

**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

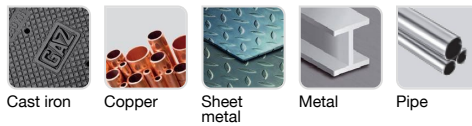
- Automatic centring
- Tri-flat shank
- High-speed steel
- TiAlN coating



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/mm²
- + 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



70% biodegradable cutting oil (50 ml)



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