



## Machine reamer configurable, uncoated, Nominal $\varnothing$ DC: 21 mm



### Order data

Order number	164180 21
GTIN	4045197092496
Item class	120

### Description

#### Version:

#### Reamers finish ground to match your specification.

Even number of teeth with irregular spacing. The hole is accurately round and free of chatter marks. The cylindrical ground land on the plain cutting section smooths the hole and guides the reamer. With Morse taper shank.

#### Application:

For reaming through holes, as the chips are evacuated in the cutting direction. Also suitable for blind holes due to the short chamfer lead.

#### Note:

For suitable reducing adapters for tools with MT shanks see **No. 343000-343530**.

For **H7 fits** see No. 164000.

### Technical description

Nominal $\varnothing$ D <sub>c</sub>	21 mm
Overhang L <sub>1</sub>	151 mm
Feed f in steel < 750 N/mm <sup>2</sup>	0.25 mm/rev.
Morse taper MT size	2
Overall length L	232 mm
Flute length L <sub>c</sub>	62 mm
$\varnothing$ range	20.01 - 21.2 mm
Number of cutting edges Z	8
Reaming oversize in diameter	0.2 - 0.3 mm

Coating	uncoated
Tool material	HSS E
Standard	DIN 208 B
Helix angle	7-8 degrees
Through-coolant	no
Shank	Morse taper
Application for type of drilling	for through hole
Colour ring	without
Type of product	Phillips bit

### User data

	Suitability	V <sub>c</sub>	ISO code
Aluminium	suitable	20 m/min	N
Aluminium (short chipping)	suitable	20 m/min	N
Steel < 500 N/mm <sup>2</sup>	suitable	15 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	10 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	7 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	5 m/min	P
Steel < 1400 N/mm <sup>2</sup>	suitable only under restricted conditions	4 m/min	P
INOX < 900 N/mm <sup>2</sup>	suitable	5 m/min	M
INOX > 900 N/mm <sup>2</sup>	suitable only under restricted conditions	5 m/min	M
Ti > 850 N/mm <sup>2</sup>	suitable only under restricted conditions	5 m/min	S
GG(G)	suitable only under restricted conditions	5 m/min	K
Cu	suitable only under restricted conditions	13 m/min	N
Oil	suitable		

wet maximum

suitable