

New Product Announcement

NPAT-2408-E

HSS & HSS-E PIPE TAP

For tapping straight and taper pipe threads
in a variety of materials.



**EXPANDED
SIZE RANGE**





PIPE Tap Size Expansion

HSS & HSS-E Tap for Pipe Threads

HSS & HSS-E Tap for tapping straight and taper pipe threads in a variety of materials.

Main Concept

- Get precision and efficiency in your plumbing and industrial projects with our cutting-edge pipe tap. Engineered to deliver exceptional performance, our new pipe tap is designed to meet the demands of professionals.
- Now available in NPT, NPTF, and BSPT (Rc) types, catering to a wide range of threading needs.
- Choose from advanced coatings like TiN, TiAlN, and Hard Slick for reduced friction and improved wear resistance with G(BSP) type.

Product Features

- **Material:** Crafted from HSS or HSS-E for enhanced durability and longer tool life.
- **Precision Geometry:** Designed for accurate and clean threading, reducing the risk of leaks and ensuring a perfect fit every time.
- **Surface Treatment:** Coated with TiN, TiAlN, Hard Slick or Steam Oxide to reduce friction and prevent corrosion, extending the tool's lifespan.





New Product Announcement

PIPE TAP Size Expansion

Sizes Summary

	Series	Size Range	Flute Type	Material Group	Coating	Material	Chamfer
	T7709	G1/16~G1-1/2	Straight Flute Tap	General Purpose	Bright Finish	HSS	Type I/II
New	TC728	G 1/8~1"	Spiral Flute Tap	General Purpose	Bright Finish	HSS-E	Form C
	TD728			General Purpose	TiN	HSS-E	Form C
	TC729			Steel	Bright Finish	HSS-E	Form C
New	TY729			Steel	TiALN	HSS-E	Form C
	TB514			Stainless Steel	Steam Oxide	HSS-E	Form C
New	TC514~HAR			Stainless Steel	Hard Slick	HSS-E	Form C
	TC727		Spiral Point Tap	General Purpose	Bright Finish	HSS-E	Form B
New	TD727			General Purpose	TiN	HSS-E	Form B
New	TCM01	NPT 1/16~1"	Straight Flute Tap	General Purpose	Bright Finish	HSS-E	Form C
New	TDM01			General Purpose	TiN	HSS-E	Form C
New	TBM04		Spiral Flute Tap, 25° Helix	Stainless Steel	Steam Oxide	HSS-E	Form C
New	TCM04~HAR			Stainless Steel	Hard Slick	HSS-E	Form C
New	TCM02	NPTF 1/16~1"	Straight Flute Tap	General Purpose	Bright Finish	HSS-E	Form C
New	TDM02			General Purpose	TiN	HSS-E	Form C
New	TBM05		Spiral Flute Tap, 25° Helix	Stainless Steel	Steam Oxide	HSS-E	Form C
New	TCM05~HAR			Stainless Steel	Hard Slick	HSS-E	Form C
New	TCM03	Rc(BSPT) 1/16~1"	Straight Flute Tap	General Purpose	Bright Finish	HSS-E	Form C
New	TDM03			General Purpose	TiN	HSS-E	Form C
New	TBM06		Spiral Flute Tap, 25° Helix	Stainless Steel	Steam Oxide	HSS-E	Form C
New	TCM06~HAR			Stainless Steel	Hard Slick	HSS-E	Form C



New Product Announcement
PIPE TAP Size Expansion

PIPE Tap Item List

T7709 SERIES

G(BSP) Whitworth Pipe threads DIN ISO 228/1

First



Bottoming



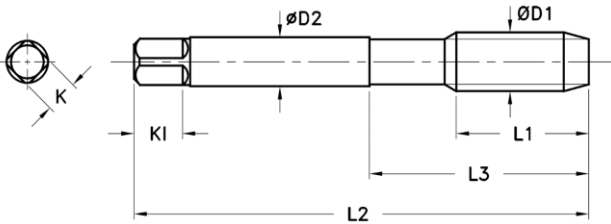
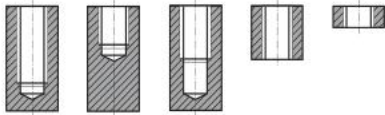
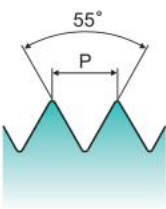


Diagram showing tap dimensions: $\varnothing D2$, $\varnothing D1$, K , KI , $L1$, $L2$, $L3$.

