

GARANT Master TM end cutting thread mill 2.5×D, AlCrN, M: M4



Order data

Order number	139526 M4
GTIN	4067263290629
Item class	11D

Description

Version:

- · Significantly reduced vibrations due to irregular cutting edge spacing.
- · New coating for optimum wear resistance.
- · Cooling grooves on the shank for targeted coolant feed.
- · Corrected thread profile for avoidance of profile distortions.

The special front cutter geometry with unequal spacing permits process-reliable circular thread milling across a wide spectrum of materials. The side cooling grooves on the shank ensure outstanding coolant feed without weakening the tool core and thus offer maximum process reliability even in unstable conditions. All tools have left-hand cutting and are suitable for right-hand and left-hand threads.

Note:

HB and HE shanks are available at the same price as HA.

HB shank: order with No. **139526** + **129100 HB**. **HE shank:** order with No. **139526** + **129100 HE**.

Technical description

Overall length L	58 mm
Programming radius	1.515 mm
Number of clamping slots	4
Thread depth	10
Series	Master TM
Shank length L _s	36 mm
Shank Ø D _s	6 mm

Neck Ø D₁	2.15 mm	
Thread size	M4	
Cutter length I _c	1.4 mm	
Cutting edge Ø D _C	3.1 mm	
Thread pitch	0.7 mm	
Overhang L ₁	10.7 mm	
Feed f_z in steel < 750 N/mm ²	0.02 mm	
Through-coolant	yes	
Coating	AlCrN	
Thread type	M	
Thread type	M-LH	
Flank angle	60 degrees	
Tool material	Solid carbide	
Thread standard	DIN 13	
Shank	DIN 6535 HA to h6	
Number of cutting edges Z	4	
Application for type of drilling	up to 2.5×D for blind holes	
Application for type of drilling	up to 2.5×D for through holes	
Cutting direction	left-hand	
Spacing of the cutters	unequal spacing	
Shank tolerance	h6	
Colour ring	green	
Internal/external application	Internal	
Type of product	Drill thread milling cutters	

User data

	Suitability	V _c	ISO code
Alu plastics	suitable	220 m/min	N



Aluminium (short chipping)	suitable	220 m/min	N
Alu > 10% Si	suitable	180 m/min	N
Steel < 500 N/mm ²	suitable	140 m/min	Р
Steel < 750 N/mm ²	suitable	130 m/min	Р
Steel < 900 N/mm²	suitable	120 m/min	Р
Steel < 1100 N/mm ²	suitable	90 m/min	Р
Steel < 1400 N/mm ²	suitable	80 m/min	Р
TOOLOX 33	suitable	85 m/min	Н
TOOLOX 44	suitable	50 m/min	Н
INOX < 900 N/mm ²	suitable	82 m/min	М
INOX > 900 N/mm ²	suitable	75 m/min	М
Ti > 850 N/mm ²	suitable	50 m/min	S
GG(G)	suitable	120 m/min	K
CuZn	suitable	200 m/min	N
Uni	suitable		
wet maximum	suitable		
Air Services	suitable		

Shank grinding Type HB	129100 HB
Shank grinding Type HE	129100 HE