

GARANT Diabolo solid carbide end cutting thread mill 2.5×D, TiAlN, M: M12



Order data

Order number	139524 M12		
GTIN	4067263118039		
Item class	11J		

Description

Version:

Tool for **combined production** of bore, chamfer and thread **in a single work step.** Pre-drilling is no longer required. The innovative centre cutting edge geometry makes this tool a specialist in thread production in **hardened and hard-to-machine materials.** The **TiAlN high-performance coating** ensures the longest possible **tool life**, especially in hardened steels **up to 63 HRC**. All tools have left-hand cutting and are suitable for **right-hand and left-hand threads.**

Note:

Always use with cooling lubricant emulsion. (Fat content minimum 8%). In the case of steels >45 HRC: can only be used with compressed air!

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

Order **HB** shank: with **No. 139524 + 129100 HB**. Order **HE** shank: with **No. 139524 + 129100 HE**.

Technical description

Feed f_z in steel < 65 HRC	0.01 mm		
Shank length L _s	36.2 mm		
Overhang L ₁	32.8 mm		
Neck Ø D ₁	6.92 mm		
Thread size	M12		
Overall length L	72 mm		
Thread pitch	1.75 mm		
Through-coolant	yes		

Data sheet

Cutting edge \emptyset D _C	9 mm		
Thread depth	30		
Shank Ø D _s	10 mm		
Cutter length I _c	4.8 mm		
Number of clamping slots	4		
Programming radius	4.44 mm		
Thread profile	Full profile		
Coating	TiAIN		
Thread type	M		
Thread type	M-LH		
Thread type	EG-M		
Thread type	EG-M-LH		
Flank angle	60 degrees		
Tool material	Solid carbide		
Thread standard	DIN 13		
Shank	DIN 6535 HA with h6		
Number of cutting edges Z	4		
Application for type of drilling	up to 2.5×D for through holes		
Application for type of drilling	up to 2×D for blind holes		
Countersink angle	90 degrees		
Cutting direction	left-hand		
Shank tolerance	h6		
Colour ring	without		
Internal/external application	Internal		
Type of product	Drill thread milling cutters		

User data

	Suitability	V _c	ISO code
Steel < 1100 N/mm ²	suitable	90 m/min	Р

Data sheet

Steel < 1400 N/mm ²	suitable	90 m/min	Р
Steel < 55 HRC	suitable	45 m/min	Н
Steel < 60 HRC	suitable	40 m/min	Н
Steel < 65 HRC	suitable only under restricted conditions	35 m/min	Н
INOX < 900 N/mm ²	suitable	60 m/min	М
INOX > 900 N/mm ²	suitable	60 m/min	М
Ti > 850 N/mm ²	suitable	45 m/min	S
wet maximum	suitable		
Air Suitable products	suitable		

Suitable products

https://www.hoffmann-group.com/GB/en/hom/p/139524-M12