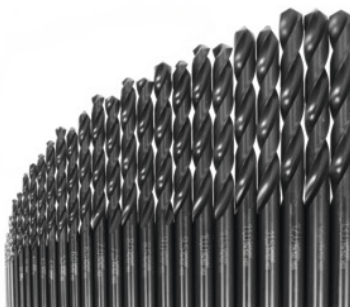


Garant**Jobber drill set HSS No. 114150 as refill set, uncoated, Type: 1-13****Order data**

Order number	115140 1-13
GTIN	4045197024459
Item class	11B

Description**Version:**

Composed of jobber drills DIN 338.

Profile ground: Jobber drill with high pitch accuracy and concentricity as well as precision ground point.

Steam tempered from \varnothing 2.4 mm.

With point geometry shape C 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

Standard	DIN 338
Type	N
Tolerance nominal \varnothing	h8
Point angle	118 degrees
Through-coolant	no
with case	no
Colour ring	without
Type of product	Jobber drill

User data

	Suitability	V_c	ISO code
Alu plastics	suitable only under restricted conditions	80 m/min	N
Aluminium (short chipping)	suitable only under restricted conditions	45 m/min	N
Alu > 10% Si	suitable only under restricted conditions	50 m/min	N
Steel < 500 N/mm ²	suitable	40 m/min	P
Steel < 750 N/mm ²	suitable	35 m/min	P
Steel < 900 N/mm ²	suitable	25 m/min	P
Steel < 1100 N/mm ²	suitable only under restricted conditions	10 m/min	P
Steel < 1400 N/mm ²	suitable only under restricted conditions	8 m/min	P
GG(G)	suitable	25 m/min	K
CuZn	suitable	80 m/min	N
Oil	suitable		
wet maximum	suitable		