

**Garant**
**Solid carbide reamer HPC through hole, TiAlN, Nominal Ø DC: 13mm**

**Order data**

Order number	164350 13
GTIN	4045197328571
Item class	10N

**Description**
**IMPORTANT: item is configurable**

 Nominal Ø D<sub>c</sub>: 13 mm

Ø range: 12.21 - 13.2 mm, Intervall: 0,001

**Version:**

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

**Reamers finish ground to match your specifications.**

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

Number of cutting edges Z: 6

Ø range: 12.21 - 13.2 mm

 Flute length L<sub>c</sub>: 22 mm

 Overhang L<sub>1</sub>: 80 mm

Overall length L: 130 mm

Number of cutting edges Z: 6

 Shank Ø D<sub>s</sub>: 14 mm

**Technical description**

Shank tolerance	h6
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Overhang $L_1$	80 mm
Feed $f$ in stainless steel $< 900 \text{ N/mm}^2$	0.2 mm/rev.
Nominal $\varnothing D_c$	13 mm
Shank $\varnothing D_s$	14 mm
Overall length $L$	130 mm
Flute length $L_c$	22 mm
$\varnothing$ range	12.21 - 13.2 mm
Number of cutting edges $Z$	6
Coating	TiAlN
Tool material	Solid carbide
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	blue
Type of product	Phillips bit

## User data

	Suitability	$V_c$	ISO code
INOX $< 900 \text{ N/mm}^2$	suitable	30 m/min	M
INOX $> 900 \text{ N/mm}^2$	suitable	25 m/min	M
Oil	suitable		
wet maximum	suitable		