



# WhizThrill

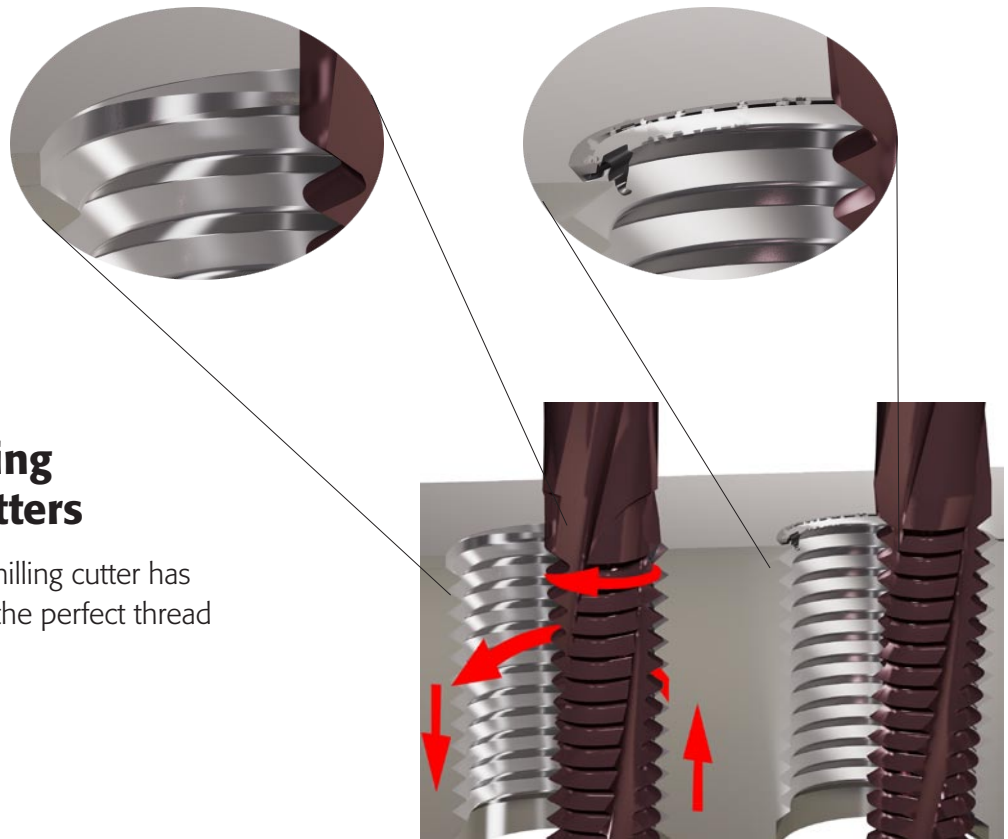
## Solid Carbide Thread mills

WhizCut will change the way thread mills are used today by introducing **WhizThrill**. The WhizThrill deburring thread mills take thread milling to the next level. Users of thread taps and thread mills have for years been battling problems of getting burrs when threading holes. This has resulted in an extra operation where a deburring tool has to be used resulting in increased production time and cost. A WhizThrill together with the WhizCut software does all of this in one single move giving a perfect result.

WhizThrills are produced with the best carbide and coating combination to be in forefront of technology both when it comes to tool design and material. We also offer a wide range of micro thread mills with extra tool strength.

## WhizThrill

## Conventional



### WhizThrill Deburring Thread Milling Cutters

The last tooth of the thread milling cutter has a deburring function making the perfect thread entry with no sharp burrs.

- Deburring function for a burr free thread entrance
- Gives a burr free thread entrance without chamfer
- Wide range of special thread types eg. NPT, NPTF and Whitworth
- Range from M1,8-M42, 0,4-4 mm pitch
- Coolant through available both straight and radial
- Micrograin Carbide
- Special TiAlCN PVD Coating for best surface finish and maximum tool life
- Close tolerances on thread profile
- Easy to use programming guide for most effective programming.
- Tapered endmill for NPT and NPTF

### Do it Easy with the WhizThrill Software

Thread Milling is not a difficult operation to do when one has the right support. For this reason WhizCut offers a program that will help you program the machine. The program also calculates the deburring automatically if the correct fitting thread mill is used. The WhizThrill aid is a very user friendly excel based program that recommends the programming for your CNC machine and is available in 18 different languages. The program is updated regularly, and can be ordered free of charge from the WhizCut homepage.

**WhizThrill**

Internal Thread Milling in Machining Center

Fanuc

M - Metric

Steel, Low Carbon, < 0.25% C, < 400 N/mm<sup>2</sup>

D = thread diameter (mm)

P = pitch (mm)

L = thread length (mm)

S = safety distance (mm)

N1650C40 3.0550 AC

d = cutter diameter (mm)

l = length of cutting edge (mm)

z = number of flutes

V = cutting speed (m/min)

Fz = feed/tooth (mm/tooth)

Number of passes, radial (max 3)

Number of passes, axial

N = spindle speed (rpm)

FD = feed at thread diameter (mm/min)

FD = feed in center of mill (mm/min)

T = time to mill the thread (seconds)

Please read before use!

