

## High-feed drill solid carbide TiAlNplus HPC 3xD with internal cooling HA

For use in steel and casting materials

**ATORN®**



### Application

Designed for use with very high feeds on stable and high-performance machines

### Version

- 3-edge drill
- 4 grinding surfaces with concave main cutting edge
- 3 drill heels
- 30° spiral angle

### Advantage

- Up to 50% higher productivity than double-edged drills
- Perfectly round holes combined with excellent self-centring behaviour, even on uneven surfaces
- Extremely high feed rates thanks to the special cutting geometry
- Polished chip spaces and optimised tapered core rejuvenation ensure perfect chip removal
- Minimum burr formation at hole exit thanks to the 135° tip angle

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
	140	110	90	60	50									130					

<b>Art. No.</b>	<b>11130 188</b>
<b>Cutting edge diameter</b>	18.8 mm
<b>Tolerance of cutting edge diameter</b>	h7
<b>Cutting material</b>	VHM
<b>Surface</b>	TiAlN plus
<b>Max. drilling depth (D)</b>	3xD
<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>	20 mm
<b>Chip flute length</b>	79 mm
<b>Length</b>	131 mm
<b>f steel 1000</b>	0.7 mm/r
<b>DIN</b>	6537

### EAN-Code

4050293671032