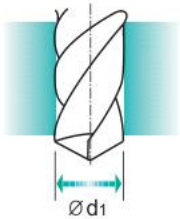
Hole type

2.0×D





55°
P



$\varnothing d1$

Material groups

GS

HSS

DIN 5157

55°

I/III

Bright

Sets of taps



Plain Shank
TAPPING ER CHUCK
TAPPING CHUCK
ONE STEP TAPPING CHUCK

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											
G1/16	-	28	T7709029	22	56	26	6	4.9	8	3	6.8
G1/8	-	28	T7709209	20	63	27	7	5.5	8	4	8.8
G1/4	-	19	T7709409	22	70	32	11	9	12	4	11.8
G3/8	-	19	T7709489	22	70	32	12	9	12	4	15.25
G1/2	-	14	T7709569	22	80	35	16	12	15	4	19
G3/4	-	14	T7709709	22	90	40	20	16	19	4	24.5
G1	-	11	T7709789	25	100	45	25	20	23	6	30.75
G1-1/4	-	11	T7709869	40	125	77	32	24	27	6	39.5
G1-1/2	-	11	T7709949	40	140	85	36	29	32	6	45.2

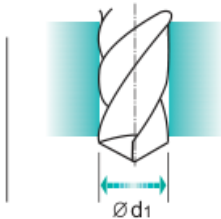
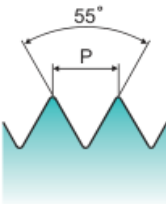
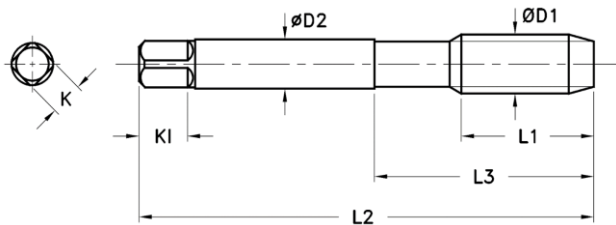
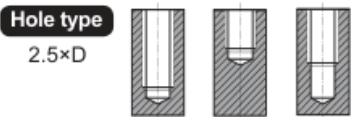


New Product Announcement
PIPE TAP Size Expansion

PIPE Tap Item List

Bright **TC728 SERIES**
New Series **TiN** **TD728 SERIES**

G(BSP) Whitworth Pipe threads DIN ISO 228/1



Machine taps



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			Bright	TiN	L1	L2	L3	ØD2	K	KI	Z	Ød1
G1/8	-	28	TC728200	TD728200	20	90	36	7	5.5	8	3	8.8
G1/4	-	19	TC728400	TD728400	22	100	40	11	9	12	3	11.8
G3/8	-	19	TC728480	TD728480	22	100	40	12	9	12	3	15.25
G1/2	-	14	TC728560	TD728560	25	125	50	16	12	15	4	19
G3/4	-	14	TC728700	TD728700	28	140	54	20	16	19	4	24.5
G1	-	11	TC728780	TD728780	30	160	60	25	20	23	4	30.75

*EDP numbers in red indicate new items.