**CNC program for Fanuc**

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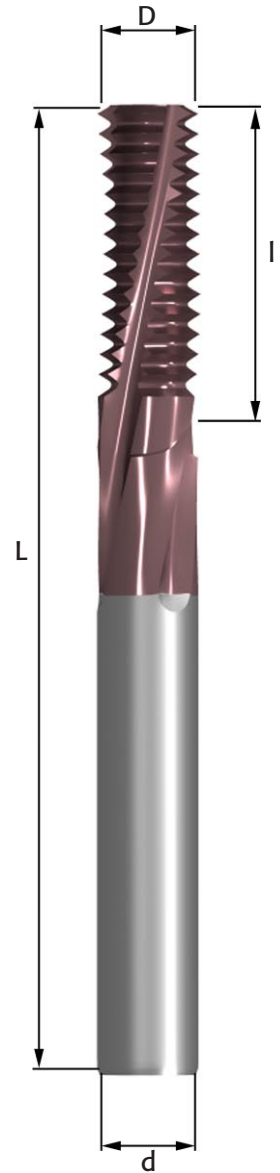
S3143 M3
G00 G91 Z-38.
G01 G41 X2. Y-2. F156
G03 X2. Y2. Z0.375 I0. J2.
G03 X0. Y0. Z3. I-4. J0.
G03 X-2. Y2. Z0.375 I-2. J0.
G01 G40 X-2. Y-2.
G00 Z34.25
                    
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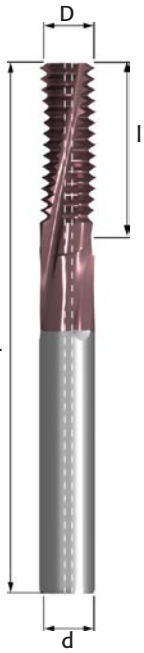
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Style NB | Metric

