

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

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 \varnothing	h8
Point angle	130 degrees
Through-coolant	no
with case	yes
Colour ring	without
Type of product	Jobber drill

User data

	Suitability	V_c	ISO code
Alu plastics	suitable	70 m/min	N
Aluminium (short chipping)	suitable	45 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 only under restricted conditions	25 m/min	P
GG(G)	suitable	25 m/min	K
Uni	suitable only under restricted conditions		
Oil	suitable		
wet maximum	suitable		

Accessories

Jobber drill HSS-EFS \varnothing DC h8 2 mm	114450 2
Jobber drill HSS-EFS \varnothing DC h8 11,5 mm	114450 11,5
Jobber drill HSS-EFS \varnothing DC h8 9,5 mm	114450 9,5

Jobber drill HSS-EFS Ø DC h8 13 mm	114450 13
Jobber drill HSS-EFS Ø DC h8 10,5 mm	114450 10,5
Jobber drill HSS-EFS Ø DC h8 5,5 mm	114450 5,5
Jobber drill HSS-EFS Ø DC h8 7 mm	114450 7
Jobber drill HSS-EFS Ø DC h8 2,5 mm	114450 2,5
Jobber drill HSS-EFS Ø DC h8 3 mm	114450 3
Jobber drill HSS-EFS Ø DC h8 11 mm	114450 11
Jobber drill HSS-EFS Ø DC h8 5 mm	114450 5
Jobber drill HSS-EFS Ø DC h8 4,5 mm	114450 4,5
Jobber drill HSS-EFS Ø DC h8 6,5 mm	114450 6,5
Jobber drill HSS-EFS Ø DC h8 4 mm	114450 4
Jobber drill HSS-EFS Ø DC h8 8,5 mm	114450 8,5
Jobber drill HSS-EFS Ø DC h8 7,5 mm	114450 7,5
Jobber drill HSS-EFS Ø DC h8 8 mm	114450 8
Jobber drill HSS-EFS Ø DC h8 1 mm	114450 1
Jobber drill HSS-EFS Ø DC h8 12,5 mm	114450 12,5
Jobber drill HSS-EFS Ø DC h8 6 mm	114450 6
Jobber drill HSS-EFS Ø DC h8 12 mm	114450 12
Jobber drill HSS-EFS Ø DC h8 9 mm	114450 9
Jobber drill HSS-EFS Ø DC h8 1,5 mm	114450 1,5
Jobber drill HSS-EFS Ø DC h8 3,5 mm	114450 3,5
Jobber drill HSS-EFS Ø DC h8 10 mm	114450 10