

GARANT Diabolo solid carbide end cutting thread mill 2×D, TiAlN, G: G3/8



Order data

Order number	139527 G3/8
GTIN	4067263118084
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 **TiAIN 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.**

Application:

For **Whitworth parallel pipe threads** DIN-ISO 228/1 (threads that do not form a seal within the connections).

Note:

Always use with cooling lubricant emulsion. (Fat content min 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. 139527 + 129100 HB**.

Order HE shank: with No. 139527 + 129100 HE.

Technical description

Number of clamping slots	4
Feed f_z in steel < 65 HRC	0.01 mm
Shank Ø D _s	12 mm
Threads per inch	19
Cutting edge \emptyset D_c	11.8 mm
Through-coolant	yes

Shank length L _s	44.5 mm		
Thread depth	37		
Overhang L ₁	37 mm		
Programming radius	5.9 mm		
Neck Ø D ₁	9.76 mm		
Overall length L	83 mm		
Cutter length I _c	4.5 mm		
Thread size	G3/8		
Thread pitch	1.337 mm		
Coating	TiAIN		
Thread type	BSP		
Thread type	G		
Flank angle	55 degrees		
Tool material	Solid carbide		
Shank	DIN 6535 HA with h6		
Number of cutting edges Z	4		
Application for type of drilling	up to 2×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		
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
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		

Services

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