

# 1143872 | HSS step drill bit -TiAlN coated TivolyNorm -Helical -Split point -Tri-flat shank

High-performance drill bit for incredibly fast and intensive drilling of high-strength steels, thanks to its geometry and its TiAlN coating.



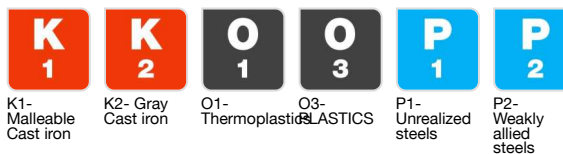
- Especially for fine high-strength steel sheets
- Maximum long life
- Incredibly fast drilling
- Optimal chip removal
- Anti-rotation attachment
- Automatic centring
- Tri-flat shank
- High-speed steel
- TiAlN coating



## Machine



## Application



## Features



## Properties and benefits

- + Split-point grinding:reduction of the drill tip. ➡ Enables the simple self-centring of the drill bit on the smoothest of surfaces. Significantly reduces the required axial load.
- + Tri-flat shank: cylindrical shank with 3x 120° flats, for 3-piece drill chucks. ➡ Enables maximum torque transmission Prevents the rotation of the bit in the chuck. Specially adapted for through-holes.
- + High-speed steel: HSS substrate ➡ For general use in steels and cast irons up to 950 N/mm<sup>2</sup>
- + TiAlN coating: TiAlN base, thickness 2/4µm, hardness 3000HV, coefficient of friction 0.4, heat resistance 900°C. ➡ Thermal shield. Allows you to increase service life, cutting speed, and progress. Reduces the axial load. Versatile uses.

## Sets



3 TiAlN coated HSS step drill bits Ø 4 to 30 mm  
3 TiAlN coated HSS step drill bits Ø 4 to 37 mm

## Related products





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70% biodegradable  
cutting oil (50 ml)



| Item number<br>M3 | EAN (13 digits)<br>M3 | Drill<br>diameter Ø | Drill<br>diameter<br>d3 | Handle<br>diameter or<br>CM | Total<br>length | Trimmed<br>length | I3 | QTY | PCB |
|-------------------|-----------------------|---------------------|-------------------------|-----------------------------|-----------------|-------------------|----|-----|-----|
| 11438720412       | 3221910223083         | 12                  | 4                       | 6                           | 65              | 42                |    | 1   | 1   |
| 11438720420       | 3221910223090         | 20                  | 4                       | 8                           | 75              | 52                |    | 1   | 1   |
| 11438720430       | 3221910223106         | 30                  | 4                       | 10                          | 100             | 77                |    | 1   | 1   |
| 11438720637       | 3221910223113         | 37                  | 6                       | 10                          | 100             | 77                |    | 1   | 1   |