

Garant

Single tooth thread mill 3×D, TiAlN, M: M4



Order data

Order number	139615 M4
GTIN	4045197585837
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: 3

Thread pitch: 0.7 mm

Nominal \varnothing D_c: 3.15 mm

Shank length L_s: 28 mm

Overhang L₁: 12 mm

Overall length L: 44 mm

Shank \varnothing D_s: 4 mm

Technical description

maximum insertion depth L _c	12 mm
Number of clamping slots	3
No. of teeth Z	3

Thread pitch	0.7 mm
Feed f_z in steel < 1400 N/mm ²	0.02 mm
Shank $\varnothing D_s$	4 mm
Overall length L	44 mm
Feed f_z in CRP	0.04 mm
Shank length L_s	28 mm
Through-coolant	no
Thread depth	12 mm
Thread size	M4
Nominal $\varnothing D_c$	3.15 mm
Overhang L_1	12 mm
Coating	TiAlN
Thread type	M
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	V_c	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 ²	suitable	200 m/min	P
Steel < 750 N/mm ²	suitable	150 m/min	P
Steel < 900 N/mm ²	suitable	120 m/min	P
Steel < 1100 N/mm ²	suitable	80 m/min	P
Steel < 1400 N/mm ²	suitable	60 m/min	P
Steel < 55 HRC	suitable	50 m/min	H
Steel < 60 HRC	suitable only under restricted conditions	30 m/min	H
INOX < 900 N/mm ²	suitable	80 m/min	M
INOX > 900 N/mm ²	suitable	60 m/min	M
Ti > 850 N/mm ²	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		