	44.0	14.0	11.0	14.0	4	17.50
7/8 - 14 UNF		TRE33762GS	18.2	125.0	50.0	18.0	14.5	17.0	4	20.50
1 - 12 UNF		TRE33802GS	21.2	140.0	54.0	20.0	16.0	19.0	4	23.20

DIN 371(#4~3/8) and DIN 374(7/16~1)

ISO

	P										M					K				
Material Description	Non-alloy steel					Low alloy steel					High alloyed steel, and tool steel					Stainless steel				
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HRC	13	25	28	32	30	10	29	32	38	15	35	15	23	10	10	26	3	25	21	
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230
Recommended	○	◎	◎	◎	◎	◎	◎	◎	○	○	○	◎	◎	◎	○	○	◎	◎	◎	◎
ISO	N										S					H				
Material Description	Aluminum-wrought alloy					Aluminum-cast, alloyed					Copper and Copper Alloys (Bronze / Brass)					Non Metallic Materials				
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
HRC	21	22	23	24	25	26	27	28	29	30	15	30	25	38	34	55	60	42	55	
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400Rm	1050Rm	550	630	400
Recommended	○	○	◎	◎	○	◎	◎	◎												

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ISO

	P										M					K				
Material Description	Non-alloy steel					Low alloy steel					High alloyed steel, and tool steel					Stainless steel				
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HRC	13	25	28	32	30	10	29	32	38	15	35	15	23	10	10	26	3	25	21	
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230
Recommended	◎	◎	◎	◎	◎	◎	◎	◎	◎	○	○	◎	◎	◎	◎	◎	◎	◎	◎	◎
ISO	N										S					H				
Material Description	Aluminum-wrought alloy					Aluminum-cast, alloyed					Copper and Copper Alloys (Bronze / Brass)					Non Metallic Materials				
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
HRC	21	22	23	24	25	26	27	28	29	30	15	30	25	38	34	55	60	42	55	
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400Rm	1050Rm	550	630	400
Recommended	○	○	◎	◎	○	◎	◎	◎												

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CARBIDE

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PRIME TAP

TRJ15 SERIES

M

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Metrisches ISO-Gewinde DIN 13

ISO MÉTRIQUE DIN13

ISO Metrico passo grosso DIN 13

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DIN 371

DIN 376

Hole type

3.0×D

60°

P

ØD1

ØD2

ØD1

KI

L1

L2

L3

MU

HSS PM

DIN 371/376

6HX

60°

B

X Coating

p.B88

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	X-Coating	L1	L2	L3	ØD2	K	KI	Z	Ød1
M2 x 0.4		TRJ15136GS	8.0	45.0	13.0	2.8	2.1	5.0	2	1.6
M3 x 0.5		TRJ15206GS	11.0	56.0	18.0	3.5	2.7	6.0	3	2.5
M3.5 x 0.6		TRJ15226GS	12.0	56.0	20.0	4.0	3.0	6.0	3	2.9
M4 x 0.7		TRJ15246GS	13.0	63.0	21.0	4.5	3.4	6.0	3	3.3
M5 x 0.8		TRJ15286GS	15.0	70.0	25.0	6.0	4.9	8.0	3	4.2
M6 x 1.0		TRJ15316GS	17.0	80.0	30.0	6.0	4.9	8.0	3	5.0
M7 x 1.0		TRJ15346GS	17.0	80.0	30.0	7.0	5.5	8.0	3	6.0
M8 x 1.25		TRJ15366GS	20.0	90.0	35.0	8.0	6.2	9.0	3	6.8
M9 x 1.25		TRJ15396GS	20.0	90.0	35.0	9.0	7.0	10.0	3	7.8
M10 x 1.5		TRJ15426GS	22.0	100.0	39.0	10.0	8.0	11.0	3	8.5
M12 x 1.75		TRJ15506GS	24.0	110.0	44.0	9.0	7.0	10.0	3	10.3
M14 x 2.0		TRJ15546GS	26.0	110.0	44.0	11.0	9.0	12.0	3	12.0
M16 x 2.0		TRJ15606GS	27.0	110.0	44.0	12.0	9.0	12.0	3	14.0
M18 x 2.5		TRJ15656GS	30.0	125.0	50.0	14.0	11.0	14.0	3	15.5
M20 x 2.5		TRJ15706GS	32.0	140.0	54.0	16.0	12.0	15.0	3	17.5
M22 x 2.5		TRJ15746GS	32.0	140.0	54.0	18.0	14.5	17.0	3	19.5
M24 x 3.0		TRJ15786GS	34.0	160.0	60.0	18.0	14.5	17.0	3	21.0

