

**Garant****Jobber drill set HSS-E No. 114500 in a case, TiAlN, Type: 1-13****Order data**

Order number	115350 1-13
GTIN	4045197197610
Item class	11B

**Description****Version:**

Composed of jobber drills DIN 338.

**Strengthened core taper.**

With point geometry shape C.

**Technical description**

Incremental steps of drills	0.5 mm
Drill range	1 - 13 mm
Number of drills	25
Shank	Plain shank
Number of cutting edges Z	2
Coating	TiAlN
Tool material	HSS E
Standard	DIN 338

## Data sheet

Tolerance nominal Ø	h8
Point angle	130 degrees
Helix angle	35 degrees
Through-coolant	no
with case	yes
Colour ring	blue
Type of product	Jobber drill

### User data

	Suitability	V <sub>c</sub>	ISO code
Steel < 750 N/mm <sup>2</sup>	suitable only under restricted conditions	37 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable only under restricted conditions	31 m/min	P
INOX < 900 N/mm <sup>2</sup>	suitable	15 m/min	M
INOX > 900 N/mm <sup>2</sup>	suitable	12 m/min	M
Ti > 850 N/mm <sup>2</sup>	suitable	6 m/min	S
Oil	suitable		
wet maximum	suitable		

### Accessories

HSS-E jobber drill Ø DC h8 12,5 mm	114500 12,5
HSS-E jobber drill Ø DC h8 8,5 mm	114500 8,5
HSS-E jobber drill Ø DC h8 2,5 mm	114500 2,5
HSS-E jobber drill Ø DC h8 10 mm	114500 10
HSS-E jobber drill Ø DC h8 4 mm	114500 4
HSS-E jobber drill Ø DC h8 3,5 mm	114500 3,5
HSS-E jobber drill Ø DC h8 6 mm	114500 6
HSS-E jobber drill Ø DC h8 3 mm	114500 3

## Data sheet

HSS-E jobber drill Ø DC h8 1,5 mm	114500 1,5
HSS-E jobber drill Ø DC h8 7,5 mm	114500 7,5
HSS-E jobber drill Ø DC h8 10,5 mm	114500 10,5
HSS-E jobber drill Ø DC h8 1 mm	114500 1
HSS-E jobber drill Ø DC h8 4,5 mm	114500 4,5
HSS-E jobber drill Ø DC h8 12 mm	114500 12
HSS-E jobber drill Ø DC h8 9,5 mm	114500 9,5
HSS-E jobber drill Ø DC h8 11,5 mm	114500 11,5
HSS-E jobber drill Ø DC h8 6,5 mm	114500 6,5
HSS-E jobber drill Ø DC h8 7 mm	114500 7
HSS-E jobber drill Ø DC h8 2 mm	114500 2
HSS-E jobber drill Ø DC h8 5 mm	114500 5
HSS-E jobber drill Ø DC h8 9 mm	114500 9
HSS-E jobber drill Ø DC h8 13 mm	114500 13
HSS-E jobber drill Ø DC h8 8 mm	114500 8
HSS-E jobber drill Ø DC h8 11 mm	114500 11
HSS-E jobber drill Ø DC h8 5,5 mm	114500 5,5
Empty case for jobber drills to DIN 338 Type 1-13	115470 1-13