New Product Announcement

PIPE TAP Size Expansion

PIPE Tap Item List

Bright **TC729 SERIES**

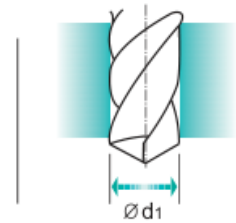
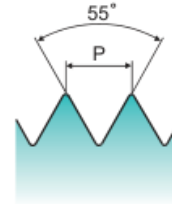
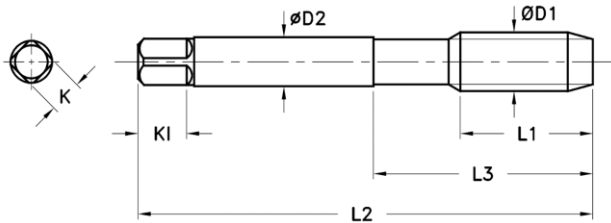
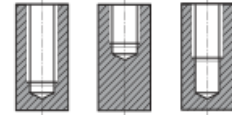
New Series **TiAIN** **TY729 SERIES**

G(BSP) Whitworth Pipe threads DIN ISO 228/1

DIN 5156



Hole type
2.5×D



Machine taps



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		Bright	TiAIN	L1	L2	L3	ØD2	K	KI	Z	Ød1
G1/8 -	28	TC729200	TY729200	20	90	36	7	5.5	8	3	8.8
G1/4 -	19	TC729400	TY729400	22	100	40	11	9	12	3	11.8
G3/8 -	19	TC729480	TY729480	22	100	40	12	9	12	3	15.25
G1/2 -	14	TC729560	TY729560	25	125	50	16	12	15	4	19
G3/4 -	14	TC729700	TY729700	28	140	54	20	16	19	4	24.5
G1 -	11	TC729780	TY729780	30	160	60	25	20	23	4	30.75

*EDP numbers in red indicate new items.



New Product Announcement

PIPE TAP Size Expansion

PIPE Tap Item List

Vap

TB514 SERIES

New Series **Hard Slick**

TC514-HAR SERIES

G(BSP)

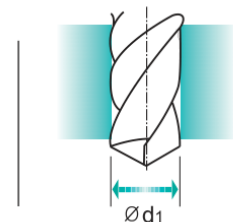
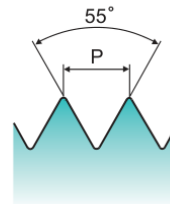
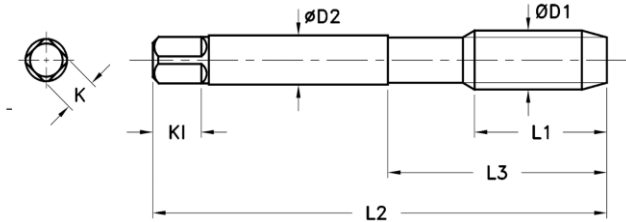
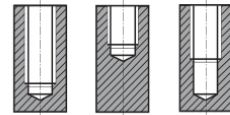
Whitworth Pipe threads DIN ISO 228/1

DIN 5156



Hole type

2.5×D



HSS-E

DIN 5156

55°

C

R40

Vap

Hard Slick

Machine taps



Plain Shank
TAPPING ER CHUCK
TAPPING CHUCK
ONE STEP TAPPING CHUCK

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			Vap	Hard Slick	L1	L2	L3	ØD2	K	K1	Z	Ød1
G1/8	-	28	TB514200	TC514200HAR	20	90	36	7	5.5	8	3	8.8
G1/4	-	19	TB514400	TC514400HAR	22	100	40	11	9	12	3	11.8
G3/8	-	19	TB514480	TC514480HAR	22	100	40	12	9	12	3	15.25
G1/2	-	14	TB514560	TC514560HAR	25	125	50	16	12	15	4	19
G3/4	-	14	TB514700	TC514700HAR	28	140	54	20	16	19	4	24.5
G1	-	11	TB514780	TC514780HAR	30	160	60	25	20	23	4	30.75

*EDP numbers in red indicate new items.



