

HSS



Being the best through innovation



STRAIGHT FLUTE TAPS

GEWINDEBOHRER GERADE GENUTET

- Tapping Shallow Holes of Cast Iron, Mild Steels and Brass.
- Für flache Bohrungen von Grauguss, Stähle und Messing.















SELECTION GUIDE

STRAIGHT FLUTE TAPS

Tapping Shallow Holes of Cast Iron, Mild Steels and Brass.

STRAIGHT FLUTE TAPS

◆ SYNCHRO TYPE

EDP No.	MODEL	Tool Material	Standard	Work Material	Dimensions	Tolerance	Chamfer	Surface Treatment	PAGE
◆ TKS35		HSS-PM	M	GS	DIN 371/376	ISO 2X/6HX	C	TiCN	493
TC463		HSS-E	M	GS	DIN 371/376	ISO 2/6H	C	Bright	494
TE821		HSS-E	M	GG	DIN 371/376	ISO 2X/6HX	C	NI	495
TD821		HSS-E	M	GG	DIN 371/376	ISO 2X/6HX	C	TiN	496
TY821		HSS-E	M	GG	DIN 371/376	ISO 2X/6HX	C	TiAlN	497
TI821		HSS-E	M	GG	DIN 371/376	ISO 2X/6HX	C	TiCN	498
TC433		HSS-E	M	Ms	DIN 371/376	ISO 2/6H	C	Bright	499
TE443		HSS-E	M	Ms	DIN 371/376	ISO 2X/6HX	C	NI	500
TY433		HSS-E	M	Ms	DIN 371/376	ISO 2/6H	C	TiAlN	501
TC473		HSS-E	MF	GS	DIN 374	ISO 2/6H	C	Bright	502
TE403		HSS-E	MF	GG	DIN 374	ISO 2X/6HX	C	NI	503
TC424		HSS-E	UNC	GS	DIN 371/376	2B	C	Bright	504
TE434		HSS-E	UNC	GG	DIN 371/376	2BX	C	NI	505
TE454		HSS-E	UNF	GG	DIN 371/374	2BX	C	NI	506

YG STRAIGHT FLUTE TAPS

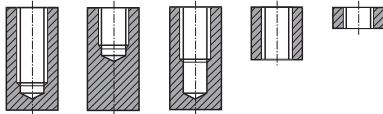
TKS35 SERIES

M ISO metric coarse threads DIN 13
Metrisches ISO-Gewinde DIN 13

► Suitable for high speed machining and high precision threads

► Geeignet für die High-Speed-Bearbeitung (HSC) und hoher Gewinde-Präzision

Hole type



DIN 371/376

Synchro Type

Applicable to 2-3 times faster cutting speed than minimum general GS Taps cutting speeds

Material groups **GS**

HSS-PM

DIN 371/376

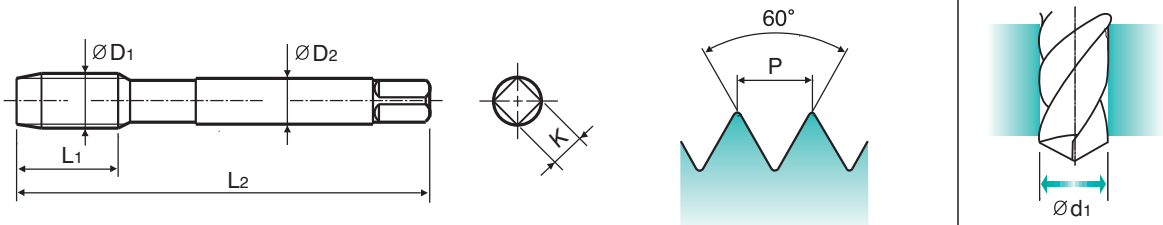
6HX

60°

C

TiCN

Machine taps
 Maschinengewindebohrer



SIZE	Pitch	EDP No.	Thread Length	Overall Length	Shank Diameter	Square Size	Tapping Drill Diameter
ØD1	P		L1	L2	ØD2	K	Ød1
M3	× 0.5	TKS35206	11	56	3.5	2.7	2.5
M4	× 0.7	TKS35246	13	63	4.5	3.4	3.3
M5	× 0.8	TKS35286	15	70	6	4.9	4.2
M6	× 1.0	TKS35316	17	80	6	4.9	5
M8	× 1.25	TKS35366	20	90	8	6.2	6.8
M10	× 1.5	TKS35426	22	100	10	8	8.5
M12	× 1.75	TKS35506	24	110	9	7	10.2
M14	× 2.0	TKS35546	26	110	11	9	12
M16	× 2.0	TKS35606	27	110	12	9	14
M18	× 2.5	TKS35656	30	125	14	11	15.5
M20	× 2.5	TKS35706	32	140	16	12	17.5

- DIN371 (M3~M10) and DIN376 (M11~M20)
- Coating(TiAlN) is available on your request.

Unit : N/mm²

◎ : Excellent ○ : Good

Steel < 400	Steel < 700	Steel < 850	St. Alloy < 850	St. Alloy ≤ 1200	St. Alloy > 1200	INOX Free < 850	INOX Aust. < 850	INOX < 1000	GG Cast < 500	GG Cast < 1000	GGG Cast < 700	GGG Cast < 1000	Ti < 700	Ti Alloy < 900
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Ti Alloy ≤ 1300	Ni < 500	Ni Alloy < 900	Ni Alloy ≤ 1400	Cu < 350	Cu Alloy Short	Cu Alloy Long	Cu-Al-Fe < 1500	Al / Mg < 350	Al Wrought	Al Si ≤ 10%	Al Si > 10%	Plastic Thermosoft	Plastic Thermoset	Plastic FRP
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

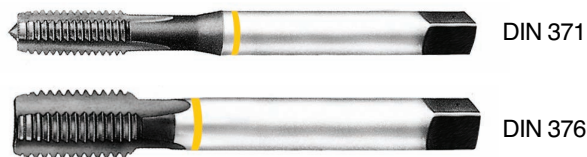
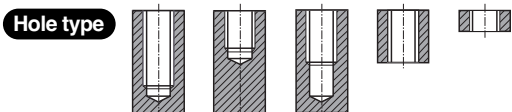
YG STRAIGHT FLUTE TAPS

TC463 SERIES

M ISO metric coarse threads DIN 13 Metrisches ISO-Gewinde DIN 13

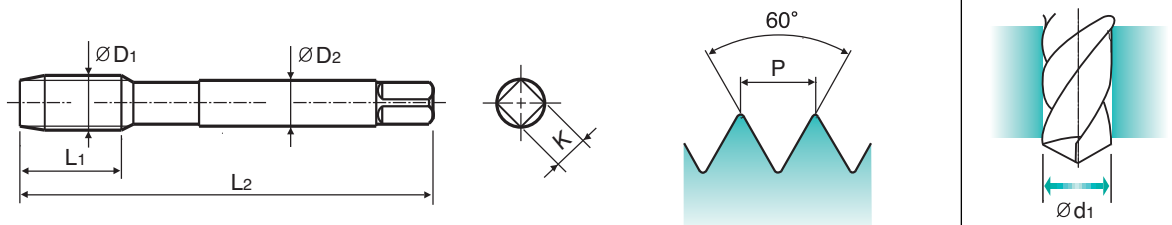
► Suitable for tapping shallow holes and the blind holes having enough chip space at the bottom of holes.

► Geeignet zum Schneiden von kurzem Durchgangsgewinde und in Sacklöchern mit ausreichendem Raum für Späne am Bohrungsgrund.



