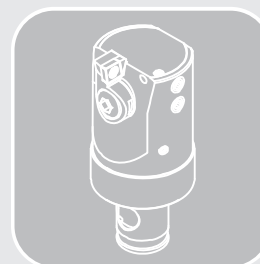
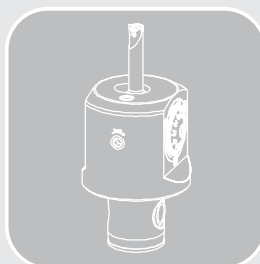
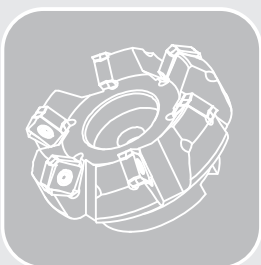
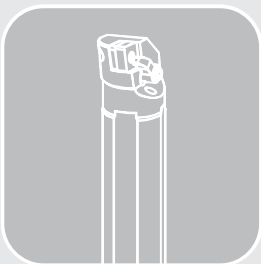
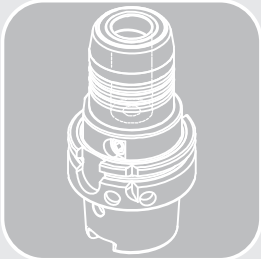


THINK CUTTING THINK

HARLINGEN®



CNC Tool Catalog 2019/2020

ABOUT HARLINGEN

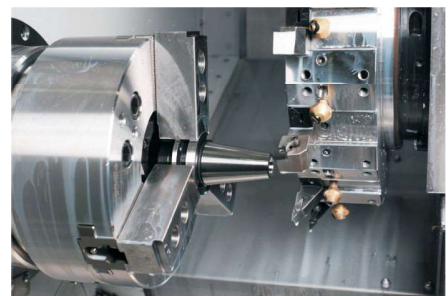
Many years ago, HARLENGEN aspired to supply various metal cutting tools and toolholding parts of reliable quality to the industrial fields when it was established in Lodi Italy.

Up to now, Harlingen has been active in more than 40 countries, supplying directly to major automotive and aircraft manufacturing industry as well as distributing through an array of industrial supply channels.



MANUFACTURING

Starting from a forged steel blanks up to the finished chucks and holders with super high accuracy, Harlingen makes ALL procedures in its 35000m² workshop located in Chengdu certified by ISO 9001:2008. Every single manufacturing process is strictly proceeded and controlled in-house by ourselves, utilizing the most advanced facilities like MAZAK, HAAS, STUDER, HARDINGE. Based on extremely strict quality control, Harlingen Hydraulic Expansion Chucks, Shrink Fit Chucks, HSK and CAPTO tooling systems etc. are among the leading level of the world. There are more than 60 professional technicians in Harlingen R&D team to make innovation and supply customized products and turnkey projects.



QUALITY

Harlingen applied the world-class inspection devices from Stotz, Hexagon, Kelch, Mitutoyo, Haimer, Zoller and Keyence for the quality control system. And most importantly, as a stalwart in this industry for many years, it is Harlingen's concept that we are committed to be the customer's preferred source of these tools by meeting and surpassing their expectations for reliable quality.



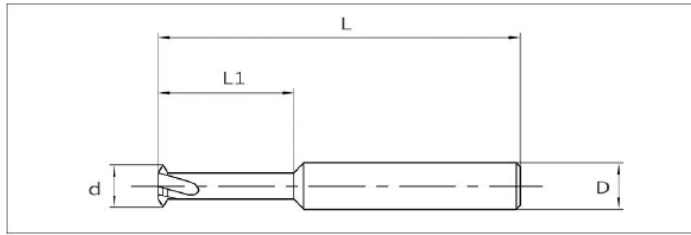
VISION

Over the long run, we believe that substantive changes would be made in the fierce and competitive industrial market. And we believe in our consistent values, which has brought us and will continue to bring us success. And Harlingen is adamant to clarifying:

- **Quality**
- **Customer Orientation**
- **Commitment**



Yours truly
The Harlingen Team



ISO Thread Single Tooth Thread Mill

Specification	Pitch	Size (mm)				Teeth	
Metric	mm	D	D2	L	L1	Flutes	Teeth
M0.8*0.2	0.2-0.225	4	0.55	50	2	3	1
M0.9*0.225	0.225-0.3	4	0.6	50	2.3	3	1
M1*0.25	0.25-0.35	4	0.73	50	3	3	1
M1.2*0.25	0.25-0.35	4	0.92	50	3.2	3	1
M1.4*0.3	0.3-0.4	4	1.05	50	3.5	3	1
M1.6*0.35	0.35-0.4	4	1.2	50	6	3	1
M2*0.4	0.4-0.5	4	1.54	50	7.5	3	1
M2.5*0.45	0.45-0.5	4	1.96	50	9	3	1
M3*0.5	0.5-0.6	4	2.4	50	12	3	1
M4*0.7	0.5-0.8	4	3.15	50	12	3	1
M5*0.8	0.5-1.0	4	3.95	50	12	4	1
M5*0.8	0.5-1.0	6	4	50	15	3	1
M6*1.0	0.5-1.0	6	4.75	50	20	3	1
M8*1.25	0.5-1.25	6	5.9	60	25	3	1
M10*1.5	0.8-1.5	8	7.9	60	30	6	1
M12*1.75	1.5-2.0	10	9.9	75	35	6	1
M16*2.0	2.0-5.0	12	11.9	80	40	5	1
M18*2.5	1.0-5.0	14	14	100	45	5	1
M22*3.0	2.0-5.0	16	16	100	50	5	1
M30*6.0	2.0-6.0	20	19.9	110	19.9	6	1

ISO Thread Single Extra long

Specification	Pitch	Size (mm)				Teeth	
Metric	mm	D	D2	L	L1	Flutes	Teeth
M1.6*0.35	0.35-0.4	4	1.2	75	3.5	3	1
M2*0.4	0.4-0.5	4	1.54	75	6	3	1
M2*0.4	0.4-0.5	4	1.54	100	4.5	3	1
M2.5*0.45	0.45-0.5	4	1.96	75	7.5	3	1
M2.5*0.45	0.45-0.5	4	1.96	100	6.5	3	1
M3*0.5	0.5-0.6	4	2.4	75	9	3	1
M3*0.5	0.5-0.6	4	2.4	100	7.5	3	1
M4*0.7	0.5-0.8	4	3.15	75	12	3	1
M4*0.7	0.5-0.8	4	3.15	100	10	3	1
M5*0.8	0.5-1.0	4	4	75	13	4	1
M5*0.8	0.5-1.0	6	4	100	13	4	1
M6*1.0	0.5-1.0	6	4.75	75	15	4	1
M6*1.0	0.5-1.0	6	4.75	100	15	4	1
M8*1.25	0.5-1.25	6	5.9	75	20	4	1
M8*1.25	0.5-1.25	6	5.9	100	25	4	1
M10*1.5	0.8-1.5	8	7.9	75	25	6	1
M10*1.5	0.8-1.5	8	7.9	100	25	6	1
M12*1.75	1.5-2.0	10	9.9	100	35	6	1
M16*2.0	2.0-5.0	12	12	100	35	6	1

G55 Single Tooth thread mill

Specification	Pitch	Size (mm)				Teeth	
Metric	mm	D	D2	L	L1	Flutes	Teeth
d3.0*G55	0.5-1.0	4	4	50	9	3	1
d4.0*G55	0.5-1.0	4	4	50	12	4	1
d4.6*G55	0.5-1.25	6	4.6	50	16	3	1
d5.0*G55	0.5-1.25	6	5	50	16	4	1
d6.0*G55	0.5-1.25	6	6	50	16	4	1
d8.0*G55	1.0-2.0	8	8	60	24	4	1
d8.0*G55	1.0-2.0	8	8	75	20	4	1
d10*G55	1.0-2.5	10	10	75	28	5	1
d12*G55	2.0-2.5	12	12	75	30	5	1



Chamfer Mill 90 Degree Angle

Specification	Pitch	Size (mm)				Teeth	
Metric	mm	D	D2	L	L1	Flutes	Teeth
D1.5		4		50	4.5	3	1
D2.0		4		50	6	3	1
D2.5		4		50	7.5	3	1
D3.0		4		50	9	3	1
D3.5		4		50	10.5	3	1
D4.0		4		50	12	3	1
D4.5		6		50	13.5	3	1
D5		6		60	15	3	1
D5.5		6		60	16	3	1
D6.0		6		60	18	3	1
D8.0		8		60	24	4	1
D10.0		10		75	30	5	1
D12.0		12		75	40	5	1