New Product Announcement

PIPE TAP Size Expansion

PIPE Tap Item List

Bright **TC727 SERIES**

New Series **TiN** **TD727 SERIES**

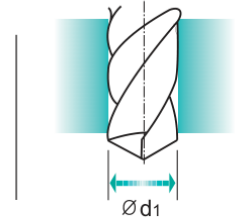
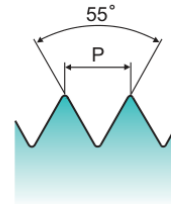
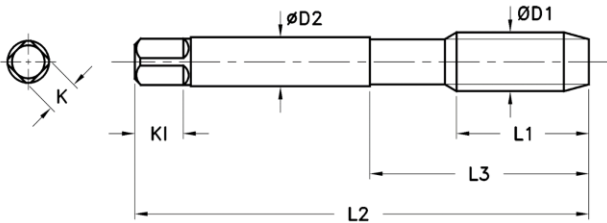
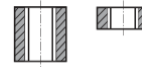
G(BSP) Whitworth Pipe threads DIN ISO 228/1

DIN 5156



Hole type

3,0×D



Machine taps



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			Bright	TiN	L1	L2	L3	ØD2	K	KI	Z	Ød1
G1/8	-	28	TC727200	TD727200	20	90	36	7	5.5	8	3	8.8
G1/4	-	19	TC727400	TD727400	22	100	40	11	9	12	3	11.8
G3/8	-	19	TC727480	TD727480	22	100	40	12	9	12	3	15.25
G1/2	-	14	TC727560	TD727560	25	125	50	16	12	15	4	19
G3/4	-	14	TC727700	TD727700	28	140	54	20	16	19	4	24.5
G1	-	11	TC727780	TD727780	30	160	60	25	20	23	4	30.75

*EDP numbers in red indicate new items.

