

Garant
GARANT Master TM plain shank thread mill 2×D, AlTiN, UNC: 5/16-18

Order data

Order number	139732 5/16-18
GTIN	4067263128984
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.**
- **The latest generation of AlTiN-based HiPIMS coating.**
- **Corrected thread profile for avoidance of profile distortions.**

Application:

For **UNC unified coarse threads** ASME-B1.1.

Note:

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

Order **HB** shank: with **No. 139732 + 129100 HB**

Order **HE** shank: with **No. 139732 + 129100 HE**

Technical description

Thread Ø	7.94 mm
Feed f_z in steel < 750 N/mm ²	0.06 mm
Flute length L_c	16.18 mm
Thread pitch	1.411 mm
Shank Ø D_s	6 mm

No. of teeth Z	4
Number of clamping slots	4
Nominal $\varnothing D_c$	5.95 mm
Thread size	5/16-18 UNC
Threads per inch	18
Shank length L_s	38 mm
Thread type	UNC-LH
Thread type	UNC
Overall length L	64 mm
Series	Master TM
Coating	AlTiN
Flank angle	60 degrees
Tool material	Solid carbide
Shank	DIN 6535 HA to h6
Through-coolant	yes
Cutting direction	left-hand
Application for type of drilling	up to 2xD for through holes
Application for type of drilling	up to 2xD for blind holes
Spacing of the cutters	unequal spacing
Shank tolerance	h6
Colour ring	green
Internal/external application	Internal
Type of product	thread milling cutter

User data

	Suitability	V_c	ISO code
Alu plastics	suitable	220 m/min	N
Aluminium (short chipping)	suitable	220 m/min	N

Alu > 10% Si	suitable	180 m/min	N
Steel < 500 N/mm ²	suitable	140 m/min	P
Steel < 750 N/mm ²	suitable	130 m/min	P
Steel < 900 N/mm ²	suitable	120 m/min	P
Steel < 1100 N/mm ²	suitable	90 m/min	P
Steel < 1400 N/mm ²	suitable	80 m/min	P
Steel < 50 HRC	suitable only under restricted conditions	45 m/min	H
TOOLOX 33	suitable	85 m/min	H
TOOLOX 44	suitable	50 m/min	H
INOX < 900 N/mm ²	suitable	82 m/min	M
INOX > 900 N/mm ²	suitable	75 m/min	M
Ti > 850 N/mm ²	suitable	50 m/min	S
GG(G)	suitable	120 m/min	K
CuZn	suitable	200 m/min	N
Uni	suitable		
wet maximum	suitable		
wet minimum	suitable		
Air	suitable		

Services

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