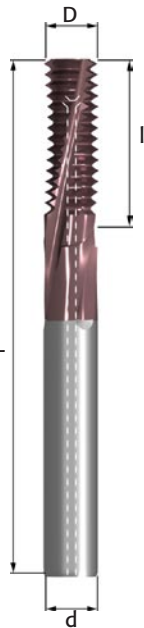
Pitch mm	M Coarse	M fine	Part Number	d mm	D mm	Cutting edges	l mm	L mm	Price Group
0,4	M2 (1,5xD)		NB04015C3 0.4ISO A9	4	1,5	3	3,4	50	T5
0,4	M2 (2xD)		NB04015C4 0.4ISO A9	4	1,5	3	4,6	50	T6
0,45	M2.2 (1,5xD)		NB04016C3 0.45ISO A9	4	1,6	3	3,82	50	T5
0,45	M2.2 (2xD)		NB04016C5 0.45ISO A9	4	1,6	3	5,17	50	T6
0,45	M2.5 (1,5xD)		NB04019C4 0.45ISO A9	4	1,9	3	4,27	50	T5
0,45	M2.5 (2xD)		NB04019C5 0.45ISO A9	4	1,9	3	5,62	50	T6
0,5	M3 (1,5xD)	≥ M4	NB04023C5 0.5ISO A9	4	2,3	3	5,25	50	T5
0,5	M3 (2xD)	≥ M4	NB04023C6 0.5ISO A9	4	2,3	3	6,75	50	T6
0,5	M3 (2,5xD)	≥ M4	NB04023C8 0.5ISO A9	4	2,3	3	8,25	50	T8
0,5	M3 (1,5xD)	≥ M4	NB06023C5 0.5ISO A9	6	2,3	3	5,25	63	T7
0,5	M3 (2xD)	≥ M4	NB06023C6 0.5ISO A9	6	2,3	3	6,75	63	T9
0,5	M3 (2,5xD)	≥ M4	NB06023C8 0.5ISO A9	6	2,3	3	8,25	63	T10
0,5		≥ M5	NB04038C10 0.5ISO A9	4	3,8	3	10,75	50	T6
0,5		≥ M5	NB06038C10 0.5ISO A9	6	3,8	3	10,75	63	T9
0,7	M4 (1,5xD)		NB0403C7 0.7ISO A9	4	3	3	7,35	50	T5
0,7	M4 (2xD)		NB0403C8 0.7ISO A9	4	3	3	8,75	50	T6
0,7	M4 (2,5xD)		NB0403C10 0.7ISO A9	4	3	3	10,85	50	T8
0,7	M4 (1,5xD)		NB0603C7 0.7ISO A9	6	3	3	7,35	63	T7
0,7	M4 (2xD)		NB0603C8 0.7ISO A9	6	3	3	8,75	63	T9
0,7	M4 (2,5xD)		NB0603C10 0.7ISO A9	6	3	3	10,85	63	T10
0,75		≥ M6	NB06045C10 0.75ISO A9	6	4,5	3	10,87	63	T7
0,75		≥ M6	NB06045C16 0.75ISO A9	6	4,5	3	16,87	63	T9
0,8	M5 (1,5xD)		NB04038C8 0.8ISO A9	4	3,8	3	8,4	50	T5
0,8	M5 (2xD)		NB04038C10 0.8ISO A9	4	3,8	3	10,8	50	T6
0,8	M5 (2,5xD)		NB04038C13 0.8ISO A9	4	3,8	3	13,2	50	T8
0,8	M5 (1,5xD)		NB06038C8 0.8ISO A9	6	3,8	3	8,4	63	T7
0,8	M5 (2xD)		NB06038C10 0.8ISO A9	6	3,8	3	10,8	63	T9
0,8	M5 (2,5xD)		NB06038C13 0.8ISO A9	6	3,8	3	13,2	63	T10
1	M6 (1,5xD)	≥ M8	NB06045C10 1.0ISO A9	6	4,5	3	10,5	63	T7
1	M6 (2xD)	≥ M8	NB06045C13 1.0ISO A9	6	4,5	3	13,5	63	T9
1	M6 (2,5xD)	≥ M8	NB06045C16 1.0ISO A9	6	4,5	3	16,5	63	T10
1	M6 (3xD)	≥ M8	NB06045C19 1.0ISO A9	6	4,5	3	19,5	63	T12
1		≥ M8	NB0606C13 1.0ISO A9	6	6	3	13,5	63	T7
1		≥ M10	NB0808D17 1.0ISO A9	8	8	4	17,5	63	T11
1		≥ M14	NB1212F21 1.0ISO A9	12	12	6	21,5	83	T18
1,25	M8 (1,5xD)	≥ M10	NB0606C14 1.25ISO A9	6	6	3	14,37	63	T7
1,25	M8 (2xD)	≥ M10	NB0606C18 1.25ISO A9	6	6	3	18,12	63	T9
1,25	M8 (2,5xD)	≥ M10	NB0606C21 1.25ISO A9	6	6	3	21,87	63	T10
1,25	M8 (3xD)	≥ M10	NB0606C25 1.25ISO A9	6	6	3	25,62	63	T12
1,5	M10 (1,5xD)	≥ M12	NB08075C17 1.5ISO A9	8	7,5	3	17,25	63	T11
1,5	M10 (2xD)	≥ M12	NB08075C21 1.5ISO A9	8	7,5	3	21,75	76	T13
1,5	M10 (2,5xD)	≥ M12	NB08075C27 1.5ISO A9	8	7,5	3	27,75	76	T14
1,5	M10 (3xD)	≥ M12	NB08075C32 1.5ISO A9	8	7,5	3	32,25	76	T16
1,5		≥ M14	NB1010D23 1.5ISO A9	10	10	4	23,25	76	T15
1,5		≥ M16	NB1212D29 1.5ISO A9	12	12	4	29,25	83	T18
1,5		≥ M20	NB1616F35 1.5ISO A9	16	16	6	35,25	100	T22
1,75	M12 (1,5xD)		NB0808C20 1.75ISO A9	8	8	3	20,12	76	T11
1,75	M12 (2xD)		NB0808C27 1.75ISO A9	8	8	3	27,12	100	T13
1,75	M12 (1,5xD)		NB1009C20 1.75ISO A9	10	9	3	20,12	76	T15
1,75	M12 (2xD)		NB1009C27 1.75ISO A9	10	9	3	27,12	100	T17
1,75	M12 (2,5xD)		NB1009C32 1.75ISO A9	10	9	3	32,37	100	T18
1,75	M12 (3xD)		NB1009C37 1.75ISO A9	10	9	3	37,62	100	T19
2	M14 (1,5xD)	≥ M18	NB1010C23 2.0ISO A9	10	10	3	23	76	T15
2	M14 (2xD)	≥ M18	NB1010C31 2.0ISO A9	10	10	3	31	100	T17
2	M14 (2,5xD)	≥ M18	NB1010C3 2.0ISO A9	10	10	3	37	100	T18
2	M16 (1,5xD)	≥ M18	NB1212D27 2.0ISO A9	12	12	4	27	83	T18
2	M16 (2xD)	≥ M18	NB1212D35 2.0ISO A9	12	12	4	35	100	T19
2	M16 (2,5xD)	≥ M18	NB1212D43 2.0ISO A9	12	12	4	43	100	T20
2	M16 (3xD)	≥ M18	NB1212C51 2.0ISO A9	12	12	3	51	100	T21
2		≥ M20	NB1616E39 2.0ISO A9	16	16	5	39	100	T22
2		≥ M24	NB2020F43 2.0ISO A9	20	20	6	43	100	T26
2		≥ M30	NB2525F57 2.0ISO A9	25	25	6	57	130	T29
2,5	M18 (1,5xD)		NB1212C31 2.5ISO A9	12	12	3	31,25	100	T19
2,5	M18 (2xD)		NB1212C38 2.5ISO A9	12	12	3	38,75	100	T20
2,5	M18 (2,5xD)		NB1212C48 2.5ISO A9	12	12	3	48,75	100	T21
2,5	M20 (1,5xD)		NB1414D33 2.5ISO A9	14	14	4	33,75	89	T20
2,5	M20 (2xD)		NB1414D43 2.5ISO A9	14	14	4	43,75	100	T21
2,5	M20 (2,5xD)		NB1615D53 2.5ISO A9	16	15	4	53,75	120	T23
2,5	M20 (3xD)		NB1615C63 2.5ISO A9	16	15	3	63,75	120	T24
3	M24 (1,5xD)	≥ M30	NB1616C40 3.0ISO A9	16	16	3	40,5	100	T22
3	M24 (2xD)	≥ M30	NB1616C52 3.0ISO A9	16	16	3	52,5	120	T23
3	M24 (2,5xD)	≥ M30	NB1818C64 3.0ISO A9	18	18	3	64,5	130	T25
3		≥ M30	NB2020D46 3.0ISO A9	20	20	4	46,5	100	T25
3		≥ M33	NB2525D61 3.0ISO A9	25	25	4	61,5	130	T29
3,5	M30 (1,5xD)		NB2020C50 3.5ISO A9	20	20	3	50,75	120	T26
3,5	M30 (2xD)		NB2020C64 3.5ISO A9	20	20	3	64,75	150	T27
3,5	M30 (2,5xD)		NB2020C78 3.5ISO A9	20	20	3	78,75	150	T28
4	M36 (1,5xD)	≥ M42	NB2525C58 4.0ISO A9	25	25	3	58	130	T29
4	M36 (2xD)	≥ M42	NB2525C78 4.0ISO A9	25	25	3	78	150	T30





