



DEUTSCH



ENGLISH



NABER & WISSMANN

# Keramikführungen & Drahtleitrollen

*Wire Guides & Pulleys*





NABER & WISSMANN GMBH

 **Eine Marke setzt Maßstäbe: seit 1981**

Markenvertrauen kommt nicht von ungefähr, sondern baut sich durch ein kontinuierlich hohes Leistungsniveau auf: Qualität, Service, Innovationskraft, Termin- und Liefertreue haben Naber & Wissmann über Jahrzehnte zu einem führenden Anbieter von Präzisionswerkzeugen für die Drahtindustrie gemacht. Das 1981 von Ralf Naber und Bernd Wissmann gegründete Unternehmen beliefert weltweit Maschinenhersteller und Anwender mit hochwertigen Ziehwerkzeugen und weiteren Komponenten.

**NABER & WISSMANN GMBH**

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 **A brand that sets standards: since 1981**

*Trust in a brand does not come out of the blue, but it is built up by a continuous high level of performance: Over the decades, quality, service, innovation, and adherence to deadlines/reliability of delivery have turned Naber & Wissmann into a leading global supplier of precision tools for the wire industry. Founded in 1981 by Ralf Naber and Bernd Wissmann, the company supplies machine manufacturers and users worldwide with high quality drawing tools and other components.*

**Lange Standzeiten können noch sehr viel länger werden: Nutzen Sie unseren Service für die Wiederaufbereitung verbrauchter Ziehwerkzeuge!**

*Long service lives can now be made to be even longer: Use our service for reconditioning used drawing tools!*



Keramikführungen  
Wire Guides

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Drahtleitrollen  
Pulleys

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Keramikführungen  
Wire Guides

 **Bestes Rohmaterial  
für ausgezeichnete Qualität**

N&W Keramikführungen werden aus hochreiner Aluminiumoxidkeramik min. 99,7% oder aus Zirkonoxidkeramik hergestellt. Beste Rohmaterialien und standardisierte Fertigungsmethoden führen zu Keramikführungen in Spitzenqualität mit einem ausgezeichneten Preis-Leistungs-Verhältnis. Aufgrund von stetig steigenden Qualitätsanforderungen an die Drahtoberfläche liefern wir alle unsere Keramikführungen auch in hochglanzpoliert.

Durch unsere Poliermethoden erreichen wir Oberflächengüten von kleiner 0,1 µ Ra. Hochglanzpolierte Führungen ermöglichen es unseren Kunden die Oberflächenqualität des Drahtes zu verbessern und den Abrieb in Maschinen und Anlagen zu verringern. Zusätzlich zu unserem umfassenden Standardsortiment fertigen wir auch Keramikführungen nach Ihren individuellen Vorgaben.

Wir freuen uns auf Ihre Kontaktaufnahme.

 **First class raw material  
for excellent quality**

Wire Guides from Naber and Wissmann are made of aluminium oxide in the highest purity of minimum 99.7% or above. N&W also offers a wide range of wire guides made of zirconia oxide ceramic. First class raw material and standardized production methods drive to ceramic guides of prime quality with an excellent price-performance ratio. Due to permanent growing wire and cable quality specifications we also offer all our guides with mirror polished running surfaces.

With our polishing methods we are reaching surface roughness below 0.1 µ Ra. Therefore, we enable our customers to increase the surface quality of their wire and reduce the abrasion in their machines and equipment. In addition to our wide range of standard parts we also produce wire guides up to customer specifications and wishes.

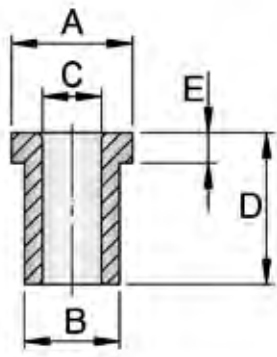
We are pleased to answer your inquiry.





Bundösen  
Eyelet Guides

Material: 99,7 % Aluminiumoxid Al<sub>2</sub>O<sub>3</sub>, diamantpoliert  
99,7 % Aluminium Oxide Al<sub>2</sub>O<sub>3</sub>, diamond-polished  
Zirkonoxid ZrO<sub>2</sub> auf Anfrage  
Zirconium Oxide ZrO<sub>2</sub> on request



| NW Model No. | A    | B    | C   | D   | E   |
|--------------|------|------|-----|-----|-----|
| NW000650     | 2,6  | 1,95 | 1,3 | 4,5 | 1   |
| NW001466     | 2,8  | 2    | 1,1 | 7   | 1,1 |
| NW001457     | 2,7  | 2,2  | 0,5 | 3   | 1   |
| NW001485     | 3,5  | 2,2  | 1,6 | 4,1 | 1   |
| NW241230     | 2,94 | 2,4  | 1,2 | 3   | 1   |
| NW000616     | 3,5  | 2,5  | 1   | 6,1 | 1   |
| NW271133     | 4    | 2,7  | 1,1 | 3,3 | 1,3 |
| NW000480     | 3,5  | 2,9  | 1,6 | 4,5 | 1   |
| NW000285     | 5,15 | 3,3  | 2,1 | 6,1 | 1,5 |
| NW352535     | 4,5  | 3,5  | 2,5 | 3,5 | 1   |
| NW361835     | 6,1  | 3,6  | 1,8 | 3,5 | 1   |
| NW382130     | 5,3  | 3,8  | 2,1 | 3   | 1   |
| NW392546     | 6    | 3,9  | 2,5 | 4,5 | 1,5 |
| NW400545     | 6    | 4    | 0,5 | 4,5 | 1,5 |
| NW400745     | 6    | 4    | 0,7 | 4,5 | 1,5 |
| NW401145     | 6    | 4    | 1,1 | 4,5 | 1,5 |
| NW402232     | 6    | 4    | 2,2 | 3,2 | 1   |
| NW402530     | 6    | 4    | 2,5 | 3   | 1   |
| NW001576     | 6    | 4    | 0,3 | 6   | 1   |
| NW001205     | 6    | 4    | 1   | 6   | 1   |
| NW473040     | 6,6  | 4,7  | 3   | 4   | 1   |
| NW483025     | 6,5  | 4,8  | 3   | 2,5 | 1   |

| NW Model No. | A    | B    | C   | D    | E   |
|--------------|------|------|-----|------|-----|
| NW483148     | 7,8  | 4,8  | 3,1 | 4,7  | 1   |
| NW483630     | 6,6  | 4,8  | 3,6 | 3    | 1,5 |
| NW000834     | 6,45 | 4,95 | 2,5 | 6,9  | 2   |
| NW503147     | 7,2  | 5    | 3,1 | 4,7  | 1,5 |
| NW001235     | 6,5  | 5    | 3   | 10,5 | 1,5 |
| NW523350     | 7,7  | 5,2  | 3,3 | 5    | 1,6 |
| NW542955     | 7,5  | 5,4  | 2,9 | 5,5  | 1,9 |
| NW553044     | 8,5  | 5,5  | 3   | 4,4  | 1,5 |
| NW553836     | 7,5  | 5,5  | 3,8 | 3,6  | 1   |
| NW000772     | 10   | 5,5  | 3   | 9    | 4,5 |
| NW563479     | 8    | 5,6  | 3,4 | 7,9  | 1,4 |
| NW573597     | 7,2  | 5,7  | 3,5 | 9,7  | 1,9 |
| NW000908     | 12   | 5,7  | 4   | 12   | 3   |
| NW583060     | 8    | 5,8  | 3   | 6    | 2   |
| NW593456     | 8,5  | 5,9  | 3,4 | 5,6  | 1,8 |
| NW000162     | 9,8  | 5,9  | 3,3 | 8,9  | 3   |
| NW603070     | 8    | 6    | 3   | 7    | 2   |
| NW613316     | 8    | 6,1  | 3,3 | 16,6 | 1,5 |
| NW633273     | 8,5  | 6,3  | 3,2 | 7,3  | 2   |
| NW633910     | 8    | 6,3  | 3,9 | 10   | 2   |
| NW000531     | 9    | 6,5  | 3,5 | 7    | 2   |

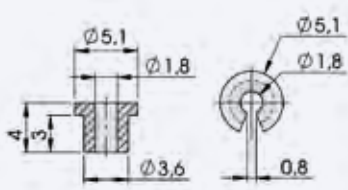
| NW Model No. | A    | B    | C   | D    | E   |
|--------------|------|------|-----|------|-----|
| NW663377     | 9,3  | 6,6  | 3,3 | 7,7  | 1,9 |
| NW674077     | 9,6  | 6,7  | 4   | 7,7  | 2   |
| NW674647     | 9,2  | 6,7  | 4,6 | 4,7  | 1,9 |
| NW000559     | 12   | 6,8  | 4,4 | 5,5  | 2,3 |
| NW703778     | 12   | 7    | 3,7 | 7,8  | 2,5 |
| NW000695     | 11   | 7    | 3,8 | 17   | 2,5 |
| NW714280     | 10   | 7,1  | 4,2 | 8    | 2   |
| NW714378     | 10,2 | 7,1  | 4,3 | 7,8  | 2,1 |
| NW723580     | 10   | 7,2  | 3,5 | 8    | 2   |
| NW000167     | 10   | 7,2  | 4,6 | 8    | 3   |
| NW000065     | 10   | 7,3  | 4,5 | 8    | 3,1 |
| NW744754     | 9    | 7,4  | 4,7 | 5,4  | 1,2 |
| NW745050     | 10   | 7,4  | 5   | 5    | 2   |
| NW001526     | 9,6  | 7,4  | 5,4 | 9    | 2   |
| NW000172     | 10   | 7,45 | 3,6 | 3,5  | 1,5 |
| NW000206     | 9,1  | 7,5  | 4,3 | 6,1  | 2   |
| NW000073     | 12   | 7,5  | 5   | 13,3 | 4   |
| NW774653     | 10,2 | 7,7  | 4,6 | 5,3  | 1,9 |
| NW774670     | 10,2 | 7,7  | 4,6 | 7    | 2,2 |
| NW794774     | 10   | 7,9  | 4,7 | 7,4  | 2   |
| NW804080     | 9,5  | 8    | 4   | 8    | 2   |
| NW000738     | 12   | 8    | 5   | 7    | 2   |
| NW845055     | 11   | 8,4  | 5   | 5,5  | 2   |
| NW845073     | 11   | 8,4  | 5   | 7,3  | 2,3 |
| NW000066     | 11   | 8,5  | 3   | 9,7  | 2   |
| NW000438     | 10,6 | 9    | 6   | 6    | 2,5 |
| NW001216     | 10,6 | 9    | 4,5 | 10   | 9   |
| NW001343     | 11   | 9    | 7   | 9,5  | 3,2 |
| NW001307     | 12,2 | 9    | 7,2 | 20,2 | 2,2 |
| NW936570     | 11,3 | 9,3  | 6,5 | 7    | 2   |
| NW001198     | 13   | 9,4  | 4,6 | 12,7 | 5,1 |
| NW956210     | 12,8 | 9,5  | 6,2 | 10   | 3   |
| NW000158     | 13,8 | 9,6  | 6,2 | 18   | 3,6 |
| NW975498     | 11,3 | 9,7  | 5,4 | 9,8  | 3   |
| NW995589     | 14   | 9,9  | 5,5 | 8,9  | 3   |
| NW000524     | 11,9 | 9,95 | 7,8 | 5    | 3   |
| NW106510     | 13,5 | 10   | 6,5 | 10,1 | 3   |
| NW001243     | 12   | 10   | 2   | 33   | 4   |
| NW001251     | 12   | 10   | 3   | 33   | 4   |
| NW001255     | 12   | 10   | 4   | 33   | 4   |