Material groups: **GS** HSS-E DIN 371/376 6H 60° C Bright

Machine taps
Maschinengewindebohrer



SIZE	Pitch	EDP No.	Thread Length	Overall Length	Shank Diameter	Square Size	Tapping Drill Diameter
ØD1	P		L1	L2	ØD2	K	Ød1
M2	× 0.4	TC463136	8	45	2.8	2.1	1.6
M2.2	× 0.45	TC463156	8	45	2.8	2.1	1.75
* M2.3	× 0.4	TC463196	8	45	2.8	2.1	1.9
M2.5	× 0.45	TC463176	9	50	2.8	2.1	2.05
* M2.6	× 0.45	TC463496	9	50	2.8	2.1	2.1
M3	× 0.5	TC463206	11	56	3.5	2.7	2.5
M3.5	× 0.6	TC463226	12	56	4	3	2.9
M4	× 0.7	TC463246	13	63	4.5	3.4	3.3
M4.5	× 0.75	TC463266	14	70	6	4.9	3.7
M5	× 0.8	TC463286	15	70	6	4.9	4.2
M6	× 1	TC463316	17	80	6	4.9	5
M7	× 1	TC463346	17	80	7	5.5	6
M8	× 1.25	TC463366	20	90	8	6.2	6.8
M9	× 1.25	TC463396	20	90	9	7	7.8
M10	× 1.5	TC463426	22	100	10	8	8.5
M11	× 1.5	TC463466	22	100	8	6.2	9.5
M12	× 1.75	TC463506	24	110	9	7	10.2
M14	× 2	TC463546	26	110	11	9	12
M16	× 2	TC463606	27	110	12	9	14
M18	× 2.5	TC463656	30	125	14	11	15.5
M20	× 2.5	TC463706	32	140	16	12	17.5
M22	× 2.5	TC463746	32	140	18	14.5	19.5
M24	× 3	TC463786	34	160	18	14.5	21
M27	× 3	TC463866	36	160	20	16	24
M30	× 3.5	TC463946	40	180	22	18	26.5

► DIN 371(M2~M10) and DIN 376(M11~M30)

► * DIN profile not ISO

Unit : N/mm²

◎ : Excellent ○ : Good

Steel < 400	Steel < 700	Steel < 850	St. Alloy < 850	St. Alloy ≤ 1200	St. Alloy > 1200	INOX Free < 850	INOX Aust. < 850	INOX < 1000	GG Cast < 500	GG Cast < 1000	GGG Cast < 700	GGG Cast < 1000	Ti < 700	Ti Alloy < 900
○	○	○	○								○	○		
Ti Alloy ≤ 1300	Ni < 500	Ni Alloy < 900	Ni Alloy ≤ 1400	Cu < 350	Cu Alloy Short	Cu Alloy Long	Cu-Al-Fe < 1500	Al / Mg < 350	Al Wrought	Al Si ≤ 10%	Al Si > 10%	Plastic Thermosoft	Plastic Thermoset	Plastic FRP
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YG STRAIGHT FLUTE TAPS

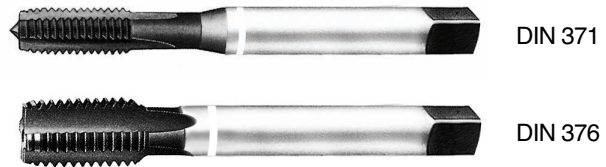
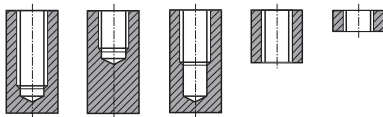
TE821 SERIES

M ISO metric coarse threads DIN 13 Metrisches ISO-Gewinde DIN 13

► Suitable for tapping cast iron or similar work materials.

► Geeignet zum Gewindeschneiden von Guss oder ähnlichen Werkstoffen

Hole type



Material groups **GG**

HSS-E

DIN 371/376

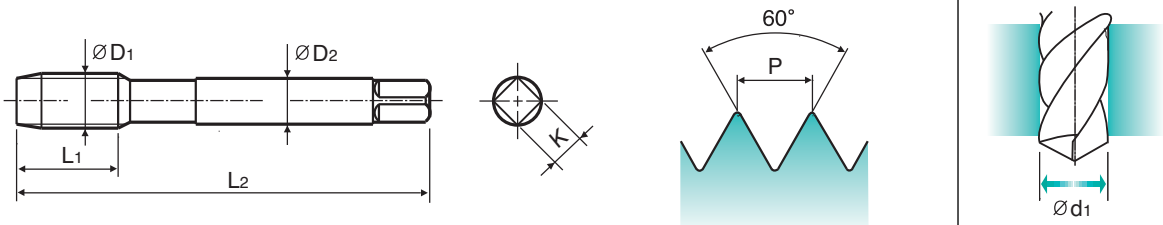
6HX

60°

C

NI

Machine taps
Maschinengewindebohrer



Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Shank Diameter	Square Size	Tapping Drill Diameter
ØD1	P		L1	L2	ØD2	K	Ød1
M2	× 0.4	TE821136	8	45	2.8	2.1	1.6
M2.2	× 0.45	TE821156	8	45	2.8	2.1	1.75
* M2.3	× 0.4	TE821196	8	45	2.8	2.1	1.9
M2.5	× 0.45	TE821176	9	50	2.8	2.1	2.05
* M2.6	× 0.45	TE821496	9	50	2.8	2.1	2.1
M3	× 0.5	TE821206	11	56	3.5	2.7	2.5
M3.5	× 0.6	TE821226	12	56	4	3	2.9
M4	× 0.7	TE821246	13	63	4.5	3.4	3.3
M4.5	× 0.75	TE821266	14	70	6	4.9	3.7
M5	× 0.8	TE821286	15	70	6	4.9	4.2
M6	× 1	TE821316	17	80	6	4.9	5
M7	× 1	TE821346	17	80	7	5.5	6
M8	× 1.25	TE821366	20	90	8	6.2	6.8
M9	× 1.25	TE821396	20	90	9	7	7.8
M10	× 1.5	TE821426	22	100	10	8	8.5
M11	× 1.5	TE821466	22	100	8	6.2	9.5
M12	× 1.75	TE821506	24	110	9	7	10.2
M14	× 2	TE821546	26	110	11	9	12
M16	× 2	TE821606	27	110	12	9	14
M18	× 2.5	TE821656	30	125	14	11	15.5
M20	× 2.5	TE821706	32	140	16	12	17.5
M22	× 2.5	TE821746	32	140	18	14.5	19.5
M24	× 3	TE821786	34	160	18	14.5	21
M27	× 3	TE821866	36	160	20	16	24
M30	× 3.5	TE821946	40	180	22	18	26.5

► DIN 371(M2~M10) and DIN 376(M11~M30)

► * DIN profile not ISO

Unit : N/mm²

◎ : Excellent ○ : Good

Steel < 400	Steel < 700	Steel < 850	St. Alloy < 850	St. Alloy ≤ 1200	St. Alloy > 1200	INOX Free < 850	INOX Aust. < 850	INOX < 1000	GG Cast < 500	GG Cast < 1000	GGG Cast < 700	GGG Cast < 1000	Ti < 700	Ti Alloy < 900
Ti Alloy ≤ 1300	Ni < 500	Ni Alloy < 900	Ni Alloy ≤ 1400	Cu < 350	Cu Alloy Short	Cu Alloy Long	Cu-Al-Fe < 1500	Al / Mg < 350	Al Wrought	Al Si ≤ 10%	Al Si > 10%	Plastic Thermosoft	Plastic Thermoset	Plastic FRP

