

powertap™
MADE IN GERMANY UNIVERSAL TAPS

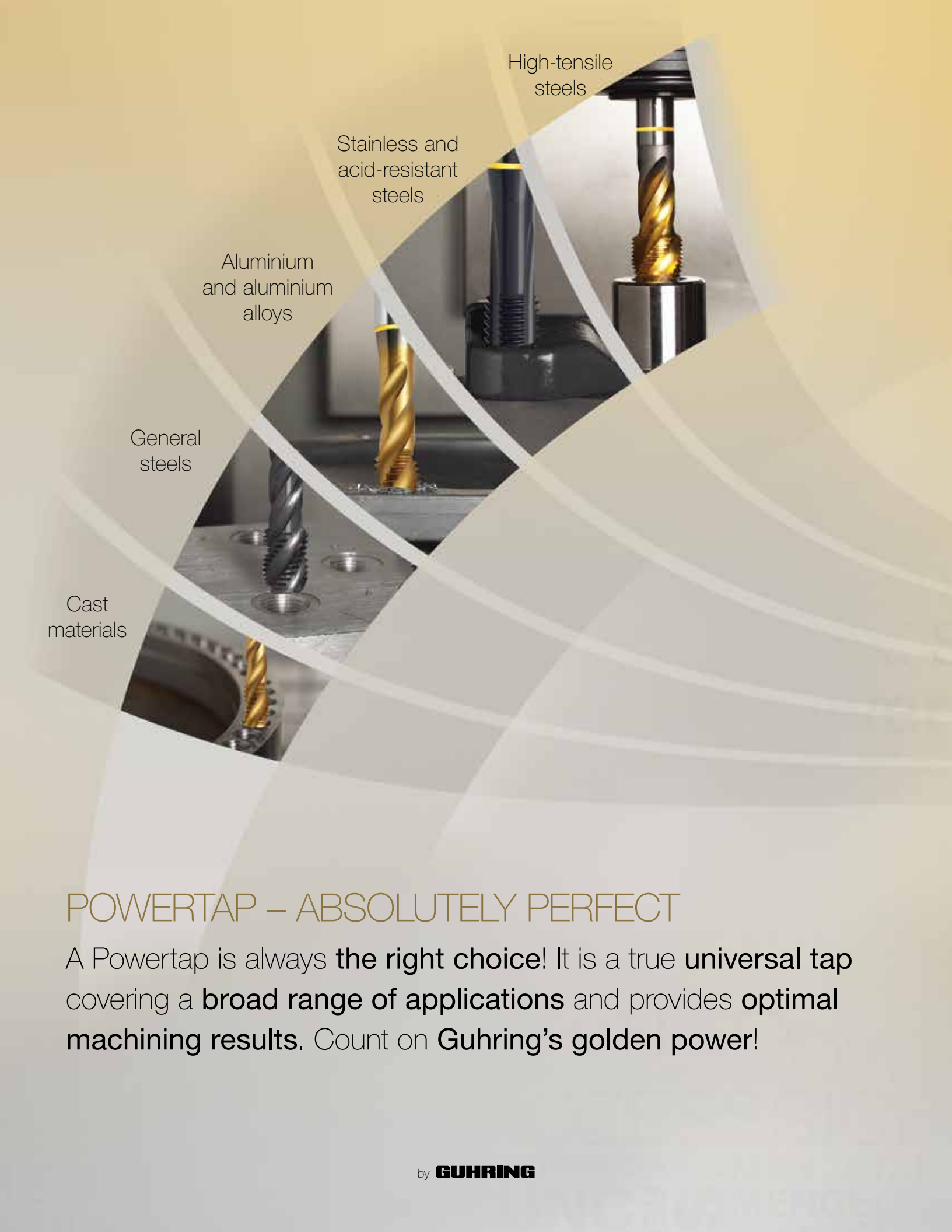
MADE BY
GUHRING

TOP QUALITY
FROM GERMANY
at a Power Price

TO FORM
FOR UNIV
UNIVERSAL
perfect
perfect
choice
PR
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po
PO

ISO-METRIC
THREADS
utes
GUHRING
QUALITY
METAL
UNIVERSAL TAPS
UNIVERSAL
AL TAPS

PERFECT CHOICE
FOR ALL MATERIALS
**POWER
PRICE**
UNIVERSAL TAPS
UNC Power
UNIVERSAL TAPS
UNIVERSAL perfect thread form
AL TAPS powerful **UNF**



High-tensile
steels

Stainless and
acid-resistant
steels

Aluminium
and aluminium
alloys

General
steels

Cast
materials

POWERTAP – ABSOLUTELY PERFECT

A Powertap is always **the right choice!** It is a true **universal tap** covering a **broad range of applications** and provides **optimal machining results**. Count on **Guhring's golden power!**

by **GUHRING**

MORE POWER FOR YOUR PRODUCTION

PowerTap – top quality from Germany at a power price

YOUR ADVANTAGES:

- » UNMATCHABLE
PRICE/PERFORMANCE RATIO
- » MAXIMUM STOCK AVAILABILITY
- » GUHRING QUALITY
- » SHORT DELIVERY TIMES
- » LONG TOOL LIFE
- » PERFECT THREADS
- » MAXIMUM PROCESS RELIABILITY

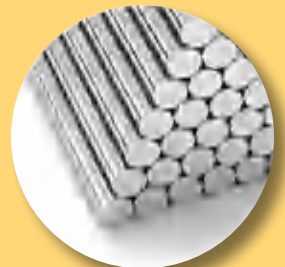
Optimized geometries for
maximum performance



Completely precision ground on
specially developed machines



Finest quality substrates



More power for your production



GÜHROSync

UP TO 30% BETTER PERFORMANCE AT A POWER PRICE

Allows for 0.3 mm of compensation for up
to 75% reduction in axial forces

Offers internal, peripheral or
MQL lubrication

Extreme concentricity and
application speed

First tapping chuck to offer combination
of steel and polymer components
for independent axial and torsional
force dampening

Quick and simple handling, slim design

Maximum tool life and thread accuracy



The new **GÜHROSync** tapping chuck

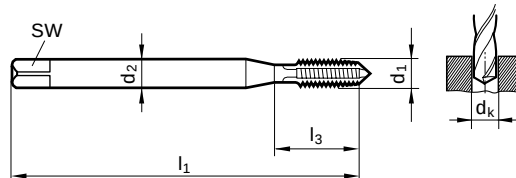
Synchro and hydraulic clamping technology intelligently combined

by **GUHRING**

Tool material			HSS-E	HSS-E	HSS-E	HSS-E	HSS-E-PM	HSS-E	HSS-E-PM	HSS-E
Flute/Chamfer			R.H. Helix/C	R.H. Helix/C	R.H. Helix/C	R.H. Helix/E	R.H. Helix/C	Straight/B	Straight/B	Straight/B
Surface finish										
Cooling										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										



-  through holes
-  steam oxide
-  external cooling



Series 4402

Standard ASME B94.9-1999

Standard ANSI

Tool Material HSS-E (Cobalt)

Flute Spiral Point

Chamfer Form B (3.5 - 5)



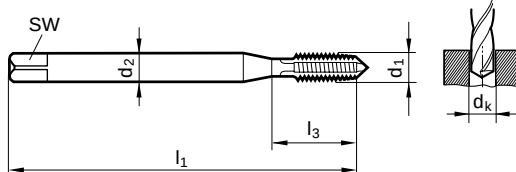
Class of Fit 2B / 3B see H Limits
Cutting Direction right-hand

d1 - P	Thread Limits	d2	SW	dk	l1	l3	Order Code	EDP Number
inch		inch	inch	inch	inch	inch		
2-56	H2	0.141	0.110	0.0700	1.752	0.441	202.184	9044022021840
3-48	H2	0.141	0.110	0.0811	1.811	0.500	202.515	9044022025150
4-40	H2	0.141	0.110	0.0890	1.882	0.709	202.845	9044022028450
4-40	H3	0.141	0.110	0.0890	1.882	0.709	302.845	9044023028450
4-40	H5	0.141	0.110	0.0890	1.882	0.709	502.845	9044025028450
5-40	H2	0.141	0.110	0.1016	1.941	0.709	203.175	9044022031750
6-32	H3	0.141	0.110	0.1094	2.000	0.748	303.505	9044023035050
6-32	H5	0.141	0.110	0.1094	2.000	0.748	503.505	9044025035050
8-32	H3	0.168	0.131	0.1358	2.130	0.827	304.166	9044023041660
8-32	H5	0.168	0.131	0.1358	2.130	0.827	504.166	9044025041660
10-24	H3	0.194	0.152	0.1520	2.382	0.945	304.826	9044023048260
10-24	H5	0.194	0.152	0.1520	2.382	0.945	504.826	9044025048260
12-24	H3	0.220	0.165	0.1772	2.382	1.024	305.486	9044023054860
1/4-20	H3	0.255	0.191	0.2031	2.500	1.181	306.350	9044023063500
1/4-20	H5	0.255	0.191	0.2031	2.500	1.181	506.350	9044025063500
5/16-18	H3	0.318	0.238	0.2610	2.721	1.377	307.938	9044023079380
5/16-18	H5	0.318	0.238	0.2610	2.721	1.377	507.938	9044025079380
3/8-16	H3	0.381	0.286	0.3161	2.941	1.456	309.525	9044023095250
3/8-16	H5	0.381	0.286	0.3161	2.941	1.456	509.525	9044025095250
7/16-14	H3	0.323	0.242	0.3677	3.161	N/A	311.113	9044023111130
7/16-14	H5	0.323	0.242	0.3677	3.161	N/A	511.113	9044025111130
1/2-13	H3	0.367	0.275	0.4220	3.382	N/A	312.700	9044023127000
1/2-13	H5	0.367	0.275	0.4220	3.382	N/A	512.700	9044025127000
9/16-12	H3	0.429	0.322	0.4843	3.591	N/A	314.288	9044023142880
5/8-11	H3	0.480	0.360	0.5311	3.811	N/A	315.875	9044023158750
5/8-11	H5	0.480	0.360	0.5311	3.811	N/A	515.875	9044025158750
3/4-10	H3	0.590	0.442	0.6563	4.252	N/A	319.050	9044023190500
3/4-10	H5	0.590	0.442	0.6563	4.252	N/A	519.050	9044025190500
7/8-9	H5	0.697	0.523	0.7680	4.689	N/A	522.225	9044025222250
1-8	H5	0.800	0.600	0.8748	5.130	N/A	525.400	9044025254000





-  through holes
-  Ignator coated
-  external cooling



Series	4885
Standard	ASME B94.9-1999
Standard	ANSI
Tool Material	HSS-E (Cobalt)
Flute	Spiral Point
Chamfer Form	B (3.5 - 5)