DIN 371(M2~M10) and DIN 376(M12~M24)

ISO

	P										M					K				
Material Description	Non-alloy steel					Low alloy steel					High alloyed steel, and tool steel					Stainless steel				
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HRC	13	25	28	32	30	10	29	32	38	15	35	15	23	10	10	26	3	25	21	
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230
Recommended	◎	◎	◎	◎	◎	◎	◎	◎	◎	○	○	◎	◎	◎	◎	◎	◎	◎	◎	◎
ISO	N										S					H				
Material Description	Aluminum-wrought alloy					Aluminum-cast, alloyed					Copper and Copper Alloys (Bronze / Brass)					Non Metallic Materials				
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
HRC	21	22	23	24	25	26	27	28	29	30	15	30	25	38	34	55	60	42	55	
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400Rm	1050Rm	550	630	400
Recommended	○	○	◎	◎	○	◎	◎	◎												

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ISO

	P										M					K				
Material Description	Non-alloy steel					Low alloy steel					High alloyed steel, and tool steel					Stainless steel				
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HRC	13	25	28	32	30	10	29	32	38	15	35	15	23	10	10	26	3	25	21	
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230
Recommended	◎	◎	◎	◎	◎	◎	◎	◎	◎	○	○	◎	◎	◎	◎	◎	◎	◎	◎	◎
ISO	N										S					H				
Material Description	Aluminum-wrought alloy					Aluminum-cast, alloyed														

CARBIDE

HSS

PRIME TAP

TRJ16 SERIES

MF

ISO Metric Fine Threads DIN 13

Metrisches ISO-Feingewinde DIN 13

ISO MÉTRIQUE PAS FINS DIN13

ISO Metrico passo grosso DIN 13

Machine taps
Maschinengewindebohrer

High performance on various ductile materials

Specially designed to prevent oversized threads and reduce gauging problems

Ausgezeichnete Leistung bei verschiedenen Werkstoffen.

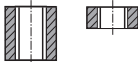
Speziell entwickelt, um zu große Gewindedurchmesser zu vermeiden und Messprobleme zu reduzieren.

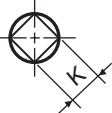
DIN 374

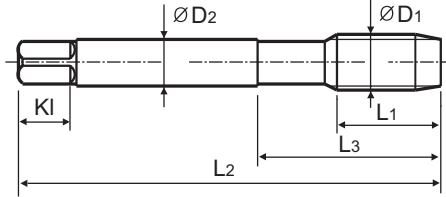


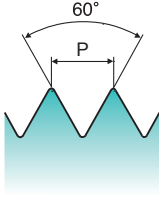
Hole type

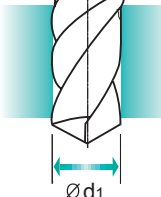
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Material groups

