

### Single tooth thread mill 3×D, TiAIN, M: M6



#### Order data

Order number	139615 M6
GTIN	4045197585851
Item class	11J

# Description

#### **Version:**

Corrected thread profile for milling exact internal threads, (ensure stable clamping conditions). Very sturdy single-tooth thread mills, highly suitable especially for GRP, CRP and graphite. Also suitable for Ti-based and Ni-based alloys and hardened steels up to 58 HRC. Advantage:

Significantly less radial pressure than with multi-tooth thread mills.

#### Note:

Single-tooth thread mill exclusively for milling internal threads. The tapping hole (and where necessary the countersinking) has to be prepared beforehand! Because of the tooth profile only the thread nominal  $\varnothing$  (= size) with the corresponding thread pitch (see table) may be generated.

Through-coolant: no No. of teeth Z: 4 Thread pitch: 1 mm Nominal Ø D<sub>c</sub>: 4.8 mm Shank length L<sub>s</sub>: 36 mm Overhang L<sub>1</sub>: 18 mm Overall length L: 59 mm Shank Ø D<sub>s</sub>: 6 mm

### **Technical description**

maximum insertion depth $L_{\text{c}}$	18 mm
Thread pitch	1 mm
Number of clamping slots	4

No. of teeth Z	4		
Feed $f_z$ in steel < 1400 N/mm <sup>2</sup>	0.035 mm		
Shank Ø D <sub>s</sub>	6 mm		
Overall length L	59 mm		
Feed f <sub>z</sub> in CRP	0.06 mm		
Shank length L <sub>s</sub>	36 mm		
Through-coolant	no		
Thread depth	18 mm		
Thread size	M6		
Nominal Ø D <sub>c</sub>	4.8 mm		
Overhang L <sub>1</sub>	18 mm		
Coating	TiAlN		
Thread type	М		
Thread type	M-LH		
Flank angle	60 °		
Tool material	Solid carbide		
Thread standard	DIN 13		
Shank	DIN 6535 HA with h6		
Application for type of drilling	up to 3×D for blind holes		
Application for type of drilling	up to 3×D for through holes		
Shank tolerance	h6		
Colour ring	green		
Internal/external application	Internal		
Type of product	thread milling cutter		

# **User data**

	Suitability	<b>V</b> <sub>c</sub>	ISO code
Alu plastics	suitable	300 m/min	N



Aluminium (short chipping)	suitable	300 m/min	N
Alu > 10% Si	suitable	200 m/min	N
Steel < 500 N/mm <sup>2</sup>	suitable	200 m/min	Р
Steel < 750 N/mm <sup>2</sup>	suitable	150 m/min	Р
Steel < 900 N/mm <sup>2</sup>	suitable	120 m/min	Р
Steel < 1100 N/mm <sup>2</sup>	suitable	80 m/min	Р
Steel < 1400 N/mm <sup>2</sup>	suitable	60 m/min	Р
Steel < 55 HRC	suitable	50 m/min	Н
Steel < 60 HRC	suitable only under restricted conditions	30 m/min	н
INOX < 900 N/mm <sup>2</sup>	suitable	80 m/min	M
INOX > 900 N/mm <sup>2</sup>	suitable	60 m/min	M
Ti > 850 N/mm <sup>2</sup>	suitable	50 m/min	S
GRP	suitable	100 m/min	N
CRP	suitable	100 m/min	N
Graphite	suitable	150 m/min	N
Uni	suitable		
wet maximum	suitable		
wet minimum	suitable		
dry	suitable		
Air	suitable		