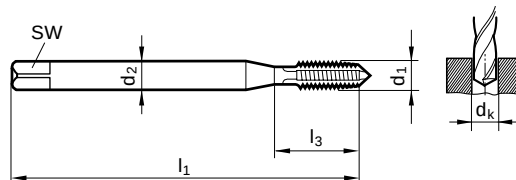
Class of Fit	2B / 3B see H Limits
Cutting Direction	right-hand

d1 - P	Thread Limits	d2	SW	dk	l1	l3	Order Code	EDP Number
inch		inch	inch	inch	inch	inch		
2-56	H2	0.141	0.110	0.0700	1.752	0.441	202.184	9048852021840
3-48	H2	0.141	0.110	0.0811	1.811	0.500	202.515	9048852025150
4-40	H2	0.141	0.110	0.0890	1.882	0.709	202.845	9048852028450
4-40	H3	0.141	0.110	0.0890	1.882	0.709	302.845	9048853028450
4-40	H5	0.141	0.110	0.0890	1.882	0.709	502.845	9048855028450
5-40	H2	0.141	0.110	0.1016	1.941	0.709	203.175	9048852031750
6-32	H3	0.141	0.110	0.1094	2.000	0.748	303.505	9048853035050
6-32	H5	0.141	0.110	0.1094	2.000	0.748	503.505	9048855035050
8-32	H3	0.168	0.131	0.1358	2.130	0.827	304.166	9048853041660
8-32	H5	0.168	0.131	0.1358	2.130	0.827	504.166	9048855041660
10-24	H3	0.194	0.152	0.1520	2.382	0.945	304.826	9048853048260
10-24	H5	0.194	0.152	0.1520	2.382	0.945	504.826	9048855048260
12-24	H3	0.220	0.165	0.1772	2.382	1.024	305.486	9048853054860
1/4-20	H3	0.255	0.191	0.2031	2.500	1.181	306.350	9048853063500
1/4-20	H5	0.255	0.191	0.2031	2.500	1.181	506.350	9048855063500
5/16-18	H3	0.318	0.238	0.2610	2.721	1.377	307.938	9048853079380
5/16-18	H5	0.318	0.238	0.2610	2.721	1.377	507.938	9048855079380
3/8-16	H3	0.381	0.286	0.3161	2.941	1.456	309.525	9048853095250
3/8-16	H5	0.381	0.286	0.3161	2.941	1.456	509.525	9048855095250
7/16-14	H3	0.323	0.242	0.3677	3.161	N/A	311.113	9048853111130
7/16-14	H5	0.323	0.242	0.3677	3.161	N/A	511.113	9048855111130
1/2-13	H3	0.367	0.275	0.4220	3.382	N/A	312.700	9048853127000
1/2-13	H5	0.367	0.275	0.4220	3.382	N/A	512.700	9048855127000
9/16-12	H3	0.429	0.322	0.4843	3.591	N/A	314.288	9048853142880
5/8-11	H3	0.480	0.360	0.5311	3.811	N/A	315.875	9048853158750
5/8-11	H5	0.480	0.360	0.5311	3.811	N/A	515.875	9048855158750
3/4-10	H3	0.590	0.442	0.6563	4.252	N/A	319.050	9048853190500
3/4-10	H5	0.590	0.442	0.6563	4.252	N/A	519.050	9048855190500
7/8-9	H5	0.697	0.523	0.7680	4.689	N/A	522.225	9048855222250
1-8	H5	0.800	0.600	0.8748	5.130	N/A	525.400	9048855254000





-  through holes
-  steam oxide
-  external cooling



Series 4405

Standard ASME B94.9-1999

Standard ANSI

Tool Material HSS-E (Cobalt)

Flute Spiral Point

Chamfer Form B (3.5 - 5)



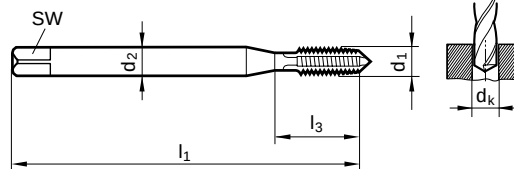
Class of Fit 2B / 3B see H Limits
Cutting Direction right-hand

d1 - P inch	Thread Limits	d2 inch	SW inch	dk inch	l1 inch	l3 inch	Order Code	EDP Number
3-56	H2	0.141	0.110	0.0827	1.811	0.500	202.515	9044052025150
4-48	H2	0.141	0.110	0.0937	1.882	0.709	202.845	9044052028450
6-40	H2	0.141	0.110	0.1161	2.000	0.748	203.505	9044052035050
8-36	H2	0.168	0.131	0.1378	2.130	0.827	204.166	9044052041660
10-32	H3	0.194	0.152	0.1610	2.382	0.945	304.826	9044053048260
10-32	H5	0.194	0.152	0.1610	2.382	0.945	504.826	9044055048260
10-32	H6	0.194	0.152	0.1610	2.382	0.945	604.826	9044056048260
12-28	H3	0.220	0.165	0.1820	2.382	1.024	305.486	9044053054860
1/4-28	H3	0.255	0.191	0.2165	2.500	1.181	306.350	9044053063500
1/4-28	H5	0.255	0.191	0.2165	2.500	1.181	506.350	9044055063500
5/16-24	H3	0.318	0.238	0.2717	2.721	1.377	307.938	9044053079380
5/16-24	H5	0.318	0.238	0.2717	2.721	1.377	507.938	9044055079380
3/8-24	H3	0.381	0.285	0.3346	2.941	1.456	309.525	9044053095250
3/8-24	H5	0.381	0.285	0.3346	2.941	1.456	509.525	9044055095250
7/16-20	H3	0.323	0.242	0.3906	3.161	N/A	311.113	9044053111130
7/16-20	H5	0.323	0.242	0.3906	3.161	N/A	511.113	9044055111130
1/2-20	H3	0.367	0.275	0.4531	3.382	N/A	312.700	9044053127000
1/2-20	H5	0.367	0.275	0.4531	3.382	N/A	512.700	9044055127000
9/16-18	H3	0.429	0.322	0.5118	3.591	N/A	314.288	9044053142880
5/8-18	H3	0.480	0.360	0.5709	3.811	N/A	315.875	9044053158750
5/8-18	H5	0.480	0.360	0.5709	3.811	N/A	515.875	9044055158750
3/4-16	H3	0.590	0.442	0.6874	4.252	N/A	319.050	9044053190500
3/4-16	H5	0.590	0.442	0.6874	4.252	N/A	519.050	9044055190500
7/8-14	H4	0.697	0.523	0.8030	4.689	N/A	422.225	9044054222250
1-12	H4	0.800	0.600	0.9220	5.130	N/A	425.400	9044054254000




Series
4886

-  through holes
-  Ignator coated
-  external cooling


Standard
ASME B94.9-1999
Standard
ANSI
Tool Material
HSS-E (Cobalt)
Flute
Spiral Point
Chamfer Form
B (3.5 - 5)

Class of Fit
2B / 3B see H Limits
Cutting Direction
right-hand

d1 - P inch	Thread Limits	d2 inch	SW inch	dk inch	l1 inch	l3 inch	Order Code	EDP Number
3-56	H2	0.141	0.110	0.0827	1.811	0.500	202.515	9048862025150
4-48	H2	0.141	0.110	0.0937	1.882	0.709	202.845	9048862028450
6-40	H2	0.141	0.110	0.1161	2.000	0.748	203.505	9048862035050
8-36	H2	0.168	0.131	0.1378	2.130	0.827	204.166	9048862041660
10-32	H3	0.194	0.152	0.1610	2.382	0.945	304.826	9048863048260
10-32	H5	0.194	0.152	0.1610	2.382	0.945	504.826	9048865048260
10-32	H6	0.194	0.152	0.1610	2.382	0.945	604.826	9048866048260
12-28	H3	0.220	0.165	0.1820	2.382	1.024	305.486	9048863054860
1/4-28	H3	0.255	0.191	0.2165	2.500	1.181	306.350	9048863063500
1/4-28	H5	0.255	0.191	0.2165	2.500	1.181	506.350	9048865063500
5/16-24	H3	0.318	0.238	0.2717	2.721	1.377	307.938	9048863079380
5/16-24	H5	0.318	0.238	0.2717	2.721	1.377	507.938	9048865079380
3/8-24	H3	0.381	0.285	0.3346	2.941	1.456	309.525	9048863095250
3/8-24	H5	0.381	0.285	0.3346	2.941	1.456	509.525	9048865095250
7/16-20	H3	0.323	0.242	0.3906	3.161	N/A	311.113	9048863111130
7/16-20	H5	0.323	0.242	0.3906	3.161	N/A	511.113	9048865111130
1/2-20	H3	0.367	0.275	0.4531	3.382	N/A	312.700	9048863127000
1/2-20	H5	0.367	0.275	0.4531	3.382	N/A	512.700	9048865127000
9/16-18	H3	0.429	0.322	0.5118	3.591	N/A	314.288	9048863142880
5/8-18	H3	0.480	0.360	0.5709	3.811	N/A	315.875	9048863158750
5/8-18	H5	0.480	0.360	0.5709	3.811	N/A	515.875	9048865158750
3/4-16	H3	0.590	0.442	0.6874	4.252	N/A	319.050	9048863190500
3/4-16	H5	0.590	0.442	0.6874	4.252	N/A	519.050	9048865190500
7/8-14	H4	0.697	0.523	0.8030	4.689	N/A	422.225	9048864222250
1-12	H4	0.800	0.600	0.9220	5.130	N/A	425.400	9048864254000





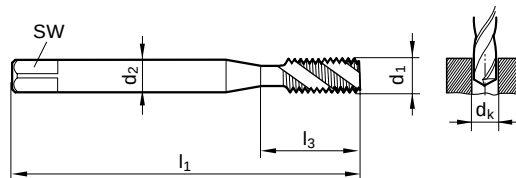
blind holes



steam oxide



external cooling



Series

4407

Standard

ASME B94.9-1999

Standard

ANSI

Tool Material

HSS-E (Cobalt)

Flute

RH 40° Spiral

Chamfer Form

C (2 - 3)



Class of Fit
Cutting Direction

2B / 3B see H Limits
right-hand

d1 - P	Thread Limits	d2	SW	dk	l1	l3	Order Code	EDP Number
inch		inch	inch	inch	inch	inch		
2-56	H2	0.141	0.110	0.0700	1.752	0.441	202.184	9044072021840
3-48	H2	0.141	0.110	0.0811	1.811	0.500	202.515	9044072025150
4-40	H2	0.141	0.110	0.0890	1.882	0.709	202.845	9044072028450
4-40	H3	0.141	0.110	0.0890	1.882	0.709	302.845	9044073028450
4-40	H5	0.141	0.110	0.0890	1.882	0.709	502.845	9044075028450
5-40	H2	0.141	0.110	0.1016	1.941	0.709	203.175	9044072031750
6-32	H3	0.141	0.110	0.1094	2.000	0.748	303.505	9044073035050
6-32	H5	0.141	0.110	0.1094	2.000	0.748	503.505	9044075035050
8-32	H3	0.168	0.131	0.1358	2.130	0.827	304.166	9044073041660
8-32	H5	0.168	0.131	0.1358	2.130	0.827	504.166	9044075041660
10-24	H3	0.194	0.152	0.1520	2.382	0.945	304.826	9044073048260
10-24	H5	0.194	0.152	0.1520	2.382	0.945	504.826	9044075048260
12-24	H3	0.220	0.165	0.1772	2.382	1.024	305.486	9044073054860
1/4-20	H3	0.255	0.191	0.2031	2.500	1.181	306.350	9044073063500
1/4-20	H5	0.255	0.191	0.2031	2.500	1.181	506.350	9044075063500
5/16-18	H3	0.318	0.238	0.2610	2.721	1.377	307.938	9044073079380
5/16-18	H5	0.318	0.238	0.2610	2.721	1.377	507.938	9044075079380
3/8-16	H3	0.381	0.286	0.3161	2.941	1.456	309.525	9044073095250
3/8-16	H5	0.381	0.286	0.3161	2.941	1.456	509.525	9044075095250
7/16-14	H3	0.323	0.242	0.3677	3.161	N/A	311.113	9044073111130
7/16-14	H5	0.323	0.242	0.3677	3.161	N/A	511.113	9044075111130
1/2-13	H3	0.367	0.275	0.4220	3.382	N/A	312.700	9044073127000
1/2-13	H5	0.367	0.275	0.4220	3.382	N/A	512.700	9044075127000
9/16-12	H3	0.429	0.322	0.4843	3.591	N/A	314.288	9044073142880
5/8-11	H3	0.480	0.360	0.5311	3.811	N/A	315.875	9044073158750
5/8-11	H5	0.480	0.360	0.5311	3.811	N/A	515.875	9044075158750
3/4-10	H3	0.590	0.442	0.6563	4.252	N/A	319.050	9044073190500
3/4-10	H5	0.590	0.442	0.6563	4.252	N/A	519.050	9044075190500
7/8-9	H5	0.697	0.523	0.7680	4.689	N/A	522.225	9044075222250
1-8	H5	0.800	0.600	0.8748	5.130	N/A	525.400	9044075254000





Series 4881



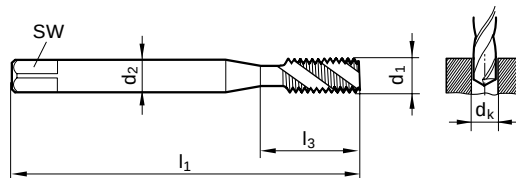
blind holes



ignator coated



external cooling



Standard ASME B94.9-1999

Standard ANSI

Tool Material HSS-E (Cobalt)