MU

HSS PM

DIN 374

6HX

60°

B

X Coating



p.B88

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	X-Coating	L1	L2	L3	ØD2	K	KI	Z	Ød1
M4	x 0.35	TRJ16696GS	10.0	63.0	21.0	2.8	2.1	5.0	3	3.7
M5	x 0.5	TRJ16296GS	11.0	70.0	25.0	3.5	2.7	6.0	3	4.5
M6	x 0.75	TRJ16326GS	13.0	80.0	30.0	4.5	3.4	6.0	3	5.3
M6	x 0.5	TRJ16336GS	13.0	80.0	30.0	4.5	3.4	6.0	3	5.5
M8	x 1.0	TRJ16376GS	17.0	90.0	36.0	6.0	4.9	8.0	3	7.0
M8	x 0.75	TRJ16386GS	14.0	80.0	30.0	6.0	4.9	8.0	3	7.3
M9	x 1.0	TRJ16406GS	20.0	90.0	36.0	7.0	5.5	8.0	3	8.0
M9	x 0.75	TRJ16416GS	17.0	80.0	36.0	7.0	5.5	8.0	3	8.3
M10	x 1.25	TRJ16436GS	22.0	100.0	40.0	7.0	5.5	8.0	3	8.8
M10	x 1.0	TRJ16446GS	18.0	90.0	36.0	7.0	5.5	8.0	3	9.0
M10	x 0.75	TRJ16456GS	18.0	90.0	36.0	7.0	5.5	8.0	3	9.3
M12	x 1.5	TRJ16516GS	22.0	100.0	40.0	9.0	7.0	10.0	3	10.5
M12	x 1.25	TRJ16526GS	22.0	100.0	40.0	9.0	7.0	10.0	3	10.8
M12	x 1.0	TRJ16536GS	18.0	100.0	40.0	9.0	7.0	10.0	3	11.0
M14	x 1.5	TRJ16556GS	22.0	100.0	40.0	11.0	9.0	12.0	3	12.5
M14	x 1.25	TRJ16566GS	22.0	100.0	40.0	11.0	9.0	12.0	3	12.8
M14	x 1.0	TRJ16576GS	18.0	100.0	40.0	11.0	9.0	12.0	3	13.0
M16	x 1.5	TRJ16616GS	22.0	100.0	40.0	12.0	9.0	12.0	3	14.5
M16	x 1.0	TRJ16626GS	18.0	100.0	40.0	12.0	9.0	12.0	3	15.0

► NEXT PAGE

ISO

	P										M					K				
Material Description	Non-alloy steel					Low alloy steel					High alloyed steel, and tool steel					Stainless steel				
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HRC	13	25	28	32	30	10	29	32	38	15	35	15	23	10	10	26	3	25	21	21
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230
Recommended	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎

ISO

	N										S					H				
Material Description	Aluminum-wrought alloy					Aluminum-cast, alloyed					Copper and Copper Alloys (Bronze / Brass)					Non Metallic Materials				
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
HRC	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400Rm	1050Rm	550	630	400
Recommended	◎	◎	◎	◎	◎	◎	◎	◎			◎	◎	◎	◎	◎	◎	◎	◎	◎	◎

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CARBIDE

HSS

PRIME TAP

TRJ16 SERIES

MF

ISO Metric Fine Threads DIN 13

Metrisches ISO-Feingewinde DIN 13

ISO MÉTRIQUE PAS FINS DIN13

ISO Metrico passo grosso DIN 13

Machine taps
Maschinengewindebohrer

High performance on various ductile materials

Specially designed to prevent oversized threads and reduce gauging problems

Ausgezeichnete Leistung bei verschiedenen Werkstoffen.

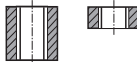
Speziell entwickelt, um zu große Gewindedurchmesser zu vermeiden und Messprobleme zu reduzieren.

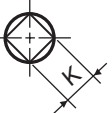
DIN 374

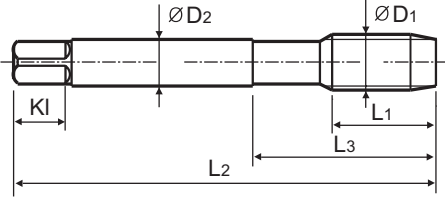


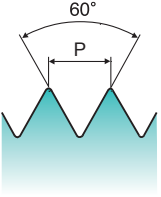
Hole type

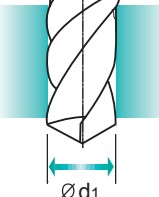
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Material groups