| NW Model No. | A    | B    | C    | D    | E    |
|--------------|------|------|------|------|------|
| NW001257     | 12   | 10   | 5,2  | 33   | 4    |
| NW001319     | 12   | 10   | 7,5  | 33   | 4    |
| NW000869     | 14   | 10   | 5,2  | 10,2 | 2,5  |
| NW000916     | 16   | 10   | 4    | 11   | 3    |
| NW000917     | 16   | 10   | 4,3  | 11   | 1    |
| NW001038     | 16,5 | 10   | 3,5  | 20   | 5    |
| NW000514     | 13,1 | 10,7 | 8,6  | 8    | 4    |
| NW001140     | 16,6 | 10,9 | 8    | 16   | 3,1  |
| NW008701     | 14   | 11   | 7    | 10,2 | 2,5  |
| NW006822     | 16,4 | 11,1 | 8,4  | 6,8  | 1,8  |
| NW000981     | 14   | 11,4 | 8,4  | 9,3  | 2    |
| NW001429     | 15   | 11,5 | 5    | 9    | 4    |
| NW127510     | 15   | 12   | 7,5  | 10   | 2,5  |
| NW128012     | 15   | 12   | 8    | 12   | 3    |
| NW001455     | 15   | 12   | 6    | 15   | 7    |
| NW009481     | 16,3 | 12   | 9    | 12,8 | 2,8  |
| NW009482     | 16,3 | 12   | 8,5  | 23,8 | 2,8  |
| NW002413     | 16,5 | 12,2 | 6,8  | 9,1  | 2,7  |
| NW000216     | 16   | 12,4 | 8,6  | 25   | 12,2 |
| NW128614     | 16,2 | 12,8 | 8,6  | 13,8 | 3,1  |
| NW000296     | 19,9 | 12,9 | 8,5  | 8,3  | 3,3  |
| NW138590     | 20   | 13   | 8,5  | 9    | 3    |
| NW000243     | 16   | 14   | 10   | 10   | 2    |
| NW000525     | 19,5 | 15   | 10,4 | 8,1  | 2,1  |
| NW001224     | 20   | 15   | 8    | 20   | 4    |
| NW001465     | 19,7 | 15,5 | 9,8  | 11,5 | 2,6  |
| NW001074     | 18   | 16   | 12   | 12,8 | 2,1  |
| NW000568     | 20   | 16,8 | 9,5  | 23   | 3    |
| NW181314     | 24   | 18,7 | 13,4 | 14,5 | 4,8  |
| NW001355     | 22   | 19   | 15   | 19,4 | 2    |
| NW191515     | 25   | 19,5 | 15   | 15   | 5    |
| NW001462     | 25   | 19,5 | 15   | 15   | 5    |
| NW221513     | 25   | 22,5 | 15   | 13   | 3    |
| NW001463     | 25   | 22,5 | 15   | 13   | 3    |
| NW001137     | 38   | 25   | 12,7 | 46   | 8    |
| NW001352     | 29,6 | 25,6 | 20   | 21,1 | 2    |
| NW001542     | 33   | 27   | 15   | 33   | 3    |
| NW001160     | 33,4 | 29   | 20   | 10   | 3    |
| NW001513     | 40   | 30   | 20   | 40   | 10   |
| NW001543     | 53   | 47   | 35   | 33   | 3    |

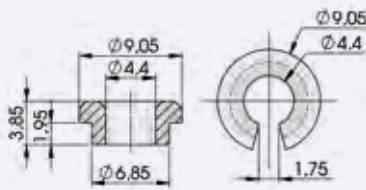
Schlitzösen

Slit Eyelet Guides

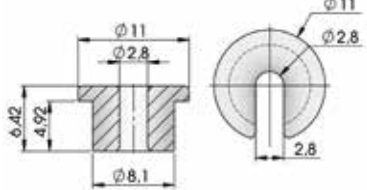
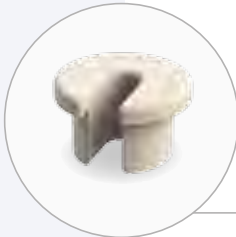
Material: 99,7 % Al<sub>2</sub>O<sub>3</sub>  
diamantpoliert / diamond-polished  
ZrO<sub>2</sub> auf Anfrage / on request



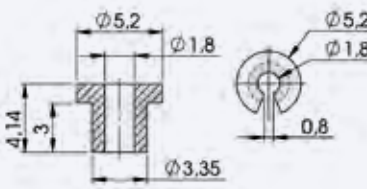
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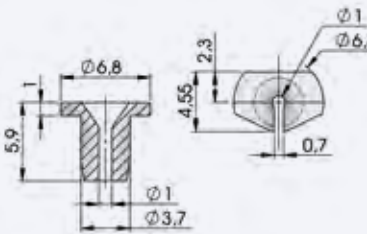
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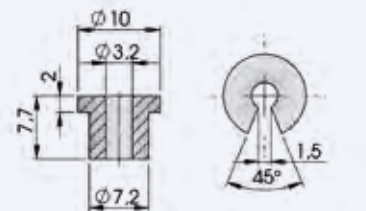
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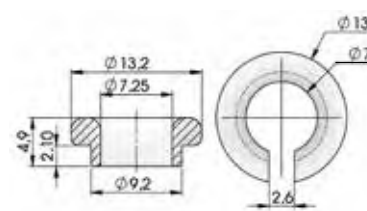
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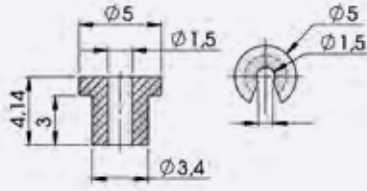
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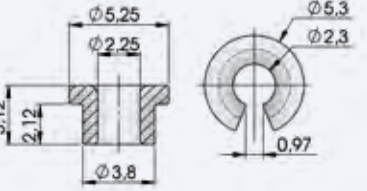
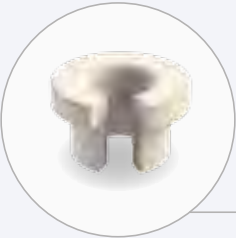
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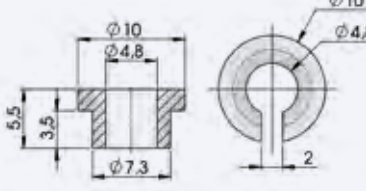
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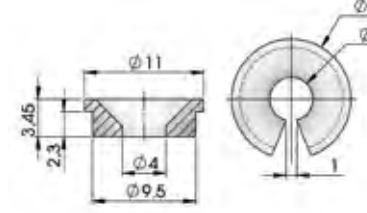
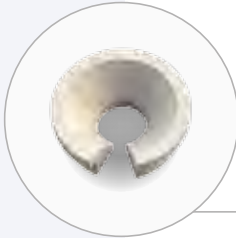
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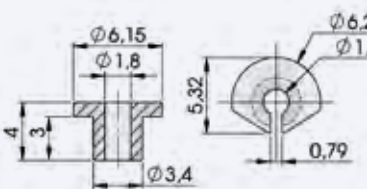
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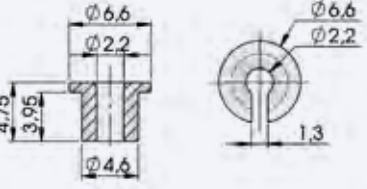
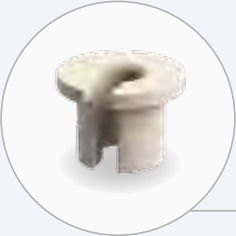
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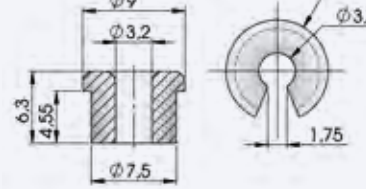
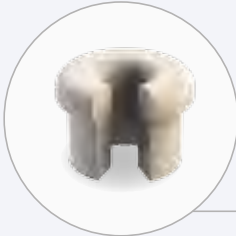
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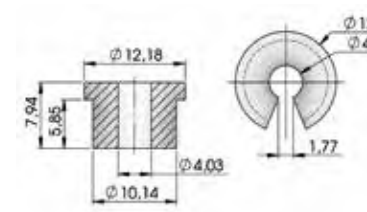
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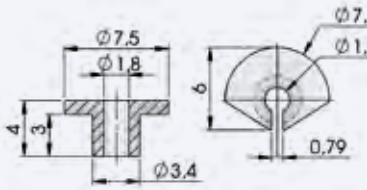
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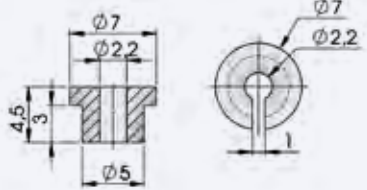
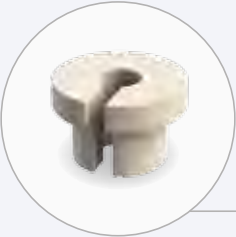
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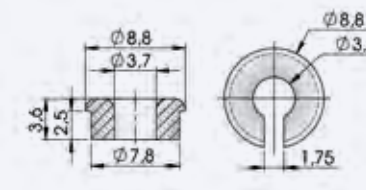
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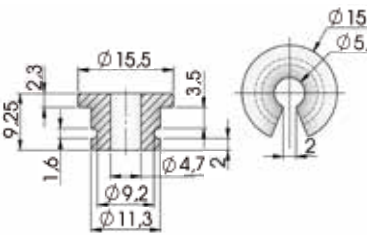
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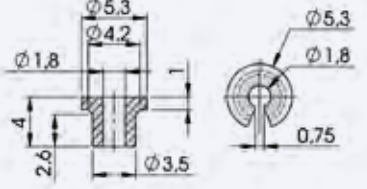
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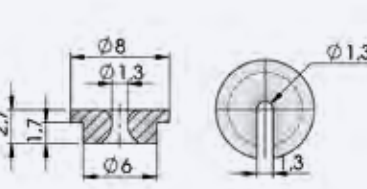
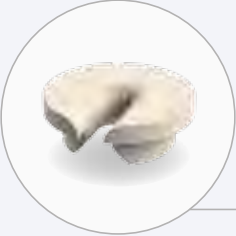
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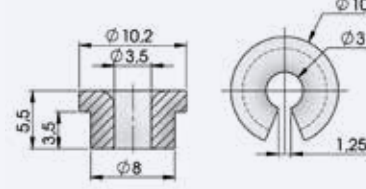
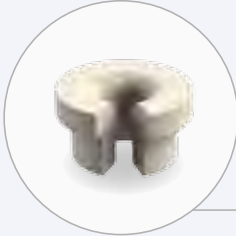
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NW000187



