

# ARNO<sup>®</sup>

## WERKZEUGE

We have a passion for precision.

### VHM- UND PM-HSS-NC-ENTGRATER

PM and HSS deburring cutters


#### Ausführung

- AE - 4 Schneiden, 60°
- 4 Schneiden, 90°
- 4 Schneiden, 120°

#### Design

- AE - 4 flutes, 60°
- 4 flutes, 90°
- 4 flutes, 120°



Bezeichnung Description	Schneiden Flutes	Fräsertyp Type	Ausführung Design	Spiralwinkel Helix angle	Abb. Picture	Seite Page
<b>AE - VHM NC-Entgrater / Solid carbide deburring cutter</b>						
AE63041-...	4	VHM NC-Entgrater Solid carbide deburring cutter	kurz short	60°		<b>314</b>
AE63141-...	4	VHM NC-Entgrater Solid carbide deburring cutter	kurz short	90°		<b>316</b>
AE63241-...	4	VHM NC-Entgrater Solid carbide deburring cutter	kurz short	120°		<b>318</b>
<b>AE - PM-HSS NC-Entgrater / Powder metal deburring cutter</b>						
AE63041-...-PM	4	PM-HSS NC-Entgrater Powder metal deburring cutter	kurz short	60°		<b>315</b>
AE63141-...-PM	4	PM-HSS NC-Entgrater Powder metal deburring cutter	kurz short	90°		<b>317</b>
AE63241-...-PM	4	PM-HSS NC-Entgrater Powder metal deburring cutter	kurz short	120°		<b>319</b>

# ARNO<sup>®</sup>

## WERKZEUGE

We have a passion for precision.

# AUSFÜHRUNG AE

Design AE

## Schneller als die Konkurrenz.

## Coated for speed.

Dank der TiAlN-Beschichtung überzeugt der ARNO<sup>®</sup> Vollhartmetall NC-Entgrater durch eine um 50 % höhere Schnittgeschwindigkeit als ein unbeschichteter Entgrater. Er ist optimal für das Anfasen, Entgraten und Konturbearbeiten nahezu aller gängigen Werkstoffe geeignet. Auch MMS oder Trockenbearbeitung ist möglich.



Thanks to the TiAlN coating this NC-drill can be up to 50 % faster than equivalent uncoated version. Suitable for nearly all materials. The tools can be used with micro lubrication coolant or run dry.

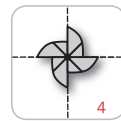
## Vollhartmetall NC-Entgrater

4 Schneiden, 60°



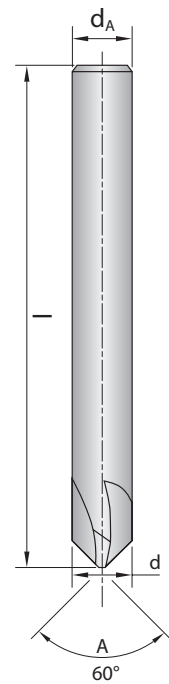
## Solid carbide deburring cutter

4 flutes, 60°



## AE63041-...

Schaft / Shank	d h6	d <sub>A</sub> h6	l	A
AE63041-040	4,0	4	54	60°
AE63041-060	6,0	6	54	60°
AE63041-080	8,0	8	58	60°
AE63041-100	10,0	10	66	60°
AE63041-120	12,0	12	73	60°



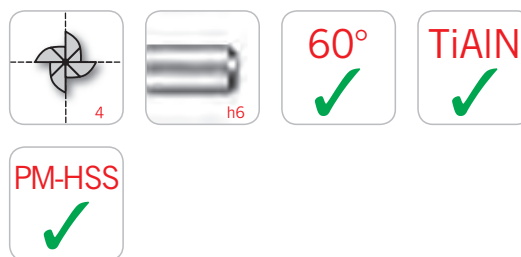
## PM-HSS NC-Entgrater

4 Schneiden, 60°



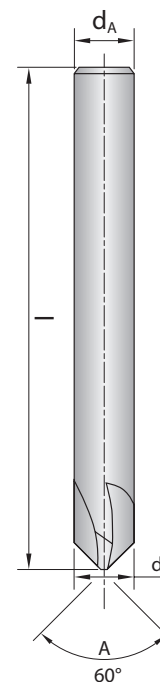
## Powder metal deburring cutter

4 flutes, 60°



## AE63041-....-PM

Schaft / Shank	d h6	d <sub>A</sub> h6	l	A
AE63041-040-PM	4,0	4	54	60°
AE63041-060-PM	6,0	6	54	60°
AE63041-080-PM	8,0	8	58	60°
AE63041-100-PM	10,0	10	66	60°
AE63041-120-PM	12,0	12	73	60°