MU

HSS PM

DIN 374

6HX

60°

B

X Coating



p.B88

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	X-Coating	L1	L2	L3	ØD2	K	KI	Z	Ød1
M18	x 2.0	TRJ16666GS	26.0	125.0	50.0	14.0	11.0	14.0	3	16.0
M18	x 1.5	TRJ16676GS	25.0	110.0	44.0	14.0	11.0	14.0	3	16.5
M18	x 1.0	TRJ16686GS	20.0	110.0	44.0	14.0	11.0	14.0	3	17.0
M20	x 2.0	TRJ16716GS	27.0	140.0	54.0	16.0	12.0	15.0	3	18.0
M20	x 1.5	TRJ16726GS	25.0	125.0	50.0	16.0	12.0	15.0	3	18.5
M20	x 1.0	TRJ16736GS	20.0	125.0	50.0	16.0	12.0	15.0	3	19.0
M22	x 2.0	TRJ16756GS	27.0	140.0	54.0	18.0	14.5	17.0	3	20.0
M22	x 1.5	TRJ16766GS	25.0	125.0	50.0	18.0	14.5	17.0	3	20.5
M22	x 1.0	TRJ16776GS	20.0	125.0	50.0	18.0	14.5	17.0	3	21.0
M24	x 2.0	TRJ16796GS	27.0	140.0	54.0	18.0	14.5	17.0	3	22.0
M24	x 1.5	TRJ16806GS	27.0	140.0	54.0	18.0	14.5	17.0	3	22.5
M24	x 1.0	TRJ16816GS	20.0	140.0	54.0	18.0	14.5	17.0	3	23.0

► NEXT PAGE

ISO

	P										M					K				
Material Description	Non-alloy steel					Low alloy steel					High alloyed steel, and tool steel					Stainless steel				
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HRC	13	25	28	32	30	10	29	32	38	15	35	15	23	10	10	26	3	25	21	21
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230
Recommended	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎

ISO

	N										S					H				
Material Description	Aluminum-wrought alloy					Aluminum-cast, alloyed					Copper and Copper Alloys (Bronze / Brass)					Non Metallic Materials				
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
HRC	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400Rm	1050Rm	550	630	400
Recommended	◎	◎	◎	◎	◎	◎	◎	◎			◎	◎	◎	◎	◎	◎	◎	◎	◎	◎

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B85

CARBIDE

HSS

PRIME TAP

TRJ17 SERIES

UNC

Unified Coarse Threads

Unified Grobgewinde

UNC

Unificato passo fine

Machine taps

Maschinengewindebohrer

► High performance on various ductile materials

► Specially designed to prevent oversized threads and reduce gauging problems

► Ausgezeichnete Leistung bei verschiedenen Werkstoffen.

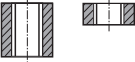
► Speziell entwickelt, um zu große Gewindedurchmesser zu vermeiden und Messprobleme zu reduzieren.

DIN 371



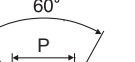
Hole type

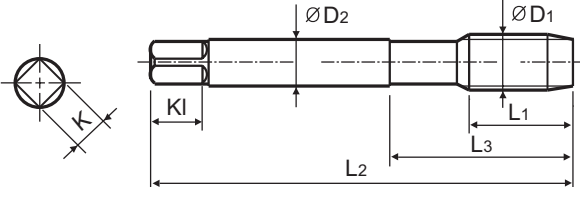
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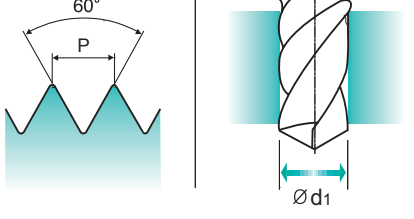