NW000036



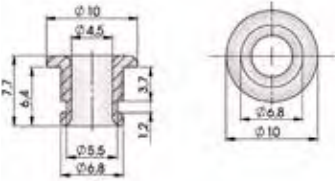
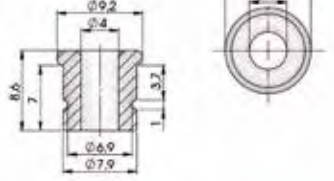
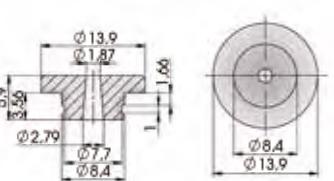
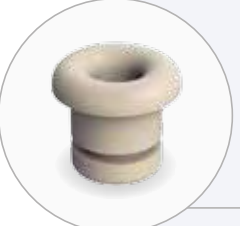
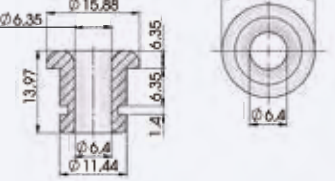
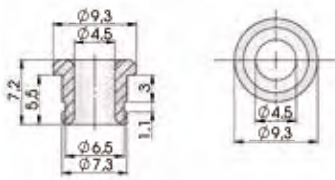
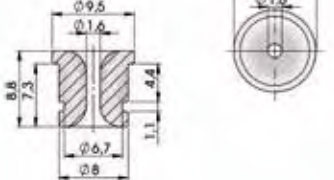
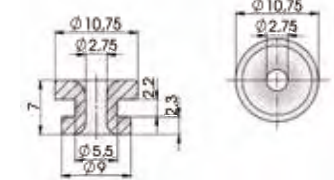
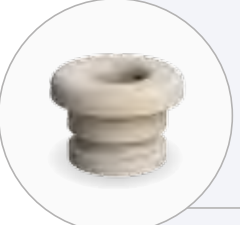
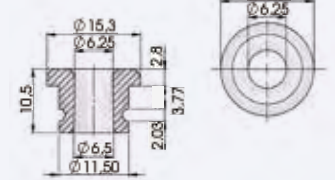
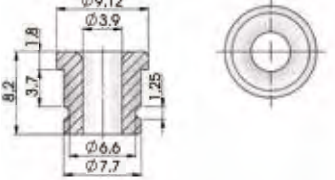
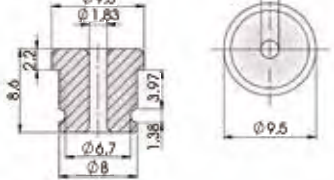
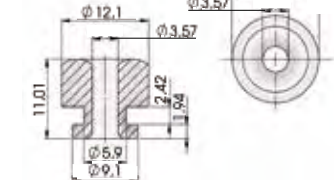
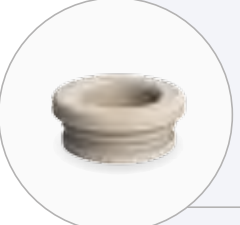
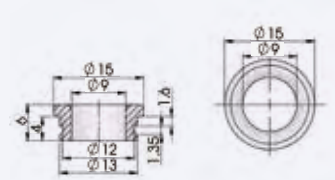
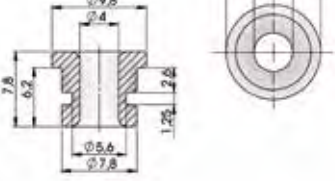
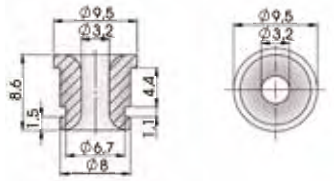
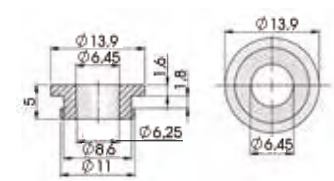
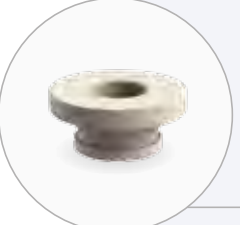
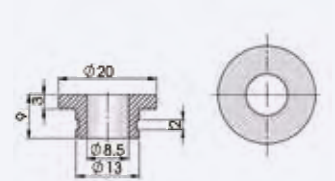
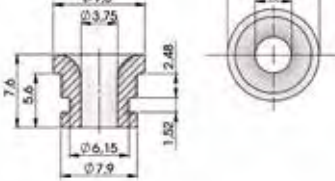
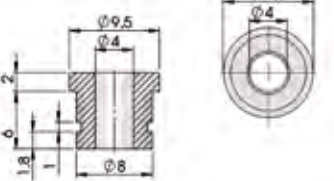
NW000109



# Bundösen mit Sicherungsnut

Grooved Eyelet Guides

Material: 99,7 % Al<sub>2</sub>O<sub>3</sub>, diamantpoliert / diamond-polished  
ZrO<sub>2</sub> auf Anfrage / on request

|                                                                                                                                                                                     |                                                                                                                                                                                         |                                                                                                                                                                                         |                                                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <br>NW000368     |  <br>NW000274      |  <br>NW000342     |  <br>NW000959     |
|  <br>NW000414     |  <br>NW001059      |  <br>NW000858     |  <br>NW000535     |
|  <br>NW000888 |  <br>NW000527  |  <br>NW000615 |  <br>NW000851 |
|  <br>NW000192 |  <br>NW000952T |  <br>NW000375 |  <br>NW138590 |
|  <br>NW000063 |  <br>NW804080  |                                                                                                                                                                                         |                                                                                                                                                                                         |

Alle Maßangaben in mm.

Weitere Abmessungen auf Anfrage.

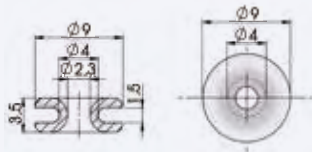
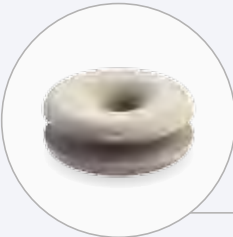
All dimensions in mm.

Further dimensions on request.

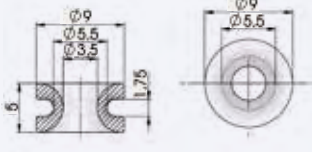
# Doppel-Bundösen

Double Flanged Eyelet Guides

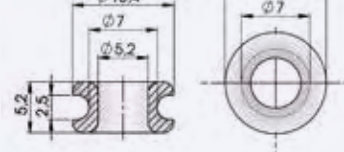
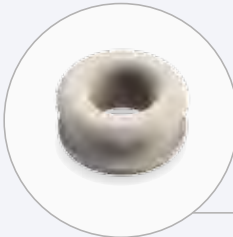
Material: 99,7 % Al<sub>2</sub>O<sub>3</sub>, diamantpoliert / *diamond-polished*  
ZrO<sub>2</sub> auf Anfrage / *on request*



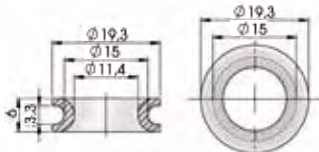
NW000793



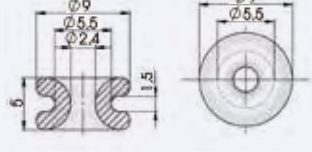
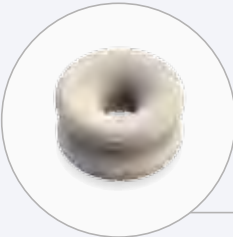
NW000800



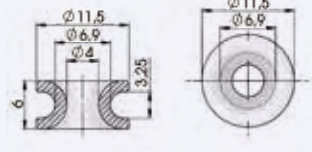
NW000716



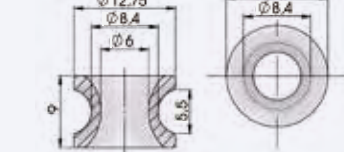
NW000553



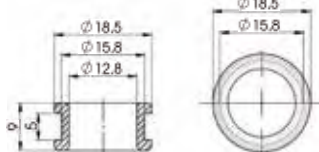
NW000773



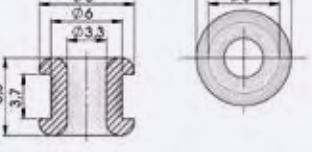
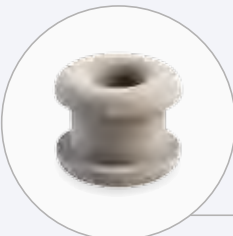
NW001032