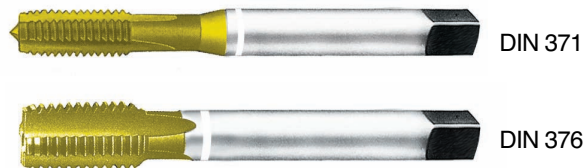
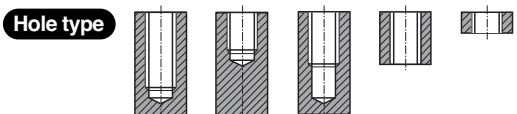
YG STRAIGHT FLUTE TAPS

TD821 SERIES

M ISO metric coarse threads DIN 13 Metrisches ISO-Gewinde DIN 13

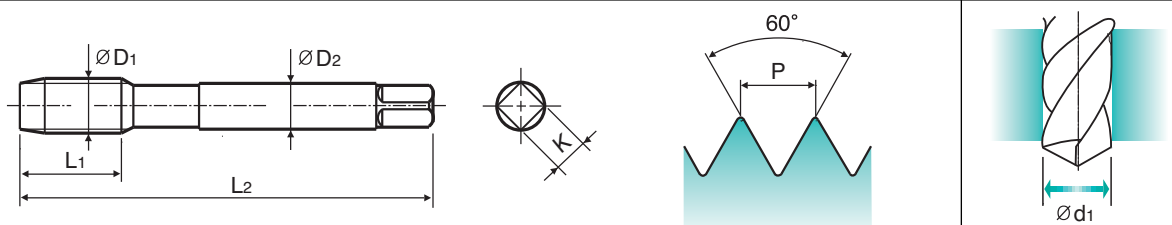
► Suitable for tapping cast iron or similar work materials.

► Geeignet zum Gewindeschneiden von Guss oder ähnlichen Werkstoffen



Material groups: **GG** HSS-E DIN 371/376 6HX 60° C TiN

Machine taps
Maschinengewindebohrer



SIZE	Pitch	EDP No.	Thread Length	Overall Length	Shank Diameter	Square Size	Tapping Drill Diameter
ØD1	P		L1	L2	ØD2	K	Ød1
M2	× 0.4	TD821136	8	45	2.8	2.1	1.6
M2.2	× 0.45	TD821156	8	45	2.8	2.1	1.75
* M2.3	× 0.4	TD821196	8	45	2.8	2.1	1.9
M2.5	× 0.45	TD821176	9	50	2.8	2.1	2.05
* M2.6	× 0.45	TD821496	9	50	2.8	2.1	2.1
M3	× 0.5	TD821206	11	56	3.5	2.7	2.5
M3.5	× 0.6	TD821226	12	56	4	3	2.9
M4	× 0.7	TD821246	13	63	4.5	3.4	3.3
M4.5	× 0.75	TD821266	14	70	6	4.9	3.7
M5	× 0.8	TD821286	15	70	6	4.9	4.2
M6	× 1	TD821316	17	80	6	4.9	5
M7	× 1	TD821346	17	80	7	5.5	6
M8	× 1.25	TD821366	20	90	8	6.2	6.8
M9	× 1.25	TD821396	20	90	9	7	7.8
M10	× 1.5	TD821426	22	100	10	8	8.5
M11	× 1.5	TD821466	22	100	8	6.2	9.5
M12	× 1.75	TD821506	24	110	9	7	10.2
M14	× 2	TD821546	26	110	11	9	12
M16	× 2	TD821606	27	110	12	9	14
M18	× 2.5	TD821656	30	125	14	11	15.5
M20	× 2.5	TD821706	32	140	16	12	17.5
M22	× 2.5	TD821746	32	140	18	14.5	19.5
M24	× 3	TD821786	34	160	18	14.5	21
M27	× 3	TD821866	36	160	20	16	24
M30	× 3.5	TD821946	40	180	22	18	26.5

► DIN 371(M2~M10) and DIN 376(M11~M30)

► * DIN profile not ISO

Unit : N/mm²

◎ : Excellent ○ : Good

Steel < 400	Steel < 700	Steel < 850	St. Alloy < 850	St. Alloy ≤ 1200	St. Alloy > 1200	INOX Free < 850	INOX Aust. < 850	INOX < 1000	GG Cast < 500	GG Cast < 1000	GGG Cast < 700	GGG Cast < 1000	Ti < 700	Ti Alloy < 900
Ti Alloy ≤ 1300	Ni < 500	Ni Alloy < 900	Ni Alloy ≤ 1400	Cu < 350	Cu Alloy Short	Cu Alloy Long	Cu-Al-Fe < 1500	Al / Mg < 350	Al Wrought	Al Si ≤ 10%	Al Si > 10%	Plastic Thermosoft	Plastic Thermoset	Plastic FRP

YG STRAIGHT FLUTE TAPS

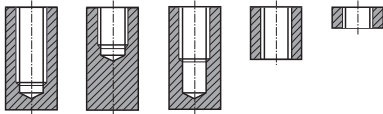
TY821 SERIES

M ISO metric coarse threads DIN 13 Metrisches ISO-Gewinde DIN 13

► Suitable for tapping cast iron or similar work materials.

► Geeignet zum Gewindeschneiden von Guss oder ähnlichen Werkstoffen

Hole type



DIN 371

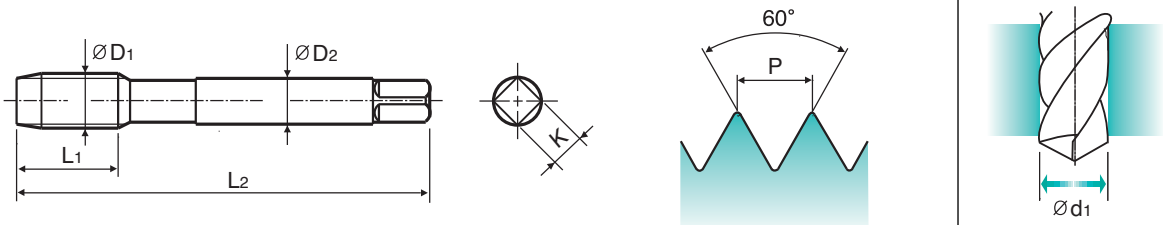


DIN 376

Material groups
GG

HSS-E
DIN 371/376
6HX
60°
C
TiAlN

Machine taps
Maschinengewindebohrer



Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Shank Diameter	Square Size	Tapping Drill Diameter
ØD1	P		L1	L2	ØD2	K	Ød1
M2	× 0.4	TY821136	8	45	2.8	2.1	1.6
M2.2	× 0.45	TY821156	8	45	2.8	2.1	1.75
* M2.3	× 0.4	TY821196	8	45	2.8	2.1	1.9
M2.5	× 0.45	TY821176	9	50	2.8	2.1	2.05
* M2.6	× 0.45	TY821496	9	50	2.8	2.1	2.1
M3	× 0.5	TY821206	11	56	3.5	2.7	2.5
M3.5	× 0.6	TY821226	12	56	4	3	2.9
M4	× 0.7	TY821246	13	63	4.5	3.4	3.3
M4.5	× 0.75	TY821266	14	70	6	4.9	3.7
M5	× 0.8	TY821286	15	70	6	4.9	4.2
M6	× 1	TY821316	17	80	6	4.9	5
M7	× 1	TY821346	17	80	7	5.5	6
M8	× 1.25	TY821366	20	90	8	6.2	6.8
M9	× 1.25	TY821396	20	90	9	7	7.8
M10	× 1.5	TY821426	22	100	10	8	8.5
M11	× 1.5	TY821466	22	100	8	6.2	9.5
M12	× 1.75	TY821506	24	110	9	7	10.2
M14	× 2	TY821546	26	110	11	9	12
M16	× 2	TY821606	27	110	12	9	14
M18	× 2.5	TY821656	30	125	14	11	15.5
M20	× 2.5	TY821706	32	140	16	12	17.5
M22	× 2.5	TY821746	32	140	18	14.5	19.5
M24	× 3	TY821786	34	160	18	14.5	21
M27	× 3	TY821866	36	160	20	16	24
M30	× 3.5	TY821946	40	180	22	18	26.5