Flute RH 40° Spiral

Chamfer Form C (2 - 3)



Class of Fit 2B / 3B see H Limits
Cutting Direction right-hand

d1 - P	Thread Limits	d2	SW	dk	l1	l3	Order Code	EDP Number
inch		inch	inch	inch	inch	inch		
2-56	H2	0.141	0.110	0.0700	1.752	0.441	202.184	9048812021840
3-48	H2	0.141	0.110	0.0811	1.811	0.500	202.515	9048812025150
4-40	H2	0.141	0.110	0.0890	1.882	0.709	202.845	9048812028450
4-40	H3	0.141	0.110	0.0890	1.882	0.709	302.845	9048813028450
4-40	H5	0.141	0.110	0.0890	1.882	0.709	502.845	9048815028450
5-40	H2	0.141	0.110	0.1016	1.941	0.709	203.175	9048812031750
6-32	H3	0.141	0.110	0.1094	2.000	0.748	303.505	9048813035050
6-32	H5	0.141	0.110	0.1094	2.000	0.748	503.505	9048815035050
8-32	H3	0.168	0.131	0.1358	2.130	0.827	304.166	9048813041660
8-32	H5	0.168	0.131	0.1358	2.130	0.827	504.166	9048815041660
10-24	H3	0.194	0.152	0.1520	2.382	0.945	304.826	9048813048260
10-24	H5	0.194	0.152	0.1520	2.382	0.945	504.826	9048815048260
12-24	H3	0.220	0.165	0.1772	2.382	1.024	305.486	9048813054860
1/4-20	H3	0.255	0.191	0.2031	2.500	1.181	306.350	9048813063500
1/4-20	H5	0.255	0.191	0.2031	2.500	1.181	506.350	9048815063500
5/16-18	H3	0.318	0.238	0.2610	2.721	1.377	307.938	9048813079380
5/16-18	H5	0.318	0.238	0.2610	2.721	1.377	507.938	9048815079380
3/8-16	H3	0.381	0.286	0.3161	2.941	1.456	309.525	9048813095250
3/8-16	H5	0.381	0.286	0.3161	2.941	1.456	509.525	9048815095250
7/16-14	H3	0.323	0.242	0.3677	3.161	N/A	311.113	9048813111130
7/16-14	H5	0.323	0.242	0.3677	3.161	N/A	511.113	9048815111130
1/2-13	H3	0.367	0.275	0.4220	3.382	N/A	312.700	9048813127000
1/2-13	H5	0.367	0.275	0.4220	3.382	N/A	512.700	9048815127000
9/16-12	H3	0.429	0.322	0.4843	3.591	N/A	314.288	9048813142880
5/8-11	H3	0.480	0.360	0.5311	3.811	N/A	315.875	9048813158750
5/8-11	H5	0.480	0.360	0.5311	3.811	N/A	515.875	9048815158750
3/4-10	H3	0.590	0.442	0.6563	4.252	N/A	319.050	9048813190500
3/4-10	H5	0.590	0.442	0.6563	4.252	N/A	519.050	9048815190500
7/8-9	H5	0.697	0.523	0.7680	4.689	N/A	522.225	9048815222250
1-8	H5	0.800	0.600	0.8748	5.130	N/A	525.400	9048815254000





Series

4409



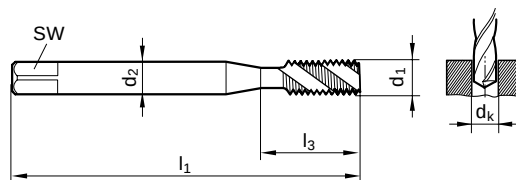
blind holes



steam oxide



external cooling



Standard

ASME B94.9-1999

Standard

ANSI

Tool Material

HSS-E (Cobalt)

Flute

RH 40° Spiral

Chamfer Form

C (2 - 3)



Class of Fit

2B / 3B see H Limits

Cutting Direction

right-hand

d1 - P inch	Thread Limits	d2 inch	SW inch	dk inch	l1 inch	l3 inch	Order Code	EDP Number
3-56	H2	0.141	0.110	0.0827	1.811	0.500	202.515	9044092025150
4-48	H2	0.141	0.110	0.0937	1.882	0.709	202.845	9044092028450
6-40	H2	0.141	0.110	0.1161	2.000	0.750	203.505	9044092035050
8-36	H2	0.168	0.131	0.1378	2.130	0.827	204.166	9044092041660
10-32	H3	0.194	0.152	0.1610	2.382	0.945	304.826	9044093048260
10-32	H5	0.194	0.152	0.1610	2.382	0.945	504.826	9044095048260
12-28	H3	0.220	0.165	0.1820	2.382	1.024	305.486	9044093054860
1/4-28	H3	0.255	0.191	0.2165	2.500	1.181	306.350	9044093063500
1/4-28	H4	0.255	0.191	0.2165	2.500	1.181	406.350	9044094063500
1/4-28	H5	0.255	0.191	0.2165	2.500	1.181	506.350	9044095063500
5/16-24	H3	0.318	0.238	0.2717	2.721	1.377	307.938	9044093079380
5/16-24	H5	0.318	0.238	0.2717	2.721	1.377	507.938	9044095079380
3/8-24	H3	0.381	0.286	0.3346	2.941	1.456	309.525	9044093095250
3/8-24	H5	0.381	0.286	0.3346	2.941	1.456	509.525	9044095095250
7/16-20	H3	0.323	0.242	0.3906	3.161	N/A	311.113	9044093111130
7/16-20	H5	0.323	0.242	0.3906	3.161	N/A	511.113	9044095111130
1/2-20	H3	0.367	0.275	0.4531	3.382	N/A	312.700	9044093127000
1/2-20	H5	0.367	0.275	0.4531	3.382	N/A	512.700	9044095127000
9/16-18	H3	0.429	0.322	0.5118	3.591	N/A	314.288	9044093142880
5/8-18	H3	0.480	0.360	0.5790	3.811	N/A	315.875	9044093158750
5/8-18	H5	0.480	0.360	0.5790	3.811	N/A	515.875	9044095158750
3/4-16	H3	0.590	0.442	0.6874	4.252	N/A	319.050	9044093190500
3/4-16	H5	0.590	0.442	0.6874	4.252	N/A	519.050	9044095190500
7/8-14	H4	0.697	0.523	0.8030	4.689	N/A	422.225	9044094222250
1-12	H4	0.800	0.600	0.9220	5.130	N/A	425.400	9044094254000




Series
4882

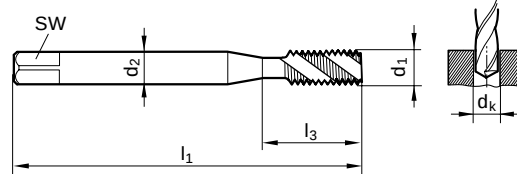

blind holes



Ignator coated



external cooling


Standard
ASME B94.9-1999
Standard
ANSI
Tool Material
HSS-E (Cobalt)
Flute
RH 40° Spiral
Chamfer Form
C (2 - 3)

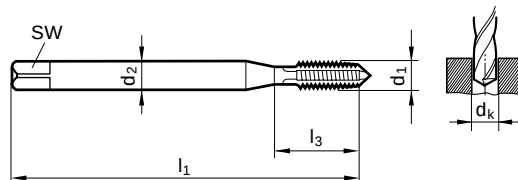
Class of Fit
2B / 3B see H Limits
Cutting Direction
right-hand

d1 - P inch	Thread Limits	d2 inch	SW inch	dk inch	l1 inch	l3 inch	Order Code	EDP Number
3-56	H2	0.141	0.110	0.0827	1.811	0.500	202.515	9048822025150
4-48	H2	0.141	0.110	0.0937	1.882	0.709	202.845	9048822028450
6-40	H2	0.141	0.110	0.1161	2.000	0.750	203.505	9048822035050
8-36	H2	0.168	0.131	0.1378	2.130	0.827	204.166	9048822041660
10-32	H3	0.194	0.152	0.1610	2.382	0.945	304.826	9048823048260
10-32	H5	0.194	0.152	0.1610	2.382	0.945	504.826	9048825048260
12-28	H3	0.220	0.165	0.1820	2.382	1.024	305.486	9048823054860
1/4-28	H3	0.255	0.191	0.2165	2.500	1.181	306.350	9048823063500
1/4-28	H4	0.255	0.191	0.2165	2.500	1.181	406.350	9048824063500
1/4-28	H5	0.255	0.191	0.2165	2.500	1.181	506.350	9048825063500
5/16-24	H3	0.318	0.238	0.2717	2.721	1.377	307.938	9048823079380
5/16-24	H5	0.318	0.238	0.2717	2.721	1.377	507.938	9048825079380
3/8-24	H3	0.381	0.286	0.3346	2.941	1.456	309.525	9048823095250
3/8-24	H5	0.381	0.286	0.3346	2.941	1.456	509.525	9048825095250
7/16-20	H3	0.323	0.242	0.3906	3.161	N/A	311.113	9048823111130
7/16-20	H5	0.323	0.242	0.3906	3.161	N/A	511.113	9048825111130
1/2-20	H3	0.367	0.275	0.4531	3.382	N/A	312.700	9048823127000
1/2-20	H5	0.367	0.275	0.4531	3.382	N/A	512.700	9048825127000
9/16-18	H3	0.429	0.322	0.5118	3.591	N/A	314.288	9048823142880
5/8-18	H3	0.480	0.360	0.5790	3.811	N/A	315.875	9048823158750
5/8-18	H5	0.480	0.360	0.5790	3.811	N/A	515.875	9048825158750
3/4-16	H3	0.590	0.442	0.6874	4.252	N/A	319.050	9048823190500
3/4-16	H5	0.590	0.442	0.6874	4.252	N/A	519.050	9048825190500
7/8-14	H4	0.697	0.523	0.8030	4.689	N/A	422.225	9048824222250
1-12	H4	0.800	0.600	0.9220	5.130	N/A	425.400	9048824254000





-  through holes
-  steam oxide
-  external cooling



Series 4415

Standard ASME B94.9-1999

Standard ANSI

Tool Material HSS-E (Cobalt)

Flute Spiral Point

Chamfer Form B (3.5 - 5)



Tolerance ISO 2 / 6H
Cutting Direction right-hand

d1 - P mm	Thread Limits	d2 inch	SW inch	dk mm	l1 inch	l3 inch	Order Code	EDP Number
M3 x 0.50	D3	0.141	0.110	2.500	1.941	0.709	3.000	9044150030000
M3.5 x 0.60	D4	0.141	0.110	2.900	2.000	0.748	3.500	9044150035000
M4 x 0.70	D4	0.168	0.131	3.300	2.130	0.827	4.000	9044150040000
M5 x 0.80	D4	0.194	0.152	4.200	2.382	0.945	5.000	9044150050000
M6 x 1.00	D5	0.255	0.191	5.000	2.500	1.181	6.000	9044150060000
M7 x 1.00	D5	0.318	0.238	6.000	2.721	1.377	7.000	9044150070000
M8 x 1.25	D5	0.318	0.238	6.800	2.721	1.377	8.000	9044150080000
M10 x 1.50	D6	0.381	0.286	8.500	2.941	1.457	10.000	9044150100000
M12 x 1.75	D6	0.367	0.275	10.300	3.382	N/A	12.000	9044150120000
M14 x 2.00	D7	0.429	0.322	12.000	3.591	N/A	14.000	9044150140000
M16 x 2.00	D7	0.480	0.360	14.000	3.811	N/A	16.000	9044150160000
M18 x 2.50	D7	0.542	0.406	15.500	4.032	N/A	18.000	9044150180000
M20 x 2.50	D8	0.652	0.489	17.500	4.469	N/A	20.000	9044150200000
M24 x 3.00	D8	0.760	0.570	21.000	4.910	N/A	24.000	9044150240000