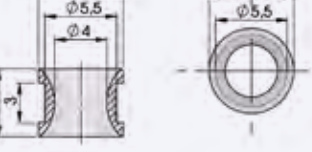
NW000481



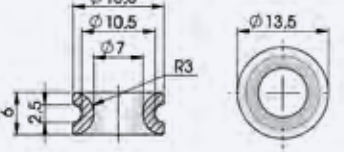
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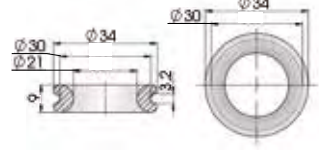
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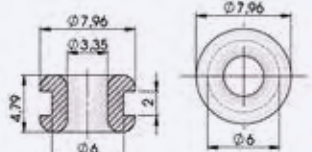
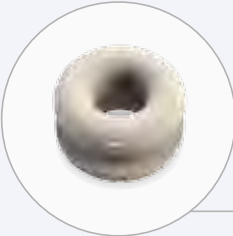
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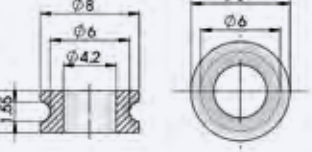
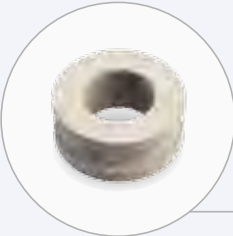
NW147060



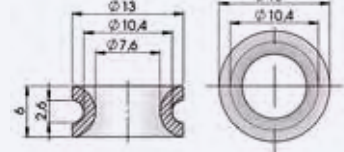
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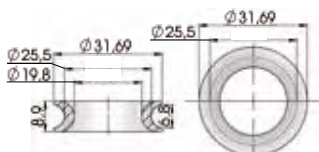
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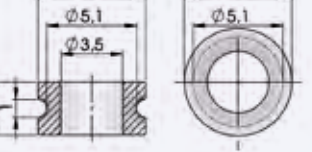
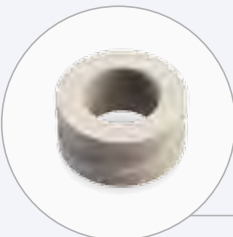
NW000547



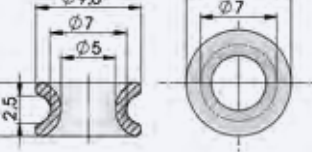
NW000164



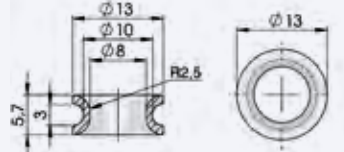
NW000441



NW000267



NW000081



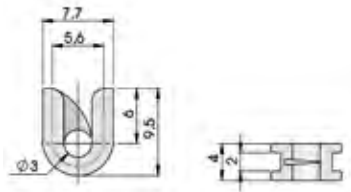
NW130857Z



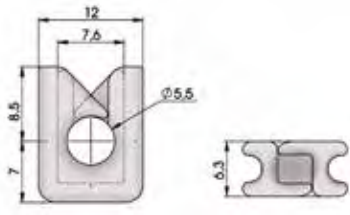
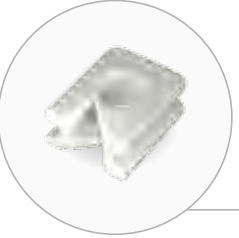
Schlitzführungen

Slit Guides

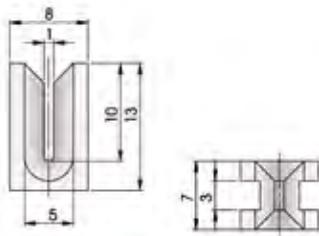
Material: 99,7 % Al<sub>2</sub>O<sub>3</sub>, diamantpoliert / diamond-polished  
ZrO<sub>2</sub> auf Anfrage / on request



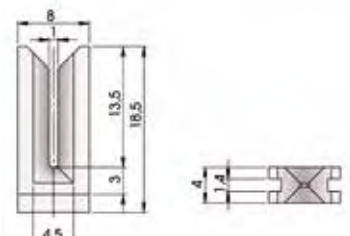
NW803090



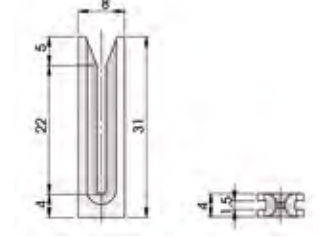
NW125016



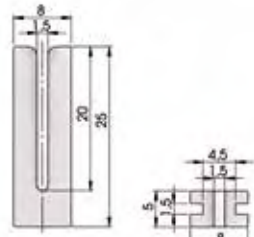
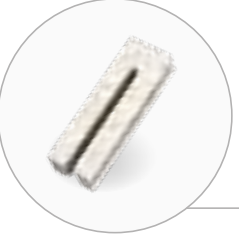
NW801013



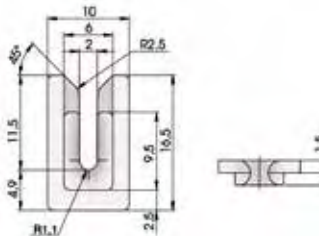
NW801018



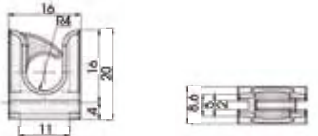
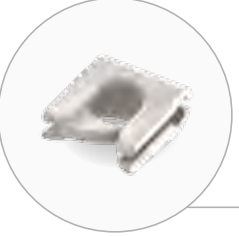
NW801531



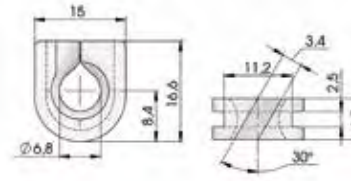
NW001473



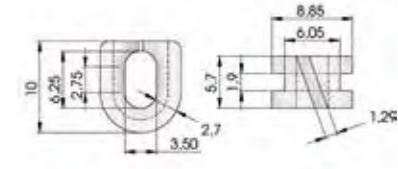
NW571619



NW164020



NW000104



NW001109

Alle Maßangaben in mm. Weitere Abmessungen auf Anfrage.

Keramikstäbe

Ceramic Rods

Material: 99,7 % Al<sub>2</sub>O<sub>3</sub>, diamantpoliert / diamond-polished  
ZrO<sub>2</sub> auf Anfrage / on request



Angepasst an Ihre Wünsche und Anforderungen



In compliance with your wishes and specifications

Keramikstäbe von 3,0 mm – 16,0 mm erhalten Sie aus unserem Standardprogramm und können in allen gängigen Längen bestellt werden.

Sondermaße bieten wie Ihnen natürlich gerne auf Anfrage an. Eine Auflistung der häufigsten Typen, z. B. für Widerstandsglügen oder Drahtkämme, finden Sie hier:

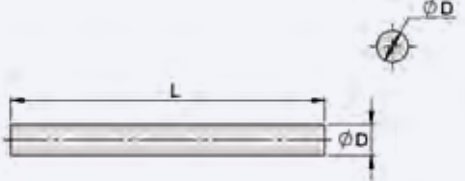
Ceramic rods from 3.0 mm up to 16.0 mm in all common lengths are part of our standard product range.

If you require special measurements, please feel free to contact us. A list of the most common types e.g. for annealers you will find below:

| Ø \ L | 12 | 15 | 18 | 20 | 25 | 30 | 35 | 40 | 50 | 55 | 60 | 65 | 75 | 90 | 100 | 150 | 170 | 185 | 200 | 230 | 265 | 300 | >300 |
|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 3,0   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |      |
| 4,0   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |      |
| 5,0   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |      |
| 6,0   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |      |
| 7,0   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |      |
| 8,0   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |      |
| 10,0  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |      |
| 10,4  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |      |
| 12,0  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |      |
| 15,0  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |      |
| 16,0  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |      |



NW Stab



NW Rod

All dimensions in mm. Further dimensions on request.



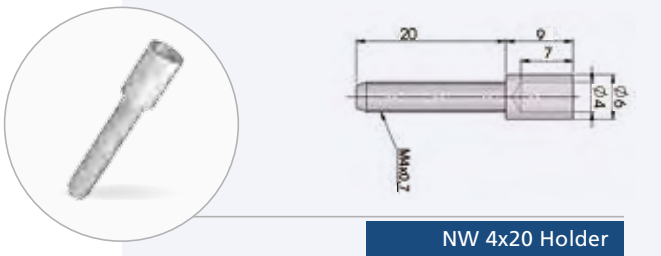
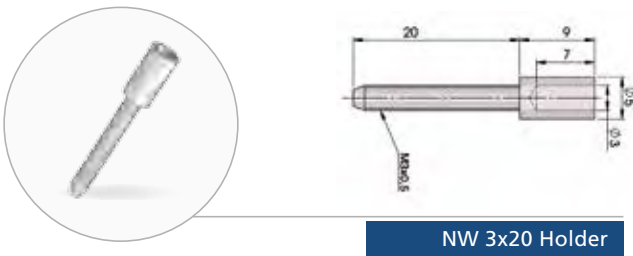
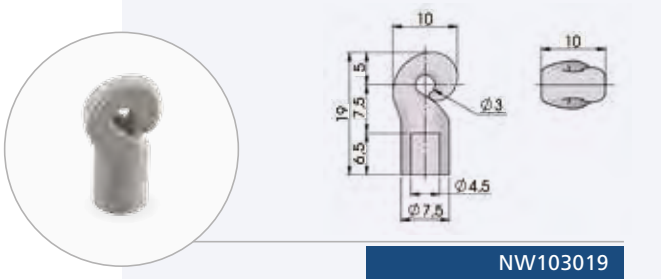
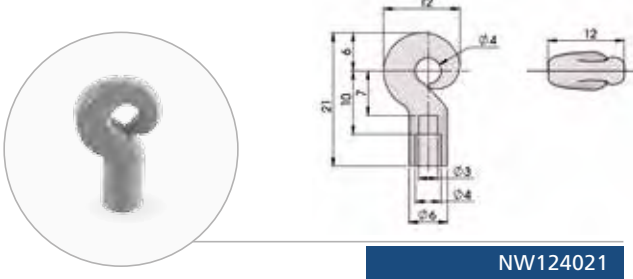
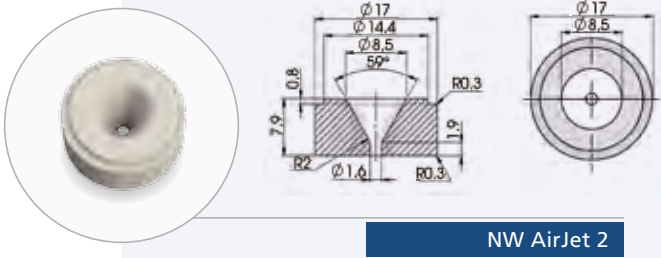
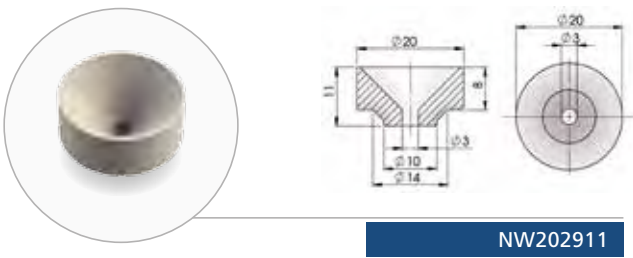
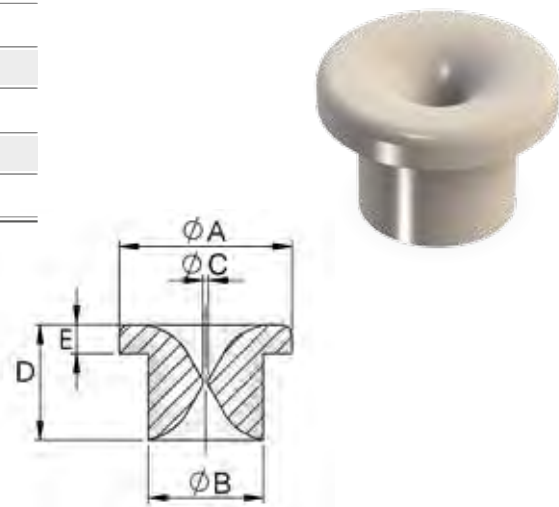


