

## Garant

### Jobber drill with stepped tip HSS N, uncoated, Ø DC h8: 4,9mm



## Order data

|              |               |
|--------------|---------------|
| Order number | 114004 4,9    |
| GTIN         | 4062406877392 |
| 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:

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

## Technical description

|   |              |
|---|--------------|
| Overall length L                        | 86 mm        |
| Feed f in steel < 750 N/mm <sup>2</sup> | 0.08 mm/rev. |
| Point angle                             | 118 °        |

|  |                         |
|--|-------------------------|
| Number of cutting edges Z                | 2                       |
| Standard                                 | DIN 338                 |
| Tolerance nominal $\varnothing$          | h8                      |
| recommended maximum drilling depth $L_2$ | 44.7 mm                 |
| Flute length $L_c$                       | 52 mm                   |
| Nominal $\varnothing D_c$                | 4.9 mm                  |
| Shank $\varnothing D_s$                  | 4.9 mm                  |
| Shank                                    | Three drive flats 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% Si                   | suitable only under restricted conditions | 40 m/min | N        |
| Steel < 500 N/mm <sup>2</sup>  | suitable                                  | 40 m/min | P        |
| Steel < 750 N/mm <sup>2</sup>  | suitable                                  | 30 m/min | P        |
| Steel < 900 N/mm <sup>2</sup>  | suitable                                  | 25 m/min | P        |
| Steel < 1100 N/mm <sup>2</sup> | 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                                  |