Series 4887

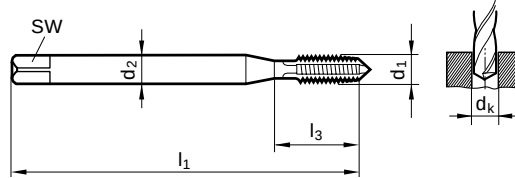


-  through holes
-  Ignator coated
-  external cooling

d1 - P mm	Thread Limits	d2 inch	SW inch	dk mm	l1 inch	l3 inch	Order Code	EDP Number
M3 x 0.50	D3	0.141	0.110	2.500	1.941	0.709	3.000	9048870030000
M3.5 x 0.60	D4	0.141	0.110	2.900	2.000	0.748	3.500	9048870035000
M4 x 0.70	D4	0.168	0.131	3.300	2.130	0.827	4.000	9048870040000
M5 x 0.80	D4	0.194	0.152	4.200	2.382	0.945	5.000	9048870050000
M6 x 1.00	D5	0.255	0.191	5.000	2.500	1.181	6.000	9048870060000
M7 x 1.00	D5	0.318	0.238	6.000	2.721	1.377	7.000	9048870070000
M8 x 1.25	D5	0.318	0.238	6.800	2.721	1.377	8.000	9048870080000
M10 x 1.50	D6	0.381	0.286	8.500	2.941	1.457	10.000	9048870100000
M12 x 1.75	D6	0.367	0.275	10.300	3.382	N/A	12.000	9048870120000
M14 x 2.00	D7	0.429	0.322	12.000	3.591	N/A	14.000	9048870140000
M16 x 2.00	D7	0.480	0.360	14.000	3.811	N/A	16.000	9048870160000
M18 x 2.50	D7	0.542	0.406	15.500	4.032	N/A	18.000	9048870180000
M20 x 2.50	D8	0.652	0.489	17.500	4.469	N/A	20.000	9048870200000
M24 x 3.00	D8	0.760	0.570	21.000	4.910	N/A	24.000	9048870240000


Series 4417

-  through holes
-  steam oxide
-  external cooling


Standard ASME B94.9-1999
Standard ANSI
Tool Material HSS-E (Cobalt)
Flute Spiral Point
Chamfer Form B (3.5 - 5)

Tolerance ISO 2 / 6H
Cutting Direction right-hand

d1 - P	Thread Limits	d2	SW	dk	l1	l3	Order Code	EDP Number
mm		inch	inch	mm	inch	inch		
M8 x 1.00	D5	0.318	0.238	7.000	2.721	1.377	8.005	9044170080050
M10 x 1.00	D5	0.381	0.286	9.000	2.941	1.377	10.005	9044170100050
M10 x 1.25	D5	0.381	0.286	8.800	2.941	1.535	10.006	9044170100060
M12 x 1.25	D5	0.367	0.275	10.800	3.382	N/A	12.006	9044170120060
M12 x 1.50	D6	0.367	0.275	10.500	3.382	N/A	12.007	9044170120070
M14 x 1.50	D6	0.429	0.322	12.500	3.591	N/A	14.007	9044170140070
M16 x 1.50	D6	0.480	0.360	14.500	3.811	N/A	16.007	9044170160070
M18 x 1.50	D6	0.542	0.406	16.500	4.032	N/A	18.007	9044170180070
M20 x 1.50	D6	0.652	0.489	18.500	4.469	N/A	20.007	9044170200070
M24 x 1.50	D6	0.760	0.570	22.500	4.910	N/A	24.007	9044170240070


Series 4888

-  through holes
-  Ignator coated
-  external cooling

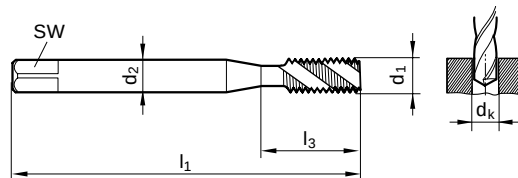
d1 - P	Thread Limits	d2	SW	dk	l1	l3	Order Code	EDP Number
mm		inch	inch	mm	inch	inch		
M8 x 1.00	D5	0.318	0.238	7.000	2.721	1.377	8.005	9048880080050
M10 x 1.00	D5	0.381	0.286	9.000	2.941	1.377	10.005	9048880100050
M10 x 1.25	D5	0.381	0.286	8.800	2.941	1.535	10.006	9048880100060
M12 x 1.25	D5	0.367	0.275	10.800	3.382	N/A	12.006	9048880120060
M12 x 1.50	D6	0.367	0.275	10.500	3.382	N/A	12.007	9048880120070
M14 x 1.50	D6	0.429	0.322	12.500	3.591	N/A	14.007	9048880140070
M16 x 1.50	D6	0.480	0.360	14.500	3.811	N/A	16.007	9048880160070
M18 x 1.50	D6	0.542	0.406	16.500	4.032	N/A	18.007	9048880180070
M20 x 1.50	D6	0.652	0.489	18.500	4.469	N/A	20.007	9048880200070
M24 x 1.50	D6	0.760	0.570	22.500	4.910	N/A	24.007	9048880240070





Series 4411

-  blind holes
-  steam oxide
-  external cooling



Standard ASME B94.9-1999

Standard ANSI

Tool Material HSS-E (Cobalt)

Flute RH 40° Spiral

Chamfer Form C (2-3)



Tolerance ISO 2 / 6H
Cutting Direction right-hand

d1 - P	Thread Limits	d2	SW	dk	l1	l3	Order Code	EDP Number
mm		inch	inch	mm	inch	inch		
M3 x 0.50	D3	0.141	0.110	2.500	1.941	0.709	3.000	9044110030000
M3.5 x 0.60	D4	0.141	0.110	2.900	2.000	0.748	3.500	9044110035000
M4 x 0.70	D4	0.168	0.131	3.300	2.130	0.827	4.000	9044110040000
M5 x 0.80	D4	0.194	0.152	4.200	2.382	0.945	5.000	9044110050000
M6 x 1.00	D5	0.255	0.191	5.000	2.500	1.181	6.000	9044110060000
M7 x 1.00	D5	0.318	0.238	6.000	2.721	1.377	7.000	9044110070000
M8 x 1.25	D5	0.318	0.238	6.800	2.721	1.377	8.000	9044110080000
M10 x 1.50	D6	0.381	0.286	8.500	2.941	1.457	10.000	9044110100000
M12 x 1.75	D6	0.367	0.275	10.300	3.382	N/A	12.000	9044110120000
M14 x 2.00	D7	0.429	0.322	12.000	3.591	N/A	14.000	9044110140000
M16 x 2.00	D7	0.480	0.360	14.000	3.811	N/A	16.000	9044110160000
M18 x 2.50	D7	0.542	0.406	15.500	4.032	N/A	18.000	9044110180000
M20 x 2.50	D8	0.652	0.489	17.500	4.469	N/A	20.000	9044110200000
M24 x 3.00	D8	0.760	0.570	21.000	4.910	N/A	24.000	9044110240000



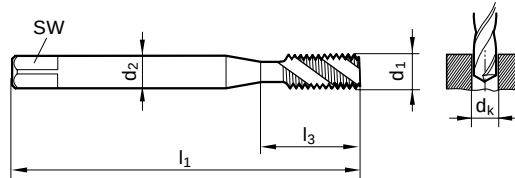
Series 4883

-  blind holes
-  Ignator coated
-  external cooling

d1 - P	Thread Limits	d2	SW	dk	l1	l3	Order Code	EDP Number
mm		inch	inch	mm	inch	inch		
M3 x 0.50	D3	0.141	0.110	2.500	1.941	0.709	3.000	9048830030000
M3.5 x 0.60	D4	0.141	0.110	2.900	2.000	0.748	3.500	9048830035000
M4 x 0.70	D4	0.168	0.131	3.300	2.130	0.827	4.000	9048830040000
M5 x 0.80	D4	0.194	0.152	4.200	2.382	0.945	5.000	9048830050000
M6 x 1.00	D5	0.255	0.191	5.000	2.500	1.181	6.000	9048830060000
M7 x 1.00	D5	0.318	0.238	6.000	2.721	1.377	7.000	9048830070000
M8 x 1.25	D5	0.318	0.238	6.800	2.721	1.377	8.000	9048830080000
M10 x 1.50	D6	0.381	0.286	8.500	2.941	1.457	10.000	9048830100000
M12 x 1.75	D6	0.367	0.275	10.300	3.382	N/A	12.000	9048830120000
M14 x 2.00	D7	0.429	0.322	12.000	3.591	N/A	14.000	9048830140000
M16 x 2.00	D7	0.480	0.360	14.000	3.811	N/A	16.000	9048830160000
M18 x 2.50	D7	0.542	0.406	15.500	4.032	N/A	18.000	9048830180000
M20 x 2.50	D8	0.652	0.489	17.500	4.469	N/A	20.000	9048830200000
M24 x 3.00	D8	0.760	0.570	21.000	4.910	N/A	24.000	9048830240000


Series 4413

-  blind holes
-  steam oxide
-  external cooling


Standard ASME B94.9-1999
Standard ANSI
Tool Material HSS-E (Cobalt)
Flute RH 40° Spiral
Chamfer Form C (2-3)

Tolerance ISO 2 / 6H
Cutting Direction right-hand

d1 - P	Thread Limits	d2	SW	dk	l1	l3	Order Code	EDP Number
mm		inch	inch	mm	inch	inch		
M8 x 1.00	D5	0.318	0.238	7.000	2.721	1.377	8.005	9044130080050
M10 x 1.00	D5	0.381	0.286	9.000	2.941	1.377	10.005	9044130100050
M10 x 1.25	D5	0.381	0.286	8.800	2.941	1.535	10.006	9044130100060
M12 x 1.25	D5	0.367	0.275	10.800	3.382	N/A	12.006	9044130120060
M12 x 1.50	D6	0.367	0.275	10.500	3.382	N/A	12.007	9044130120070
M14 x 1.50	D6	0.429	0.322	12.500	3.591	N/A	14.007	9044130140070
M16 x 1.50	D6	0.480	0.360	14.500	3.811	N/A	16.007	9044130160070
M18 x 1.50	D6	0.542	0.406	16.500	4.032	N/A	18.007	9044130180070
M20 x 1.50	D6	0.652	0.489	18.500	4.469	N/A	20.007	9044130200070
M24 x 1.50	D6	0.760	0.570	22.500	4.910	N/A	24.007	9044130240070


Series 4884

-  blind holes
-  Ignator coated
-  external cooling

d1 - P	Thread Limits	d2	SW	dk	l1	l3	Order Code	EDP Number
mm		inch	inch	mm	inch	inch		
M8 x 1.00	D5	0.318	0.238	7.000	2.721	1.377	8.005	9048840080050
M10 x 1.00	D5	0.381	0.286	9.000	2.941	1.377	10.005	9048840100050
M10 x 1.25	D5	0.381	0.286	8.800	2.941	1.535	10.006	9048840100060
M12 x 1.25	D5	0.367	0.275	10.800	3.382	N/A	12.006	9048840120060
M12 x 1.50	D6	0.367	0.275	10.500	3.382	N/A	12.007	9048840120070
M14 x 1.50	D6	0.429	0.322	12.500	3.591	N/A	14.007	9048840140070
M16 x 1.50	D6	0.480	0.360	14.500	3.811	N/A	16.007	9048840160070
M18 x 1.50	D6	0.542	0.406	16.500	4.032	N/A	18.007	9048840180070
M20 x 1.50	D6	0.652	0.489	18.500	4.469	N/A	20.007	9048840200070
M24 x 1.50	D6	0.760	0.570	22.500	4.910	N/A	24.007	9048840240070



Pionex

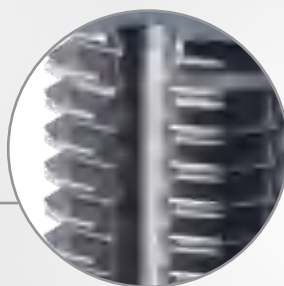


- higher cutting rates
- longer tool life
- fewer tool changes

NEW GENERATION THREADING TOOLS FROM **GUHRING**

PionexFlutelessTAP

A special surface finish treatment in combination with the TiCN-coating **ensures increased wear-resistance.**



Based on a geometric modification, the contact surface between tool and workpiece have been optimized. **This reduces torque by up to 30 %.**

Increased wear-resistance thanks to the application of a new powdered metal substrate.

