

## High-performance deep hole drill, solid carbide TiAlN HPC 20xD with internal cooling HA

For universal use up to 1300 N/mm<sup>2</sup>

**ATORN**<sup>®</sup>



### Application

For HPC deep-hole boring up to a strength of 1300 N/mm<sup>2</sup>.

### Version

- High-performance deep hole drill, solid carbide TiAlN
- 4 drill heels
- Four grinding faces
- 30° spiral angle
- Straight main cutting edge

### Advantage

- very good all-round properties and precise cutting performance with high cutting rates
- unique, extremely hard, low-friction, temperature-resistant and form-fitting TiAlN coating ensures a longer service life
- Cutting edge preparation minimises micro-fractures on the cutter
- the entire range is coordinated in terms of angle and diameter

| Application | Steel (N/mm <sup>2</sup> ) |       |       | Stainless steel |         | Alu   |      | Brass |      | Bronze |      | Plas-tics | Graphite G(C)FK | GG(G) GjMW | Titan-alloy | Nickel-alloy | Super-alloy | Hard mat. |         |
|-------------|----------------------------|-------|-------|-----------------|---------|-------|------|-------|------|--------|------|-----------|-----------------|------------|-------------|--------------|-------------|-----------|---------|
|             | <700                       | <1000 | <1300 | marten.         | austen. | short | long | short | long | short  | long |           |                 |            |             |              |             | <55 HRC   | <65 HRC |
|             | 90                         | 75    | 65    | 35              | 30      |       | 250  | 180   | 160  | 160    | 130  |           |                 | 80         | 35          | 30           | 30          |           |         |

|   |                   |
|---|-------------------|
| <b>Art. No.</b>                           | <b>11181 029</b>  |
| <b>Cutting edge diameter</b>              | 2.9 mm            |
| <b>Tolerance of cutting edge diameter</b> | h7                |
| <b>Cutting material</b>                   | VHM               |
| <b>Surface</b>                            | TiAlN             |
| <b>Max. drilling depth (D)</b>            | 20xD              |
| <b>Type</b>                               | HPC UNI           |
| <b>Coolant supply</b>                     | Internal          |
| <b>Tool holding device</b>                | HA parallel shank |
| <b>Angle of the tip</b>                   | 135 Degree        |
| <b>Shaft diameter</b>                     | 4 mm              |
| <b>Chip flute length</b>                  | 70 mm             |
| <b>Length</b>                             | 112 mm            |
| <b>f steel 1000</b>                       | 0.05 mm/r         |

### EAN-Code

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