

**Garant**
**GARANT Master Titan solid carbide high-performance reamer HPC through hole, TiAlN, Nominal Ø DC: 20mm**

**Order data**

Order number	164410 20
GTIN	4062406698355
Item class	10P

**Description**
**Version:**

**Special HPC reamers** of the latest generation, for **machining titanium**, with improved tooth geometry and further developed carbide substrate. Extra-short cutting edge for increased cutting performance values. Optimised cooling strategy with radially arranged coolant outlets aligned directly to the teeth.

**Version suitable for NC** with straight shank dia. for standard arbors especially in **hydraulic chucks** or **high precision collet chucks**. Very high concentricity and process reliability thanks to unequal spacing of the teeth and special profile of the round chamfer width.

**Tolerance specifications:**

**Configurable:** Reamers finish ground to match your specification.

**Application:**

Special version for through holes.

**Note:**

Delivery time: 4 weeks.

**Technical description**

Feed f in titanium > 850 N/mm <sup>2</sup>	0.6 mm/rev.
Shank Ø D <sub>s</sub>	20 mm
Overhang L <sub>1</sub>	100 mm
Number of cutting edges Z	6
Ø range	19.201 - 20.2 mm
Overall length L	150 mm

Flute length $L_c$	15 mm
Series	Master Titan
Tolerance	Configurable
Nominal $\varnothing D_c$	20 mm
Reaming oversize in diameter	0.2 mm
Coating	TiAlN
Tool material	HSS
Standard	Manufacturer's standard
Through-coolant	yes, with 25 bar
Shank	DIN 6535 HA with h6
Machining strategy	HPC
Application for type of drilling	for through holes
Colour ring	green
Type of product	Reaming tool with non-detachable cutters

## User data

	Suitability	$V_c$	ISO code
Ti > 850 N/mm <sup>2</sup>	suitable		
wet maximum	suitable		