

**HOLEX CleverDrill HSS jobber drill N, uncoated, Ø DC h8 (mm or inch): 4,5****Order data**

Order number	114031 4,5
GTIN	4062406743970
Item class	12B

Description**Version:**

HOLEX CleverDrill: Sturdy drills for all standard applications. Improved spot drilling behaviour due to cross-ground form. Standard core thickness and core taper. Profile ground. Surface: Bronze-coloured tempered helical flutes.

Recommendation:**Maximum drilling depth:**

$$L_2 = L_c - 1.5 \times D_c$$

Note:**Successor product to No. 114030.**

Size 13.2 – 20: With stepped shank Ø 12.7 mm.

Through-coolant: no

Standard: DIN 338

Tolerance nominal Ø: h8

Point angle: 118 °

Shank: Plain shank

Number of cutting edges Z: 2

recommended maximum drilling depth L_2 : 40.3 mm

Flute length L_c : 47 mm

Overall length L: 80 mm

Shank Ø D_s : 4.5 mm

Feed f in steel < 750 N/mm²: 0.05 mm/rev.

Technical description

Overall length L	80 mm
Tolerance nominal Ø	h8

Nominal $\varnothing D_c$	4.5 mm
Shank $\varnothing D_s$	4.5 mm
recommended maximum drilling depth L_2	40.3 mm
Number of cutting edges Z	2
Standard	DIN 338
Feed f in steel < 750 N/mm ²	0.05 mm/rev.
Point angle	118 °
Flute length L_c	47 mm
Shank	Plain shank
Series	CleverDrill
Coating	uncoated
Tool material	HSS
Type	N
Through-coolant	no
Colour ring	without
Type of product	Jobber drill

User data

	Suitability	V_c	ISO code
Alu plastics	suitable	80 m/min	N
Aluminium (short chipping)	suitable	60 m/min	N
Alu > 10% Si	suitable	50 m/min	N
Steel < 500 N/mm ²	suitable	35 m/min	P
Steel < 750 N/mm ²	suitable	32 m/min	P
Steel < 900 N/mm ²	suitable	22 m/min	P
Steel < 1100 N/mm ²	suitable	18 m/min	P
GG(G)	suitable	30 m/min	K
CuZn	suitable	40 m/min	N

Oil	suitable
wet maximum	suitable

Accessories

HOLEX CleverDrill HSS jobber drill set No. 114031 as a refill set Type 1-10	115056 1-10
HOLEX CleverDrill jobber drill set HSS No. 114031 in a case Type 1-10,5	115051 1-10,5
HOLEX CleverDrill jobber drill set HSS No. 114031 in a case Type 1-10	115051 1-10
HOLEX CleverDrill jobber drill set HSS No. 114031 in a case Type 1-13	115051 1-13
HOLEX CleverDrill HSS jobber drill set No. 114031 as a refill set Type 1-10,5	115056 1-10,5
HOLEX CleverDrill HSS jobber drill set No. 114031 as a refill set Type 1-13	115056 1-13
HOLEX CleverDrill HSS jobber drill set No. 114031 as a refill set Type 1-6	115056 1-6