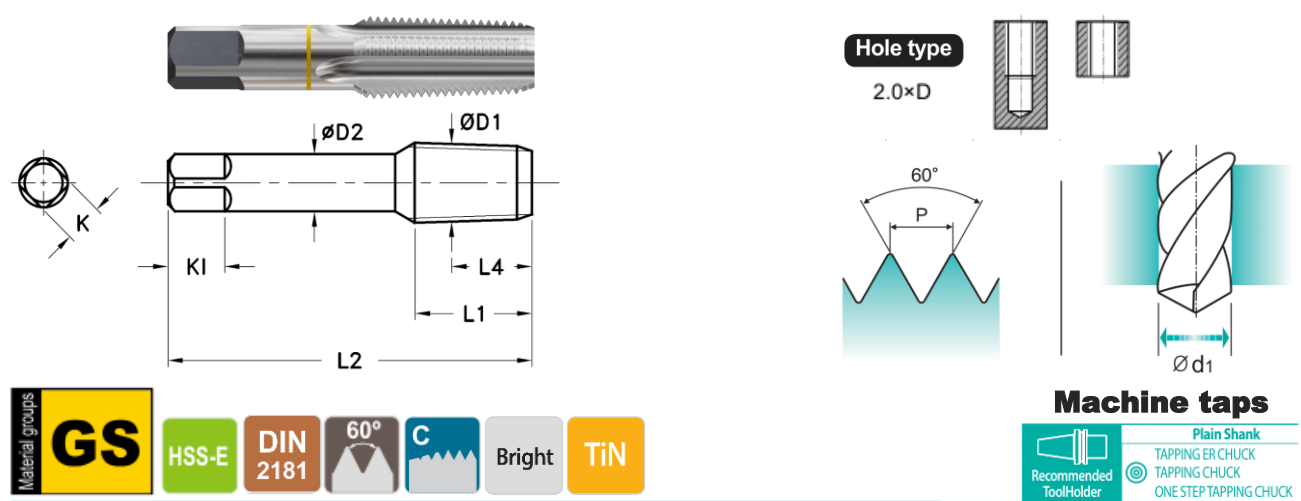


New Product Announcement
PIPE TAP Size Expansion

PIPE Tap Item List

New Series **Bright** **TCM01 SERIES**
New Series **TiN** **TDM01 SERIES**

NPT STRAIGHT FLUTE TAPER PIPE TAPS for NPT THREADS



Size	TPI	EDP No.		Thread Length	Overall Length	Projection Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1		Bright	TiN	L1	L2	L4	ØD2	K	KI	Z	Ød1
NPT1/16 -	27	TCM01020	TDM01020	13	56	12	6	4.9	8	4	6.15
NPT1/8 -	27	TCM01200	TDM01200	13	63	12.05	7	5.5	8	4	8.43
NPT1/4 -	18	TCM01400	TDM01400	19	63	17.45	11	9	12	4	11.13
NPT3/8 -	18	TCM01480	TDM01480	19	70	17.65	12	9	12	4	14.27
NPT1/2 -	14	TCM01560	TDM01560	25	80	22.85	16	12	15	4	17.86
NPT3/4 -	14	TCM01700	TDM01700	25	100	22.95	20	16	19	5	23.01
NPT1" -	11_1/2	TCM01780	TDM01780	30	110	27.4	25	20	23	5	28.98

*EDP numbers in red indicate new items.

