Garant

Solid carbide NC machine reamer Configurable, TiAlN, Nominal ∅ DC: 12mm

Order data

Order number	164344 12
GTIN	4045197857682
Item class	10N

Description

Version:
Version suitable for NC DIN 8093-2 **with straight shank** ∅ for **standard chucking** especially in **hydraulic chucks** or **high precision collet chucks.** This ensures **very high concentricity** and **process reliability**,
The use of GARANT-NC reamers eliminates the need to procure special collets. With long flutes and left-hand helix.
Reamers finish ground to match your specification.
Application:
For reaming through holes, as the chips are evacuated in the cutting direction. Lead taper is suitable also for blind holes.
Note:
For H7 fit see No. 164340 and 164341.

Technical description

Flute length L_c	44 mm
Shank tolerance	h6
Number of cutting edges Z	6
Overall length L	151 mm
Nominal ∅ D_C	12 mm
Shank ∅ D_s	12 mm
Feed f in steel < 1100 N/mm^2	0.18 mm/rev.
Overhang L_1	104 mm

∅ range	11.81 - 12.2 mm
Reaming oversize in diameter	0.1 - 0.2 mm
Coating	TiAlN
Tool material	Solid carbide
Standard	DIN 8093
Through-coolant	no
Shank	DIN 6535 HA to h6
Application for type of drilling	for through hole
Colour ring	green
Type of product	Phillips bit

User data

	Suitability	V_c	ISO code
Aluminium	suitable	35 m/min	N
Aluminium (short chipping)	suitable	30 m/min	N
Alu > 10% Si	suitable only under restricted conditions	25 m/min	N
Steel < 500 N/mm²	suitable	30 m/min	P
Steel < 750 N/mm²	suitable	25 m/min	P
Steel < 900 N/mm²	suitable	20 m/min	P
Steel < 1100 N/mm²	suitable	15 m/min	P
Steel < 1400 N/mm²	suitable	10 m/min	P
INOX < 900 N/mm²	suitable	15 m/min	M
INOX > 900 N/mm²	suitable	12 m/min	M
Ti > 850 N/mm²	suitable only under restricted conditions	10 m/min	S
GG(G)	suitable	10 m/min	K
CuZn	suitable	25 m/min	N
Uni	suitable		

wet maximum	suitable