Garant

GARANT Master TM end cutting thread mill 2.5×D, AlCrN, M: M12



Order data

Order number	139526 M12
GTIN	4067263290674
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

Shank $Ø D_s$	10 mm
Programming radius	4.84 mm
Number of clamping slots	4
Neck Ø D ₁	7.45 mm
Series	Master TM
Thread depth	30

Cutting edge $Ø D_c$	9.8 mm	
Overhang L ₁	31.75 mm	
Cutter length l _c	3.5 mm	
Shank length L _s	40 mm	
Overall length L	76 mm	
Thread pitch	1.75 mm	
Thread size	M12	
Feed f _z in steel < 750 N/mm ²	0.06 mm	
Through-coolant	yes	
Coating	AlCrN	
Thread type	М	
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	Ν
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Data sheet

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Aluminium (short chipping)	suitable	220 m/min	Ν
Alu > 10% Si	suitable	180 m/min	Ν
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/mm²	suitable	50 m/min	S
GG(G)	suitable	120 m/min	К
CuZn	suitable	200 m/min	Ν
Uni	suitable		
wet maximum	suitable		
Air	suitable		
Services			

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