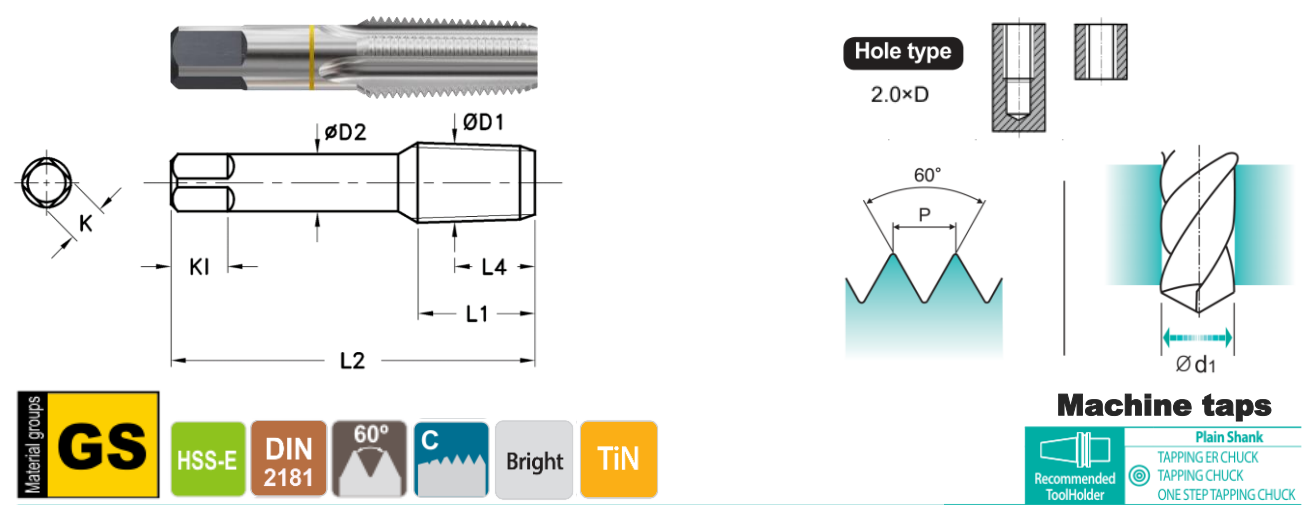


New Product Announcement
PIPE TAP Size Expansion

PIPE Tap Item List

New Series **Bright** **TCM02 SERIES**
New Series **TiN** **TDM02 SERIES**

NPTF STRAIGHT FLUTE TAPER PIPE TAPS for NPTF THREADS



Size	TPI	EDP No.		Thread Length	Overall Length	Projection Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
$\varnothing D1$		Bright	TiN	L1	L2	L4	$\varnothing D2$	K	KI	Z	$\varnothing d1$
NPTF1/16 -	27	TCM02020	TDM02020	13	56	12	6	4.9	8	4	6.15
NPTF1/8 -	27	TCM02200	TDM02200	13	63	12.05	7	5.5	8	4	8.43
NPTF1/4 -	18	TCM02400	TDM02400	19	63	17.45	11	9	12	4	11.13
NPTF3/8 -	18	TCM02480	TDM02480	19	70	17.65	12	9	12	4	14.27
NPTF1/2 -	14	TCM02560	TDM02560	25	80	22.85	16	12	15	4	17.86
NPTF3/4 -	14	TCM02700	TDM02700	25	100	22.95	20	16	19	5	23.01
NPTF1" -	11_1/2	TCM02780	TDM02780	30	110	27.4	25	20	23	5	28.98

*EDP numbers in red indicate new items.



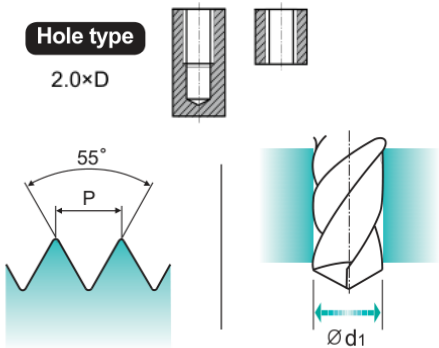
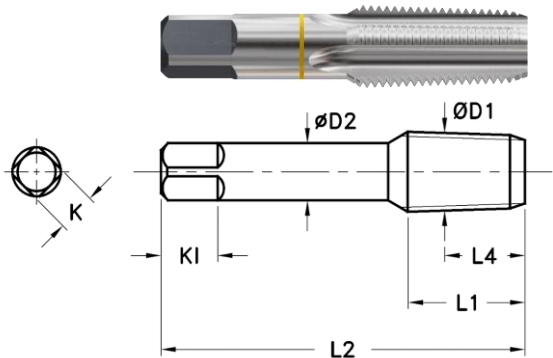
New Product Announcement

PIPE TAP Size Expansion

PIPE Tap Item List

New Series **Bright** **TCM03 SERIES**
New Series **TiN** **TDM03 SERIES**

BSPT(Rc) STRAIGHT FLUTE TAPER PIPE TAPS for BSPT(Rc)



Unit : mm

Size	TPI	EDP No.		Thread Length	Overall Length	Projection Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1		Bright	TiN	L1	L2	L4	ØD2	K	KI	Z	Ød1
Rc1/16	- 28	TCM03020	TDM03020	13	56	10.1	6	4.9	8	4	6.2
Rc1/8	- 28	TCM03200	TDM03200	13	63	10.1	7	5.5	8	4	8.2
Rc1/4	- 19	TCM03400	TDM03400	19	63	15	11	9	12	4	11
Rc3/8	- 19	TCM03480	TDM03480	19	70	15.4	12	9	12	4	14.5
Rc1/2	- 14	TCM03560	TDM03560	25	80	20.5	16	12	15	4	18
Rc3/4	- 14	TCM03700	TDM03700	25	100	21.8	20	16	19	5	23.5
Rc1"	- 11	TCM03780	TDM03780	30	110	26	25	20	23	5	29.5

*EDP numbers in red indicate new items.



New Product Announcement
PIPE TAP Size Expansion

PIPE Tap Item List

New Series

Vap

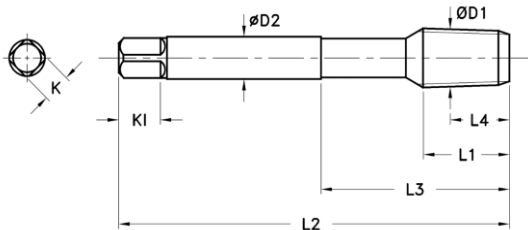
TBM04 SERIES

New Series Hard Slick

TCM04-HAR SERIES

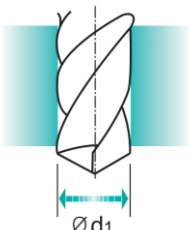
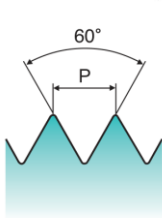
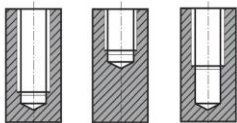
NPT

