

Garant
Jobber drill, extra long HSS-E FS, TiAlN, Ø DC h8 × overall length L: 3X190 mm

Order data

Order number	116280 3X190
GTIN	4045197028983
Item class	11B

Description
Version:

With point geometry shape C.

Advantage:

Particularly suitable for drilling under difficult conditions, e.g. insufficient cooling of the cutting edges due to poor chip evacuation.

Recommendation:
Maximum drilling depth:

$L_2 = L_c - 1.5 \times D_c$.

Note:

Suitable NC spotting drills No. 112120, 112140 and 112170 with **142° tip angle** for enhanced process reliability

Through-coolant: no

Standard: DIN 1869

Tolerance nominal Ø: h8

Point angle: 135 degrees

Number of cutting edges Z: 2

recommended maximum drilling depth L_2 : 125.5 mm

Flute length L_c : 130 mm

Overall length L: 190 mm

Shank Ø D_s : 3 mm

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

Technical description

Flute length L_c	130 mm
Nominal Ø D_c	3 mm
Number of cutting edges Z	2

Feed f in steel < 750 N/mm ²	0.05 mm/rev.
Tolerance nominal Ø	h8
Shank Ø D _s	3 mm
Overall length L	190 mm
Standard	DIN 1869
recommended maximum drilling depth L ₂	125.5 mm
Point angle	135 degrees
Coating	TiAlN
Tool material	HSS E
Type	FS
Helix angle	38 degrees
Shank	Plain shank
Through-coolant	no
Colour ring	without
Type of product	Jobber drill