► DIN 371(M2~M10) and DIN 376(M11~M30)

► * DIN profile not ISO

Unit : N/mm²

◎ : Excellent ○ : Good

Steel < 400	Steel < 700	Steel < 850	St. Alloy < 850	St. Alloy ≤ 1200	St. Alloy > 1200	INOX Free < 850	INOX Aust. < 850	INOX < 1000	GG Cast < 500	GG Cast < 1000	GGG Cast < 700	GGG Cast < 1000	Ti < 700	Ti Alloy < 900
Ti Alloy ≤ 1300	Ni < 500	Ni Alloy < 900	Ni Alloy ≤ 1400	Cu < 350	Cu Alloy Short	Cu Alloy Long	Cu-Al-Fe < 1500	Al / Mg < 350	Al Wrought	Al Si ≤ 10%	Al Si > 10%	Plastic Thermosoft	Plastic Thermoset	Plastic FRP

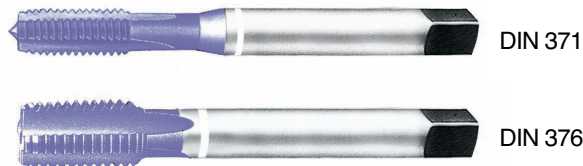
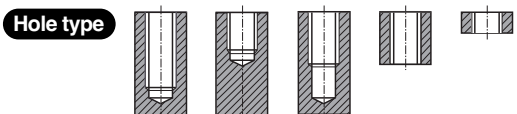
YG STRAIGHT FLUTE TAPS

TI821 SERIES

M ISO metric coarse threads DIN 13
Metrisches ISO-Gewinde DIN 13

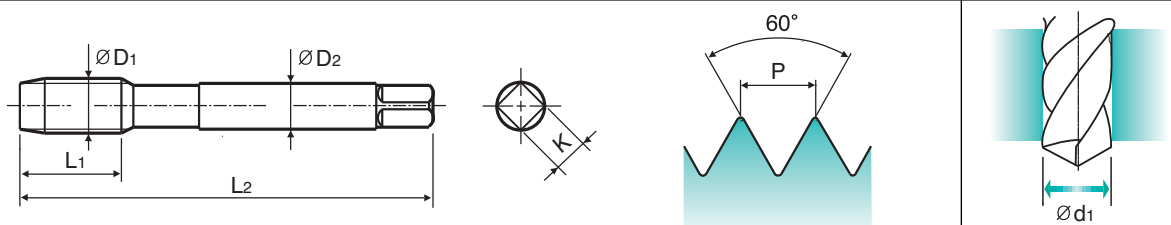
► Suitable for tapping cast iron or similar work materials.

► Geeignet zum Gewindeschneiden von Guss oder ähnlichen Werkstoffen



Material groups: **GG** **HSS-E** **DIN 371/376** **6HX** **60°** **C** **TiCN**

Machine taps
Maschinengewindebohrer



SIZE	Pitch	EDP No.	Thread Length	Overall Length	Shank Diameter	Square Size	Tapping Drill Diameter
ØD1	P		L1	L2	ØD2	K	Ød1
M2	× 0.4	TI821136	8	45	2.8	2.1	1.6
M2.2	× 0.45	TI821156	8	45	2.8	2.1	1.75
* M2.3	× 0.4	TI821196	8	45	2.8	2.1	1.9
M2.5	× 0.45	TI821176	9	50	2.8	2.1	2.05
* M2.6	× 0.45	TI821496	9	50	2.8	2.1	2.1
M3	× 0.5	TI821206	11	56	3.5	2.7	2.5
M3.5	× 0.6	TI821226	12	56	4	3	2.9
M4	× 0.7	TI821246	13	63	4.5	3.4	3.3
M4.5	× 0.75	TI821266	14	70	6	4.9	3.7
M5	× 0.8	TI821286	15	70	6	4.9	4.2
M6	× 1	TI821316	17	80	6	4.9	5
M7	× 1	TI821346	17	80	7	5.5	6
M8	× 1.25	TI821366	20	90	8	6.2	6.8
M9	× 1.25	TI821396	20	90	9	7	7.8
M10	× 1.5	TI821426	22	100	10	8	8.5
M11	× 1.5	TI821466	22	100	8	6.2	9.5
M12	× 1.75	TI821506	24	110	9	7	10.2
M14	× 2	TI821546	26	110	11	9	12
M16	× 2	TI821606	27	110	12	9	14
M18	× 2.5	TI821656	30	125	14	11	15.5
M20	× 2.5	TI821706	32	140	16	12	17.5
M22	× 2.5	TI821746	32	140	18	14.5	19.5
M24	× 3	TI821786	34	160	18	14.5	21
M27	× 3	TI821866	36	160	20	16	24
M30	× 3.5	TI821946	40	180	22	18	26.5

► DIN 371(M2~M10) and DIN 376(M11~M30)

► * DIN profile not ISO

Unit : N/mm²

◎ : Excellent ○ : Good

Steel < 400	Steel < 700	Steel < 850	St. Alloy < 850	St. Alloy ≤ 1200	St. Alloy > 1200	INOX Free < 850	INOX Aust. < 850	INOX < 1000	GG Cast < 500	GG Cast < 1000	GGG Cast < 700	GGG Cast < 1000	Ti < 700	Ti Alloy < 900
Ti Alloy ≤ 1300	Ni < 500	Ni Alloy < 900	Ni Alloy ≤ 1400	Cu < 350	Cu Alloy Short	Cu Alloy Long	Cu-Al-Fe < 1500	Al / Mg < 350	Al Wrought	Al Si ≤ 10%	Al Si > 10%	Plastic Thermosoft	Plastic Thermoset	Plastic FRP

YG STRAIGHT FLUTE TAPS

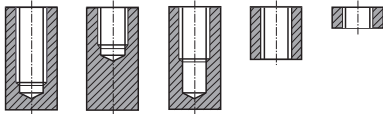
TC433 SERIES

M ISO metric coarse threads DIN 13 Metrisches ISO-Gewinde DIN 13

► Suitable for brass and short chip work materials.

► Geeignet zum Gewindeschneiden von Messing und anderen kurzspanenden Werkstoffen

