

GARANT Master TM end cutting thread mill 2.5×D, AlCrN, M: M10



Order data

Order number	139526 M10
GTIN	4067263290667
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.

Can also be used for thread size MF12 \times 1.5.

Technical description

Thread depth	25
Series	Master TM
Programming radius	3.996 mm
Shank length L _s	40 mm
Cutter length I _c	3 mm
Number of clamping slots	4

Overhang L ₁	26.5 mm		
Cutting edge Ø D _c	8.1 mm		
Thread size	M10		
Shank Ø D _s	10 mm		
Thread pitch	1.5 mm		
Overall length L	76 mm		
Neck Ø D ₁	6.05 mm		
Feed f_z in steel < 750 N/mm ²	0.05 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/mm ²	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 HE	129100 HE
Shank grinding Type HB	129100 HB