Due to the h6 shank tolerance this new fluteless tap family can be applied in all standard clamping chucks.

New lubricating groove geometry

Thanks to the optimized lubricating grooves the **lubricating effect has been clearly improved in the forming lead area.**



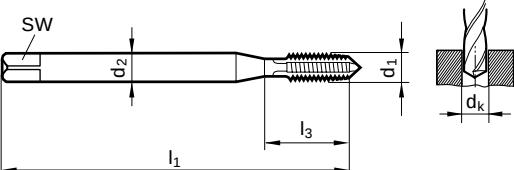


Series **5733**

 through holes

 steam oxide

 external cooling



Standard **DIN 2184-1**

Standard **DIN 371**

Tool Material **HSS-E (Cobalt)**

Flute **Spiral Point**

Chamfer Form **B (3.5 - 5)**

Tolerance **ISO 2 / 6H**

Cutting Direction **right-hand**

d1 X P mm	Thread Limits	d2 mm	SW mm	dk mm	l1 mm	l3 mm	Order Code	EDP Number
M3 X 0.50	D3	3.500	2.700	2.500	56.000	18.000	3.000	9057330030000
M4 X 0.70	D4	4.500	3.400	3.300	63.000	21.000	4.000	9057330040000
M5 X 0.80	D4	6.000	4.900	4.200	70.000	25.000	5.000	9057330050000
M6 X 1.00	D5	6.000	4.900	5.000	80.000	30.000	6.000	9057330060000
M8 X 1.25	D5	8.000	6.200	6.800	90.000	35.000	8.000	9057330080000
M10 X 1.50	D5	10.000	8.000	8.500	100.000	39.000	10.000	9057330100000

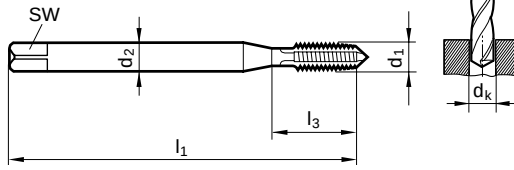


Series **5716**

 through holes

 steam oxide

 external cooling



Standard **DIN 2184-1**

Standard **DIN 376**

Tool Material **HSS-E (Cobalt)**

Flute **Spiral Point**

Chamfer Form **B (3.5 - 5)**

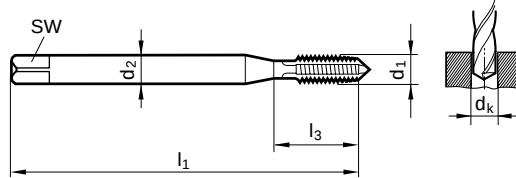
Tolerance **ISO 2 / 6H**

Cutting Direction **right-hand**

d1 X P mm	Thread Limits	d2 mm	SW mm	dk mm	l1 mm	l3 mm	Order Code	EDP Number
M12 X 1.75	D6	9.000	7.000	10.300	110.000	N/A	12.000	9057160120000
M14 X 2.00	D6	11.000	9.000	12.000	110.000	N/A	14.000	9057160140000
M16 X 2.00	D7	12.000	9.000	14.000	110.000	N/A	16.000	9057160160000
M20 X 2.50	D8	16.000	12.000	17.500	140.000	N/A	20.000	9057160200000



-  through holes
-  steam oxide
-  external cooling



Series	5723
Standard	DIN 2184-1
Standard	DIN 374
Tool Material	HSS-E (Cobalt)
Flute	Spiral Point
Chamfer Form	B (3.5 - 5)

Tolerance	ISO 2 / 6H
Cutting Direction	right-hand

d1 X P mm	Thread Limits	d2 mm	SW mm	dk mm	l1 mm	l3 mm	Order Code	EDP Number
M4 X 0.50	D4	2.800	2.100	3.500	63.000	N/A	4.003	9057230040030
M5 X 0.50	D4	3.500	2.700	4.500	70.000	N/A	5.003	9057230050030
M6 X 0.75	D4	4.500	3.400	5.300	80.000	N/A	6.004	9057230060040
M8 X 1.00	D5	6.000	4.900	7.000	90.000	N/A	8.005	9057230080050
M10 X 1.00	D5	7.000	5.500	9.000	90.000	N/A	10.005	9057230100050
M12 X 1.00	D5	9.000	7.000	11.000	100.000	N/A	12.005	9057230120050
M12 X 1.50	D6	9.000	7.000	10.500	100.000	N/A	12.007	9057230120070
M14 X 1.50	D5	11.000	9.000	12.500	100.000	N/A	14.007	9057230140070
M16 X 1.50	D5	12.000	9.000	14.500	100.000	N/A	16.007	9057230160070
M20 X 1.50	D7	16.000	12.000	18.500	125.000	N/A	20.007	9057230200070



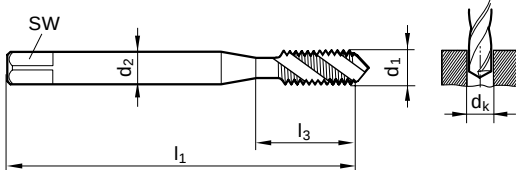


Series **5734**

 blind holes

 steam oxide

 external cooling



Standard **DIN 2184-1**

Standard **DIN 371**

Tool Material **HSS-E (Cobalt)**

Flute **RH 40° Spiral**

Chamfer Form **C (2-3)**



Tolerance **ISO 2 / 6H**

Cutting Direction **right-hand**

d1 X P mm	Thread Limits	d2 mm	SW mm	dk mm	l1 mm	l3 mm	Order Code	EDP Number
M3 X 0.50	D3	3.500	2.700	2.500	56.000	18.000	3.000	9057340030000
M4 X 0.70	D4	4.500	3.400	3.300	63.000	21.000	4.000	9057340040000
M5 X 0.80	D4	6.000	4.900	4.200	70.000	25.000	5.000	9057340050000
M6 X 1.00	D5	6.000	4.900	5.000	80.000	30.000	6.000	9057340060000
M8 X 1.25	D5	8.000	6.200	6.800	90.000	35.000	8.000	9057340080000
M10 X 1.50	D5	10.000	8.000	8.500	100.000	39.000	10.000	9057340100000

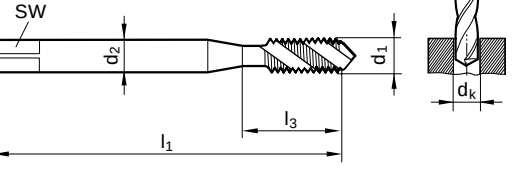


Series **5737**

 blind holes

 TiN coated

 external cooling



Standard **DIN 2184-1**

Standard **DIN 371**

Tool Material **HSS-E (Cobalt)**

Flute **RH 40° Spiral**

Chamfer Form **C (2-3)**



Tolerance **ISO 2 / 6H**

Cutting Direction **right-hand**

d1 X P mm	Thread Limits	d2 mm	SW mm	dk mm	l1 mm	l3 mm	Order Code	EDP Number
M2 X 0.40	D3	2.800	2.100	1.600	45.000	13.500	2.000	9057370020000
M3 X 0.50	D3	3.500	2.700	2.500	56.000	18.000	3.000	9057370030000
M4 X 0.70	D4	4.500	3.400	3.300	63.000	21.000	4.000	9057370040000
M5 X 0.80	D4	6.000	4.900	4.200	70.000	25.000	5.000	9057370050000
M6 X 1.00	D5	6.000	4.900	5.000	80.000	30.000	6.000	9057370060000
M8 X 1.25	D5	8.000	6.200	6.800	90.000	35.000	8.000	9057370080000
M10 X 1.50	D5	10.000	8.000	8.500	100.000	39.000	10.000	9057370100000


Series
5717

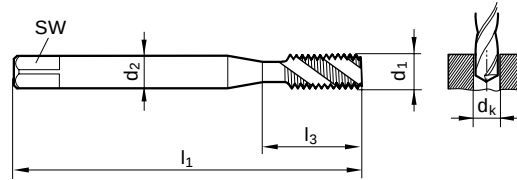

blind holes



steam oxide



external cooling


Standard
DIN 2184-1
Standard
DIN 376
Tool Material
HSS-E (Cobalt)
Flute
RH 40° Spiral
Chamfer Form
C (2-3)

Tolerance
ISO 2 / 6H
Cutting Direction
right-hand

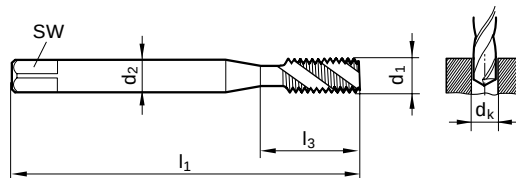
d1 X P mm	Thread Limits	d2 mm	SW mm	dk mm	l1 mm	l3 mm	Order Code	EDP Number
M3 X 0.50	D3	2.200	N/A	2.500	56.000	N/A	3.000	9057170030000
M4 X 0.70	D4	2.800	2.100	3.300	63.000	N/A	4.000	9057170040000
M5 X 0.80	D4	3.500	2.700	4.200	70.000	N/A	5.000	9057170050000
M6 X 1.00	D5	4.500	3.400	5.000	80.000	N/A	6.000	9057170060000
M8 X 1.25	D5	6.000	4.900	6.800	90.000	N/A	8.000	9057170080000
M10 X 1.50	D5	7.000	5.500	8.500	100.000	N/A	10.000	9057170100000
M12 X 1.75	D6	9.000	7.000	10.300	110.000	N/A	12.000	9057170120000
M16 X 2.00	D7	12.000	9.000	14.000	110.000	N/A	16.000	9057170160000
M20 X 2.50	D7	16.000	12.000	17.500	140.000	N/A	20.000	9057170200000





Series 5724

-  blind holes
-  steam oxide
-  external cooling



Standard DIN 2184-1
Standard DIN 374
Tool Material HSS-E (Cobalt)
Flute RH 40° Spiral
Chamfer Form C (2-3)



Tolerance ISO 2 / 6H
Cutting Direction right-hand

d1 X P mm	Thread Limits	d2 mm	SW mm	dk mm	l1 mm	l3 mm	Order Code	EDP Number
M4 X 0.50	D4	2.800	2.100	3.500	63.000	N/A	4.003	9057240040030
M5 X 0.50	D4	3.500	2.700	4.500	70.000	N/A	5.003	9057240050030
M6 X 0.75	D4	4.500	3.400	5.300	80.000	N/A	6.004	9057240060040
M8 X 1.00	D5	6.000	4.900	7.000	90.000	N/A	8.005	9057240080050
M10 X 1.00	D5	7.000	5.500	9.000	90.000	N/A	10.005	9057240100050
M10 X 1.25	D5	7.000	5.500	8.800	100.000	N/A	10.006	9057240100060
M12 X 1.00	D5	9.000	7.000	11.000	100.000	N/A	12.005	9057240120050
M12 X 1.25	D5	9.000	7.000	10.800	100.000	N/A	12.006	9057240120060
M12 X 1.50	D5	9.000	7.000	10.500	100.000	N/A	12.007	9057240120070
M14 X 1.00	D5	11.000	9.000	13.000	100.000	N/A	14.005	9057240140050
M14 X 1.50	D5	11.000	9.000	12.500	100.000	N/A	14.007	9057240140070
M16 X 1.00	D5	12.000	9.000	15.000	100.000	N/A	16.005	9057240160050
M16 X 1.50	D5	12.000	9.000	14.500	100.000	N/A	16.007	9057240160070
M20 X 1.50	D7	16.000	12.000	18.500	125.000	N/A	20.007	9057240200070




Series
5721

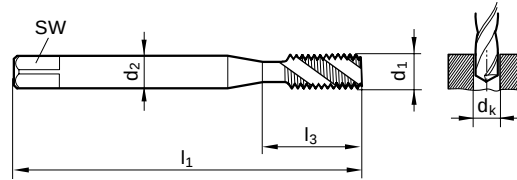

blind holes



steam oxide



external cooling


Standard
DIN 2184-1
Standard
DIN 371
Tool Material
HSS-E (Cobalt)
Flute
RH 40° Spiral
Chamfer Form
E (1.5 - 2)