Hole type



Material groups
Ms

HSS-E

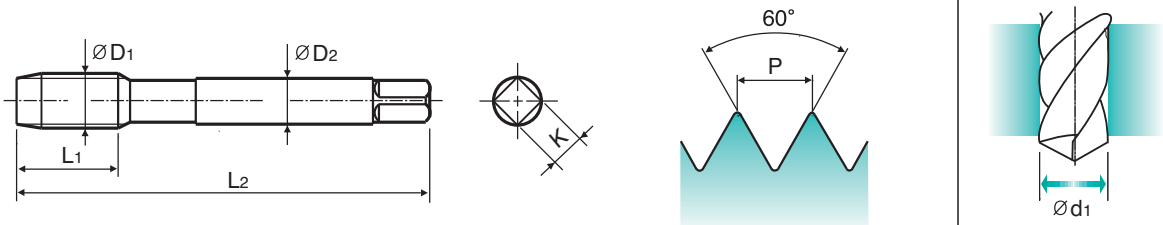
DIN 371/376

6H



Bright

Machine taps
Maschinengewindebohrer



Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Shank Diameter	Square Size	Tapping Drill Diameter
ØD1	P		L1	L2	ØD2	K	Ød1
M2	× 0.4	TC433136	8	45	2.8	2.1	1.6
M2.2	× 0.45	TC433156	8	45	2.8	2.1	1.75
* M2.3	× 0.4	TC433196	8	45	2.8	2.1	1.9
M2.5	× 0.45	TC433176	9	50	2.8	2.1	2.05
* M2.6	× 0.45	TC433496	9	50	2.8	2.1	2.1
M3	× 0.5	TC433206	11	56	3.5	2.7	2.5
M3.5	× 0.6	TC433226	12	56	4	3	2.9
M4	× 0.7	TC433246	13	63	4.5	3.4	3.3
M4.5	× 0.75	TC433266	14	70	6	4.9	3.7
M5	× 0.8	TC433286	15	70	6	4.9	4.2
M6	× 1	TC433316	17	80	6	4.9	5
M7	× 1	TC433346	17	80	7	5.5	6
M8	× 1.25	TC433366	20	90	8	6.2	6.8
M9	× 1.25	TC433396	20	90	9	7	7.8
M10	× 1.5	TC433426	22	100	10	8	8.5
M11	× 1.5	TC433466	22	100	8	6.2	9.5
M12	× 1.75	TC433506	24	110	9	7	10.2
M14	× 2	TC433546	26	110	11	9	12
M16	× 2	TC433606	27	110	12	9	14
M18	× 2.5	TC433656	30	125	14	11	15.5
M20	× 2.5	TC433706	32	140	16	12	17.5
M22	× 2.5	TC433746	32	140	18	14.5	19.5
M24	× 3	TC433786	34	160	18	14.5	21
M27	× 3	TC433866	36	160	20	16	24
M30	× 3.5	TC433946	40	180	22	18	26.5

► DIN 371(M2~M10) and DIN 376(M11~M30)

► * DIN profile not ISO

Unit : N/mm²

◎ : Excellent ○ : Good

Steel < 400	Steel < 700	Steel < 850	St. Alloy < 850	St. Alloy ≤ 1200	St. Alloy > 1200	INOX Free < 850	INOX Aust. < 850	INOX < 1000	GG Cast < 500	GG Cast < 1000	GGG Cast < 700	GGG Cast < 1000	Ti < 700	Ti Alloy < 900
Ti Alloy ≤ 1300	Ni < 500	Ni Alloy < 900	Ni Alloy ≤ 1400	Cu < 350	Cu Alloy Short	Cu Alloy Long	Cu-Al-Fe < 1500	Al / Mg < 350	Al Wrought	Al Si ≤ 10%	Al Si > 10%	Plastic Thermosoft	Plastic Thermoset	Plastic FRP

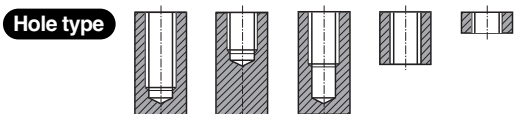
YG STRAIGHT FLUTE TAPS

TE443 SERIES

M ISO metric coarse threads DIN 13 Metrisches ISO-Gewinde DIN 13

► Suitable for brass and short chip work materials.

► Geeignet zum Gewindeschneiden von Messing und anderen kurzspanenden Werkstoffen



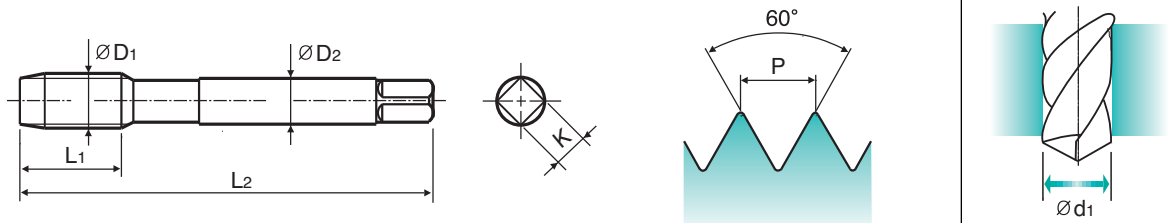
DIN 371



DIN 376

Material groups: **Ms** HSS-E DIN 371/376 6HX 60° C NI

Machine taps
Maschinengewindebohrer



Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Shank Diameter	Square Size	Tapping Drill Diameter
ØD1	P		L1	L2	ØD2	K	Ød1
M2	× 0.4	TE443136	8	45	2.8	2.1	1.6
M2.2	× 0.45	TE443156	8	45	2.8	2.1	1.75
* M2.3	× 0.4	TE443196	8	45	2.8	2.1	1.9
M2.5	× 0.45	TE443176	9	50	2.8	2.1	2.05
* M2.6	× 0.45	TE443496	9	50	2.8	2.1	2.1
M3	× 0.5	TE443206	11	56	3.5	2.7	2.5
M3.5	× 0.6	TE443226	12	56	4	3	2.9
M4	× 0.7	TE443246	13	63	4.5	3.4	3.3
M4.5	× 0.75	TE443266	14	70	6	4.9	3.7
M5	× 0.8	TE443286	15	70	6	4.9	4.2
M6	× 1	TE443316	17	80	6	4.9	5
M7	× 1	TE443346	17	80	7	5.5	6
M8	× 1.25	TE443366	20	90	8	6.2	6.8
M9	× 1.25	TE443396	20	90	9	7	7.8
M10	× 1.5	TE443426	22	100	10	8	8.5
M11	× 1.5	TE443466	22	100	8	6.2	9.5
M12	× 1.75	TE443506	24	110	9	7	10.2
M14	× 2	TE443546	26	110	11	9	12
M16	× 2	TE443606	27	110	12	9	14
M18	× 2.5	TE443656	30	125	14	11	15.5
M20	× 2.5	TE443706	32	140	16	12	17.5
M22	× 2.5	TE443746	32	140	18	14.5	19.5
M24	× 3	TE443786	34	160	18	14.5	21
M27	× 3	TE443866	36	160	20	16	24
M30	× 3.5	TE443946	40	180	22	18	26.5

► DIN 371(M2~M10) and DIN 376(M11~M30)

► * DIN profile not ISO

Unit : N/mm²

◎ : Excellent ○ : Good

Steel < 400	Steel < 700	Steel < 850	St. Alloy < 850	St. Alloy ≤ 1200	St. Alloy > 1200	INOX Free < 850	INOX Aust. < 850	INOX < 1000	GG Cast < 500	GG Cast < 1000	GGG Cast < 700	GGG Cast < 1000	Ti < 700	Ti Alloy < 900
Ti Alloy ≤ 1300	Ni < 500	Ni Alloy < 900	Ni Alloy ≤ 1400	Cu < 350	Cu Alloy Short	Cu Alloy Long	Cu-Al-Fe < 1500	Al / Mg < 350	Al Wrought	Al Si ≤ 10%	Al Si > 10%	Plastic Thermosoft	Plastic Thermoset	Plastic FRP

YG STRAIGHT FLUTE TAPS

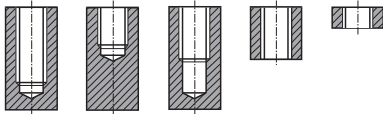
TY433 SERIES

M ISO metric coarse threads DIN 13
Metrisches ISO-Gewinde DIN 13

► Suitable for brass and short chip work materials.

