

Garant
GARANT Master TM plain shank thread mill 2×D, TiAlN, MF: 18X1,5

Order data

Order number	139665 18X1,5
GTIN	4045197957672
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.**

Through-coolant feed $\geq 4 \times 0.5$

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

Shank $\varnothing D_s$	16 mm
Shank length L_s	48 mm
Thread depth	36.75 mm
No. of teeth Z	6
Thread pitch	1.5 mm
Overall length L	106 mm

Through-coolant	yes
Number of clamping slots	6
Feed f_z in steel < 750 N/mm ²	0.11 mm
Thread size	M18×1.5
Nominal $\varnothing D_c$	15.9 mm
Flute length L_c	36.75 mm
Coating	TiAlN
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	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 < 55 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 HE	129100 HE
Shank grinding Type HB	129100 HB