



## HiPer-Drill base body, 3×D, Ø D: 45 mm

### Order data

|              |               |
|--------------|---------------|
| Order number | 231605 45     |
| GTIN         | 4062406063337 |
| Item class   | 21S           |

### Description

#### Version:

- **Very high feed rates and maximum performance due to optimally matched geometries and materials.**
- **Precise positioning of the cutter insert due to Vee insert seating and secure clamping by the centre bore.**
- **High concentricity when assembled.**
- **Shank support for optimum stability in operation.**

#### Application:

For stationary and rotating use. For holes up to IT9 accuracy.

#### Note:

Further sizes up to Ø 50.99 mm available on request.

Clamp in a hydraulic chuck (such as No. 302026 size 20) for optimum radial run-out.

For optimum stability, clamp the drill so the overhang is as short as possible.

Drill depth up to: 3×D

Skaft: ISO 9766

Use for drilling: limited drilling with oblique exit

Use for drilling: limited oblique spot drilling

Use for drilling: limited cross-drilling

Use for drilling: limited drilling through a stack

Ø range D: 45 - 46.99 mm

Usable length  $L_N$ : 274 mm

Shank Ø  $D_s$ : 40 mm

Shank length  $L_s$ : 70 mm

Clamping screw: 231999\_25IP1 (15Nm)

### Technical description

|                 |         |
|-----------------|---------|
| Shank tolerance |         |
| Point angle     | degrees |

|                    |                                    |
|--------------------|------------------------------------|
| Schaft             | ISO 9766                           |
| Drill depth up to  | 3×D                                |
| Through-coolant    | yes                                |
| Use for drilling   | limited drilling with oblique exit |
| Use for drilling   | limited oblique spot drilling      |
| Use for drilling   | limited cross-drilling             |
| Use for drilling   | limited drilling through a stack   |
| Machining strategy |                                    |
| Norm               |                                    |
| Type of product    |                                    |