

## Solid carbide HPC end mill

4 cutting edges, ULTRA MS-coated

**ATORN®**



### Application

HPC end mill with uneven helical and uneven pitch for rough machining and finish machining of stainless steel, titanium alloy, nickel and copper alloys. The uneven helical pitch means that vibrations on the tool are reduced, which results in outstanding finished surfaces, while, at the same time, feed rates and cutting depths can be increased.

### Version

- ultra-fine grain cemented carbide
- with uneven helical and cutter distribution (35/38°)
- HA straight shank
- with clearance
- high-performance ULTRA MS layer
- with edge protection chamfer
- defined cutting edge rounding
- centre cutting

### Advantage

- rough machining and finishing with just one tool
- optimum suitability for trochoidal milling
- HPC geometry for maximum feed rates and running smoothness
- suitable for large cutting depths

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	130		70	60										70	60	70		

<b>Art. no.</b>	<b>16670 284</b>
<b>Cutting material</b>	VHM
<b>Surface</b>	ULTRA MS
<b>Type</b>	VA
<b>Number of cutting edges</b>	4 PCS
<b>Twist angle</b>	35°, 38°
<b>Tool holding device</b>	HA parallel shank
<b>Overall length</b>	Normal
<b>Cutting edge diameter</b>	10 mm
<b>Cutting edge length</b>	22 mm
<b>Clearance length</b>	32 mm
<b>Length</b>	72 mm
<b>Edge protection chamfer length</b>	0.2 mm
<b>Clearance diameter</b>	9.2 mm
<b>Shaft diameter</b>	10 mm
<b>fz stainless steel</b>	0.044 mm
<b>Overall stainless steel suitability</b>	1
<b>fitness not iron total</b>	2
<b>fitness Titan/Nickel/Super total</b>	1

### EAN-Code

4050293359978