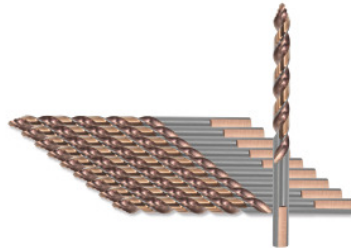


Garant**Jobber drill with stepped tip HSS N, uncoated, Ø DC h8: 4,5mm****Order data**

Order number	GG4005 4,5
GTIN	4067263133506
Item class	GGN

Description**Version:****Same as No. 114004.**

Chamfers are nitrided. Particularly sturdy and robust due to the **strengthened core diameter**. Ground flutes, with high concentricity. Precision ground point. Three **drive flats on the shank** for use in a 3-jaw chuck.

- **Ideal for producing precise holes in sheet metal, pipes, and profiles.**
- **Reliable spot drilling without centring or centre punching – even on curved surfaces – thanks to innovative ground point.**
- **Oblique drilling possible without any problems after the first level of the drill tip has penetrated the material.**
- **Drilling with significantly less force required than with conventional DIN338 HSS drills – up to a diameter of 13 mm directly in the cordless drill/driver.**
- **Stable and secure form fit in the 3-jaw chuck.**
- **General use across a wide spectrum of materials including plastic, wood and acrylic without tearing or splintering.**
- **The drill does not rattle or dig in – even in the case of thin-walled materials.**
- **Burr-free drill exit.**
- **Ideal for drilling out bolts and rivets.**

With special cutter geometry also for use in stainless steels.

Recommendation:**Maximum drilling depth:**

$$L_2 = L_c - 1.5 \times D_c$$

Technical description

Nominal $\varnothing D_c$	4.5 mm
Flute length L_c	47 mm
Shank	Three drive flats shank
Overall length L	80 mm
Point angle	118 degrees
Shank $\varnothing D_s$	4.5 mm
Standard	DIN 338
recommended maximum drilling depth L_2	40.3 mm
Feed f in steel $< 750 \text{ N/mm}^2$	0.08 mm/rev.
Tolerance nominal \varnothing	h8
Number of cutting edges Z	2
Coating	uncoated
Tool material	HSS
Type	N
Through-coolant	no
Colour ring	without
Type of product	Twist Drill

User data

	Suitability	V_c	ISO code
Alu plastics	suitable only under restricted conditions	70 m/min	N
Aluminium (short chipping)	suitable only under restricted conditions	70 m/min	N
Alu $> 10\% \text{ Si}$	suitable only under restricted conditions	50 m/min	N
Steel $< 500 \text{ N/mm}^2$	suitable	30 m/min	P

Steel < 750 N/mm ²	suitable	27 m/min	P
Steel < 900 N/mm ²	suitable	22 m/min	P
Steel < 1100 N/mm ²	suitable only under restricted conditions	10 m/min	P
GG(G)	suitable	25 m/min	K
CuZn	suitable only under restricted conditions	50 m/min	N
Oil	suitable		
wet maximum	suitable		

Accessories

Jobber drill with stepped tip HSSN Ø DC h8 4,5 mm

114004 4,5