DIN 376









Material groups

MU

HSS PM

DIN 371/376

2BX

60°

B

X Coating



p.B88

SIZE	TPI	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
			L1	L2	L3	ØD2	K	KI	Z	Ød1
#4	- 40 UNC	TRJ17162GS	11.0	56.0	18.0	3.5	2.7	6.0	2	2.30
#5	- 40 UNC	TRJ17202GS	11.0	56.0	18.0	3.5	2.7	6.0	3	2.60
#6	- 32 UNC	TRJ17242GS	12.0	56.0	20.0	4.0	3.0	6.0	3	2.80
#8	- 32 UNC	TRJ17282GS	13.0	63.0	21.0	4.5	3.4	6.0	3	3.40
#10	- 24 UNC	TRJ17322GS	15.0	70.0	25.0	6.0	4.9	8.0	3	3.90
#12	- 24 UNC	TRJ17362GS	16.0	80.0	30.0	6.0	4.9	8.0	3	4.50
1/4	- 20 UNC	TRJ17402GS	17.0	80.0	30.0	7.0	5.5	8.0	3	5.10
5/16	- 18 UNC	TRJ17442GS	20.0	90.0	35.0	8.0	6.2	9.0	3	6.60
3/8	- 16 UNC	TRJ17482GS	22.0	100.0	39.0	9.0	7.0	10.0	3	8.00
7/16	- 14 UNC	TRJ17522GS	22.0	100.0	40.0	8.0	6.2	9.0	3	9.40
1/2	- 13 UNC	TRJ17562GS	25.0	110.0	44.0	9.0	7.0	10.0	3	10.80
9/16	- 12 UNC	TRJ17602GS	26.0	110.0	44.0	11.0	9.0	12.0	3	12.20
5/8	- 11 UNC	TRJ17642GS	27.0	110.0	44.0	12.0	9.0	12.0	3	13.60
3/4	- 10 UNC	TRJ17702GS	30.0	125.0	50.0	14.0	11.0	14.0	3	16.50
7/8	- 9 UNC	TRJ17742GS	32.0	140.0	54.0	18.0	14.5	17.0	3	19.50
1	- 8 UNC	TRJ17782GS	36.0	160.0	60.0	20.0	16.0	19.0	3	22.20

► DIN371 (#4~3/8) and DIN376 (7/16~1)

ISO	P										M					K				
	Non-alloy steel					Low alloy steel					High alloy steel, and tool steel					Stainless steel				
Material Description	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HRC	13	25	28	32	30	10	29	32	38	15	35	15	23	10	10	26	3	25	21	21
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230
Recommended	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎
ISO	N										S					H				
	Aluminum-wrought alloy					Aluminum-cast, alloyed					Copper and Copper Alloys (Bronze / Brass)					Non Metallic Materials				
Material Description	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
HRC	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400Rm	1050Rm	550	630	400
Recommended	◎	◎	◎	◎	◎	◎	◎	◎			◎	◎	◎	◎	◎	◎	◎	◎	◎	◎

CARBIDE

HSS

PRIME TAP

TRJ18 SERIES

UNF

Unified Fine Threads

Unified Feingewinde

UNF

Unificato passo fine

Machine taps

Maschinengewindebohrer

► High performance on various ductile materials

► Specially designed to prevent oversized threads and reduce gauging problems

► Ausgezeichnete Leistung bei verschiedenen Werkstoffen.

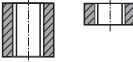
► Speziell entwickelt, um zu große Gewindedurchmesser zu vermeiden und Messprobleme zu reduzieren.

DIN 371



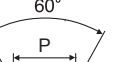
Hole type

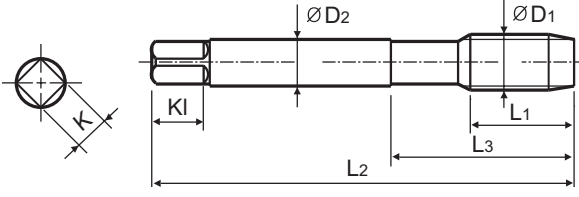
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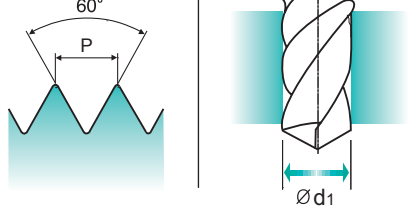


