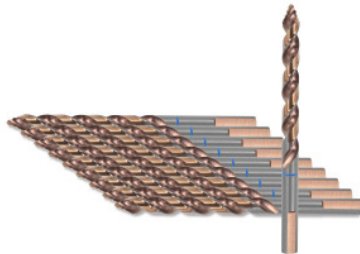


**Garant****Jobber drill with stepped tip HSS-E INOX, uncoated, Ø DC h8: 12mm****Order data**

Order number	GG4009 12
GTIN	4067263134046
Item class	GGN

**Description****Version:****Same as No. 114008.**

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

recommended maximum drilling depth $L_2$	83 mm
Flute length $L_c$	101 mm
Shank $\varnothing D_s$	12 mm
Number of cutting edges Z	2
Feed f in steel < 750 N/mm <sup>2</sup>	0.2 mm/rev.
Shank	Three drive flats shank
Tolerance nominal $\varnothing$	h8
Standard	DIN 338
Nominal $\varnothing D_c$	12 mm
Overall length L	151 mm
Point angle	118 degrees
Coating	uncoated
Tool material	HSS E
Type	INOX
Through-coolant	no
Colour ring	blue
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% Si	suitable only under restricted conditions	50 m/min	N
Steel < 500 N/mm <sup>2</sup>	suitable	35 m/min	P

Steel < 750 N/mm <sup>2</sup>	suitable	32 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	25 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable only under restricted conditions	15 m/min	P
INOX < 900 N/mm <sup>2</sup>	suitable	14 m/min	M
INOX > 900 N/mm <sup>2</sup>	suitable	12 m/min	M
GG(G)	suitable	30 m/min	K
CuZn	suitable	50 m/min	N
Oil	suitable		
wet maximum	suitable		

## Accessories

Jobber drill with stepped tip HSS-EStainless steel Ø DC h8  
12 mm

114008 12