

**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**

<b>K</b> 1	<b>K</b> 2	<b>P</b> 1	<b>P</b> 2
K1- Malleable Cast iron	K2- Gray Cast iron	P1- Unrealized steels	P2- Weakly alloyed steels

**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.



Item number	M3 EAN (13 digits)	M3 Drill diameter Ø	Drill diameter d3	Handle diameter or CM	Total length	Trimmed leng
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