

**Twist drill type UNI/VA HSSE-V3 TiAlN 3xD**  
for universal use up to 1300 N/mm<sup>2</sup>

**ATORN®**



**Application**

Universal use in all material groups up to a strength of 1300 N/mm<sup>2</sup>

**Version**

- Twist drill with unified shaft
- Diameter 1.00 mm–1.90 mm = tip angle 140°
- Diameter 2.00 mm–4.00 mm = tip angle 130°
- Diameter 4.10 mm–20.0 mm = tip angle 120°
- 2 drill heels
- 38° to 40° spiral angle
- Straight main cutting edge

**Advantage**

- Drilling without centring
- Problem solver in low-performance machines without internal cooling in high-strength steels and stainless steels
- Extremely hard, low-friction and temperature-resistant TiAlN coating for longer life
- Very high feed rates can be achieved

Application	Steel (N/mm <sup>2</sup> )			Stainless steel		Alu		Brass		Bronze		Plastics	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
	55	35	25	20	15	55	85	70	45	40	30	40		40	10	10	10		

<b>Art. No.</b>	<b>11036 278</b>
<b>Cutting edge diameter</b>	7.8 mm
<b>Tolerance of cutting edge diameter</b>	h8
<b>Cutting material</b>	HSSE V3
<b>Surface</b>	TiAlN
<b>Max. drilling depth (D)</b>	3xD
<b>Type</b>	VA
<b>Coolant supply</b>	External
<b>Tool holding device</b>	HA parallel shank
<b>Angle of the tip</b>	120 Degree
<b>Shaft diameter</b>	8 mm
<b>Chip flute length</b>	37 mm
<b>Length</b>	79 mm
<b>f steel 1000</b>	0.18 mm/U

**EAN-Code**

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