SPIRAL FLUTE TAPER PIPE TAPS for NPT THREADS



Hole type

2.5×D



Ø d1



HSS-E

DIN 5156

60°

C

R25

Vap

Hardslick

Machine taps



Plain Shank
TAPPING ER CHUCK
TAPPING CHUCK
ONE STEP TAPPING CHUCK

Unit : mm

Size		TPI	EDP No.		Thread Length	Overall Length	Neck Length	Projection Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1			Vap	Hard Slick	L1	L2	L3	L4	ØD2	K	KI	Z	Ød1
NPT1/16	-	27	TBM04020	TCM04020HAR	13	90	45	12	6	4.9	8	3	6.15
NPT1/8	-	27	TBM04200	TCM04200HAR	13	90	45	12.05	7	5.5	8	3	8.43
NPT1/4	-	18	TBM04400	TCM04400HAR	19	100	50	17.45	11	9	12	3	11.13
NPT3/8	-	18	TBM04480	TCM04480HAR	19	110	55	17.65	12	9	12	3	14.27
NPT1/2	-	14	TBM04560	TCM04560HAR	25	125	65	22.85	16	12	15	4	17.86
NPT3/4	-	14	TBM04700	TCM04700HAR	25	140	75	22.95	20	16	19	4	23.01
NPT1"	-	11_1/2	TBM04780	TCM04780HAR	30	160	85	27.4	25	20	23	4	28.98

*EDP numbers in red indicate new items.



