

## Garant

### Jobber drill with stepped tip HSS-E Stainless steel, uncoated, Ø DC h8: 13mm



#### Order data

Order number	114008 13
GTIN	4062406877262
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.**

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

Flute length $L_c$	101 mm
Standard	DIN 338

recommended maximum drilling depth $L_2$	81.5 mm
Feed $f$ in steel $< 750 \text{ N/mm}^2$	0.2 mm/rev.
Overall length $L$	151 mm
Tolerance nominal $\varnothing$	h8
Nominal $\varnothing D_c$	13 mm
Point angle	118°
Number of cutting edges $Z$	2
Shank $\varnothing D_s$	13 mm
Shank	Three drive flats shank
Coating	uncoated
Tool material	HSS E
Type	INOX
Through-coolant	no
Colour ring	blue
Type of product	Jobber drill

## User data

	Suitability	$V_c$	ISO code
Alu plastics	suitable only under restricted conditions		
Aluminium (short chipping)	suitable only under restricted conditions		
Alu $> 10\% \text{ Si}$	suitable only under restricted conditions		
Steel $< 500 \text{ N/mm}^2$	suitable		
Steel $< 750 \text{ N/mm}^2$	suitable		
Steel $< 900 \text{ N/mm}^2$	suitable		
Steel $< 1100 \text{ N/mm}^2$	suitable only under restricted conditions		
INOX $< 900 \text{ N/mm}^2$	suitable		

INOX > 900 N/mm <sup>2</sup>	suitable		
GG(G)	suitable	30 m/min	K
CuZn	suitable		
Oil	suitable		
wet maximum	suitable		