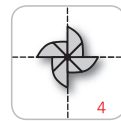
## Vollhartmetall NC-Entgrater

4 Schneiden, 90°



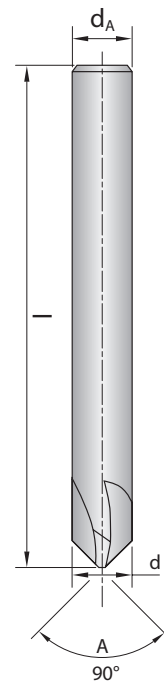
## Solid carbide deburring cutter

4 flutes, 90°



## AE63141-...

Schaft / Shank	d h6	d <sub>A</sub> h6	l	A
AE63141-040	4,0	4	54	90°
AE63141-060	6,0	6	54	90°
AE63141-080	8,0	8	58	90°
AE63141-100	10,0	10	66	90°
AE63141-120	12,0	12	73	90°



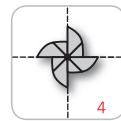
## PM-HSS NC-Entgrater

4 Schneiden, 90°



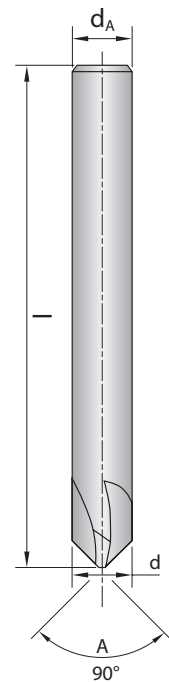
## Powder metal deburring cutter

4 flutes, 90°



## AE63141-....-PM

Schaft / Shank	d h6	d <sub>A</sub> h6	l	A
AE63141-040-PM	4,0	4	54	90°
AE63141-060-PM	6,0	6	54	90°
AE63141-080-PM	8,0	8	58	90°
AE63141-100-PM	10,0	10	66	90°
AE63141-120-PM	12,0	12	73	90°



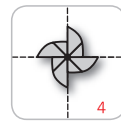
## Vollhartmetall NC-Entgrater

4 Schneiden, 120°



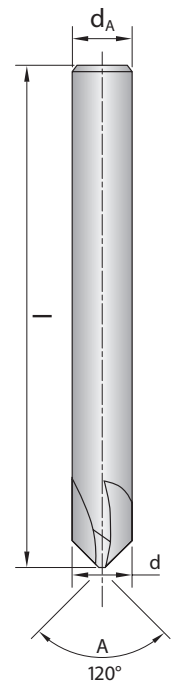
## Solid carbide deburring cutter

4 flutes, 120°



## AE63241-....

Schaft / Shank	d h6	d <sub>A</sub> h6	l	A
AE63241-040	4,0	4	54	120°
AE63241-060	6,0	6	54	120°
AE63241-080	8,0	8	58	120°
AE63241-100	10,0	10	66	120°
AE63241-120	12,0	12	73	120°





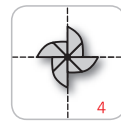
## PM-HSS NC-Entgrater

4 Schneiden, 120°



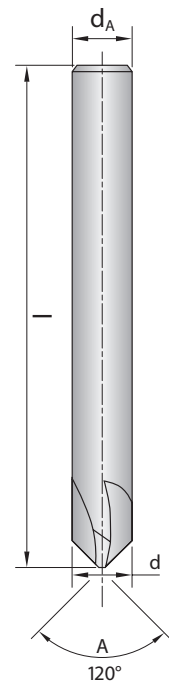
## Powder metal deburring cutter

4 flutes, 120°



## AE63241-....-PM

Schaft / Shank	d h6	d <sub>A</sub> h6	l	A
AE63241-040-PM	4,0	4	54	120°
AE63241-060-PM	6,0	6	54	120°
AE63241-080-PM	8,0	8	58	120°
AE63241-100-PM	10,0	10	66	120°
AE63241-120-PM	12,0	12	73	120°



## Weitere Highlights unserer Bohrsysteme.

### Other highlights from our drilling range.

#### ARNO®-Bohrsystem SHARK-Drill

Flexibles Bohrsystem mit optimierten Spankammern für bessere Spanausbringung.



#### ARNO® drilling-system SHARK-Drill

Flexible drilling system with smooth swarf chambers for improved swarf evacuation.

#### ARNO®-Bohrsystem SHARK-Drill<sup>2</sup>

Höchste Bohrperformance durch neuartige Geometrie mit hervorragender Spankontrolle.



#### ARNO® drilling-system SHARK-Drill<sup>2</sup>

Maximum drilling performance due to new geometry with excellent swarf control.

#### ARNO®-Bohrsystem SHARK-CUT

Drehen und Bohren mit nur einem Werkzeug.



#### ARNO® drilling-system SHARK-CUT

Turning and Drilling with only one tool.

Informationen zu diesen Produkten finden Sie unter [www.arno.de](http://www.arno.de) oder direkt bei ARNO.

For more information on these products please see our website [www.arno.de](http://www.arno.de) or contact ARNO.

**ARNO®**  
WERKZEUGE

**Bestell-Hotline: 0800/276 69 59**

Montags bis donnerstags, 7 bis 18 Uhr und freitags, 7 bis 16 Uhr. GEBÜHRENFREI.