Garant

GARANT Master TM plain shank thread mill 2×D, TiAlN, MF: 12X1,5



Order data

Order number	139665 12X1,5
GTIN	4045197957641
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.
- $\cdot\,$ Corrected thread profile for avoidance of profile distortions.

Through-coolant feed \ge 4×0.5

Note:

HB and HE shanks are available at the same price as HA. Order **HB** shank: with **No. 139665 + 129100 HB**. Order **HE** shank: with **No. 139665 + 129100 HE**.

Technical description

Overall length L	82 mm
Feed f _z in steel < 750 N/mm ²	0.09 mm
Number of clamping slots	6
Shank length L _s	40 mm
Shank Ø D _s	10 mm
No. of teeth Z	б

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Through-coolant	yes	
Thread depth	24.75 mm	
Thread pitch	1.5 mm	
Thread size	M12×1	
Nominal Ø D _c	9.95 mm	
Flute length L_c	24.75 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×D for through holes	
Spacing of the cutters	unequal spacing	
Colour ring	green	
Internal/external application	Indvendig	
Series	Master TM	
Type of product	thread milling cutter	

User data

	Suitability	V _c	ISO code
Alu plastics	suitable	220 m/min	Ν
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

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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
Steel < 55 HRC	suitable only under restricted conditions	45 m/min	Н
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		
wet minimum	suitable		
Air Services	suitable		

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