Tolerance
ISO 2 / 6H
Cutting Direction
right-hand

d1 X P mm	Thread Limits	d2 mm	SW mm	dk mm	l1 mm	l3 mm	Order Code	EDP Number
M3 X 0.50	D3	3.500	2.700	2.500	56.000	18.000	3.000	9057210030000
M4 X 0.70	D4	4.500	3.400	3.300	63.000	21.000	4.000	9057210040000
M5 X 0.80	D4	6.000	4.900	4.200	70.000	25.000	5.000	9057210050000
M6 X 1.00	D5	6.000	4.900	5.000	80.000	30.000	6.000	9057210060000
M8 X 1.25	D5	8.000	6.200	6.800	90.000	35.000	8.000	9057210080000
M10 X 1.50	D5	10.000	8.000	8.500	100.000	39.000	10.000	9057210100000

FORM E





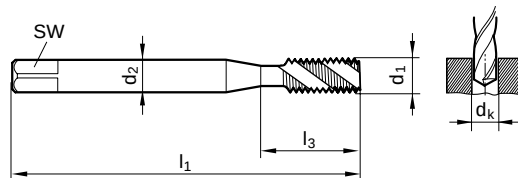
blind holes



TiN coated



external cooling



Series

5738

Standard

DIN 2184-1

Standard

DIN 376

Tool Material

HSS-E (Cobalt)

Flute

RH 40° Spiral

Chamfer Form

C (2-3)



Tolerance

6HX

Cutting Direction

right-hand

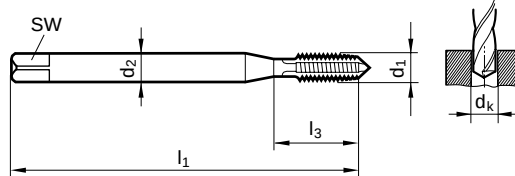
d1 X P mm	Thread Limits	d2 mm	SW mm	dk mm	l1 mm	l3 mm	Order Code	EDP Number
M3 X 0.50	D4	2.200	N/A	2.500	56.000	N/A	3.000	9057380030000
M4 X 0.70	D5	2.800	2.100	3.300	63.000	N/A	4.000	9057380040000
M5 X 0.80	D5	3.500	2.700	4.200	70.000	N/A	5.000	9057380050000
M6 X 1.00	D6	4.500	3.400	5.000	80.000	N/A	6.000	9057380060000
M8 X 1.25	D6	6.000	4.900	6.800	90.000	N/A	8.000	9057380080000
M10 X 1.50	D7	7.000	5.500	8.500	100.000	N/A	10.000	9057380100000
M12 X 1.75	D8	9.000	7.000	10.300	110.000	N/A	12.000	9057380120000
M14 X 2.00	D9	11.000	9.000	12.000	110.000	N/A	14.000	9057380140000
M16 X 2.00	D9	12.000	9.000	14.000	110.000	N/A	16.000	9057380160000
M20 X 2.50	D9	16.000	12.000	17.500	140.000	N/A	20.000	9057380200000
M24 X 3.00	D11	18.000	14.500	21.000	160.000	N/A	24.000	9057380240000

**TOLERANCE
6HX**




Series 5719

-  through holes
-  steam oxide
-  external cooling



Standard DIN 2184-1
Standard DIN 371
Tool Material HSS-E (Cobalt)
Flute Spiral Point
Chamfer Form B (3.5 - 5)

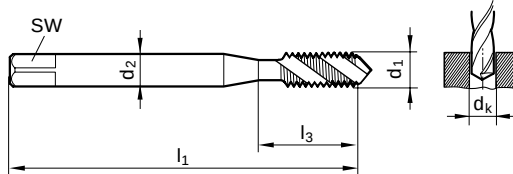
Tolerance ISO 3 / 6G
Cutting Direction right-hand

d1 X P mm	Thread Limits	d2 mm	SW mm	dk mm	l1 mm	l3 mm	Order Code	EDP Number
M3 X 0.50	D4	3.500	2.700	2.500	56.000	18.000	3.000	9057190030000
M4 X 0.70	D6	4.500	3.400	3.300	63.000	21.000	4.000	9057190040000
M5 X 0.80	D6	6.000	4.900	4.200	70.000	25.000	5.000	9057190050000
M6 X 1.00	D6	6.000	4.900	5.000	80.000	30.000	6.000	9057190060000
M8 X 1.25	D6	8.000	6.200	6.800	90.000	35.000	8.000	9057190080000
M10 X 1.50	D8	10.000	8.000	8.500	100.000	39.000	10.000	9057190100000

TOLERANCE
ISO 3/6G


Series 5720

-  blind holes
-  steam oxide
-  external cooling



Standard DIN 2184-1
Standard DIN 371
Tool Material HSS-E (Cobalt)
Flute RH 40° Spiral
Chamfer Form C (2-3)

Tolerance ISO 3 / 6G
Cutting Direction right-hand

d1 X P mm	Thread Limits	d2 mm	SW mm	dk mm	l1 mm	l3 mm	Order Code	EDP Number
M3 X 0.50	D4	3.500	2.700	2.500	56.000	18.000	3.000	9057200030000
M4 X 0.70	D6	4.500	3.400	3.300	63.000	21.000	4.000	9057200040000
M5 X 0.80	D6	6.000	4.900	4.200	70.000	25.000	5.000	9057200050000
M6 X 1.00	D7	6.000	4.900	5.000	80.000	30.000	6.000	9057200060000
M8 X 1.25	D7	8.000	6.200	6.800	90.000	35.000	8.000	9057200080000
M10 X 1.50	D8	10.000	8.000	8.500	100.000	39.000	10.000	9057200100000



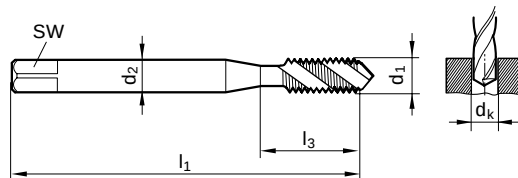
blind holes



TiN coated



external cooling



Series

5718

Standard

DIN 2184-1

Standard

**Guhring
standard**

Tool Material

HSS-E (Cobalt)

Flute

RH 40° Spiral

Chamfer Form

C (2-3)



Tolerance

6HX

Cutting Direction

right-hand

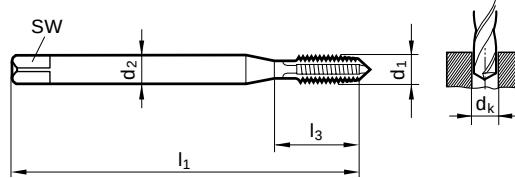
d1 X P mm	Thread Limits	d2 mm	SW mm	dk mm	l1 mm	l3 mm	Order Code	EDP Number
M3 X 0.50	D4	3.500	2.700	2.500	112.000	18.000	3.000	9057180030000
M4 X 0.70	D5	2.800	2.100	3.300	112.000	77.000	4.000	9057180040000
M5 X 0.80	D5	3.500	2.700	4.200	125.000	90.000	5.000	9057180050000
M6 X 1.00	D6	4.500	3.400	5.000	125.000	90.000	6.000	9057180060000
M8 X 1.25	D6	6.000	4.900	6.800	140.000	97.000	8.000	9057180080000
M10 X 1.50	D7	7.000	5.500	8.500	160.000	117.000	10.000	9057180100000
M12 X 1.75	D8	9.000	7.000	10.300	180.000	133.000	12.000	9057180120000
M16 X 2.00	D9	12.000	9.000	14.000	220.000	168.000	16.000	9057180160000
M20 X 2.50	D9	16.000	12.000	17.500	280.000	225.000	20.000	9057180200000

**EXTRA
LENGTH TAP**





-  through holes
-  TiN coated
-  external cooling



Series	5736
Standard	DIN 2184-1
Standard	DIN 371
Tool Material	HSS-E-PM (Cobalt)
Flute	Spiral Point
Chamfer Form	B (3.5 - 5)

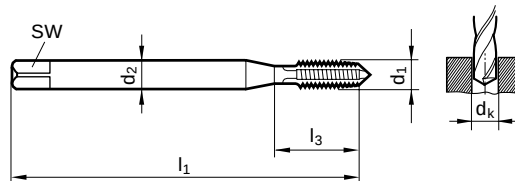
Tolerance	ISO 2 / 6H
Cutting Direction	right-hand

d1 X P mm	Thread Limits	d2 mm	SW mm	dk mm	l1 mm	l3 mm	Order Code	EDP Number
M2 X 0.40	D3	2.800	2.100	1.600	45.000	13.500	2.000	9057360020000
M3 X 0.50	D3	3.500	2.700	2.500	56.000	18.000	3.000	9057360030000
M4 X 0.70	D4	4.500	3.400	3.300	63.000	21.000	4.000	9057360040000
M5 X 0.80	D4	6.000	4.900	4.200	70.000	25.000	5.000	9057360050000
M6 X 1.00	D5	6.000	4.900	5.000	80.000	30.000	6.000	9057360060000
M8 X 1.25	D5	8.000	6.200	6.800	90.000	35.000	8.000	9057360080000
M10 X 1.50	D5	10.000	8.000	8.500	100.000	39.000	10.000	9057360100000

HSS-E-PM + TiN FOR
MAXIMUM TOOL LIFE



-  through holes
-  TiN coated
-  external cooling



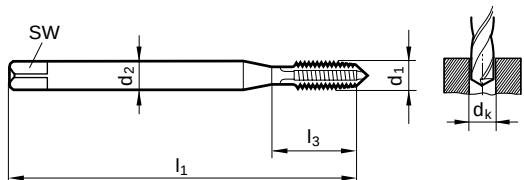
Series	5736
Standard	DIN 2184-1
Standard	DIN 376
Tool Material	HSS-E-PM (Cobalt)
Flute	Spiral Point
Chamfer Form	B (3.5 - 5)

Tolerance	ISO 2 / 6H
Cutting Direction	right-hand

d1 X P mm	Thread Limits	d2 mm	SW mm	dk mm	l1 mm	l3 mm	Order Code	EDP Number
M12 X 1.75	D6	9.000	7.000	10.300	110.000	N/A	12.000	9057360120000
M14 X 2.00	D6	11.000	9.000	12.000	110.000	N/A	14.000	9057360140000
M16 X 2.00	D7	12.000	9.000	14.000	110.000	N/A	16.000	9057360160000
M18 X 2.50	D7	14.000	11.000	15.500	125.000	N/A	18.000	9057360180000
M20 X 2.50	D7	16.000	12.000	17.500	140.000	N/A	20.000	9057360200000



-  through holes
-  TiN coated
-  external cooling



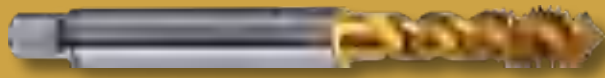
Series	5739
Standard	DIN 2184-1
Standard	DIN 374
Tool Material	HSS-E-PM (Cobalt)
Flute	Spiral Point
Chamfer Form	B (3.5 - 5)

Tolerance	ISO 2 / 6H
Cutting Direction	right-hand

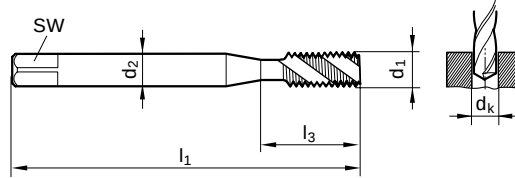
d1 X P mm	Thread Limits	d2 mm	SW mm	dk mm	l1 mm	l3 mm	Order Code	EDP Number
M8 X 1.00	D5	6.000	4.900	7.000	90.00	35.000	8.005	9057390080050
M10 X 1.00	D5	7.000	5.500	9.000	90.00	35.000	10.005	9057390100050
M10 X 1.25	D5	7.000	5.500	8.800	100.00	39.000	10.006	9057390100060
M12 X 1.00	D5	9.000	7.000	11.000	100.00	40.000	12.005	9057390120050
M12 X 1.25	D5	9.000	7.000	10.800	100.00	40.000	12.006	9057390120060
M12 X 1.50	D5	9.000	7.000	10.500	100.00	40.000	12.007	9057390120070
M14 X 1.25	D5	11.000	9.000	12.800	100.00	40.000	14.006	9057390140060
M14 X 1.50	D5	11.000	9.000	12.500	100.00	40.000	14.007	9057390140070
M16 X 1.50	D5	12.000	9.000	14.500	100.00	44.000	16.007	9057390160070
M18 X 1.50	D5	14.000	11.000	16.500	110.00	44.000	18.007	9057390180070
M20 X 1.50	D7	16.000	12.000	18.500	125.00	44.000	20.007	9057390200070
M22 X 1.50	D7	18.000	14.500	20.500	125.00	44.000	22.007	9057390220070
M24 X 1.50	D7	18.000	14.500	22.500	140.00	48.000	24.007	9057390240070
M24 X 2.00	D7	18.000	14.500	22.000	140.00	48.000	24.008	9057390240080



