

Garant
Jobber drill set HSS-E No. 114450 in a case, uncoated, Type: 1-13

Order data

Order number	115320 1-13
GTIN	4045197024954
Item class	11B

Description
Version:

Composed of jobber drills DIN 338.

Profile ground: high radial run-out and pitch accuracy, as well as precise point grinding. Drill for series production. **Strengthened core.** Bright **finish parabolic flutes**, from 3 mm nitrided chamfers.

With point geometry shape C up to size 3.9 mm

With point geometry shape S from size 4 mm

Through-coolant: no

Shank: Plain shank

Drill range: 1 - 13 mm

Number of drills: 25

Incremental steps of drills: 0.5 mm

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	uncoated
Tool material	HSS E
Standard	DIN 338
Type	FS
Tolerance nominal Ø	h8
Point angle	130 degrees
Through-coolant	no
with case	yes
Colour ring	without
Type of product	Jobber drill

Accessories

Jobber drill HSS-E FS Ø DC h8 2 mm	114450 2
Jobber drill HSS-E FS Ø DC h8 11,5 mm	114450 11,5
Jobber drill HSS-E FS Ø DC h8 9,5 mm	114450 9,5
Jobber drill HSS-E FS Ø DC h8 13 mm	114450 13
Jobber drill HSS-E FS Ø DC h8 10,5 mm	114450 10,5
Jobber drill HSS-E FS Ø DC h8 5,5 mm	114450 5,5
Jobber drill HSS-E FS Ø DC h8 7 mm	114450 7
Jobber drill HSS-E FS Ø DC h8 2,5 mm	114450 2,5
Jobber drill HSS-E FS Ø DC h8 3 mm	114450 3
Jobber drill HSS-E FS Ø DC h8 11 mm	114450 11
Jobber drill HSS-E FS Ø DC h8 5 mm	114450 5
Jobber drill HSS-E FS Ø DC h8 4,5 mm	114450 4,5
Jobber drill HSS-E FS Ø DC h8 6,5 mm	114450 6,5
Jobber drill HSS-E FS Ø DC h8 4 mm	114450 4

Jobber drill HSS-E FS Ø DC h8 8,5 mm	114450 8,5
Jobber drill HSS-E FS Ø DC h8 7,5 mm	114450 7,5
Jobber drill HSS-E FS Ø DC h8 8 mm	114450 8
Jobber drill HSS-E FS Ø DC h8 1 mm	114450 1
Jobber drill HSS-E FS Ø DC h8 12,5 mm	114450 12,5
Jobber drill HSS-E FS Ø DC h8 6 mm	114450 6
Jobber drill HSS-E FS Ø DC h8 12 mm	114450 12
Jobber drill HSS-E FS Ø DC h8 9 mm	114450 9
Jobber drill HSS-E FS Ø DC h8 1,5 mm	114450 1,5
Jobber drill HSS-E FS Ø DC h8 3,5 mm	114450 3,5
Jobber drill HSS-E FS Ø DC h8 10 mm	114450 10