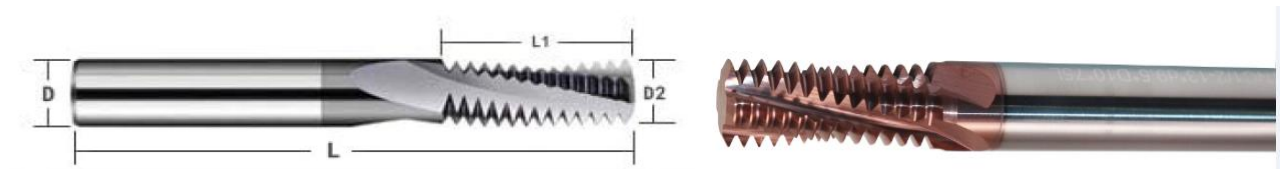
ISO Thread Mill Three Teeth

Specification	Pitch	Size (mm)				Teeth	
Metric	mm	D	D2	L	L1	Flute	Teeth
M1*0.25	0.25	4	0.73	50	2.3	3	3
M1.2*0.25	0.25	4	0.92	50	3.3	3	3
M1.4*0.3	0.3	4	1.05	50	3.2	3	3
M1.6*0.35	0.35	4	1.21	50	3.5	3	3
M1.8*0.35	0.35	4	1.4	50	4	3	3
M2*0.4	0.4	4	1.54	50	4.5	3	3
M2.2*0.45	0.45	4	1.65	50	5	3	3
M2.5*0.45	0.45	4	1.96	50	5.5	3	3
M3*0.5	0.5	4	2.42	50	7	3	3
M3.5*0.6	0.6	4	2.75	50	9	3	3
M4*0.5	0.5	4	3.4	50	8	3	3
M4*0.7	0.7	4	3.15	50	8.8	3	3
M4.5*0.75	0.75	4	3.5	50	11	3	3
M5*0.5	0.5	4	3.9	50	8	3	3
M5*0.75	0.42	4	3.9	50	8	3	3
M5*0.8	0.8	6	4	50	12	3	3
M5*0.8	0.8	4	3.95	50	12	3	3
M6*0.5	0.5	6	4.8	50	13	3	3

M6*0.75	0.75	6	5	50	13	3	3
M6*1.0	1	4	3.95	50	14	3	3
M6*1.0	1	6	4.75	50	12	3	3
M8*0.75	0.75	6	5.95	60	20	3	3
M8*1.0	1	6	5.9	50	20	3	3
M8*0.5	0.5	6	6	60	16	4	3
M8*1.25	1.25	6	5.95	60	17.5	3	3
M10*1.0	1	8	7.9	60	21	4	3
M10*1.25	1.25	8	8	60	21	4	3
M10*1.5	1.5	8	7.9	75	22	4	3
M10*1.5	1.5	10	8.2	75	25	4	3
M12*1.0	1	10	9.9	75	30	4	3
M12*1.5	1.5	10	9.9	75	30	4	3
M12*1.25	1.25	10	9.9	75	30	4	3
M12*1.75	1.75	10	9.9	75	28	4	3
M14*2.0	2	10	9.9	75	28	4	3
M16*1.5	1.5	12	11.9	75	30	4	3
M16*2.0	2	12	11.9	100	35	4	3
M22*2.5	2.5	16	15.9	100	50	6	3
M24*3.0	3	16	15.9	100	50	6	3
M24*3.5	3.5	16	15.9	100	50	6	3

ISO Thread Mill Three Teeth- Extra long

Specification	Pitch	Size (mm)				Teeth	
Metric	mm	D	D2	L	L1	Flute	Teeth
M1*0.25	0.25	4	0.73	75	2.3	3	3
M1.4*0.3	0.3	4	1.05	75	3.2	3	3
M1.6*0.35	0.35	4	1.2	100	5	3	3
M2*0.4	0.4	4	1.54	75	6	3	3
M2*0.4	0.4	4	1.54	100	5	3	3
M2.5*0.45	0.45	4	1.96	75	6	3	3
M2.5*0.45	0.45	4	1.96	100	7.5	3	3
M3*0.5	0.5	4	2.4	75	7.5	3	3
M3*0.5	0.5	4	2.4	100	9	3	3
M4*0.7	0.7	4	3.15	75	10	3	3
M4*0.7	0.7	4	3.15	100	10	3	3
M5*0.8	0.8	6	4	75	15	4	3
M5*0.8	0.8	6	4	100	15	4	3
M6*1.0	1	6	4.75	75	15	4	3
M6*1.0	1	6	4.75	100	15	4	3
M8*1.25	1.25	6	5.9	75	20	3	3
M8*1.25	1.25	6	5.9	100	20	3	3
M10*1.5	1.5	8	7.9	100	30	5	3
M12*P1.75	1.75	10	9.9	100	35	5	3
M16*2.0	2	12	11.9	100	32	5	3