**HSS-E-PM
+TiN FOR
MAXIMUM
TOOL LIFE**


Series 5722

-  blind holes
-  TiN coated
-  external cooling



Standard DIN 2184-1
Standard DIN 371
Tool Material HSS-E-PM (Cobalt)
Flute RH 50° Spiral
Chamfer Form C (2-3)

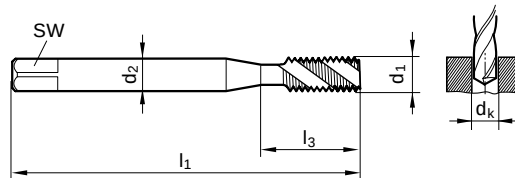
Tolerance ISO 2 / 6H
Cutting Direction right-hand

d1 X P mm	Thread Limits	d2 mm	SW mm	dk mm	l1 mm	l3 mm	Order Code	EDP Number
M3 X 0.50	D3	3.500	2.700	2.500	56.000	18.000	3.000	9057220030000
M4 X 0.70	D4	4.500	3.400	3.300	63.000	21.000	4.000	9057220040000
M5 X 0.80	D4	6.000	4.900	4.200	70.000	25.000	5.000	9057220050000
M6 X 1.00	D5	6.000	4.900	5.000	80.000	30.000	6.000	9057220060000
M8 X 1.25	D5	8.000	6.200	6.800	90.000	35.000	8.000	9057220080000
M10 X 1.50	D5	10.000	8.000	8.500	100.000	39.000	10.000	9057220100000

HSS-E-PM + TiN FOR
 MAXIMUM TOOL LIFE
 50° HELIX


Series 5722

-  blind holes
-  TiN coated
-  external cooling



Standard DIN 2184-1
Standard DIN 376
Tool Material HSS-E-PM (Cobalt)
Flute RH 50° Spiral
Chamfer Form C (2-3)

Tolerance ISO 2 / 6H
Cutting Direction right-hand

d1 X P mm	Thread Limits	d2 mm	SW mm	dk mm	l1 mm	l3 mm	Order Code	EDP Number
M12 X 1.75	D6	9.000	7.000	10.300	110.000	49.000	12.000	9057220120000
M14 X 2.00	D6	11.000	9.000	12.000	110.000	53.000	14.000	9057220140000
M16 X 2.00	D7	12.000	9.000	14.000	110.000	54.000	16.000	9057220160000
M20 X 2.50	D7	16.000	12.000	17.500	140.000	62.000	20.000	9057220200000





Series 5740



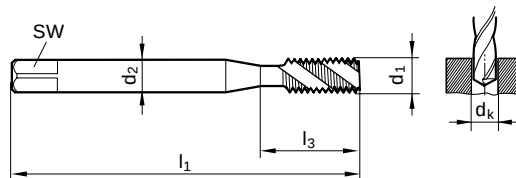
blind holes



TiN coated



external cooling



Standard DIN 2184-1

Standard DIN 374

Tool Material HSS-E-PM (Cobalt)

Flute RH 40° Spiral

Chamfer Form C (2-3)



Tolerance ISO 2 / 6H
Cutting Direction right-hand

d1 X P mm	Thread Limits	d2 mm	SW mm	dk mm	l1 mm	l3 mm	Order Code	EDP Number
M8 X 1.00	D5	6.000	4.900	7.000	90.000	35.000	8.005	9057400080050
M10 X 1.00	D5	7.000	5.500	9.000	90.000	35.000	10.005	9057400100050
M10 X 1.25	D5	7.000	5.500	8.800	100.000	39.000	10.006	9057400100060
M12 X 1.00	D5	9.000	7.000	11.000	100.000	40.000	12.005	9057400120050
M12 X 1.25	D5	9.000	7.000	10.800	100.000	40.000	12.006	9057400120060
M12 X 1.50	D6	9.000	7.000	10.500	100.000	40.000	12.007	9057400120070
M14 X 1.25	D5	11.000	9.000	12.800	100.000	40.000	14.006	9057400140060
M14 X 1.50	D5	11.000	9.000	12.500	100.000	40.000	14.007	9057400140070
M16 X 1.50	D5	12.000	9.000	14.500	100.000	44.000	16.007	9057400160070
M18 X 1.50	D5	14.000	11.000	16.500	110.000	44.000	18.007	9057400180070
M20 X 1.50	D7	16.000	12.000	18.500	125.000	44.000	20.007	9057400200070
M22 X 1.50	D7	18.000	14.500	20.500	125.000	44.000	22.007	9057400220070
M24 X 1.50	D7	18.000	14.500	22.500	140.000	48.000	24.007	9057400240070
M24 X 2.00	D7	18.000	14.500	22.000	140.000	48.000	24.008	9057400240080

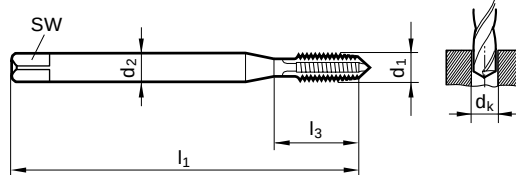


**HSS-E-PM
+TiN FOR
MAXIMUM
TOOL LIFE**



Series 5731

-  through holes
-  steam oxide
-  external cooling



Standard DIN 2184-1
Standard DIN 5156
Tool Material HSS-E (Cobalt)
Flute Spiral Point
Chamfer Form B (3.5 - 5)

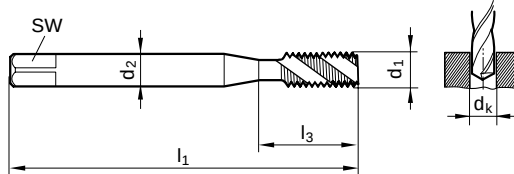
Tolerance
Cutting Direction right-hand

d1	P	d2	SW	dk	l1	l3	Order Code	EDP Number
	G/inch	mm	mm	mm	mm	mm		
G 1/8	28.00	7.00	5.50	8.800	90.00	35.00	9.728	9057310097280
G 1/4	19.00	11.00	9.00	11.800	100.00	40.00	13.157	9057310131570
G 3/8	19.00	12.00	9.00	15.250	100.00	44.00	16.662	9057310166620
G 1/2	14.00	16.00	12.00	19.000	125.00	44.00	20.955	9057310209550
G 3/4	14.00	20.00	16.00	24.500	140.00	53.00	26.441	9057310264882
G 1	11.00	25.00	20.00	30.750	160.00	56.00	33.249	9057310332490



Series 5732

-  blind holes
-  steam oxide
-  external cooling



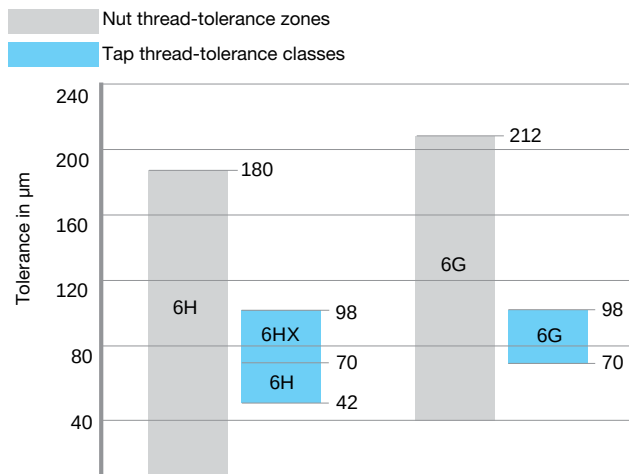
Standard DIN 2184-1
Standard DIN 5156
Tool Material HSS-E (Cobalt)
Flute RH 40° Spiral
Chamfer Form C (2-3)

Tolerance
Cutting Direction right-hand

d1	P	d2	SW	dk	l1	l3	Order Code	EDP Number
	G/inch	mm	mm	mm	mm	mm		
G 1/8	28.00	7.00	5.50	8.800	90.00	35.00	9.728	9057320097280
G 1/4	19.00	11.00	9.00	11.800	100.00	40.00	13.157	9057320131570
G 3/8	19.00	12.00	9.00	15.250	100.00	44.00	16.662	9057320166620
G 1/2	14.00	16.00	12.00	19.000	125.00	44.00	20.955	9057320209550
G 3/4	14.00	20.00	16.00	24.500	140.00	53.00	26.441	9057320264882
G 1	11.00	25.00	20.00	30.750	160.00	56.00	33.249	9057320332490

	Hardness		Cutting speed SFM	
	Rc	BRN	Steam Oxide	Hard Coatings
Structural steels	–	< 250	30 - 45	30 - 60
Free-cutting steels	–	< 250	30 - 60	30 - 70
Unalloyed case hardened steels	< 20	< 230	30 - 45	30 - 65
Unalloyed heat-treatable steels	< 24	< 250	30 - 45	30 - 65
Alloyed case hardened steels	< 30	< 285	25 - 35	25 - 30
Alloyed heat-treatable steels	< 30	< 285	20 - 30	20 - 45
Alloyed tool steels	< 30	< 285	20 - 30	20 - 45
High speed tool steels	< 30	< 290	20 - 30	20 - 45
Stainl./acid-resist. steels, sulphured	< 24	< 250	20 - 35	30 - 40
austenitic	< 24	< 250	20 - 35	30 - 40
martensitic	< 24	< 250	20 - 35	30 - 40
Aluminum and Al-alloys	–	< 120	45 - 60	45 - 85
Al wrought alloys	–	< 120	45 - 60	45 - 85
Al cast alloys ≤ 10 % Si	–	< 180	45 - 60	45 - 85
> 10 % Si	–	< 180	45 - 60	45 - 85
Cast iron	–	< 240	45 - 60	45 - 85
Spheroidal graphite iron	–	< 240	45 - 60	45 - 85
Malleable cast iron	–	< 300	30 - 50	45 - 85

Tolerance zone / tolerance class allocation



DIN EN 22857	
Application class of tap	
Class 2 ISO 2	Class 3 ISO 3
Tolerance zone of internal thread to be cut	
6H	6G
DIN 802 part 1 (withdrawn)	
Tolerance class of tap	
6H	6G

6H:

The tolerance zone 6H corresponds with the standard tolerance for taps to DIN EN 22857.

6HX:

The additional letter "X" (6HX) indicates taps produced with deviating tolerance to standard. These deviations are based upon the company standard. Taps produced to tolerance 6HX are, for example, selected for abrasive or tough materials.

6G:

The tolerance zone 6G corresponds with an over-size condition tolerance for taps to DIN EN 22857 and is applied for components that are, for example, surface treated.