# Drahtrocknungsdüsen

Wire Drying Nozzles

Material: Zirkonoxid  $ZrO_2$  oder 99,7 % Aluminiumoxid  $Al_2O_3$ , diamantpoliert  
Zirconium Oxide  $ZrO_2$  or 99,7 % Aluminium Oxide  $Al_2O_3$ , diamond-polished

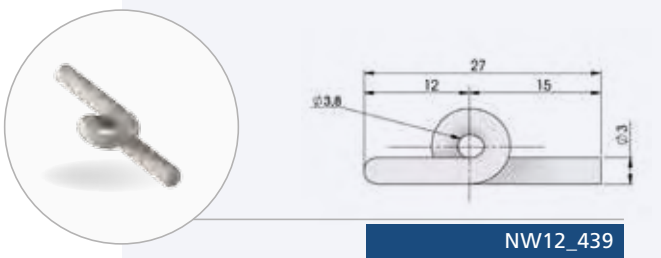
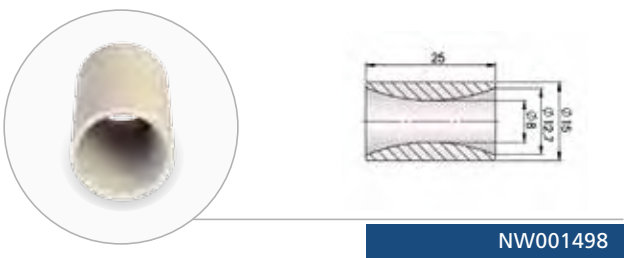
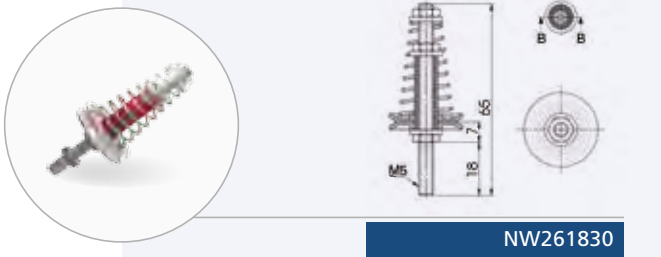
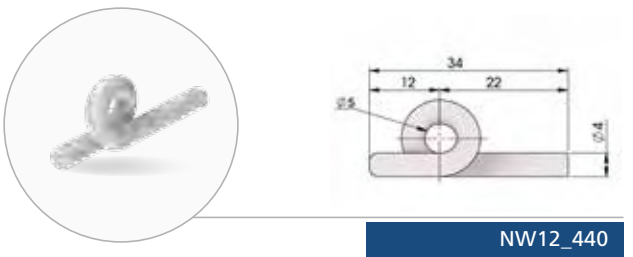
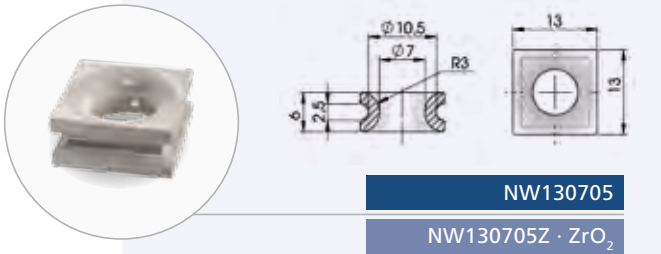
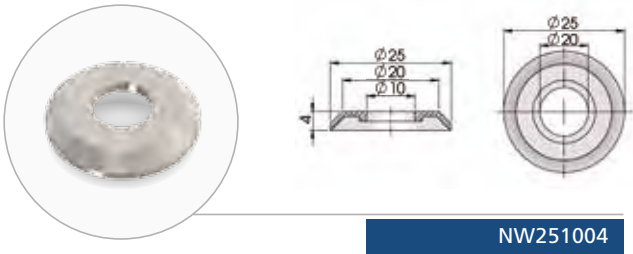
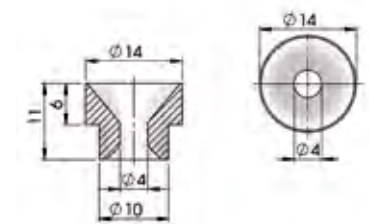
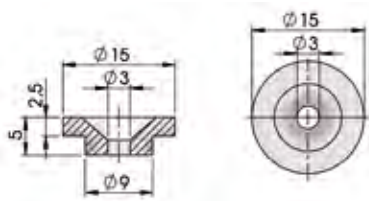
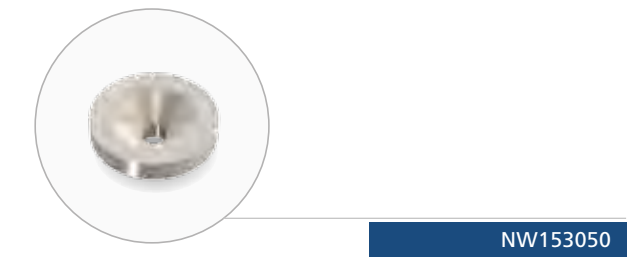
| NW Model No. | A | B | C    | D | E |
|--------------|---|---|------|---|---|
| NW 0,25      | 6 | 4 | 0,25 | 4 | 1 |
| NW 0,3       | 6 | 4 | 0,3  | 4 | 1 |
| NW 0,35      | 6 | 4 | 0,35 | 4 | 1 |
| NW 0,5       | 6 | 4 | 0,5  | 4 | 1 |
| NW 0,75      | 6 | 4 | 0,75 | 4 | 1 |
| NW 1,0       | 6 | 4 | 1    | 4 | 1 |
| NW 2,0       | 6 | 4 | 2    | 4 | 1 |



## Weitere Führungen

Further Guides

Material: 99,7 %  $Al_2O_3$ , diamantpoliert / diamond-polished  
 $ZrO_2$  auf Anfrage / on request





# Drahtleitrollen

Pulleys

 **Bestes Rohmaterial  
für ausgezeichnete Qualität**

Genau wie unsere Keramikführungen erfüllen auch unsere Drahtleitrollen höchste Qualitätsstandards und gehören bei vielen Maschinenherstellern ebenfalls zur Erstausrüstung Ihrer Maschinen. Für unsere Rollen verwenden wir nur erstklassige Keramiken, sei es in Form von Beschichtungen oder massiven Keramik-elementen in Verbundrollen.

Bei Drahtleitrollen ist eine erstklassige Oberflächengüte von besonderer Bedeutung, da diese oft mit dem fertigen Endprodukt unserer Kunden in Berührung kommt. Bei Naber & Wissmann werden Drahtleitrollen daher nach denselben anspruchsvollen Qualitätsstandards gefertigt wie unsere Ziehwerkzeuge.

Sollten Sie auf den folgenden Seiten keine passende Rolle für Ihre Anwendung finden, benutzen Sie doch unser Anfrageformular oder kontaktieren Sie uns direkt. Wir unterbreiten Ihnen dann umgehend ein Angebot.

 **First class raw material  
for excellent quality**

*As well as our wire guides, our pulleys also meet highest quality standards and are OEM parts for many machine builders. In order to produce our pulleys we are only using first-class ceramic coatings for aluminium and steel pulleys or solid ceramic parts for our composite pulleys.*

*Due to the fact that pulleys often are in direct contact with the final goods of our customers, an excellent surface quality is required. Therefore, Naber & Wissmann produces pulleys to the same high quality standards like their drawing tools.*

*If you will not find a matching pulley on the following pages, please use our inquiry form or feel free to contact us directly.*



Alle Maßangaben in mm.

Weitere Abmessungen auf Anfrage.