► Geeignet zum Gewindeschneiden von Messing und anderen kurzspanenden Werkstoffen

Hole type



DIN 371



DIN 376

Material groups **Ms**

HSS-E

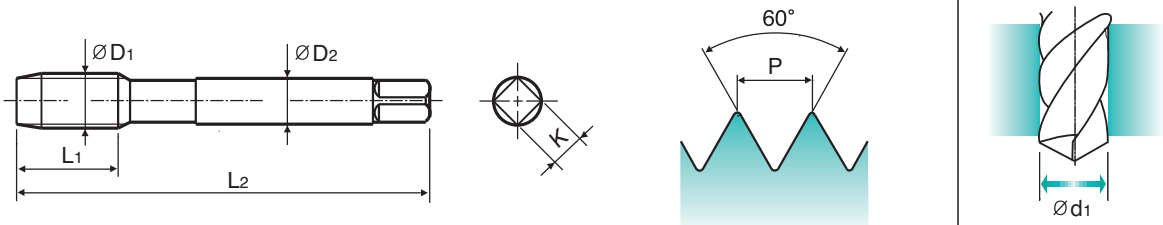
DIN 371/376

6H



TiAlN

Machine taps
 Maschinengewindebohrer



Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Shank Diameter	Square Size	Tapping Drill Diameter
ØD1	P		L1	L2	ØD2	K	Ød1
M2	× 0.4	TY433136	8	45	2.8	2.1	1.6
M2.2	× 0.45	TY433156	8	45	2.8	2.1	1.75
* M2.3	× 0.4	TY433196	8	45	2.8	2.1	1.9
M2.5	× 0.45	TY433176	9	50	2.8	2.1	2.05
* M2.6	× 0.45	TY433496	9	50	2.8	2.1	2.1
M3	× 0.5	TY433206	11	56	3.5	2.7	2.5
M3.5	× 0.6	TY433226	12	56	4	3	2.9
M4	× 0.7	TY433246	13	63	4.5	3.4	3.3
M4.5	× 0.75	TY433266	14	70	6	4.9	3.7
M5	× 0.8	TY433286	15	70	6	4.9	4.2
M6	× 1	TY433316	17	80	6	4.9	5
M7	× 1	TY433346	17	80	7	5.5	6
M8	× 1.25	TY433366	20	90	8	6.2	6.8
M9	× 1.25	TY433396	20	90	9	7	7.8
M10	× 1.5	TY433426	22	100	10	8	8.5
M11	× 1.5	TY433466	22	100	8	6.2	9.5
M12	× 1.75	TY433506	24	110	9	7	10.2
M14	× 2	TY433546	26	110	11	9	12
M16	× 2	TY433606	27	110	12	9	14
M18	× 2.5	TY433656	30	125	14	11	15.5
M20	× 2.5	TY433706	32	140	16	12	17.5
M22	× 2.5	TY433746	32	140	18	14.5	19.5
M24	× 3	TY433786	34	160	18	14.5	21
M27	× 3	TY433866	36	160	20	16	24
M30	× 3.5	TY433946	40	180	22	18	26.5

► DIN 371(M2~M10) and DIN 376(M11~M30)

► * DIN profile not ISO

Unit : N/mm²

◎ : Excellent ○ : Good

Steel < 400	Steel < 700	Steel < 850	St. Alloy < 850	St. Alloy ≤ 1200	St. Alloy > 1200	INOX Free < 850	INOX Aust. < 850	INOX < 1000	GG Cast < 500	GG Cast < 1000	GGG Cast < 700	GGG Cast < 1000	Ti < 700	Ti Alloy < 900
Ti Alloy ≤ 1300	Ni < 500	Ni Alloy < 900	Ni Alloy ≤ 1400	Cu < 350	Cu Alloy Short	Cu Alloy Long	Cu-Al-Fe < 1500	Al / Mg < 350	Al Wrought	Al Si ≤ 10%	Al Si > 10%	Plastic Thermosoft	Plastic Thermoset	Plastic FRP

YG STRAIGHT FLUTE TAPS

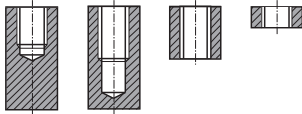
TC473 SERIES

MF ISO metric fine threads DIN 13
Metrisches ISO-Feingewinde DIN 13

► Suitable for tapping shallow holes.

► Geeignet zum Gewindeschneiden flacher Sacklöcher.

Hole type



DIN 374



HSS-E

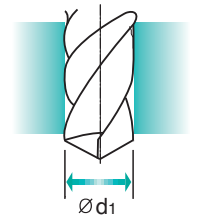
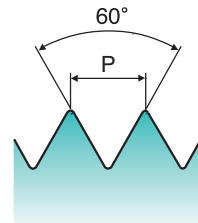
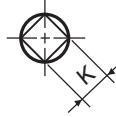
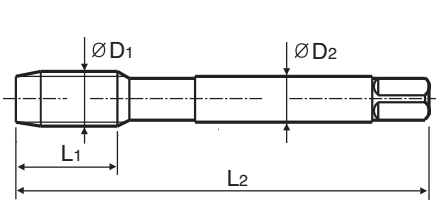
DIN 374

6H



Bright

Machine taps
 Maschinengewindebohrer



Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Shank Diameter	Square Size	Tapping Drill Diameter
ØD1	P		L1	L2	ØD2	K	Ød1
M4	× 0.5	TC473256	10	63	2.8	2.1	3.5
M5	× 0.5	TC473296	11	70	3.5	2.7	4.5
M6	× 0.75	TC473326	13	80	4.5	3.4	5.2
M6	× 0.5	TC473336	13	80	4.5	3.4	5.5
M7	× 0.75	TC473356	14	80	5.5	4.3	6.2
M8	× 1	TC473376	17	90	6	4.9	7
M8	× 0.75	TC473386	14	80	6	4.9	7.2
M8	× 0.5	TC473936	14	80	6	4.9	7.5
M10	× 1.25	TC473436	22	100	7	5.5	8.8
M10	× 1	TC473446	18	90	7	5.5	9
M10	× 0.75	TC473456	18	90	7	5.5	9.2
M12	× 1.5	TC473516	22	100	9	7	10.5
M12	× 1.25	TC473526	22	100	9	7	10.8
M12	× 1	TC473536	18	100	9	7	11
M14	× 1.5	TC473556	22	100	11	9	12.5
M14	× 1.25	TC473566	22	100	11	9	12.8
M14	× 1	TC473576	18	100	11	9	13
M16	× 1.5	TC473616	22	100	12	9	14.5
M18	× 1.5	TC473676	25	110	14	11	16.5
M20	× 1.5	TC473726	25	125	16	12	18.5
M22	× 1.5	TC473766	25	125	18	14.5	20.5
M24	× 1.5	TC473806	27	140	18	14.5	22.5

Unit : N/mm²

◎ : Excellent ○ : Good

Steel < 400	Steel < 700	Steel < 850	St. Alloy < 850	St. Alloy ≤ 1200	St. Alloy > 1200	INOX Free < 850	INOX Aust. < 850	INOX < 1000	GG Cast < 500	GG Cast < 1000	GGG Cast < 700	GGG Cast < 1000	Ti < 700	Ti Alloy < 900
○	○	○	○								○	○		
Ti Alloy ≤ 1300	Ni < 500	Ni Alloy < 900	Ni Alloy ≤ 1400	Cu < 350	Cu Alloy Short	Cu Alloy Long	Cu-Al-Fe < 1500	Al / Mg < 350	Al Wrought	Al Si ≤ 10%	Al Si > 10%	Plastic Thermosoft	Plastic Thermoset	Plastic FRP
					○	○					○			

YG STRAIGHT FLUTE TAPS

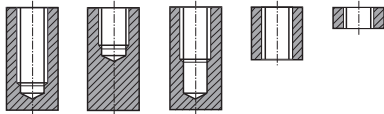
TE403 SERIES

MF ISO metric fine threads DIN 13
Metrisches ISO-Feingewinde DIN 13

► Suitable for tapping cast iron or similar work materials due to nitriding.

