

Garant**Jobber drill set HSS-E No. 114001 with case, uncoated, Type: 1-10,5****Order data**

Order number	114010 1-10,5
GTIN	4045197765352
Item class	11B

Description**Version:**

Composed of jobber drills DIN 338.

Additionally with intermediate sizes for tapping drill holes Ø 1.6; 3.3; 4.2; 6.8; and 10.2 mm.

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.

Note:

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

Through-coolant: no

Shank: Three drive flats shank

Shank: Plain shank

Number of cutting edges Z: 2

Drill range: 1 - 10.5 mm

Number of drills: 25

Tapping hole Ø: 1.6 mm

Tapping hole Ø: 3.3 mm

Tapping hole Ø: 4.2 mm

Tapping hole Ø: 6.8 mm

Technical description

Number of drills	25
Incremental steps of drills	0.5 mm
Drill range	1 - 10.5 mm
Shank	Three drive flats shank
Shank	Plain shank
Tapping hole Ø	1.6 mm
Tapping hole Ø	3.3 mm
Tapping hole Ø	4.2 mm
Tapping hole Ø	6.8 mm
Tapping hole Ø	10.2 mm
Number of cutting edges Z	2
Coating	uncoated
Tool material	HSS E
Standard	DIN 338
Type	N
Tolerance nominal Ø	h8
Point angle	130 °
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% Si	suitable only under restricted conditions	40 m/min	N

Steel < 500 N/mm ²	suitable	40 m/min	P
Steel < 750 N/mm ²	suitable	30 m/min	P
Steel < 900 N/mm ²	suitable	25 m/min	P
Steel < 1100 N/mm ²	suitable	10 m/min	P
Steel < 1400 N/mm ²	suitable	8 m/min	P
INOX < 900 N/mm ²	suitable	12 m/min	M
INOX > 900 N/mm ²	suitable only under restricted conditions	8 m/min	M
GG(G)	suitable only under restricted conditions	25 m/min	K
CuZn	suitable only under restricted conditions	80 m/min	N
Uni	suitable		
Oil	suitable		
wet maximum	suitable		

Accessories

Jobber drill with 3 clamping faces HSS-E Ø DC h8 4,5 mm	114001 4,5
Jobber drill with 3 clamping faces HSS-E Ø DC h8 9,5 mm	114001 9,5
Jobber drill with 3 clamping faces HSS-E Ø DC h8 1,5 mm	114001 1,5
Jobber drill with 3 clamping faces HSS-E Ø DC h8 10 mm	114001 10
Jobber drill with 3 clamping faces HSS-E Ø DC h8 7 mm	114001 7
Jobber drill with 3 clamping faces HSS-E Ø DC h8 3,5 mm	114001 3,5
Jobber drill with 3 clamping faces HSS-E Ø DC h8 5,5 mm	114001 5,5
Jobber drill with 3 clamping faces HSS-E Ø DC h8 2,5 mm	114001 2,5
Jobber drill with 3 clamping faces HSS-E Ø DC h8 10,5 mm	114001 10,5
Jobber drill with 3 clamping faces HSS-E Ø DC h8 1 mm	114001 1
Jobber drill with 3 clamping faces HSS-E Ø DC h8 4 mm	114001 4
Jobber drill with 3 clamping faces HSS-E Ø DC h8 8 mm	114001 8

Jobber drill with 3 clamping faces HSS-E Ø DC h8 6,5 mm	114001 6,5
Jobber drill with 3 clamping faces HSS-E Ø DC h8 7,5 mm	114001 7,5
Jobber drill with 3 clamping faces HSS-E Ø DC h8 6 mm	114001 6
Jobber drill with 3 clamping faces HSS-E Ø DC h8 2 mm	114001 2
Jobber drill with 3 clamping faces HSS-E Ø DC h8 8,5 mm	114001 8,5
Jobber drill with 3 clamping faces HSS-E Ø DC h8 5 mm	114001 5
Jobber drill with 3 clamping faces HSS-E Ø DC h8 3 mm	114001 3
Jobber drill with 3 clamping faces HSS-E Ø DC h8 9 mm	114001 9