

Garant
Solid carbide reamers HPC through hole, TiAlN, Nominal Ø DC: 20mm

Order data

Order number	164362 20
GTIN	4045197445919
Item class	10N

Description
Version:

Version suitable for NC with straight shank Ø for standard arbors especially in **hydraulic chucks** or **high precision collet chucks**. For **highest concentricity** and **process reliability**. No need to procure special collets. With internal coolant supply for **HPC applications** to reduce manufacturing costs.

Reamer manufacturing tolerances:

whole number sizes and Ø 0.5: H7 to DIN 1420

1/100 sizes Ø 3.97 – 12.03: +0.004/0

With short flutes and left-hand helix.

Application:

For **HPC/HSM reaming** of **through holes**.

Note:

NEW GENERATION AVAILABLE!

Recommended successor product is No. 164420.

Application for type of drilling: for through holes

Bore Ø tolerance: H7

Number of cutting edges Z: 8

Bore Ø tolerance: H7

Flute length L_c : 25 mm

Overhang L_1 : 95 mm

Overall length L: 150 mm

Number of cutting edges Z: 8

Shank Ø D_s : 20 mm

Technical description

Shank tolerance	h6
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Overhang L_1	95 mm
Feed f in steel $< 1100 \text{ N/mm}^2$	1.1 mm/rev.
Nominal $\varnothing D_c$	20 mm
Shank $\varnothing D_s$	20 mm
Overall length L	150 mm
Flute length L_c	25 mm
Number of cutting edges Z	8
recommended drill \varnothing in steel $< 1100 \text{ N/mm}^2$	19.8 mm
Bore \varnothing tolerance	H7
Coating	TiAlN
Tool material	Solid carbide
Standard	Manufacturer's standard
Through-coolant	yes
Shank	DIN 6535 HA with h6
Machining strategy	HPC
Application for type of drilling	for through holes
Colour ring	green
Type of product	Phillips bit

User data

	Suitability	V_c	ISO code
Steel $< 750 \text{ N/mm}^2$	suitable	150 m/min	P
Steel $< 900 \text{ N/mm}^2$	suitable	120 m/min	P
Steel $< 1100 \text{ N/mm}^2$	suitable	120 m/min	P
GG	suitable	80 m/min	K
GGG	suitable	60 m/min	K
Uni	suitable		
wet maximum	suitable		
wet minimum	suitable		