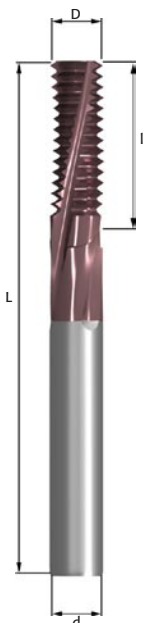
## Style NBK | Metric with Internal Coolant

Pitch mm	M Coarse	M fine	Part Number		d mm	D mm	Cutting edges	l mm	L mm	Price Group
1,25	M8 (1,5xD)	≥ M10	NBK0606C14	1.25ISO A9	6	6	3	14,37	63	T9
1,25	M8 (2xD)	≥ M10	NBK0606C18	1.25ISO A9	6	6	3	18,12	63	T10
1,25	M8 (2,5xD)	≥ M10	NBK0606C21	1.25ISO A9	6	6	3	21,87	63	T12
1,5	M10 (1,5xD)	≥ M12	NBK08075C17	1.5ISO A9	8	7,5	3	17,25	76	T13
1,5	M10 (2xD)	≥ M12	NBK08075C21	1.5ISO A9	8	7,5	3	21,75	76	T14
1,5	M10 (2,5xD)	≥ M12	NBK08075C27	1.5ISO A9	8	7,5	3	27,75	76	T16
1,5	M10 (3xD)	≥ M12	NBK08075C32	1.5ISO A9	8	7,5	3	32,25	76	T17
1,75	M12 (1,5xD)		NBK0808C20	1.75ISO A9	8	8	3	20,12	76	T13
1,75	M12 (2xD)		NBK0808C27	1.75ISO A9	8	8	3	27,12	76	T14
1,75	M12 (1,5xD)		NBK1009C20	1.75ISO A9	10	9	3	20,12	100	T17
1,75	M12 (2xD)		NBK1009C27	1.75ISO A9	10	9	3	27,12	100	T18
1,75	M12 (2,5xD)		NBK1009C32	1.75ISO A9	10	9	3	32,37	100	T19
1,75	M12 (3xD)		NBK1009C37	1.75ISO A9	10	9	3	37,62	100	T20
2	M14 (1,5xD)	≥ M18	NBK1010C23	2.0ISO A9	10	10	3	23	100	T17
2	M14 (2xD)	≥ M18	NBK1010C31	2.0ISO A9	10	10	3	31	100	T18
2	M16 (1,5xD)	≥ M18	NBK1212D27	2.0ISO A9	12	12	4	27	100	T19
2	M16 (2xD)	≥ M18	NBK1212D35	2.0ISO A9	12	12	4	35	100	T20
2	M16 (2,5xD)	≥ M18	NBK1212D43	2.0ISO A9	12	12	4	43	100	T21
2	M16 (3xD)	≥ M18	NBK1212C51	2.0ISO A9	12	12	3	51	100	T22
2,5	M20 (1,5xD)		NBK1414D33	2.5ISO A9	14	14	4	33,75	100	T21
2,5	M20 (2xD)		NBK1414D43	2.5ISO A9	14	14	4	43,75	100	T23
2,5	M20 (2,5xD)		NBK1615D53	2.5ISO A9	16	15	4	53,75	120	T24
3	M24 (1,5xD)	≥ M30	NBK1616C40	3.0ISO A9	16	16	3	40,5	120	T23
3	M24 (2xD)	≥ M30	NBK1616C52	3.0ISO A9	16	16	3	52,5	120	T24
3,5	M30 (1,5xD)		NBK2020C50	3.5ISO A9	20	20	3	50,75	150	T27
3,5	M30 (2xD)		NBK2020C64	3.5ISO A9	20	20	3	64,75	150	T28



## Style NBT | Metric with Radial Coolant

Pitch mm	M Coarse	M fine	Part Number		d mm	D mm	Cutting edges	l mm	L mm	Price Group
1,25	M8 (2,25xD)	≥ M10	NBT0606C18	1.25ISO A9	6	6	3	18,12	76	T12
1,5	M10 (2,25xD)	≥ M12	NBT08075C21	1.5ISO A9	8	7,5	3	21,75	76	T16
1,75	M12 (2,25xD)		NBT0808C27	1.75ISO A9	8	8	3	27,12	76	T16
1,75	M12 (2,25xD)		NBT1009C27	1.75ISO A9	10	9	3	27,12	100	T19
2	M14 (2,25xD)	≥ M18	NBT1010C31	2.0ISO A9	10	10	3	31	100	T19
2	M16 (2,25xD)	≥ M18	NBT1212D35	2.0ISO A9	12	12	4	35	100	T21