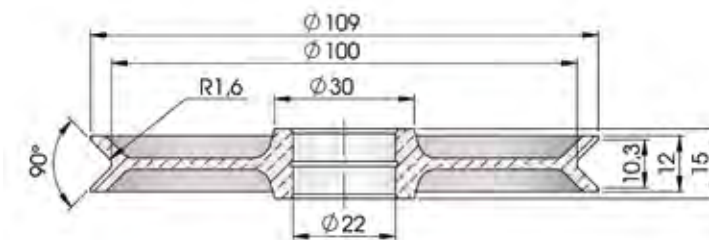
# Keramisch beschichtete Aluminiumrollen

mit NWK-75 Aluminiumoxid oder NWK-78 Chromoxid Beschichtung

*Ceramic Coated Aluminium Pulleys*

*with NWK-75 Aluminium Oxide or NWK-78 Chrome Oxide Coating*

NW001666

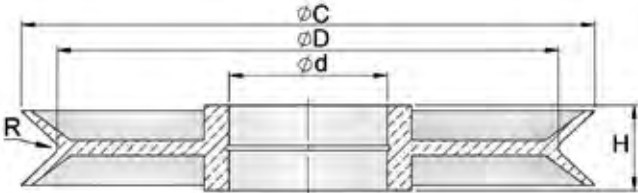
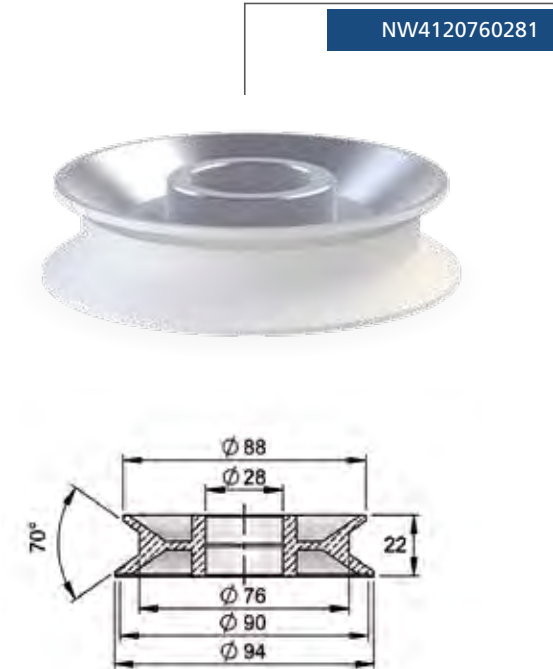
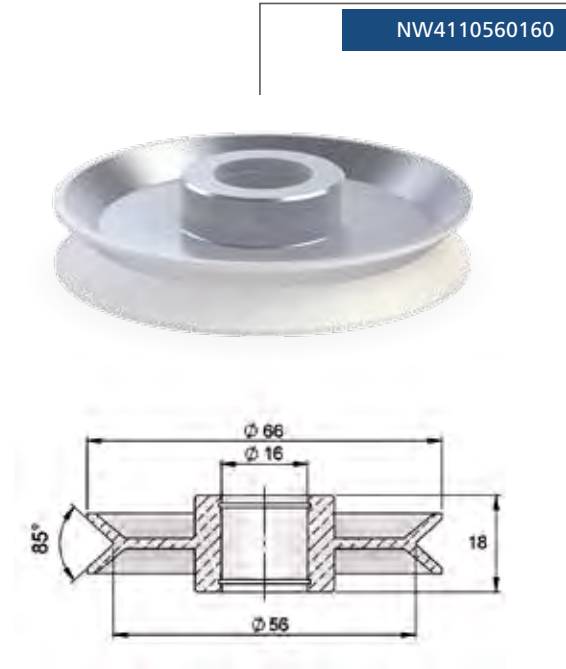
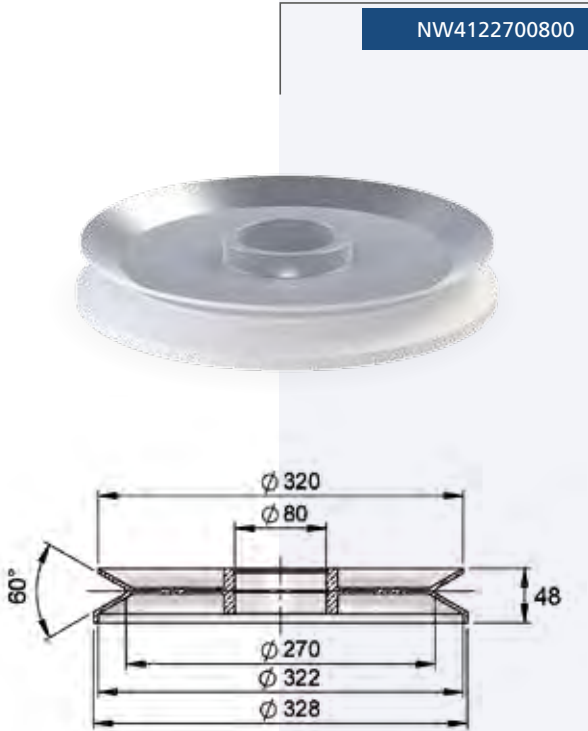
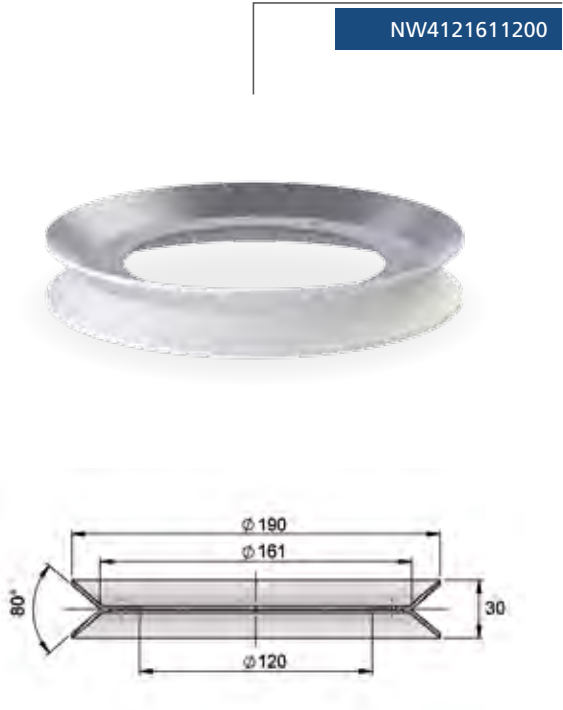
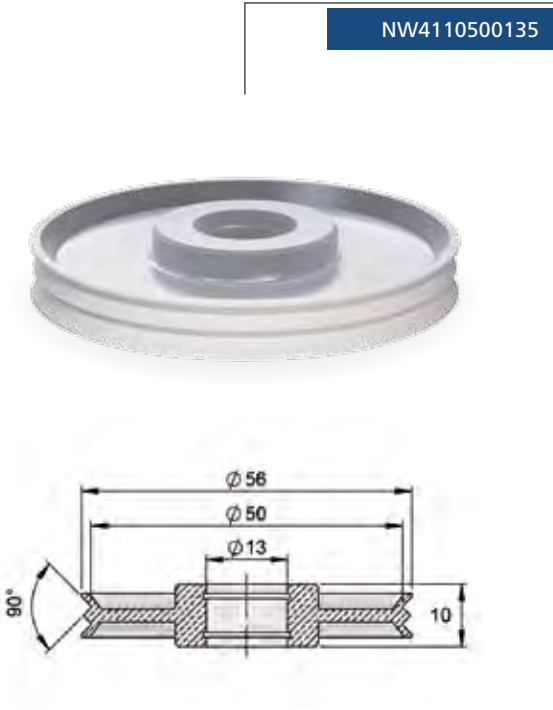
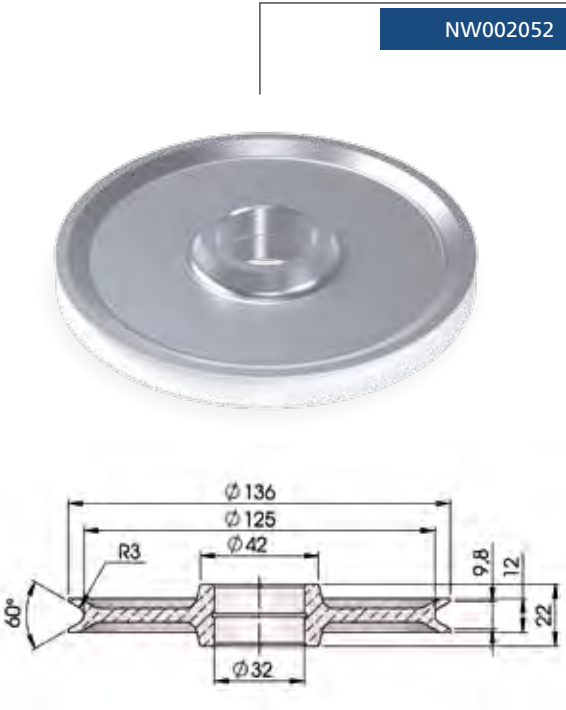


All dimensions in mm.

Further dimensions on request.

Keramisch beschichtete Aluminiumrollen  
mit NWK-75 Aluminiumoxid oder NWK-78 Chromoxid Beschichtung, poliert

Ceramic Coated Aluminium Pulleys  
with NWK-75 Aluminium Oxide or NWK-78 Chrome Oxide Coating, polished

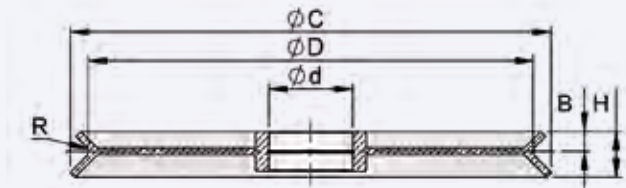


| NW Model No. | D    | d    | H  | C    | R   | α   |
|--------------|------|------|----|------|-----|-----|
| NW025        | Ø 25 | Ø 13 | 11 | Ø 33 | 0,4 | 70° |
| NW040        | Ø 40 | Ø 13 | 11 | Ø 47 | 0,6 | 70° |
| NW063        | Ø 63 | Ø 13 | 11 | Ø 74 | 1   | 70° |



Keramisch beschichtete Aluminiumrollen  
mit NWK-75 Aluminiumoxid oder NWK-78 Chromoxid Beschichtung, poliert

Ceramic Coated Aluminium Pulleys  
with NWK-75 Aluminium Oxide or NWK-78 Chrome Oxide Coating, polished

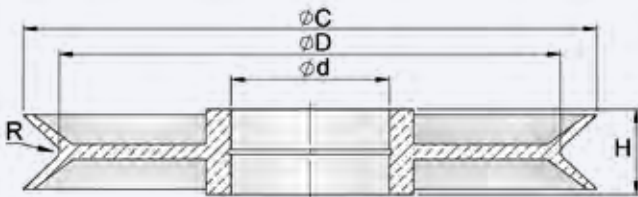
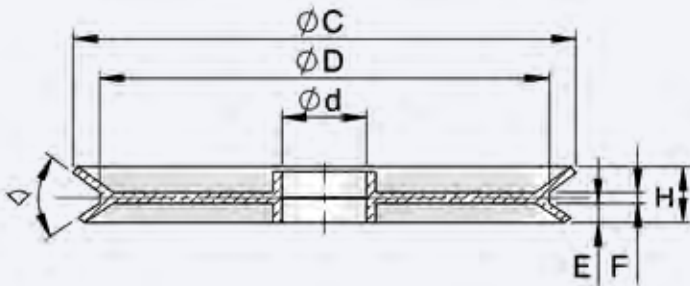


