

**Garant****Jobber drill set HSS-E with stepped tip No. 114008 with case, uncoated, Type: 1-13****Order data**

Order number	114018 1-13
GTIN	4062406877637
Item class	11Q

**Description****Version:**

Composed of jobber drills DIN 338.

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 spot drilling after the first level of the drill tip has penetrated into the material without any problems.**
- **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.**

**Note:**

Ø 1 - 3.5 mm: Drills with plain shank, **without drive flats.**

**Technical description**

Number of drills	25
Incremental steps of drills	0.5 mm
Number of cutting edges Z	2
Drill range	1 - 13 mm
Coating	uncoated
Tool material	HSS E
Standard	DIN 338
Type	INOX
Tolerance nominal Ø	h8
Point angle	118°
Through-coolant	no
Colour ring	blue
Type of product	Jobber drill

**User data**

	Suitability	V <sub>c</sub>	ISO code
Alu plastics	suitable only under restricted conditions		
Aluminium (short chipping)	suitable only under restricted conditions		
Alu > 10% Si	suitable only under restricted conditions		
Steel < 500 N/mm <sup>2</sup>	suitable		
Steel < 750 N/mm <sup>2</sup>	suitable		
Steel < 900 N/mm <sup>2</sup>	suitable		

Steel < 1100 N/mm <sup>2</sup>	suitable only under restricted conditions		
INOX < 900 N/mm <sup>2</sup>	suitable		
INOX > 900 N/mm <sup>2</sup>	suitable		
GG(G)	suitable	30 m/min	K
CuZn	suitable		
Oil	suitable		
wet maximum	suitable		

## Accessories

Jobber drill with stepped tip HSS-EStainless steel Ø DC h8 4 mm	114008 4
Jobber drill with stepped tip HSS-EStainless steel Ø DC h8 5 mm	114008 5
Jobber drill with stepped tip HSS-EStainless steel Ø DC h8 1,5 mm	114008 1,5
Jobber drill with stepped tip HSS-EStainless steel Ø DC h8 8 mm	114008 8
Jobber drill with stepped tip HSS-EStainless steel Ø DC h8 6 mm	114008 6
Jobber drill with stepped tip HSS-EStainless steel Ø DC h8 6,5 mm	114008 6,5
Jobber drill with stepped tip HSS-EStainless steel Ø DC h8 5,5 mm	114008 5,5
Jobber drill with stepped tip HSS-EStainless steel Ø DC h8 7 mm	114008 7
Jobber drill with stepped tip HSS-EStainless steel Ø DC h8 2,5 mm	114008 2,5
Jobber drill with stepped tip HSS-EStainless steel Ø DC h8 11,5 mm	114008 11,5
Jobber drill with stepped tip HSS-EStainless steel Ø DC h8 2 mm	114008 2

Jobber drill with stepped tip HSS-EStainless steel Ø DC h8 7,5 mm	114008 7,5
Jobber drill with stepped tip HSS-EStainless steel Ø DC h8 4,5 mm	114008 4,5
Jobber drill with stepped tip HSS-EStainless steel Ø DC h8 12 mm	114008 12
Jobber drill with stepped tip HSS-EStainless steel Ø DC h8 1 mm	114008 1
Jobber drill with stepped tip HSS-EStainless steel Ø DC h8 13 mm	114008 13
Jobber drill with stepped tip HSS-EStainless steel Ø DC h8 12,5 mm	114008 12,5
Jobber drill with stepped tip HSS-EStainless steel Ø DC h8 10 mm	114008 10
Jobber drill with stepped tip HSS-EStainless steel Ø DC h8 3,5 mm	114008 3,5
Jobber drill with stepped tip HSS-EStainless steel Ø DC h8 9,5 mm	114008 9,5
Jobber drill with stepped tip HSS-EStainless steel Ø DC h8 9 mm	114008 9
Jobber drill with stepped tip HSS-EStainless steel Ø DC h8 10,5 mm	114008 10,5
Jobber drill with stepped tip HSS-EStainless steel Ø DC h8 3 mm	114008 3
Jobber drill with stepped tip HSS-EStainless steel Ø DC h8 8,5 mm	114008 8,5
Jobber drill with stepped tip HSS-EStainless steel Ø DC h8 11 mm	114008 11