

Thread Mills optimum for processing The Heat Resistant Alloy

The Heat Resistant Alloy

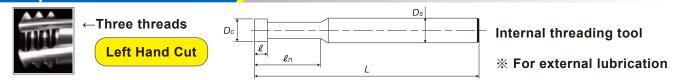
Premium Thread Mill for

PRO



Premium Thread Mill for the Heat Resistant Alloy PRML TI Coating HF

Shape and Dimensions



For Metric threads

Ultimate Machining Products Lineup

Size	Metric Thread Size(Dmin)	Maximum machinable length	Code	Dc (mm)	L (mm)	k (mm)	ℓn (mm)	Ds (mm)	Number of Flutes	MSRP
6.0P1.25	M8×1.25	16	MH6.0NNIWLM	6	70	3.8	18	6	4	20,200
6.0P1.0	M8×1	16	MH6.0MNIWLM	6	70	3.0	18	6	4	20,200
7.5P1.5	M10×1.5	20	MH7.50NIWLM	7.5	80	4.5	22	8	4	21,100
7.5P1.25	M10×1.25	20	MH7.5NNIWLM	7.5	80	3.8	22	8	4	21,100
7.5P1.0	M10×1	20	MH7.5MNIWLM	7.5	80	3.0	22	8	4	21,100
9.0P1.75	M12×1.75	24	MH9.0PNIWLM	9	90	5.3	26	10	4	24,100
9.0P1.5	M12×1.5	24	MH9.0ONIWLM	9	90	4.5	26	10	4	24,100
9.0P1.25	M12×1.25	24	MH9.0NNIWLM	9	90	3.8	26	10	4	24,100

For Unified threads

Size	Unified Thread Size(Dmin)	Maximum machinable length	Code	Dc (mm)	L (mm)	ل _(mm)	ℓn (mm)	Ds (mm)	Number of Flutes	MSRP
5.8U18	5/16-18UNC	15.9	MH5.80NIWLU	5.8	70	4.2	17.9	6	4	20,200
5.8U24	5/16-24UNF	19.1	MH5.8MNIWLU	5.8	70	3.2	21.1	6	4	20,200
6.0U16	3/ 8-16UNC	19.1	MH6.0PNIWLU	6	70	4.8	21.1	6	4	20,200
8.0U14	7/16-14UNC	22.2	MH8.0QNIWLU	8	80	5.4	24.2	8	4	21,100
8.0U20	7/16-20UNF	25.4	MH8.0NNIWLU	8	80	3.8	27.4	8	4	21,100
9.0U13	1/ 2-13UNC	25.4	MH9.0RNIWLU	9	90	5.9	27.4	10	4	24,100

How to Use

please visit our website.

The PRML TI is a left hand cutter, please use a counterclockwise spindle rotation. Process the thread from top to the bottom like $(2) \sim (3)$. For programing,

3

4

ZAxis

(2)

ZAx

Applicable to Heat-resistant alloy processing

Recommended condition

Work Matreial	Cutting Speed (m/min)	1Feed rate per flute fz (mm / t)
Titanium alloys	40~60	0.02~0.06
Austenitic Stainless steel	60~80	0.06~0.08
Martensitic Stainless steel	40~60	0.02~0.06

 The above conditions are exclusive to tapping with water soluble fluid.
The coolants effectiveness depends on the conditions of the cutting fluid. When applying the cutting fluid, be sure to direct the coolant nozzles position at an angle above the tool for the best lubrication.

speed;

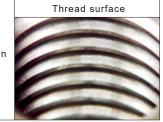
Rotation speed (min - 1) = 1000 X Cutting speed / 3.14 / PRML TI diameter (Dc) Feed rate (mm / min) = fz X Number of flutes X Rotational speed X (internal nominal diameter - PRML TI diameter (Dc)) / Thread nominal diameter.

Process data Thread size:M8X1

Processing Condition 6.0 P1.0 (Code:MH6.0MNIWLM)

Ti-6Ał-4V
50m/min
0.04mm/t
1 Omm
Φ7.0
1Pass
Machining center (BT 30)
Water Soluble oil 20 to 1 ratio

Excellent thread surface even after
100hole
threaded !



HF: Ultra fine cemented carbide

Warning

Head

◆Tools may shatter during use. Wear safety eye cover or eye glasses to avoid injury during tapping.

♦Use tools under the proper tapping condition.

•Never wear gloves during turning operations as the gloves may get caught in the tools.

•Wear safety shoes to avoid foot injury by the falling tools.

♦When attaching tools to the machine, fasten firmly to avoid chatter and run-out.

- •Fasten the workpiece firmly so it never moves during the tapping operation. Never use worn tools or damaged tools.
- ♦Take a special care to prevent fire during machining. High temperature during tapping can cause a fire.

YAMAWA MFG. Co., Ltd.

Nakajima Gold bldg.13-10 Kyobashi

office 3chome, Chuo-ku, Tokyo 104-0031, JAPAN

Website:http://www.yamawa.com

YAMAWA group for Overseas

YAMAWA International Co., Ltd.

