

**Garant**
**Solid carbide reaming head HPC H7 steel Through hole, TiAlN, Nominal Ø D: 21mm**

**Order data**

Order number	239720 21
GTIN	4045197575791
Item class	23A

**Description**
**Version:**

Interchangeable head reamer system **finish ground for fit IT7**. Cutter geometry matched to the application.

**System concentricity  $\leq 5 \mu\text{m}$  (depending on the head and holder) when mounted.**

With short flutes and left-hand helix.

**Application:**

**For through holes.**

For HPC/HSC reaming.

**Note:**

**Total usable length** =  $L_1$  (arbor No. 239740 / 239745) +  $l$  (interchangeable head No. 239710 to 239720).

Suitable assembly wrench No. 219987. Insert for torque wrench No. 219986.

Further sizes available on request.

**Technical description**

Head length $l$	26 mm
Number of cutting edges $Z$	8
Nominal $\varnothing D$	21 mm
Feed $f$ in steel $< 1100 \text{ N/mm}^2$	1.2 mm/rev.
Cutter length $l_1$	14 mm

Arbor size	16 mm
Width across flats	13 mm
Series	TopCut
Coating	TiAlN
Tool material	Solid carbide
Standard	Manufacturer's standard
Hole tolerance	H7
Application for type of drilling	for blind holes
Machining strategy	HPC
Through-coolant	yes
Semi-Standard	yes
suitable arbor	GARANT TopCut
Type of product	Cutter insert for reaming

## User data

	Suitability	$V_c$	ISO code
Steel < 750 N/mm <sup>2</sup>	suitable	120 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	120 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	120 m/min	P
GG	suitable	80 m/min	K
GGG	suitable	60 m/min	K
wet maximum	suitable		
wet minimum	suitable		