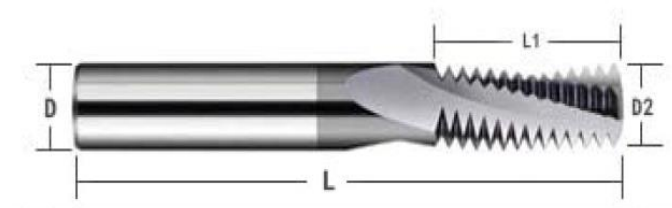
ISO Thread Mill Full Teeth

Specification		Pitch	Size (mm)				Teeth	
Metric	mm	D	D2	L	Le	Flutes	Teeth	
M1.6*0.35	0.35	4	1.2	50	3.4	3	Full	
M2*0.4	0.4	4	1.54	50	6	3	Full	
M2.5*0.45	0.45	4	1.96	50	6	3	Full	
M3*0.5	0.5	4	2.4	50	6.5	3	Full	
M3.5*0.6	0.6	4	2.75	50	8.5	3	Full	
M4*0.5	0.5	4	3	50	8	3	Full	
M4*0.7	0.7	4	3.15	50	10	3	Full	
M4.5*0.75	0.75	4	3.4	50	9	3	Full	
M5*0.5	0.5	4	3.9	50	12	3	Full	
M5*0.8	0.8	4	3.95	50	12	3	Full	
M5*0.8	0.8	6	3.9	50	13	3	Full	
M6*0.5	0.5	6	4.8	50	13	3	Full	
M6*0.75	0.75	4	3.9	50	12	3	Full	
M6*0.75	0.75	6	5	60	17	3	Full	
M6*d1.0	1	4	3.9	50	12	3	Full	
M6*d1.0	1	6	4.75	50	13	3	Full	
M8*0.5	0.5	6	5.9	60	16	3	Full	
M8*0.75	0.75	6	5.95	50	15	3	Full	
M8*1.0	1	6	5.95	50	15	3	Full	
M8*1.25	1.25	6	5.9	60	20	3	Full	
M10*0.5	0.5	8	7.9	65	20	4	Full	
M10*0.75	0.75	8	7.9	65	22	3	Full	
M10*d1.0	1	8	7.9	65	20	4	Full	
M10*1.25	1.25	8	7.9	65	20	3	Full	
M10*1.5	1.5	8	7.7	65	22	4	Full	
M12*0.5	0.5	10	9.9	75	20	3	Full	
M12*0.75	0.75	10	9.95	75	20	4	Full	
M12*1.0	1	10	9.9	65	20	4	Full	
M12*1.0	1	10	9.9	75	28	4	Full	
M12*1.25	1.25	10	9.9	75	25	4	Full	
M12*1.5	1.5	10	9.4	75	24	4	Full	
M12*1.5	1.5	10	9.9	65	20	4	Full	
M12*1.75	1.75	10	9.5	75	25	4	Full	
M14*0.5	0.5	12	12	75	30	4	Full	
M14*1.0	1	12	11.9	75	30	4	Full	
M14*1.0	1	12	11.9	80	32	4	Full	
M14*1.5	1.5	10	9.9	75	25	4	Full	
M14*1.5	1.5	12	11.2	75	30	4	Full	
M14*2.0	2	10	9.9	75	30	4	Full	
M14*2.0	2	12	11.2	75	30	4	Full	
D16*1.25	1.25	16	16	100	40	4	Full	
M16*1.5	1.5	12	11.9	75	22	4	Full	
M16*1.5	1.5	12	12	75	30	4	Full	
M16*1.5	1.5	12	11.9	80	36	4	Full	
M16*1.5	1.5	14	13.9	83	33	4	Full	
M16*2	2	12	12	75	30	4	Full	
M16*2.0	2	12	12	80	35	4	Full	
M18*2.0	2	14	13.9	100	33	5	Full	
M18*2.5	2.5	14	13.9	100	32	5	Full	
M20*1.5	1.5	16	16	100	40	4	Full	
M20*2.0	2	16	16	100	40	5	Full	
M22*1.0	1	16	16	100	40	5	Full	
M22*2.0	2	16	16	100	40	5	Full	
M22*2.5	2.5	16	15.9	100	40	5	Full	
M24*3.0	3	16	15.9	100	40	4	Full	
M30*3.5	3.5	16	16	100	40	5	Full	
D20*2.0	2	20	20	100	40	5	Full	
D20*4.0	4	20	20	100	40	5	Full	



