Garant

Stub drill HSS-E FS, uncoated, Ø DC h8: 2,1mm



Order data

| Order number | 113020 2,1 | | |
|--------------|---------------|--|--|
| GTIN | 4045197001979 | | |
| Item class | 11B | | |

Description

Version:

Particularly robust and strong due to strengthened core.

Ground flutes, with high concentricity.

Bright finish flutes, nitrided lands.

With point geometry shape C up to 3.9 mm; shape S (special) from 4 mm.

Advantage:

Ideal for drilling shallow holes (approx. 2 - 4×D) on NC machines and automatic machines. Recommendation:

Maximum drilling depth:

 $L_2 = L_C - 1.5 \times D_C$.

Technical description

| Feed f in steel < 750 N/mm ² | 0.03 mm/rev. | | |
|--|--------------|--|--|
| Flute length L _c | 12 mm | | |
| Number of cutting edges Z | 2 | | |
| Nominal Ø D _c | 2.1 mm | | |
| Tolerance nominal Ø | h8 | | |
| Shank Ø D _s | 2.1 mm | | |
| Overall length L | 38 mm | | |
| Standard | DIN 1897 | | |
| recommended maximum drilling depth L_2 | 8.9 mm | | |
| Point angle | 135 degrees | | |

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| Shank | Plain shank | | |
|-----------------|--------------|--|--|
| Coating | uncoated | | |
| Tool material | HSS E | | |
| Туре | FS | | |
| Helix angle | 38 degrees | | |
| Through-coolant | no | | |
| Colour ring | without | | |
| Type of product | Jobber drill | | |

User data

| | Suitability | V _c | ISO code |
|-------------------------------|-------------|----------------|----------|
| Alu plastics | suitable | 70 m/min | Ν |
| Aluminium (short chipping) | suitable | 45 m/min | Ν |
| Steel < 500 N/mm ² | suitable | 40 m/min | Р |
| Steel < 750 N/mm ² | suitable | 30 m/min | Р |
| GG(G) | suitable | 25 m/min | К |
| Oil | suitable | | |
| wet maximum | suitable | | |