

GARANT Master TM plain shank thread mill with countersink 2×D, TiAlN, M: M12



Order data

Order number	139653 M12
GTIN	4045197957795
Item class	11D

Description

Version:

Solid carbide thread milling cutters with irregular cutting edge spacing and an increased number of cutting edges. Due to the irregular cutting edge spacing they achieve very smooth running and long tool life.

Newly developed universal geometry and **high-performance coating** for use across a wide spectrum of materials.

- · Significantly reduced vibration due to irregular cutting edge spacing
- · Increased number of cutting edges
- · New coating for optimum wear resistance
- · Corrected thread profile for avoidance of profile distortions

Advantage:

Incorporating a countersink profile for a 90° countersink and thread milling in a single operation.

Note:

Form HB and HE supplied at the same price as HA.

Form **HB**: order with **No. 139656 + 129100 HB**

Form **HE**: order with **No. 139656 + 129100 HE**

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Through-coolant: yes

No. of teeth Z: 6

Thread pitch: 1.75 mm Nominal Ø D_c: 9.8 mm Shank length L_s: 45 mm Overall length L: 94 mm Shank Ø D_s: 14 mm

maximum countersink \emptyset D₁: 12.5 mm

Technical description

Overall length L	94 mm
Shank length L _s	45 mm
Feed f_z in steel < 750 N/mm ²	0.09 mm
Programming value for countersink I_1	26.73 mm
No. of teeth Z	6
Thread pitch	1.75 mm
maximum countersink \emptyset D ₁	12.5 mm
Shank Ø D _s	14 mm
Through-coolant	yes
Number of clamping slots	6
Thread depth	24 mm
Thread size	M12
Nominal Ø D _c	9.8 mm
Coating	TiAIN
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
Application for type of drilling	up to 2×D for blind holes and through holes
Spacing of the cutters	unequal spacing
Countersink angle	90 degrees
Shank tolerance	h6
Colour ring	green

Internal/external application	Indvendig
Series	GARANT Master TM
Type of product	thread milling cutter
Services	
Shank grinding Type HE	129100 HE
Shank grinding Type HB	129100 HB