Garant

GARANT Master TM plain shank thread mill with countersink 2.5×D, TiAlN, MF: 5X0,5



Order data

Order number	139683 5X0,5
GTIN	4045197957993
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:**

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

Order **HB** shank: with **No. 139683 + 129100 HB**

Order HE shank: with No. 139683 + 129100 HE

Technical description

Feed f _z in steel < 750 N/mm ²	0.035 mm
Number of clamping slots	4
Thread depth	13.25 mm
Overall length L	64 mm

Shank length L _s	36 mm	
No. of teeth Z	4	
Thread pitch	0.5 mm	
Through-coolant	yes	
Shank Ø D₅	6 mm	
Thread size	M5×0.5	
Nominal Ø D _c	4.1 mm	
Flute length L _c	13.25 mm	
Programming value for countersink L ₁	13.95 mm	
Neck Ø D ₁	5.5 mm	
Coating	TiAIN	
Thread type	MF	
Thread type	MF-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	
Application for type of drilling	up to 2.5×D for through holes	
Spacing of the cutters	unequal spacing	
Countersink angle	90 degrees	
Colour ring	green	
Internal/external application	Internal	
Series	Master TM	
Type of product	thread milling cutter	

User data

	Suitability	V _c	ISO code
Alu plastics	suitable	200 m/min	Ν

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Data sheet

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Aluminium (short chipping)	suitable	190 m/min	Ν
Alu > 10% Si	suitable	160 m/min	Ν
Steel < 500 N/mm ²	suitable	125 m/min	Р
Steel < 750 N/mm ²	suitable	115 m/min	Р
Steel < 900 N/mm ²	suitable	110 m/min	Р
Steel < 1100 N/mm ²	suitable	80 m/min	Р
Steel < 1400 N/mm ²	suitable	70 m/min	Р
INOX < 900 N/mm ²	suitable	75 m/min	М
INOX > 900 N/mm ²	suitable	70 m/min	М
Ti > 850 N/mm²	suitable	45 m/min	S
GG(G)	suitable	105 m/min	К
CuZn	suitable	175 m/min	Ν
Uni	suitable		
wet maximum	suitable		
wet minimum	suitable		
Air Services	suitable		

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