Tap Tolerances and Approximate Limits

UNC/UNF Taps

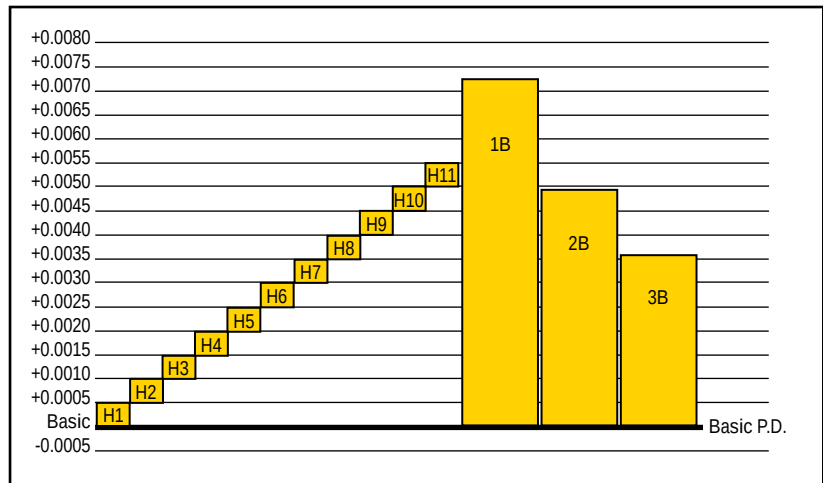
Screw size and fractional threads are typically specified as one of three classes of fit. Class 1B – for low precision, or threads that are typically used in areas where dirt and grime are a constant factor; Class 2B for general threading applications (by far the most common); and Class 3B for precision threads generally found in medical, aerospace and applicable automotive applications.

- As seen in the chart – these classes of fit do overlap even though they are progressive in accuracy. To further break down the accuracy of these threads we have “H” limits in increments of 0.0005”.

- Every size/pitch tap has a specific or given basic pitch diameter that is the basis for the “H” limits and the class of fit for that size.

- As you can see in the chart – the class of fit will give you minimum and maximum pitch diameter limits that need to be maintained during manufacturing (typically these are your thread gauge limits). By seeing the “H” limits illustrated you are better able to understand what area of the class of fit you are actually working within.

(This chart does not show a specific size tap – its purpose is to give a visual understanding of how the “H” limits work within the different classes of fit).



Metric Taps

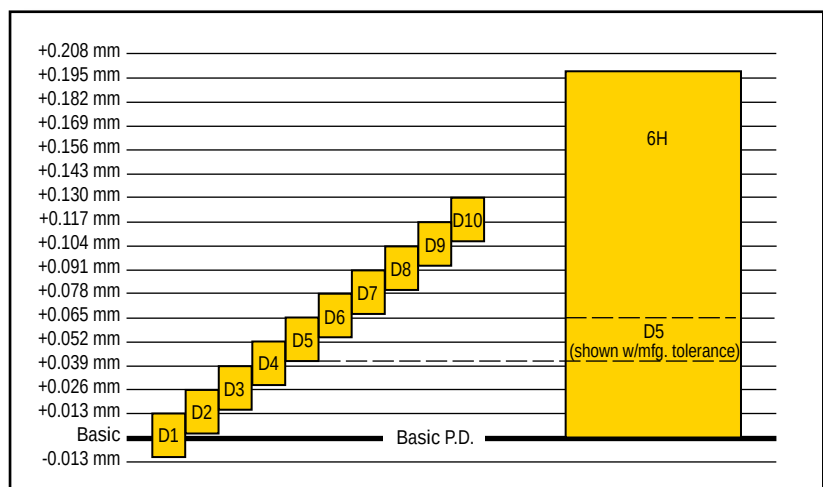
Metric threads have their own classifications for class of fit and the thread limits within them. When discussing UNC/UNF threads we worked with 3B, 2B and 1B Classes of fit and had “H” limits which helped define the accuracy within each class. To help understand Metric tolerancing it may be easiest to look at the similarities between both Metric and Fractional tolerancing.

- A metric 6H class of fit is quite similar to the fractional 2B class of fit - as is the metric 4H to the fractional 3B. We will focus on the 6H class of fit as this is our standard offering in metric sizes. (Please note that special classes of fit can be produced for any given application upon request).

- Again – the class of fit will give you minimum and maximum pitch diameter limits that need to be maintained during manufacturing. Within the class of fit – metric thread limits are further broken down into “D” limits. Each “D” limit equals 0.013mm (0.013mm = 0.00051” – extremely similar to that of fractional “H” limit tolerancing).

- As you look at this chart you can see how the “D” limits help control what area of the class of fit you are working within.

(This chart does not show a specific size tap – its purpose is to give a visual understanding of how the “D” limits work within a class of fit).



Chamfer forms, selection and application

Application recommendations

The type of tapped hole required determines the chamfer. Generally the tap geometry - i.e. form, number and direction of flutes, cutting angle, etc. - depend on the material to be machined and on the application. Basically, taps up to M16 for tapping ISO metric threads or for the engineering industry in general, have 3 flutes, and above this size 4 or more flutes.

Taps with left-hand flutes and taps with spiral points remove the chips in the cutting direction or direction of feed and are therefore especially suitable for tapping through holes. Taps with Spiral Points and long chamfer lead (form D) also give good results.

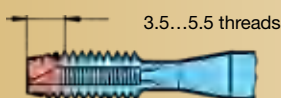
As far as blind holes are concerned we recommend taps with right-hand spiral flutes or Spiral Pointd taps with a short chamfer lead length. Tools with right-hand spiral flutes have the chip flow in the backward direction, i.e. up the flutes. The chamfer

lead length is designed in such a way so that during the return movement chips do not jam and are reliably sheared off.

The tapping of aluminium, grey cast iron and brass requires taps with a short chamfer lead length, regardless of whether through or blind holes are required. In these materials a long chamfer lead length would act as a core drill with chip breaker grooves and would only drill the tapping size hole to the major diameter instead of cutting a thread.

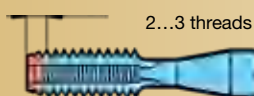
Spiral Pointd taps without spiral point are general purpose tools and have the disadvantage of not showing optimum results in particular materials. It's well worth the effort to take the trouble of ascertaining the most suitable tool for any given metal-cutting task.

Form B



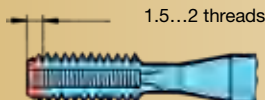
Medium, 3.5 - 5.5 threads, with spiral point, for all through holes in medium and long-chipping materials

Form C



Short, 2 - 3 threads for blind holes and generally for aluminium, grey cast iron and brass

Form E



Extremely short, 1.5-2 threads, for blind holes with minimal tap drill clearance



Steam oxide and high-performance coatings from Guhring

Steam Tempered (Oxide)

Steam tempered tools can prevent cold welding that can occur when machining low carbon steels, they are best suited for the ferrous materials.



TiN (Titanium Nitride) - Gold in Color

Has good lubricic properties and good adhesion for greater tool life. Excellent wear resistance, low coefficient of friction and improves thermal transfer of heat away from the tool.



Ignator (TiN-TiAlN Multi-layer) - Violet in Color

Harder than TiN with better wear- and heat-resistance. Performs well in a broad range of applications.



	Type	Identifying Color	Coating Process	Coating Temp.	Layer Structure	Thickness (µm)	Nano-hardness (HV 0.05)	Friction Coefficient (fetting)	Thermal Stability
TiN Titanium Nitride	Hard • Wear-resistant	Gold	PVD Physical Vapor Deposition	930° F 500° C	Monolayer	1.5 - 4.0	2400	0.50	1100° F 595° C
Ignator Multi-layer	Hard • Wear-resistant	Red Violet	PVD Physical Vapor Deposition	930° F 500° C	Multi-layer	1.5 - 5.0	3000-3300	0.50	1470° F 800° C

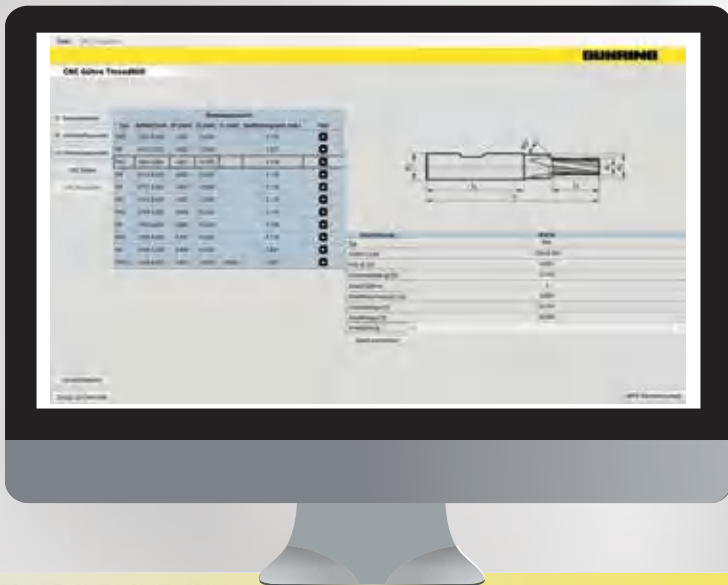


THREAD MILL PROGRAM GENERATOR



Complimentary programming software
for thread milling cutters and drill thread milling cutters

CNC Gühro ThreadMill



In order to make the machining with Gühring thread milling cutters even more user friendly, we have developed the intuitive “CNC Gühro Thread Mill” software.

“CNC Gühro Thread Mill” is available free-of-charge. Simply download it from our homepage www.guhring.com.

Five steps to the optimal CNC program

1. Specifying the thread data

Selection from all current thread standards

2. Selecting the material

You are always assigned the optimal parameters

3. Selecting the tool

Technical data, drawings, machining time and video simplify the selection

4. Recording the CNC data

Input of the desired milling strategy and the parameters

5. Receiving CNC program with code and data sheet

Programming data (Sinumerik, Heidenhain, Fanuc, Philips, Mazatrol or Hurco) are imported and recognized automatically

Series	Standard	Thread Type	Chamfer Lead	Flute Type	Blind / Through	Substrate	Finish	Page
4402	ANSI	UNC	B	Spiral Point		Cobalt	Oxide	6
4885	ANSI	UNC	B	Spiral Point		Cobalt	Ignator	7
4405	ANSI	UNF	B	Spiral Point		Cobalt	Oxide	8
4886	ANSI	UNF	B	Spiral Point		Cobalt	Ignator	9
4407	ANSI	UNC	C	40° Spiral		Cobalt	Oxide	10
4881	ANSI	UNC	C	40° Spiral		Cobalt	Ignator	11
4409	ANSI	UNF	C	40° Spiral		Cobalt	Oxide	12
4882	ANSI	UNF	C	40° Spiral		Cobalt	Ignator	13
4411	ANSI	M	C	40° Spiral		Cobalt	Oxide	16
4883	ANSI	M	C	40° Spiral		Cobalt	Ignator	16
4413	ANSI	MF	C	40° Spiral		Cobalt	Oxide	17
4884	ANSI	MF	C	40° Spiral		Cobalt	Ignator	17
4415	ANSI	M	B	Spiral Point		Cobalt	Oxide	14
4887	ANSI	M	B	Spiral Point		Cobalt	Ignator	14
4417	ANSI	MF	B	Spiral Point		Cobalt	Oxide	15
4888	ANSI	MF	B	Spiral Point		Cobalt	Ignator	15
5716	DIN 376	M	B	Spiral Point		Cobalt	Oxide	20
5717	DIN 376	M	C	40° Spiral		Cobalt	Oxide	23
5718	Guhning Standard	M	C	40° Spiral		Cobalt	TiN	28
5719	DIN 371	M	B	Spiral Point		Cobalt	Oxide	27
5720	DIN 371	M	C	40° Spiral		Cobalt	Oxide	27
5721	DIN 371	M	E	40° Spiral		Cobalt	Oxide	25
5722	DIN 371/376	M	C	50° Spiral		PM Cobalt	TiN	31
5723	DIN 374	MF	B	Spiral Point		Cobalt	Oxide	21
5724	DIN 374	MF	C	40° Spiral		Cobalt	Oxide	24
5731	DIN 5156	G	B	Spiral Point		Cobalt	Oxide	33
5732	DIN 5156	G	C	40° Spiral		Cobalt	Oxide	33
5733	DIN 371	M	B	Spiral Point		Cobalt	Oxide	20
5734	DIN 371	M	C	40° Spiral		Cobalt	Oxide	22
5736	DIN 371/376	M	B	Spiral Point		PM Cobalt	TiN	29
5737	DIN 371	M	C	40° Spiral		Cobalt	TiN	22
5738	DIN 376	M	C	40° Spiral		Cobalt	TiN	26
5739	DIN 374	MF	B	Spiral Point		PM Cobalt	TiN	30
5740	DIN 374	MF	C	40° Spiral		PM Cobalt	TiN	32





UNIVERSAL TAPS

MADE BY

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