

Garant**NC reamer, uncoated, Nominal Ø DC: 4,51mm****Order data**

Order number	162902 4,51
GTIN	4062406139087
Item class	110

Description**Version:****Reamers such as 162900, but in 1/100 sizes.****Version suitable for NC** similar to DIN 212 **with straight shank Ø** for **standard chucking** especially in **hydraulic chucks** or **high precision collet chucks**. For **highest concentricity** and **process reliability**. **No need to order special collets**.

With long flutes and left-hand helix.

Tolerance specifications:Size 1.01 – 5.5: Manufacturing or cutting edge tolerance **0 / +0.004 mm**.Size 5.51 – 12.05: Manufacturing or cutting edge tolerance **0 / +0.005 mm**.**Ordering example:**

Desired dia. 6.24 mm – ordering particulars: article number 162902 6.24.

The 6.24 mm reamer with tolerance 0 / +0.005 mm is supplied.

Depending on availability, delivery time is from stock or max. 1 working week.

To determine which diameter you need for your desired fit, please see the following table (page 231). Often one reamer also covers further fits, since the tolerance bands overlap.

Note:Reamers in whole number sizes and 1/10 sizes for **H7 fit** see **No. 162900**.For reamers with diameters and **fits to specification** see **No. 162951**.**Technical description**

Flute length L_c	21 mm
Nominal Ø D_c	4.51 mm
Overall length L	80 mm
Number of cutting edges Z	6

Feed f in steel $< 750 \text{ N/mm}^2$	0.15 mm/rev.
Shank $\varnothing D_s$	5 mm
Tolerance	0 / 0.004
Overhang L_1	51 mm
Reaming oversize in diameter	0.1 mm
Coating	uncoated
Tool material	HSS E
Standard	Manufacturer's standard
Through-coolant	no
Shank	DIN 1835 A to h6
Application for type of drilling	for through holes
Colour ring	green
Type of product	Phillips bit

User data

	Suitability	V_c	ISO code
Aluminium	suitable	20 m/min	N
Aluminium (short chipping)	suitable	20 m/min	N
Steel $< 500 \text{ N/mm}^2$	suitable	15 m/min	P
Steel $< 750 \text{ N/mm}^2$	suitable	10 m/min	P
Steel $< 900 \text{ N/mm}^2$	suitable	7 m/min	P
Steel $< 1100 \text{ N/mm}^2$	suitable	5 m/min	P
Steel $< 1400 \text{ N/mm}^2$	suitable only under restricted conditions	4 m/min	P
INOX $< 900 \text{ N/mm}^2$	suitable	5 m/min	M
INOX $> 900 \text{ N/mm}^2$	suitable only under restricted conditions	5 m/min	M
Ti $> 850 \text{ N/mm}^2$	suitable only under restricted conditions	5 m/min	S

GG(G)	suitable only under restricted conditions	5 m/min	K
CuZn	suitable only under restricted conditions	13 m/min	N
Uni	suitable		
Oil	suitable		
wet maximum	suitable		