

Garant

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



Order data

Order number	114004 4,5
GTIN	4062406877385
Item class	11Q

Description

Version:

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.**

Recommendation:

Maximum drilling depth:

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

Technical description

recommended maximum drilling depth L_2	40.3 mm
Number of cutting edges Z	2
Nominal Ø D_c	4.5 mm

Flute length L_c	47 mm
Tolerance nominal \varnothing	h8
Standard	DIN 338
Feed f in steel $< 750 \text{ N/mm}^2$	0.08 mm/rev.
Shank $\varnothing D_s$	4.5 mm
Point angle	118 °
Overall length L	80 mm
Shank	Three drive flats shank
Coating	uncoated
Tool material	HSS
Type	N
Through-coolant	no
Colour ring	without
Type of product	Jobber 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	45 m/min	N
Alu $> 10\% \text{ Si}$	suitable only under restricted conditions	40 m/min	N
Steel $< 500 \text{ N/mm}^2$	suitable	40 m/min	P
Steel $< 750 \text{ N/mm}^2$	suitable	30 m/min	P
Steel $< 900 \text{ N/mm}^2$	suitable	25 m/min	P
Steel $< 1100 \text{ N/mm}^2$	suitable only under restricted conditions	10 m/min	P
GG(G)	suitable	25 m/min	K

CuZn	suitable only under restricted conditions
Oil	suitable
wet maximum	suitable