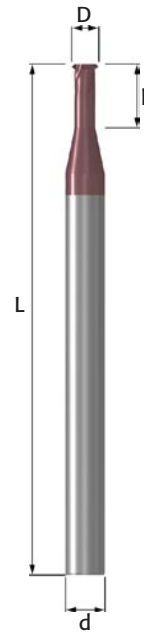
## Style E | Metric External

Pitch mm	Part Number		d mm	D mm	Cutting edges	l mm	L mm	Price Group
1	EB1010D20	1.0ISO A9	10	10	4	21,5	76	T18
1,5	EB1212D24	1.5ISO A9	12	12	4	26,25	83	T20
2	EB1616D32	2.0ISO A9	16	16	4	35	100	T24



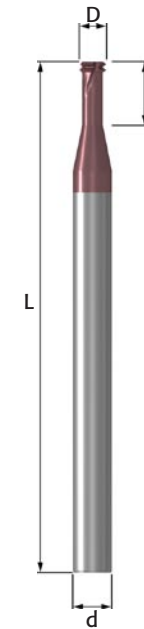
Style NS | Micro Partial Profile 60°

M Coarse	M Fine	UNC UNF	Part Number	d mm	D mm	Cutting edges	l mm	L mm	Price Group
M2-M2,2	M1,8-M2	No.2 (1,5xD)	NS03015C3.8 P60 A9	3	1,5	3	3,8	39	T1
M2-M2,2	M1,8-M2	No.2 (2,25xD)	NS03015C5.4 P60 A9	3	1,5	3	5,4	39	T1
M2,5	M2,2	No.3 (1,5xD)	NS03019C4.3 P60 A9	3	1,9	3	4,3	39	T1
M2,5	M2,2	No.3 (2,25xD)	NS03019C6.2 P60 A9	3	1,9	3	6,2	39	T1
	M2,5	No.4 (1,5xD)	NS03021C4.9 P60 A9	3	2,1	3	4,9	39	T1
	M2,5	No.4 (2,25xD)	NS03021C7.1 P60 A9	3	2,1	3	7,1	39	T1
M3		No.5 (1,5xD)	NS03023C5.4 P60 A9	3	2,3	3	5,4	39	T1
M3		No.5 (2,25xD)	NS03023C7.8 P60 A9	3	2,3	3	7,8	39	T1
M3,5	M3	No.6 (1,5xD)	NS03026C6.1 P60 A9	3	2,6	3	6,1	39	T1
M3,5	M3	No.6 (2,25xD)	NS03026C8.7 P60 A9	3	2,6	3	8,7	39	T1
M4	M3,5-M4	No.8 (1,5xD)	NS0303C7.1 P60 A9	3	3	3	7,1	39	T1
M4	M3,5-M4	No.8 (2,25xD)	NS0303C10.2 P60 A9	3	3	3	10,2	39	T1
M4,5	M4,5	No.10 (1,5xD)	NS04036C8.3 P60 A9	4	3,6	3	8,3	51	T2
M4,5	M4,5	No.10 (2,25xD)	NS04036C12.0 P60 A9	4	3,6	3	12	51	T2
M5-M6	M5-M6	No.12 (1,5xD)	NS0404C10.0 P60 A9	4	4	3	10	51	T2
M5-M6	M5-M6	No.12 (2,25xD)	NS0404C14.5 P60 A9	4	4	3	14,5	51	T2