► Geeignet zum Gewindeschneiden von Guss oder ähnlichen Werkstoffen dank der Nitrierung

Hole type



DIN 374

Material groups **GG**

HSS-E

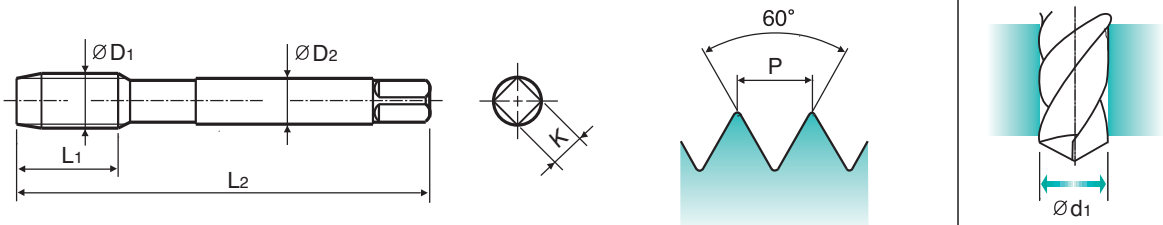
DIN 374

6HX



NI

Machine taps
Maschinengewindebohrer



Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Shank Diameter	Square Size	Tapping Drill Diameter
ØD1	P		L1	L2	ØD2	K	Ød1
M4	× 0.5	TE403256	10	63	2.8	2.1	3.5
M5	× 0.5	TE403296	11	70	3.5	2.7	4.5
M6	× 0.75	TE403326	13	80	4.5	3.4	5.2
M6	× 0.5	TE403336	13	80	4.5	3.4	5.5
M7	× 0.75	TE403356	14	80	5.5	4.3	6.2
M8	× 1	TE403376	17	90	6	4.9	7
M8	× 0.75	TE403386	14	80	6	4.9	7.2
M10	× 1.25	TE403436	22	100	7	5.5	8.8
M10	× 1	TE403446	18	90	7	5.5	9
M10	× 0.75	TE403456	18	90	7	5.5	9.2
M12	× 1.5	TE403516	22	100	9	7	10.5
M12	× 1.25	TE403526	22	100	9	7	10.8
M12	× 1	TE403536	18	100	9	7	11
M14	× 1.5	TE403556	22	100	11	9	12.5
M14	× 1.25	TE403566	22	100	11	9	12.8
M16	× 1.5	TE403616	22	100	12	9	14.5
M18	× 1.5	TE403676	25	110	14	11	16.5
M20	× 1.5	TE403726	25	125	16	12	18.5
M22	× 1.5	TE403766	25	125	18	14.5	20.5
M24	× 1.5	TE403806	27	140	18	14.5	22.5

Unit : N/mm²

◎ : Excellent ○ : Good

Steel < 400	Steel < 700	Steel < 850	St. Alloy < 850	St. Alloy < 1200	St. Alloy > 1200	INOX Free < 850	INOX Aust. < 850	INOX < 1000	GG Cast < 500	GG Cast < 1000	GGG Cast < 700	GGG Cast < 1000	Ti < 700	Ti Alloy < 900
Ti Alloy < 1300	Ni < 500	Ni Alloy < 900	Ni Alloy < 1400	Cu < 350	Cu Alloy Short	Cu Alloy Long	Cu-Al-Fe < 1500	Al / Mg < 350	Al Wrought	Al Si < 10%	Al Si > 10%	Plastic Thermosoft	Plastic Thermoset	Plastic FRP

Y/G STRAIGHT FLUTE TAPS

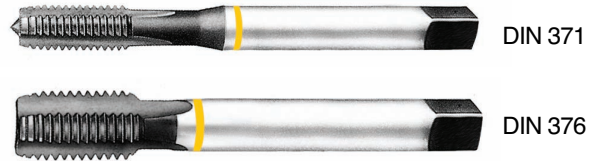
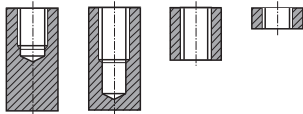
TC424 SERIES

UNC Unified coarse threads
Unified Grobgewinde

► Suitable for tapping shallow holes.

► Geeignet zum Gewindeschneiden flacher Sacklöcher.

Hole type



HSS-E

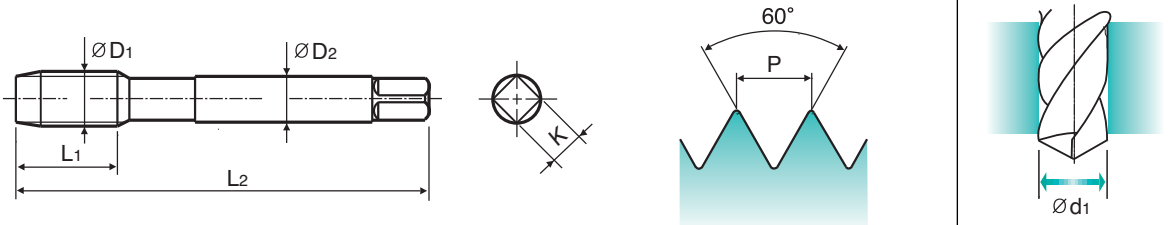
DIN 371/376

2B



Bright

Machine taps
Maschinengewindebohrer



SIZE	TPI	EDP No.	Thread Length	Overall Length	Shank Diameter	Square Size	Tapping Drill Diameter
ØD1			L1	L2	ØD2	K	Ød1
#4	40UNC	TC424162	11	56	3.5	2.7	2.3
#5	40UNC	TC424202	11	56	3.5	2.7	2.6
#6	32UNC	TC424242	12	56	4	3	2.85
#8	32UNC	TC424282	13	63	4.5	3.4	3.5
#10	24UNC	TC424322	15	70	6	4.9	3.9
#12	24UNC	TC424362	16	80	6	4.9	4.5
1/4"	20UNC	TC424402	17	80	7	5.5	5.2
5/16"	18UNC	TC424442	20	90	8	6.2	6.6
3/8"	16UNC	TC424482	22	100	9	7	8
7/16"	14UNC	TC424522	22	100	8	6.2	9.4
1/2"	13UNC	TC424562	25	110	9	7	10.75
9/16"	12UNC	TC424602	26	110	11	9	12.25
5/8"	11UNC	TC424642	27	110	12	9	13.5
3/4"	10UNC	TC424702	30	125	14	11	16.5
7/8"	9UNC	TC424742	32	140	18	14.5	19.5
1"	8UNC	TC424782	36	160	20	16	22.25
1 1/8"	7UNC	TC424822	40	180	22	18	25

► DIN 371(#4~3/8") and DIN 376(7/16"~1 1/8")

Unit : N/mm²

◎ : Excellent ○ : Good

Steel < 400	Steel < 700	Steel < 850	St. Alloy < 850	St. Alloy ≤ 1200	St. Alloy > 1200	INOX Free < 850	INOX Aust. < 850	INOX < 1000	GG Cast < 500	GG Cast < 1000	GGG Cast < 700	GGG Cast < 1000	Ti < 700	Ti Alloy < 900
○	○	○	○								○	○		
Ti Alloy ≤ 1300	Ni < 500	Ni Alloy < 900	Ni Alloy ≤ 1400	Cu < 350	Cu Alloy Short	Cu Alloy Long	Cu-Al-Fe < 1500	Al / Mg < 350	Al Wrought	Al Si ≤ 10%	Al Si > 10%	Plastic Thermosoft	Plastic Thermoset	Plastic FRP
					○	○					○			

YG STRAIGHT FLUTE TAPS

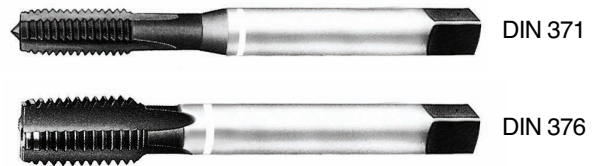
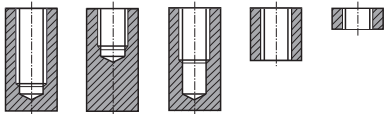
TE434 SERIES

UNC Unified coarse threads
Unified Grobgewinde

► Suitable for tapping cast iron or similar work materials due to nitriding.