Schachtelrollen mit Radius in der Lauflfläche  
Overlapping pulleys with radius in running surface

| NW Model No. | D     | d    | H    | B    | C     | R   | α   |
|--------------|-------|------|------|------|-------|-----|-----|
| NW100R       | Ø 100 | Ø 35 | 24,4 | 10,7 | Ø 120 | 1,6 | 90° |
| NW125R       | Ø 125 | Ø 35 | 24,4 | 10,7 | Ø 145 | 2   | 90° |
| NW160R       | Ø 160 | Ø 35 | 25   | 10,7 | Ø 180 | 2,5 | 90° |
| NW191R       | Ø 191 | Ø 35 | 25   | 10,7 | Ø 210 | 3   | 90° |
| NW250R       | Ø 250 | Ø 47 | 30,5 | 13,1 | Ø 272 | 4   | 90° |
| NW318R       | Ø 318 | Ø 75 | 40,7 | 17,7 | Ø 349 | 5   | 90° |
| NW400R       | Ø 400 | Ø 75 | 40,7 | 17,7 | Ø 430 | 6   | 90° |

Schachtelrollen mit zylindrischer Lauflfläche  
Interlock-Pulleys with a flat running surface

| NW Model No. | D     | d    | H    | F   | C     | E    | α   |
|--------------|-------|------|------|-----|-------|------|-----|
| NW100Z       | Ø 100 | Ø 35 | 24,3 | 4   | Ø 125 | 8,9  | 70° |
| NW100Za      | Ø 100 | Ø 42 | 28,1 | 7,4 | Ø 129 | 9,1  | 65° |
| NW125Z       | Ø 125 | Ø 35 | 24,2 | 5   | Ø 149 | 8,4  | 70° |
| NW160Z       | Ø 160 | Ø 35 | 24,8 | 5   | Ø 184 | 8,4  | 70° |
| NW191Z       | Ø 191 | Ø 35 | 24,8 | 5   | Ø 215 | 8,4  | 70° |
| NW250Z       | Ø 250 | Ø 47 | 31,1 | 6   | Ø 279 | 10,7 | 70° |



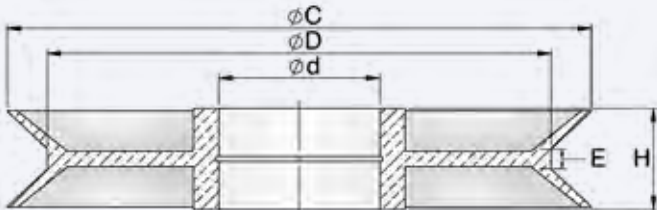
NW-V Rollen mit Radius in der Lauflfläche  
NW-V Pulleys with a radius in the running surface

| NW Model No. | D     | C     | H    | R   | d      |
|--------------|-------|-------|------|-----|--------|
| NW25V        | Ø 25  | Ø 35  | 11   | 0,4 | OPTION |
| NW40V        | Ø 40  | Ø 51  | 11   | 0,5 |        |
| NW50V        | Ø 50  | Ø 61  | 11   | 0,5 |        |
| NW60V        | Ø 60  | Ø 72  | 11   | 1   |        |
| NW70V        | Ø 70  | Ø 82  | 13   | 1   |        |
| NW80V        | Ø 80  | Ø 94  | 15   | 1,5 |        |
| NW100V       | Ø 100 | Ø 116 | 17,2 | 1,5 |        |
| NW125V       | Ø 125 | Ø 147 | 21,5 | R2  |        |



NW-U Rollen mit zylindrischer Lauflfläche  
NW-U Pulleys with a flat running surface

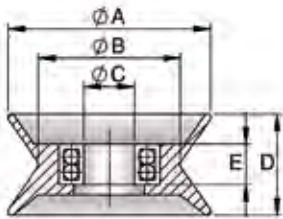
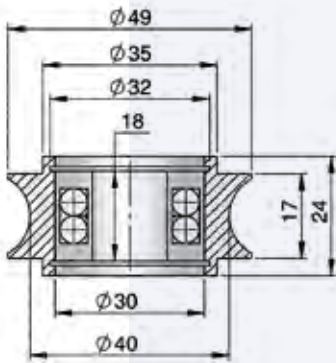
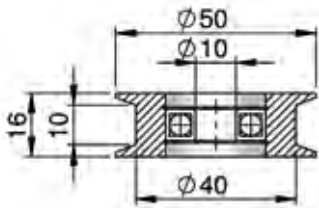
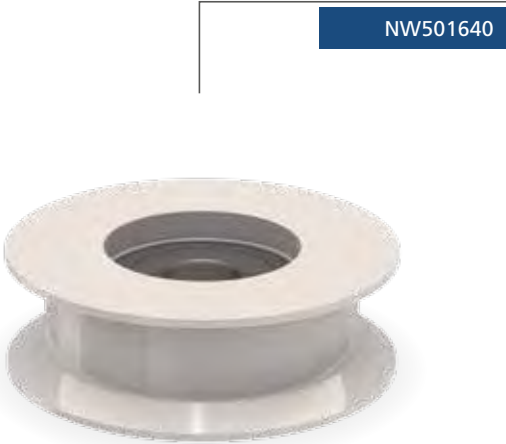
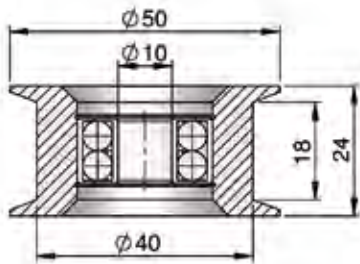
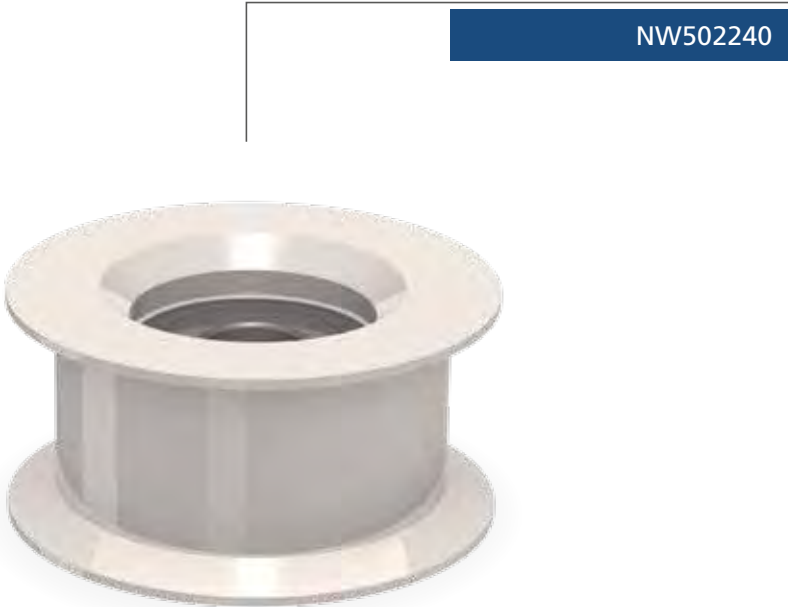
| NW Model No. | D     | C     | H    | E | d      |
|--------------|-------|-------|------|---|--------|
| NW25U        | Ø 25  | Ø 35  | 11   | 2 | OPTION |
| NW40U        | Ø 40  | Ø 51  | 11   | 2 |        |
| NW50U        | Ø 50  | Ø 61  | 11   | 2 |        |
| NW60U        | Ø 60  | Ø 72  | 13   | 3 |        |
| NW70U        | Ø 70  | Ø 82  | 13   | 3 |        |
| NW80U        | Ø 80  | Ø 94  | 15   | 4 |        |
| NW100U       | Ø 100 | Ø 116 | 17,2 | 4 |        |
| NW125U       | Ø 125 | Ø 147 | 21,5 | 5 |        |



# Massive Keramikrollen

Solid Ceramic Pulleys

Material: 99,7 %  $\text{Al}_2\text{O}_3$   
Lauffläche diamantpoliert / Running Surface diamond-polished

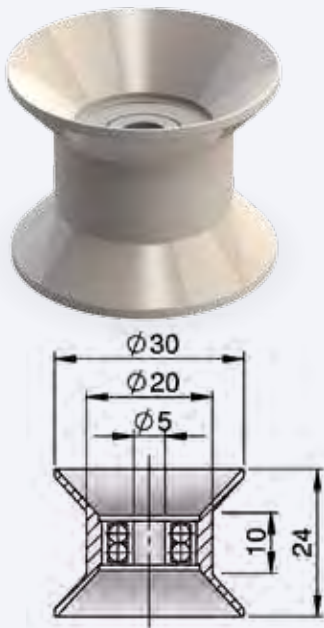


| NW Model No. | A         | B          | C              | D   | E   |
|--------------|-----------|------------|----------------|-----|-----|
| NW142010     | $\phi 20$ | $\phi 14$  | $\phi 4$       | 10  | 4   |
| NW101414     | $\phi 14$ | $\phi 10$  | $\phi 3$       | 6   | 3   |
| NW701104     | $\phi 11$ | $\phi 7,5$ | $\phi 2$       | 4   | 3   |
| NW801010     | $\phi 10$ | $\phi 8$   | $\phi 2$       | 4   | 3   |
| NWS71035     | $\phi 10$ | $\phi 7$   | $\phi 1,5 (2)$ | 3,5 | 2,5 |
| NWS60830     | $\phi 8$  | $\phi 6$   | $\phi 2$       | 3   | 2,3 |

