

Garant

Jobber drill with stepped tip HSS N, uncoated, Ø DC h8: 3,5mm



Order data

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|--------------|---------------|
| Order number | 114004 3,5 |
| GTIN | 4062406877347 |
| Item class | 11Q |

Description

Version:

Chamfers are nitrided. Particularly sturdy and robust due to the **strengthened core diameter**. Ground flutes, with high concentricity. Precision ground point. Three **drive flats on the shank** for use in a 3-jaw chuck.

- **Ideal for producing precise holes in sheet metal, pipes, and profiles.**
- **Reliable spot drilling without centring or centre punching – even on curved surfaces – thanks to innovative ground point.**
- **Oblique drilling possible without any problems after the first level of the drill tip has penetrated the material.**
- **Drilling with significantly less force required than with conventional DIN338 HSS drills – up to a diameter of 13 mm directly in the cordless drill/driver.**
- **Stable and secure form fit in the 3-jaw chuck.**
- **General use across a wide spectrum of materials including plastic, wood and acrylic without tearing or splintering.**
- **The drill does not rattle or dig in – even in the case of thin-walled materials.**
- **Burr-free drill exit.**
- **Ideal for drilling out bolts and rivets.**

Recommendation:

Maximum drilling depth:

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

Note:

Drills with plain shank, **without drive flat**.

Technical description

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|------------------|-------|
| Overall length L | 70 mm |
|------------------|-------|

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|--|--------------|
| Standard | DIN 338 |
| Feed f in steel $< 750 \text{ N/mm}^2$ | 0.06 mm/rev. |
| recommended maximum drilling depth L_2 | 33.8 mm |
| Tolerance nominal \varnothing | h8 |
| Point angle | 118 ° |
| Number of cutting edges Z | 2 |
| Shank $\varnothing D_s$ | 3.5 mm |
| Flute length L_c | 39 mm |
| Nominal $\varnothing D_c$ | 3.5 mm |
| Shank | Plain shank |
| 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 only under restricted conditions | 70 m/min | N |
| Aluminium (short chipping) | suitable only under restricted conditions | 45 m/min | N |
| Alu $> 10\% \text{ Si}$ | suitable only under restricted conditions | 40 m/min | N |
| Steel $< 500 \text{ N/mm}^2$ | suitable | 40 m/min | P |
| Steel $< 750 \text{ N/mm}^2$ | suitable | 30 m/min | P |
| Steel $< 900 \text{ N/mm}^2$ | suitable | 25 m/min | P |
| Steel $< 1100 \text{ N/mm}^2$ | suitable only under restricted conditions | 10 m/min | P |

| | | | |
|-------------|---|----------|---|
| GG(G) | suitable | 25 m/min | K |
| CuZn | suitable only under restricted conditions | | |
| Oil | suitable | | |
| wet maximum | suitable | | |