► Geeignet zum Gewindeschneiden von Guss oder ähnlichen Werkstoffen dank der Nitrierung

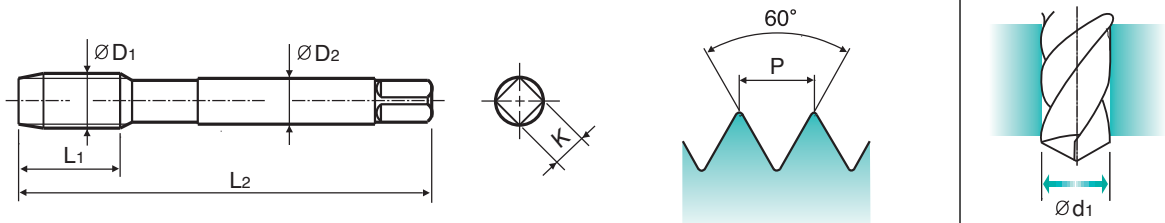
Hole type



Material groups **GG**

HSS-E DIN 371/376 2BX 60° C NI

Machine taps
Maschinengewindebohrer



Unit : mm

SIZE	TPI	EDP No.	Thread Length	Overall Length	Shank Diameter	Square Size	Tapping Drill Diameter
ØD1			L1	L2	ØD2	K	Ød1
#4	40 UNC	TE434162	11	56	3.5	2.7	2.3
#5	40 UNC	TE434202	11	56	3.5	2.7	2.6
#6	32 UNC	TE434242	12	56	4	3	2.85
#8	32 UNC	TE434282	13	63	4.5	3.4	3.5
#10	24 UNC	TE434322	15	70	6	4.9	3.9
#12	24 UNC	TE434362	16	80	6	4.9	4.5
1/4"	20 UNC	TE434402	17	80	7	5.5	5.2
5/16"	18 UNC	TE434442	20	90	8	6.2	6.6
3/8"	16 UNC	TE434482	22	100	9	7	8
7/16"	14 UNC	TE434522	22	100	8	6.2	9.4
1/2"	13 UNC	TE434562	25	110	9	7	10.75
9/16"	12 UNC	TE434602	26	110	11	9	12.25
5/8"	11 UNC	TE434642	27	110	12	9	13.5
3/4"	10 UNC	TE434702	30	125	14	11	16.5
7/8"	9 UNC	TE434742	32	140	18	14.5	19.5
1"	8 UNC	TE434782	36	160	20	16	22.25
1*1/8"	7 UNC	TE434822	40	180	22	18	25

► DIN 371(#4~3/8") and DIN 376(7/16"~1*1/8")

Unit : N/mm²

◎ : Excellent ○ : Good

Steel < 400	Steel < 700	Steel < 850	St. Alloy < 850	St. Alloy ≤ 1200	St. Alloy > 1200	INOX Free < 850	INOX Aust. < 850	INOX < 1000	GG Cast < 500	GG Cast < 1000	GGG Cast < 700	GGG Cast < 1000	Ti < 700	Ti Alloy < 900
Ti Alloy ≤ 1300	Ni < 500	Ni Alloy < 900	Ni Alloy ≤ 1400	Cu < 350	Cu Alloy Short	Cu Alloy Long	Cu-Al-Fe < 1500	Al / Mg < 350	Al Wrought	Al Si ≤ 10%	Al Si > 10%	Plastic Thermosoft	Plastic Thermoset	Plastic FRP

YG STRAIGHT FLUTE TAPS

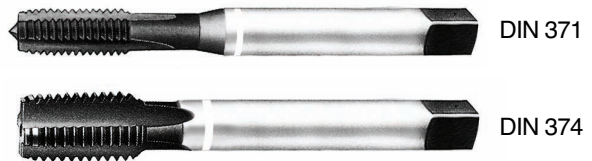
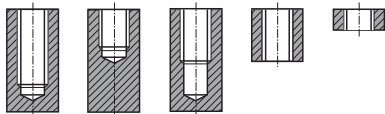
TE454 SERIES

UNF Unified fine threads
Unified Feingewinde

► Suitable for tapping cast iron or similar work materials due to nitriding.

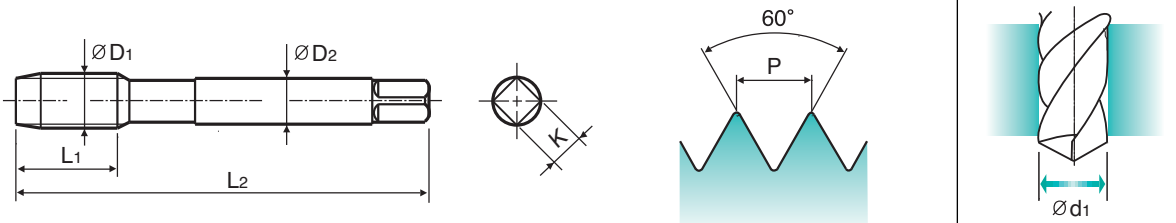
► Geeignet zum Gewindeschneiden von Guss oder ähnlichen Werkstoffen dank der Nitrierung

Hole type



Material groups: **GG** **HSS-E** **DIN 371/374** **2B** **60°** **C** **NI**

Machine taps
Maschinengewindebohrer



SIZE	TPI	EDP No.	Thread Length	Overall Length	Shank Diameter	Square Size	Tapping Drill Diameter
ØD1			L1	L2	ØD2	K	Ød1
#4	48 UNF	TE454182	11	56	3.5	2.7	2.4
#5	44 UNF	TE454222	11	56	3.5	2.7	2.7
#6	40 UNF	TE454262	12	56	4	3	3
#8	36 UNF	TE454302	13	63	4.5	3.4	3.5
#10	32 UNF	TE454342	13	70	6	4.9	4.1
#12	28 UNF	TE454382	16	80	6	4.9	4.7
1/4"	28 UNF	TE454422	17	80	7	5.5	5.5
5/16"	24 UNF	TE454462	17	90	8	6.2	6.9
3/8"	24 UNF	TE454502	18	100	9	7	8.5
7/16"	20 UNF	TE454542	22	100	8	6.2	9.9
1/2"	20 UNF	TE454582	22	100	9	7	11.5
9/16"	18 UNF	TE454622	22	100	11	9	12.9
5/8"	18 UNF	TE454662	22	100	12	9	14.5
3/4"	16 UNF	TE454722	25	110	14	11	17.5
7/8"	14 UNF	TE454762	26	125	18	14.5	20.5
1"	12 UNF	TE454802	28	140	20	16	23.25
1 1/8"	12 UNF	TE454842	30	150	22	18	26.5

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

Unit : N/mm² ◎ : Excellent ○ : Good

Steel < 400	Steel < 700	Steel < 850	St. Alloy < 850	St. Alloy ≤ 1200	St. Alloy > 1200	INOX Free < 850	INOX Aust. < 850	INOX < 1000	GG Cast < 500	GG Cast < 1000	GGG Cast < 700	GGG Cast < 1000	Ti < 700	Ti Alloy < 900
									◎	◎				
Ti Alloy ≤ 1300	Ni < 500	Ni Alloy < 900	Ni Alloy ≤ 1400	Cu < 350	Cu Alloy Short	Cu Alloy Long	Cu-Al-Fe < 1500	Al / Mg < 350	Al Wrought	Al Si ≤ 10%	Al Si > 10%	Plastic Thermosoft	Plastic Thermoset	Plastic FRP
					○									◎