

Garant
GARANT Master TM plain shank thread mill 2×D, TiAlN, MF: 20X1,5

Order data

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|--------------|---------------|
| Order number | 139665 20X1,5 |
| GTIN | 4045197957689 |
| 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:

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

Form **HB**: order with **No. 139665 + 129100 HB**

Form **HE**: order with **No. 139665 + 129100 HE**

Through-coolant: yes

No. of teeth Z: 6

Thread pitch: 1.5 mm

Nominal $\varnothing D_c$: 15.95 mm

maximum insertion depth L_1 : 41.25 mm

Shank length L_s : 48 mm

Overall length L: 106 mm

Shank $\varnothing D_s$: 16 mm

Technical description

| | |
|--------------------|-------|
| Shank length L_s | 48 mm |
|--------------------|-------|

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|--|---|
| Thread depth | 40 mm |
| Number of clamping slots | 6 |
| Thread pitch | 1.5 mm |
| Shank $\varnothing D_s$ | 16 mm |
| Overall length L | 106 mm |
| Feed f_z in steel $< 750 \text{ N/mm}^2$ | 0.13 mm |
| maximum insertion depth L_1 | 41.25 mm |
| No. of teeth Z | 6 |
| Through-coolant | yes |
| Thread size | M20×1.5 |
| Nominal $\varnothing D_c$ | 15.95 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 and through holes |
| Spacing of the cutters | unequal spacing |
| Colour ring | green |
| Internal/external application | Indvendig |
| Series | GARANT Master TM |
| Type of product | thread milling cutter |

Services

| | |
|------------------------|-----------|
| Shank grinding Type HB | 129100 HB |
| Shank grinding Type HE | 129100 HE |