UNC(Three Teeth)

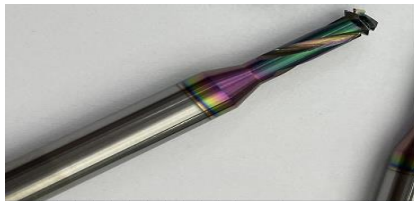
Specification							
Pitch	Size (mm)				Teeth		
	mm	D	D2	L	L1	Flutes	Teeth
UNC1-64		4	1.4	50	4	3	3
UNF1-72		4	1.44	50	3.8	3	3
UNF0-80		4	1.18	50	3.5	3	3
UNC3-48		4	1.9	50	5	3	3
UNC8-36		4	3.31	50	11	3	3
UNC10-24		4	3.58	50	11	3	3
UNF10-32		4	3.8	50	10	3	3
UNC2-56		4	1.65	50	5	3	3
UNC6-32		4	2.56	50	7.4	3	3
UNC4-40		4	2.13	50	6	3	3
UNC4-40		4	2.13	50	8.2	3	3
UNC8-32		4	3.2	50	11	3	3
UNC10-24		4	3.6	50	11	3	3
UNC5-40		4	2.46	50	8	3	3
UNF 1/4-28		6	5	50	15	3	3
UNC5/16-24		6	5.95	60	18	3	3
UNC1/4-20		6	4.87	50	13.75	3	3
UNC5/16-18		6	5.9	50	18	3	3
UNC5/16-24		6	5.95	60	18	3	3
UNC3/8-16		8	7.65	60	20	3	3
UNC5/16-24		8	6.88	65	21	3	3
UNF3/8-24		8	7.4	65	20	4	3
UNC1/2-13		10	9.9	75	25	4	3
UNF7/16-20		10	9.5	75	28	4	3
UNC7/16-14		10	9	75	28	4	3
UNC9/16-18		12	11.3	75	30	4	3
UNF9/16-24		12	11.9	75	29	4	3



UNC(Full Teeth)

Specification	Pitch	Size (mm)				Teeth	
	mm	D	D2	L	L1	Flutes	Teeth
UNC8-32		4	3.2	50	11	3	Full
UNC10-32		4	3.8	50	10	3	Full
UNC1/4-20		6	4.9	50	13	3	Full
UNC5/16-18		6	6	60	17	3	Full
UNF1/4-28		6	4.6	50	15	3	Full
UNS10-48		6	4.1	65	12	3	Full
UNF5/16-24		6	5.9	60	17	3	Full
UNC3/8-16		8	7.65	65	20	3	Full
UNC1/2-20		10	9.9	75	25.4	4	Full
UNF9/16-24		12	11.9	80	30	4	Full
UNC5/8-11		12	11	75	33	4	Full

UNC9/16-18	12	11.9	83	30	4	Full
UNF3/4-16	12	12	75	25	4	Full
UNC3/4-10	16	14.5	100	40	5	Full
UNC7/8-9	16	15.2	100	45	4	Full
UNC3/4-16	16	15.9	100	38	4	Full
UNC5/8-18	8	7.95	65	20	4	Full
UNF9/16-18	10	10	75	30	4	Full
UNC9/16-18	12	11.9	83	30	4	Full
UNF3/8-32	8	7.9	60	20	4	Full
UNF7/8-14	12	11.6	75	20	4	Full
UNC10-24	4	3.6	50	11	3	Full
UNC9/16-12	12	11.8	75	28.6	4	Full
UNC3/4-20	12	11.9	75	30	4	Full
UNC7/16-20	10	9.6	75	22.2	4	Full
UNF3/4-20	10	10	75	23	4	Full
UNF7/8-28	12	12	75	25	4	Full
UNC1/2-13	10	9.5	75	25	4	Full
UNC1/2-13	10	9.9	75	25	4	Full



Drill with thread mill

Specification	Pitch	Size (mm)				Teeth	
	mm	D	D2	L	L1	Flutes	Teeth
M1.6*0.35	0.35	4	1.2	50	5	2	
M2*0.4	0.4	4	1.54	50	6	2	
M2.5*0.45	0.45	4	1.96	50	7.5	2	
M3*0.5	0.5	6	2.4	50	9	3	
M4*0.7	0.7	6	3.2	50	11	3	
M5*0.8	0.8	6	3.9	50	12	3	
M6*1.0	1	6	4.7	50	14	3	
M8*1.25	1.25	8	6.5	60	18	3	
M10*1.5	1.5	8	7.8	60	23	4	
M12*1.75	1.75	10	9.6	75	26	4	



