

**Garant**
**Stub drill set HSS-E No. 113001 with case, uncoated, Type: 1-10**

**Order data**

Order number	113010 1-10
GTIN	4045197765338
Item class	11B

**Description**
**Version:**

Composed of jobber drills DIN 1897.

Stable and sturdy stub drill with **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 mm

Number of drills: 19

Incremental steps of drills: 0.5 mm

**Technical description**

Number of drills	19
Incremental steps of drills	0.5 mm

Drill range	1 - 10 mm
Shank	Three drive flats shank
Shank	Plain shank
Number of cutting edges Z	2
Coating	uncoated
Tool material	HSS E
Standard	DIN 1897
Type	N
Tolerance nominal $\varnothing$	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 <sup>2</sup>	suitable	40 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	30 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	25 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	10 m/min	P
Steel < 1400 N/mm <sup>2</sup>	suitable	8 m/min	P
INOX < 900 N/mm <sup>2</sup>	suitable	12 m/min	M
INOX > 900 N/mm <sup>2</sup>	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

Stub drill with 3 clamping faces HSS-E Ø DC h8 9 mm	113001 9
Stub drill with 3 clamping faces HSS-E Ø DC h8 7,5 mm	113001 7,5
Stub drill with 3 clamping faces HSS-E Ø DC h8 6,5 mm	113001 6,5
Stub drill with 3 clamping faces HSS-E Ø DC h8 6 mm	113001 6
Stub drill with 3 clamping faces HSS-E Ø DC h8 8 mm	113001 8
Stub drill with 3 clamping faces HSS-E Ø DC h8 4 mm	113001 4
Stub drill with 3 clamping faces HSS-E Ø DC h8 3,5 mm	113001 3,5
Stub drill with 3 clamping faces HSS-E Ø DC h8 7 mm	113001 7
Stub drill with 3 clamping faces HSS-E Ø DC h8 4,5 mm	113001 4,5
Stub drill with 3 clamping faces HSS-E Ø DC h8 1 mm	113001 1
Stub drill with 3 clamping faces HSS-E Ø DC h8 2,5 mm	113001 2,5
Stub drill with 3 clamping faces HSS-E Ø DC h8 1,5 mm	113001 1,5
Stub drill with 3 clamping faces HSS-E Ø DC h8 10 mm	113001 10
Stub drill with 3 clamping faces HSS-E Ø DC h8 9,5 mm	113001 9,5
Stub drill with 3 clamping faces HSS-E Ø DC h8 3 mm	113001 3
Stub drill with 3 clamping faces HSS-E Ø DC h8 5 mm	113001 5
Stub drill with 3 clamping faces HSS-E Ø DC h8 2 mm	113001 2
Stub drill with 3 clamping faces HSS-E Ø DC h8 5,5 mm	113001 5,5
Stub drill with 3 clamping faces HSS-E Ø DC h8 8,5 mm	113001 8,5