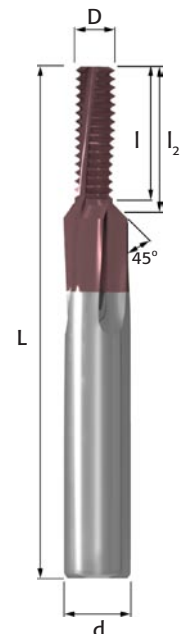
Style NM | Micro Metrical

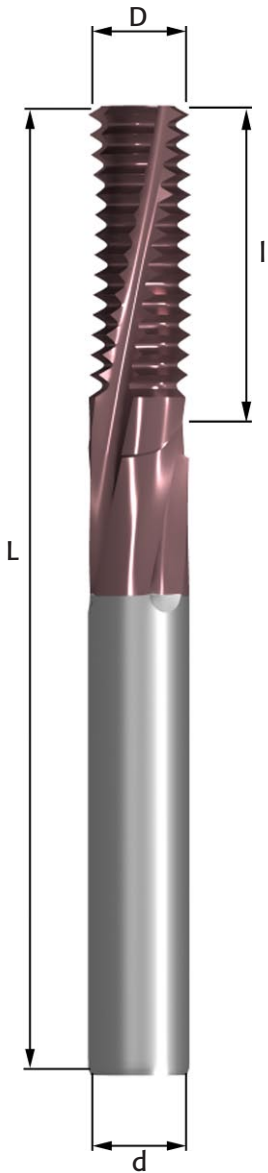
Pitch mm	M Coarse	Part Number	d mm	D mm	Cutting edges	l mm	L mm	Price Group
0,4	M2 (1,5xD)	NM03015C3 0.4ISO A9	3	1,5	3	3,4	39	T2
0,4	M2 (2,25xD)	NM03015C5 0.4ISO A9	3	1,5	3	5	39	T2
0,45	M2.2 (1,5xD)	NM03016C3 0.45ISO A9	3	1,6	3	3,8	39	T2
0,45	M2.2 (2,25xD)	NM03016C5 0.45ISO A9	3	1,6	3	5,4	39	T2
0,45	M2.5 (1,5xD)	NM03019C4 0.45ISO A9	3	1,9	3	4,2	39	T2
0,45	M2.5 (2,25xD)	NM03019C6 0.45ISO A9	3	1,9	3	6,1	39	T2
0,5	M3 (1,5xD)	NM03023C5 0.5ISO A9	3	2,3	3	5	39	T2
0,5	M3 (2,25xD)	NM03023C7 0.5ISO A9	3	2,3	3	7,3	39	T2
0,6	M3.5 (1,5xD)	NM03026C6 0.6ISO A9	3	2,6	3	6	39	T2
0,6	M3.5 (2,25xD)	NM03026C8 0.6ISO A9	3	2,6	3	8,5	39	T2
0,7	M4 (1,5xD)	NM0303C7 0.7ISO A9	3	3	3	7	39	T2
0,7	M4 (2,25xD)	NM0303C10 0.7ISO A9	3	3	3	10	39	T2
0,8	M5 (1,5xD)	NM04038C9 0.8ISO A9	4	3,8	3	9	51	T2
0,8	M5 (2,25xD)	NM04038C12 0.8ISO A9	4	3,8	3	12,1	51	T2
1	M6 (1,5xD)	NM06045C10 1.0ISO A9	6	4,5	3	10	64	T3
1	M6 (2,25xD)	NM06045C14 1.0ISO A9	6	4,5	3	14,5	64	T3
1,25	M8 (1,5xD)	NM0606C14 1.25ISO A9	6	6	3	14	64	T3
1,25	M8 (2,25xD)	NM0606C19 1.25ISO A9	6	6	3	19,3	64	T3



Style NF | Metric with Chamfer

Pitch mm	M Coarse	Part Number	d mm	D mm	Cutting edges	l mm	l <sub>2</sub> mm	L mm	Price Group
0,5	M3 (1,5xD)	NF06023C5 0.5ISO A9	6	2,3	3	5,25	5,85	63	T7
0,5	M3 (2xD)	NF06023C6 0.5ISO A9	6	2,3	3	6,75	7,35	63	T9
0,5	M3 (2,5xD)	NF06023C8 0.5ISO A9	6	2,3	3	8,25	8,85	63	T10
0,5	M3 (3xD)	NF06023C9 0.5ISO A9	6	2,3	3	9,75	10,35	63	T12
0,7	M4 (1,5xD)	NF0603C7 0.7ISO A9	6	3	3	7,35	8,2	63	T7
0,7	M4 (2xD)	NF0603C8 0.7ISO A9	6	3	3	8,75	9,6	63	T9
0,7	M4 (2,5xD)	NF0603C10 0.7ISO A9	6	3	3	10,85	11,7	63	T10
0,7	M4 (3xD)	NF0603C12 0.7ISO A9	6	3	3	12,95	13,8	63	T12
0,8	M5 (1,5xD)	NF06038C8 0.8ISO A9	6	3,8	3	8,4	9,4	63	T7
0,8	M5 (2xD)	NF06038C10 0.8ISO A9	6	3,8	3	10,8	11,8	63	T9
0,8	M5 (2,5xD)	NF06038C13 0.8ISO A9	6	3,8	3	13,2	14,2	63	T10
0,8	M5 (3xD)	NF06038C16 0.8ISO A9	6	3,8	3	16,4	17,4	63	T12
1	M6 (1,5xD)	NF08045C10 1.0ISO A9	8	4,5	3	10,5	11,75	63	T10
1	M6 (2xD)	NF08045C13 1.0ISO A9	8	4,5	3	13,5	14,75	63	T12
1	M6 (2,5xD)	NF08045C16 1.0ISO A9	8	4,5	3	16,5	17,75	63	T13
1,25	M8 (1,5xD)	NF1006C14 1.25ISO A9	10	6	3	14,37	16	76	T12
1,25	M8 (2xD)	NF1006C18 1.25ISO A9	10	6	3	18,12	19,75	76	T14
1,25	M8 (2,5xD)	NF1006C21 1.25ISO A9	10	6	3	21,87	23,5	76	T16
1,5	M10 (1,5xD)	NF12075C17 1.5ISO A9	12	7,5	3	17,25	19,25	83	T14
1,5	M10 (2xD)	NF12075C21 1.5ISO A9	12	7,5	3	21,75	23,75	83	T16
1,5	M10 (2,5xD)	NF12075C27 1.5ISO A9	12	7,5	3	27,75	29,75	83	T17
1,75	M12 (1,5xD)	NF1409C20 1.75ISO A9	14	9	3	20,12	22,5	89	T17
1,75	M12 (2xD)	NF1409C27 1.75ISO A9	14	9	3	27,12	29,5	89	T18
1,75	M12 (2,5xD)	NF1409C32 1.75ISO A9	14	9	3	32,37	34,75	89	T19