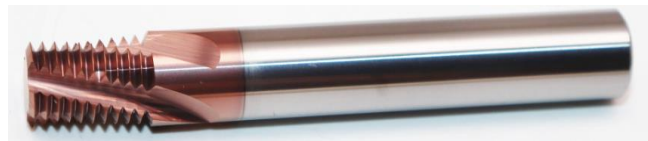
55°(BSPT)RC(Full Teeth) Taper pipe thread

Specification	Pitch	Size (mm)				Teeth	
	mm	D	D2	L	L1	Flutes	Teeth
RC1/16-28		6	5.8	60	17	3	Full
RC1/8-28		8	7.9	65	20	3	Full
RC1/4-19		10	9.1	75	26.7	4	Full
RC3/8-19		12	11.9	75	30	4	Full
RC1/2-14/RC3/4		12	11.9	83	33	4	Full
RC1/2-14/RC3/4		16	15.9	100	40	5	Full
RC1-11		16	15.9	100	42	5	Full
RC1-11		20	19.9	100	41.5	5	Full



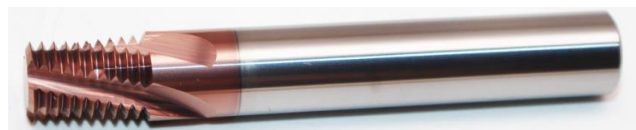
55°(BSP)G(Full Teeth) Straight pipe thread

Specification	Pitch	Size (mm)				Teeth	
	mm	D	D2	L	L1	Flutes	Teeth
RC1/16-28		6	5.8	60	17	3	Full
RC1/8-28		8	7.9	65	20	3	Full
RC1/4-19		10	9.1	75	26.7	4	Full
RC3/8-19		12	11.9	75	30	4	Full
RC1/2-14/RC3/4		12	11.9	83	33	4	Full
RC1/2-14/RC3/4		16	15.9	100	40	5	Full
RC1-11		16	15.9	100	42	5	Full
RC1-11		20	19.9	100	41.5	5	Full



60°NPT(Full Teeth)

Specification	Pitch	Size (mm)				Teeth	
	mm	D	D2	L	L1	Flutes	Teeth
NPT1/16-27		6	5.3	60	10	3	Full
NPT1/8-27		8	7.1	65	15	3	Full
NPT1/4-18		10	9.1	75	14	4	Full
NPT3/8-18		12	11.15	75	14.8	4	Full
NPT1/2-14		12	11.9	83	25	4	Full
NPT3/4-14		12	11.9	83	25	4	Full
NPT1/2-14		16	15.5	100	25	5	Full
NPT1-11.5		20	19.9	100	33	5	Full
NPT1 -11.5		16	15.9	100	33	5	Full



60°NPTF(Full Teeth)

Specification	Pitch	Size (mm)				Teeth	
	mm	D	D2	L	L1	Flutes	Teeth
NPTF1/16-27		6	5.9	50	10	3	Full
NPTF1/8-27		8	7.65	60	15	4	Full
NPTF1/4-18		10	9.9	75	14.8	4	Full
NPTF3/8-18		12	11.15	75	14.8	4	Full
NPTF1/2-14		16	15.5	100	25	5	Full
NPTF1-11.5		20	19.6	100	23	4	Full



PG Thread Mill Angel 80(R)

Specification	Pitch	Size (mm)				Teeth	
Metric	mm	D	D2	L	L1	Teeth	Working size
PG7-20	20	8	7.9	75	20	3	PG7
PG9-18	18	10	9.9	75	25	5	PG9/ PG11/PG13.5 /PG16
PG21	21	12	12	75	28	5	PG21 /PG29 /PG36/ PG42 /PG48

MJ Thread Mill

Specification	Pitch	Size (mm)				Teeth	Price (USD)
	mm	D	D2	L	L1	FLUTE	Uncoated
M3*0.5	0.5	4	2.42	50	7.1	3	N/A
M4*0.7	0.7	4	3.15	50	8.8	3	N/A
M5*0.8	0.8	6	4	50	12	3	N/A
M6*1.0	1	6	4.75	50	12.9	3	N/A