New Product Announcement
PIPE TAP Size Expansion

PIPE Tap Item List

New Series

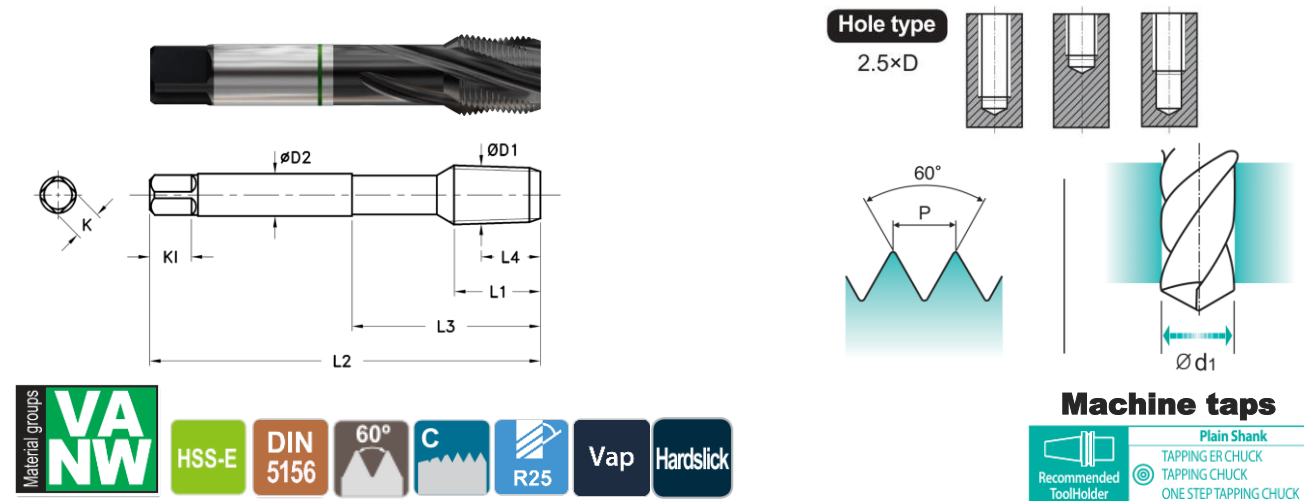
Vap

TBM05 SERIES

New Series Hard Slick

TCM05-HAR SERIES

NPTF SPIRAL FLUTE TAPER PIPE TAPS for NPTF THREADS



Size	TPI	EDP No.		Thread Length	Overall Length	Neck Length	Projection Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1		Vap	Hard Slick	L1	L2	L3	L4	ØD2	K	KI	Z	Ød1
NPTF1/16 -	27	TBM05020	TCM05020HAR	13	90	45	12	6	4.9	8	3	6.15
NPTF1/8 -	27	TBM05200	TCM05200HAR	13	90	45	12.05	7	5.5	8	3	8.43
NPTF1/4 -	18	TBM05400	TCM05400HAR	19	100	50	17.45	11	9	12	3	11.13
NPTF3/8 -	18	TBM05480	TCM05480HAR	19	110	55	17.65	12	9	12	3	14.27
NPTF1/2 -	14	TBM05560	TCM05560HAR	25	125	65	22.85	16	12	15	4	17.86
NPTF3/4 -	14	TBM05700	TCM05700HAR	25	140	75	22.95	20	16	19	4	23.01
NPTF1" -	11_1/2	TBM05780	TCM05780HAR	30	160	85	27.4	25	20	23	4	28.98

*EDP numbers in red indicate new items.



New Product Announcement

PIPE TAP Size Expansion

PIPE Tap Item List

New Series

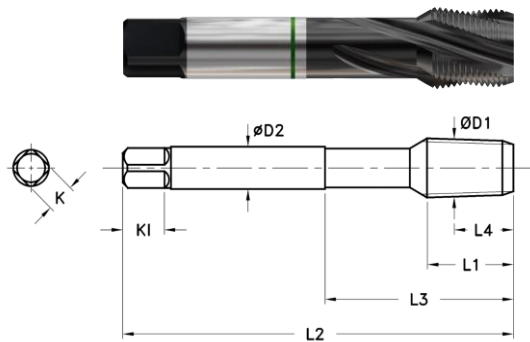
Vap

TBM06 SERIES

New Series **Hard Slick**

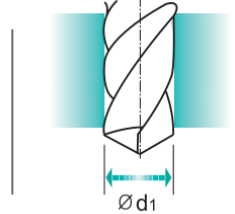
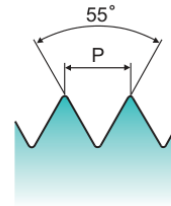
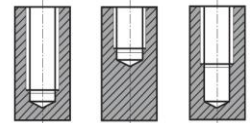
TCM06-HAR SERIES

BSPT(Rc) SPIRAL FLUTE TAPER PIPE TAPS for BSPT(Rc)



Hole type

2.5×D



HSS-E

DIN 5156

55°

C

R25

Vap

Hardlick

Machine taps



Plain Shank
TAPPING ER CHUCK
TAPPING CHUCK
ONE STEP TAPPING CHUCK

Unit : mm

Size		TPI	EDP No.		Thread Length	Overall Length	Neck Length	Projection Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1			Vap	Hard Slick	L1	L2	L3	L4	ØD2	K	KI	Z	Ød1
Rc1/16	-	28	TBM06020	TCM06020HAR	13	90	45	10.1	6	4.9	8	3	6.2
Rc1/8	-	28	TBM06200	TCM06200HAR	13	90	45	10.1	7	5.5	8	3	8.2
Rc1/4	-	19	TBM06400	TCM06400HAR	19	100	50	15	11	9	12	3	11
Rc3/8	-	19	TBM06480	TCM06480HAR	19	110	55	15.4	12	9	12	3	14.5
Rc1/2	-	14	TBM06560	TCM06560HAR	25	125	65	20.5	16	12	15	4	18
Rc3/4	-	14	TBM06700	TCM06700HAR	25	140	75	21.8	20	16	19	4	23.5
Rc1"	-	11	TBM06780	TCM06780HAR	30	160	85	26	25	20	23	4	29.5

*EDP numbers in red indicate new items.