## Style NB | Unified

Pitch	UNC	UNF	Part Number	d mm	D mm	Cutting edges	l mm	L mm	Price Group
44		No.5 (1,5xD)	NB04024C5 44UN A9	4	2,4	3	5,48	50	T6
40	No.5 (1,5xD)		NB04023C5 40UN A9	4	2,3	3	5,4	50	T5
40	No.5 (2xD)		NB04023C7 40UN A9	4	2,3	3	7,3	50	T6
40		No.6 (1,5xD)	NB04026C6 40UN A9	4	2,6	3	6,03	50	T6
36		No.8 (1,5xD)	NB04031C7 36UN A9	4	3,1	3	7,41	50	T6
32	No.6 (1,5xD)		NB04025C6 32UN A9	4	2,5	3	6,75	50	T5
32	No.6 (2xD)		NB04025C8 32UN A9	4	2,5	3	8,33	50	T6
32	No.8 (1,5xD)		NB0403C7 32UN A9	4	3	3	7,54	50	T5
32	No.8 (2xD)		NB0403C9 32UN A9	4	3	3	9,13	50	T6
32		No.10 (1,5xD)	NB04036C8 32UN A9	4	3,6	3	8,33	50	T6
28		No.12 (1,5xD)	NB0404C9 28UN A9	4	4	3	9,52	50	T6
28		1/4 (1,5xD)	NB0605C10 28UN A9	6	5	3	10,43	63	T9
24	No.10 (1,5xD)		NB04038C9 24UN A9	4	3,8	3	9	50	T5
24	No.10 (2xD)		NB04038C11 24UN A9	4	3,8	3	11,11	50	T6
24	No.12 (1,5xD)		NB0404C10 24UN A9	4	4	3	10,05	50	T5
24	No.12 (2xD)		NB0404C12 24UN A9	4	4	3	12,17	50	T6
24		5/16 (1,5xD)	NB0606C13 24UN A9	6	6	3	13,23	63	T9
24		3/8 (1,5xD)	NB08076C15 24UN A9	8	7,6	3	15,35	63	T13
20	1/4 (1,5xD)		NB06045C10 20UN A9	6	4,5	3	10,8	63	T7
20	1/4 (2xD)		NB06045C14 20UN A9	6	4,5	3	14,6	63	T9
20		7/16 (1,5xD)	NB0808C18 20UN A9	8	8	3	18,41	63	T13
20		1/2 (1,5xD)	NB1010D21 20UN A9	10	10	4	20,96	76	T17
20			NB1212E28 20UN A9	12	12	5	28,57	83	T19
18	5/16 (1,5xD)		NB06058C13 18UN A9	6	5,8	3	13,41	63	T7
18	5/16 (2xD)		NB06058C17 18UN A9	6	5,8	3	17,64	63	T9
18		9/16 (1,5xD)	NB1010D23 18UN A9	10	10	4	23,28	76	T17
18		5/8 (1,5xD)	NB1212D26 18UN A9	12	12	4	26,11	83	T19
16	3/8 (1,5xD)		NB0606C16 16UN A9	6	6	3	16,67	63	T7
16	3/8 (2xD)		NB0606C21 16UN A9	6	6	3	21,43	63	T9
16		3/4 (1,5xD)	NB1212D31 16UN A9	12	12	4	30,96	100	T19
16			NB1616E35 16UN A9	16	16	5	35,72	100	T23
14	7/16 (1,5xD)		N0808C19 14UN A9	8	8	3	19,05	63	T11
14	7/16 (2xD)		N0808C24 14UN A9	8	8	3	24,49	76	T13
14		7/8 (1,5xD)	NB1616E35 14UN A9	16	16	5	35,38	100	T23
13	1/2 (1,5xD)		NB0808C22 13UN A9	8	8	3	22,47	76	T11
13	1/2 (2xD)		NB0808C28 13UN A9	8	8	3	28,33	76	T13
12	9/16 (1,5xD)		NB1010C24 12UN A9	10	10	3	24,34	76	T15
12	9/16 (2xD)		NB1010C30 12UN A9	10	10	3	30,69	100	T17
12			NB1616E43 12UN A9	16	16	5	43,39	100	T23
11	5/8 (1,5xD)		NB1010C26 11UN A9	10	10	3	26,55	76	T15
11	5/8 (2xD)		NB1010C35 11UN A9	10	10	3	35,79	100	T17
10	3/4 (1,5xD)		NB1212C31 10UN A9	12	12	3	31,75	100	T18
10	3/4 (2xD)		NB1212C41 10UN A9	12	12	3	41,91	100	T19
9	7/8 (1,5xD)		NB1616C38 9UN A9	16	16	3	38,1	100	T22
9	7/8 (2xD)		NB1616C49 9UN A9	16	16	3	49,39	120	T23
8	1 (1,5xD)		NB1616C42 8UN A9	16	16	3	42,86	100	T22
8	1 (2xD)		NB1616C55 8UN A9	16	16	3	55,56	120	T23
8			NB2020D49 8UN A9	20	20	4	49,21	120	T26

