

**Garant****Jobber drill set HSS-E No. 114500 as refill set, TiAlN, Type: 1-10****Order data**

Order number	115355 1-10
GTIN	4045197197627
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
Number of drills	19
Drill range	1 - 10 mm
Shank	Plain shank
Number of cutting edges Z	2
Coating	TiAlN
Tool material	HSS E
Standard	DIN 338

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

## User data

	Suitability	$V_c$	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

Jobber drill HSS-EFS $\varnothing$ DC h8 3 mm	114450 3
Jobber drill HSS-EFS $\varnothing$ DC h8 4 mm	114450 4
Jobber drill HSS-EFS $\varnothing$ DC h8 7 mm	114450 7
Jobber drill HSS-EFS $\varnothing$ DC h8 9 mm	114450 9
Jobber drill HSS-EFS $\varnothing$ DC h8 8,5 mm	114450 8,5
Jobber drill HSS-EFS $\varnothing$ DC h8 1,5 mm	114450 1,5
Jobber drill HSS-EFS $\varnothing$ DC h8 10 mm	114450 10
Jobber drill HSS-EFS $\varnothing$ DC h8 6 mm	114450 6

Jobber drill HSS-EFS Ø DC h8 4,5 mm	114450 4,5
Jobber drill HSS-EFS Ø DC h8 5,5 mm	114450 5,5
Jobber drill HSS-EFS Ø DC h8 9,5 mm	114450 9,5
Jobber drill HSS-EFS Ø DC h8 2,5 mm	114450 2,5
Jobber drill HSS-EFS Ø DC h8 2 mm	114450 2
Jobber drill HSS-EFS Ø DC h8 3,5 mm	114450 3,5
Jobber drill HSS-EFS Ø DC h8 6,5 mm	114450 6,5
Jobber drill HSS-EFS Ø DC h8 8 mm	114450 8
Jobber drill HSS-EFS Ø DC h8 7,5 mm	114450 7,5
Jobber drill HSS-EFS Ø DC h8 5 mm	114450 5
Jobber drill HSS-EFS Ø DC h8 1 mm	114450 1