DIN 374









Material groups

MU

HSS PM

DIN 371/374

2BX

60°

B

X Coating



p.B88

SIZE	TPI	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
			L1	L2	L3	ØD2	K	KI	Z	Ød1
#4	- 48 UNF	TRJ18182GS	11.0	56.0	18.0	3.5	2.7	6.0	2	2.40
#5	- 44 UNF	TRJ18222GS	11.0	56.0	18.0	3.5	2.7	6.0	3	2.70
#6	- 40 UNF	TRJ18262GS	12.0	56.0	20.0	4.0	3.0	6.0	3	2.90
#8	- 36 UNF	TRJ18302GS	13.0	63.0	21.0	4.5	3.4	6.0	3	3.50
#10	- 32 UNF	TRJ18342GS	15.0	70.0	25.0	6.0	4.9	8.0	3	4.10
#12	- 28 UNF	TRJ18382GS	16.0	80.0	30.0	6.0	4.9	8.0	3	4.60
1/4	- 28 UNF	TRJ18422GS	17.0	80.0	30.0	7.0	5.5	8.0	3	5.50
5/16	- 24 UNF	TRJ18462GS	17.0	90.0	35.0	8.0	6.2	9.0	3	6.90
3/8	- 24 UNF	TRJ18502GS	18.0	100.0	39.0	9.0	7.0	10.0	3	8.50
7/16	- 20 UNF	TRJ18542GS	22.0	100.0	40.0	8.0	6.2	9.0	3	9.90
1/2	- 20 UNF	TRJ18582GS	22.0	100.0	40.0	9.0	7.0	10.0	3	11.50
9/16	- 18 UNF	TRJ18622GS	22.0	100.0	40.0	11.0	9.0	12.0	3	12.90
5/8	- 18 UNF	TRJ18662GS	22.0	100.0	40.0	12.0	9.0	12.0	3	14.50
3/4	- 16 UNF	TRJ18722GS	25.0	110.0	44.0	14.0	11.0	14.0	3	17.50
7/8	- 14 UNF	TRJ18762GS	26.0	125.0	50.0	18.0	14.5	17.0	3	20.50
1"	- 12 UNF	TRJ18802GS	28.0	140.0	54.0	20.0	16.0	19.0	3	23.20

► DIN371 (#4~3/8) and DIN374 (7/16~1)

ISO	P										M					K				
	Non-alloy steel					Low alloy steel					High alloy steel, and tool steel					Stainless steel				
Material Description	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HRC	13	25	28	32	30	10	29	32	38	15	35	15	23	10	10	26	3	25	21	21
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230
Recommended	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎
ISO	N										S					H				
	Aluminum-wrought alloy					Aluminum-cast, alloyed					Copper and Copper Alloys (Bronze / Brass)					Non Metallic Materials				
Material Description	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
HRC	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400Rm	1050Rm	550	630	400
Recommended	◎	◎	◎	◎	◎	◎	◎	◎			◎	◎	◎	◎	◎	◎	◎	◎	◎	◎



					TRE30, TRE31, TRE32 TRE33, TRE34	TRJ15, TRJ16 TRJ17, TRJ18
ISO	VDI 3323	Material Description	HB	HRc	Vc (m/min.)	
P	1	Non-alloy steel	125		5-20	15-45
	2		190	13	10-50	10-55
	3		250	25	10-50	10-55
	4		270	28	15-40	15-50
	5		300	32	15-40	15-50
	6	Low alloy steel	180	10	8-30	8-30
	7		275	29	8-30	8-30
	8		300	32	8-30	8-30
	9		350	38	8-30	8-30
	10	High alloyed steel, and tool steel	200	15	8-30	8-30
	11		325	35	8-30	8-30
M	12	Stainless steel	200	15	5-15	8-20
	13		240	23	5-15	8-20
	14		180	10	5-15	8-20
K	15	Grey cast iron	180	10	15-35	15-35
	16		260	26	15-35	15-35
	17	Nodular cast iron	160	3	15-35	15-35
	18		250	25	15-35	15-35
N	21	Aluminum- wrought alloy	60		15-35	15-35
	22		100		15-35	15-35
	23	Aluminum- cast, alloyed	75		15-35	15-35
	24		90		15-35	15-35
	25		130		15-35	15-35
	26	Copper and Copper Alloys (Bronze / Brass)	110		15-35	15-35
	27		90		15-35	15-35
	28		100		15-35	15-35