### Style XB | Whitworth Pipe Thread

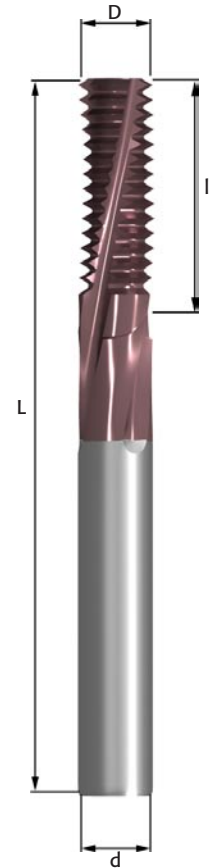
Pitch TPI	Norm	Internal/External Part Number	d mm	D mm	Cutting edges	l mm	L mm	Price Group
28	G 1/8	XB0606C9 28W A9	6	6	3	10,43	64	T7
19	G 1/4 - 3/8	XB0808C14 19W A9	8	8	3	15,37	64	T11
19	G 1/4 - 3/8	XB1010D20 19W A9	10	10	4	22,06	76	T15
14	G 1/2 - 7/8	XB1212D19 14W A9	12	12	4	20,86	83	T18
14	G 1/2 - 7/8	XB1212D26 14W A9	12	12	4	28,12	83	T19
14	G 1/2 - 7/8	XB1616E26 14W A9	16	16	5	28,12	100	T22
11	G 1 - 1 1/2	XB1212C24 11W A9	12	12	3	26,55	83	T18
11	G 1 - 3	XB1616D38 11W A9	16	16	4	40,41	100	T22
11	G ≥ 1	XB2020E47 11W A9	20	20	5	49,65	120	T25

### Style XB | BSPT Pipe Thread

Pitch TPI	Norm	Internal/External Part Number	d mm	D mm	Cutting edges	l mm	L mm	Price Group
28	RC 1/8	XB0606C9 28BSPT A9	6	6	3	10,43	63	T9
19	RC 1/4 - 3/8	XB0808C14 19BSPT A9	8	8	3	15,37	63	T13
14	RC 1/2 - 7/8	XB1212D19 14BSPT A9	12	12	4	20,86	83	T19
11	RC 1 - 2	XB1616D28 11BSPT A9	16	16	4	31,17	100	T23

### Style XB | Steel Conduit Thread

Pitch TPI	Norm	Internal/External Part Number	d mm	D mm	Cutting edges	l mm	L mm	Price Group
20	Pg 7	XB0808C19 20PG A9	8	8	3	20,96	63	T13
18	Pg 9 - 16	XB1010C26 18PG A9	10	10	3	27,52	76	T17
16	Pg 21 - 48	XB1212D29 16PG A9	12	12	4	30,96	83	T19



### Style XB | NPT

Pitch TPI	Norm	Internal/External Part Number	d mm	D mm	Cutting edges	l mm	L mm	Price Group
27	1/16 - 1/8	XB0606C10 27NPT A9	6	6	3	10,82	63	T9
18	1/4 - 3/8	XB0808C16 18NPT A9	8	8	3	16,23	63	T13
14	1/2 - 3/4	XB1212D22 14NPT A9	12	12	4	22,68	83	T19
14	3/4	XB1616D22 14NPT A9	16	16	4	22,86	100	T23
11,5	1/2	XB1616D29 11.5NPT A9	16	16	4	29,82	100	T23
8	≥ 2 1/2	XB2020D42 8NPT A9	20	20	4	42,86	100	T26

### Style XB | NPTF

Pitch TPI	Norm	Internal/External Part Number	d mm	D mm	Cutting edges	l mm	L mm	Price Group
27	1/16 - 1/8	XB0606C10 27NPTF A9	6	6	3	10,82	63	T9
18	1/4 - 3/8	XB0808C16 18NPTF A9	8	8	3	16,23	63	T13
14	1/2 - 3/4	XB1212D22 14NPTF A9	12	12	4	22,68	83	T19
11,5	1/2	XB1616D29 11.5NPTF A9	16	16	4	29,82	100	T23

### Style XB | NPSF

Pitch TPI	Norm	Internal/External Part Number	d mm	D mm	Cutting edges	l mm	L mm	Price Group
27	1/16 - 1/8	XB0606C11 27NPSF A9	6	6	3	12,70	63	T9
18	1/4 - 3/8	XB0808C14 18NPSF A9	8	8	3	16,23	63	T13
14	1/2 - 3/4	XB1212D22 14NPSF A9	12	12	4	22,68	83	T19
11,5	1	XB1616D29 11.5NPSF A9	16	16	4	29,82	100	T23

### Style NPT | Tapered End Mill for NPT/NPTF

D mm	d mm	Part Number	Cutting edges	l mm	l <sub>2</sub> mm	L mm	Price Group
5	6	NPT0605D16 F9	4	16	1	64	T1
8,5	10	NPT10085D24 F9	4	24	1,5	76	T4
14	16	NPT1614D32 F9	4	32	2	100	T14
17	20	NPT2017D48 F9	4	48	3	120	T22

Should be used with cylindrical interpolation. Will save the WhizThrill threadmill from excessive wear