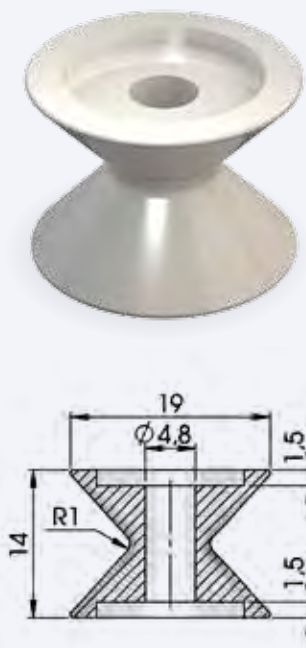


Massive Keramikrollen  
Solid Ceramic Pulleys

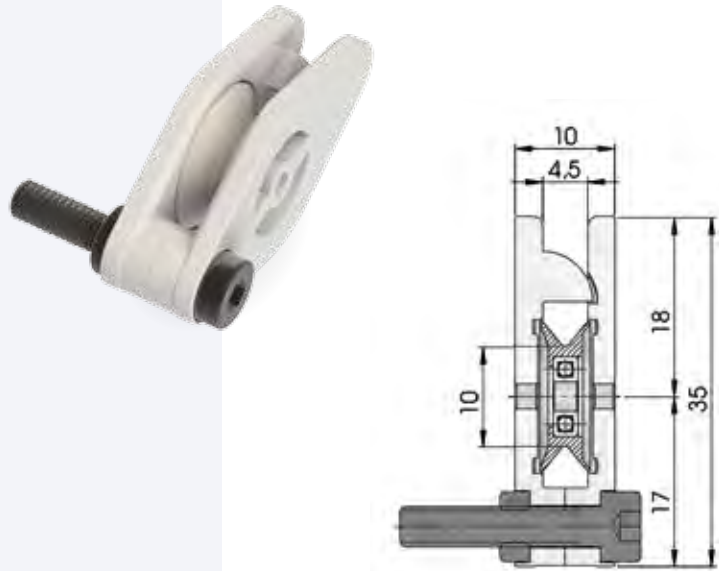
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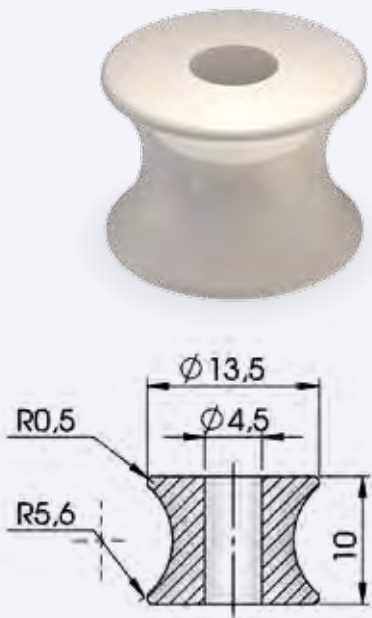
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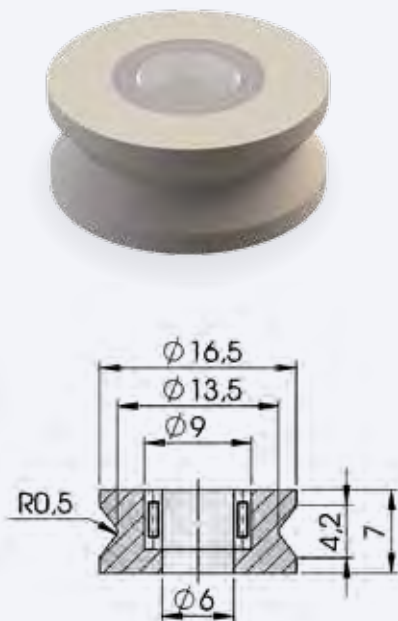
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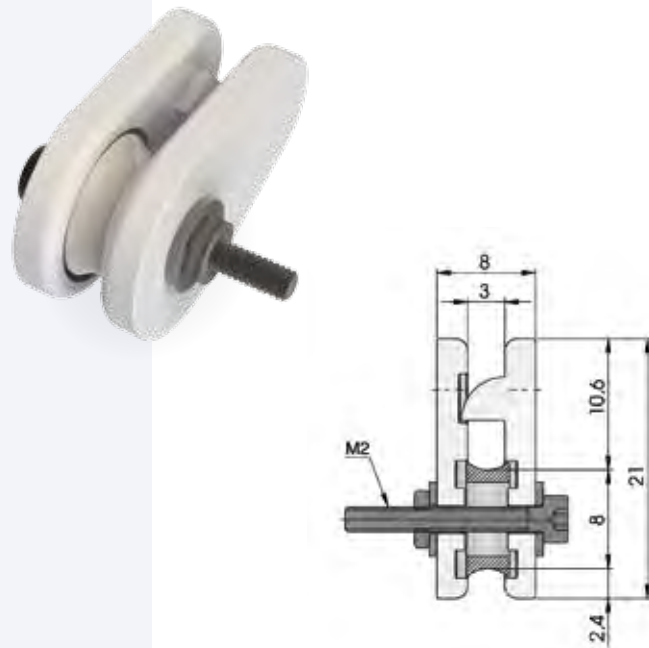
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NW001527



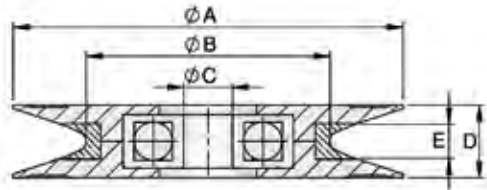
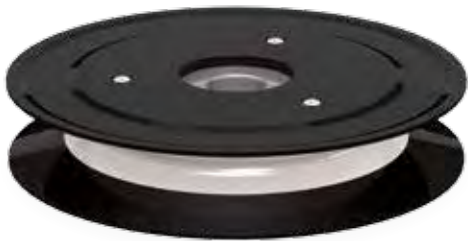
NW071020



# Keramik-/ Kunststoffverbundrollen

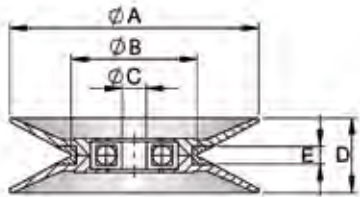
Ceramic-/ Plastic-Composite Pulleys

Material: 99,7 % Al<sub>2</sub>O<sub>3</sub>, diamantpoliert / *diamond-polished*  
ZrO<sub>2</sub> auf Anfrage / *on request*



| NW Model No. | A    | B    | C    | D  | E   |
|--------------|------|------|------|----|-----|
| NW152020     | Ø 20 | Ø 15 | Ø 3  | 5  | 2   |
| NW203030     | Ø 30 | Ø 20 | Ø 4  | 8  | 2,5 |
| NW304545     | Ø 45 | Ø 30 | Ø 6  | 10 | 4   |
| NW406060     | Ø 60 | Ø 40 | Ø 8  | 11 | 4   |
| NW507070     | Ø 70 | Ø 50 | Ø 10 | 7  | 4   |
| NW508080     | Ø 80 | Ø 50 | Ø 10 | 15 | 7   |

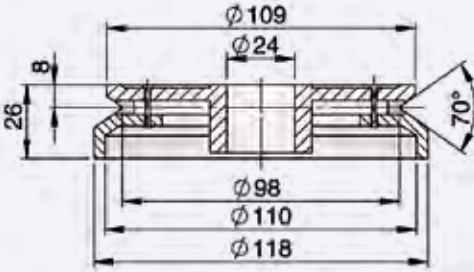
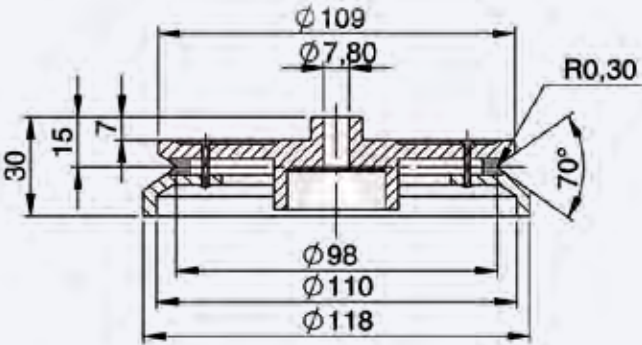
| NW Model No. | A     | B    | C    | D  | E   |
|--------------|-------|------|------|----|-----|
| NW153030     | Ø 30  | Ø 15 | Ø 3  | 10 | 2   |
| NW204040     | Ø 40  | Ø 20 | Ø 4  | 15 | 2,5 |
| NW306060     | Ø 60  | Ø 30 | Ø 6  | 20 | 4   |
| NW408080     | Ø 80  | Ø 40 | Ø 8  | 24 | 4   |
| NW501001     | Ø 100 | Ø 50 | Ø 10 | 30 | 7   |



# Keramik-/ Aluminiumverbundrollen

Ceramic-/ Aluminium-Composite Pulleys

Material: 99,7 % Al<sub>2</sub>O<sub>3</sub>, diamantpoliert / *diamond-polished*  
ZrO<sub>2</sub> auf Anfrage / *on request*

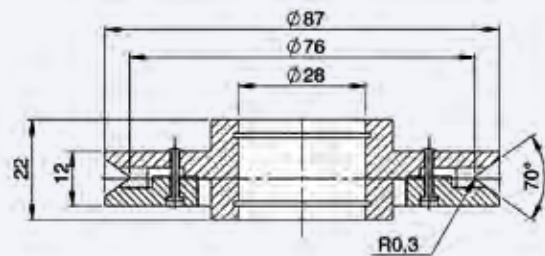


Keramik- / Aluminiumverbundrollen  
Ceramic- / Aluminium-Composite Pulleys

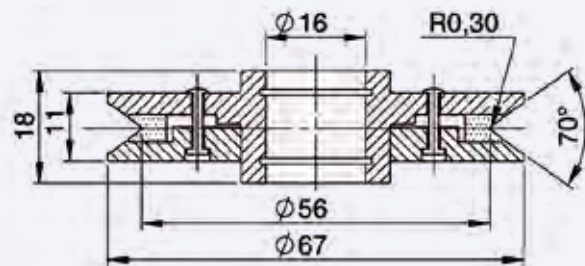
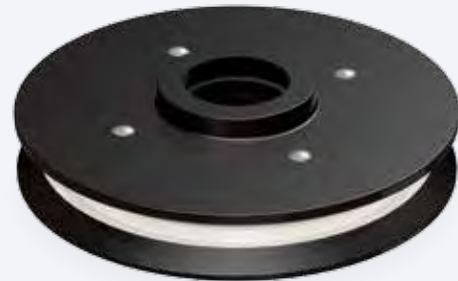
NW4120760282

NW4120760282-a \*

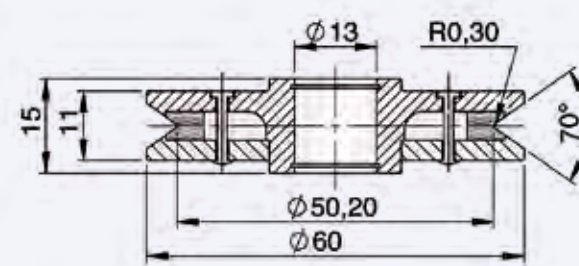
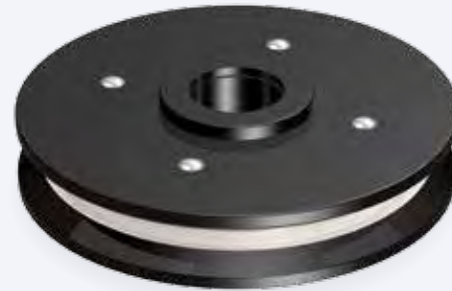
\* Gesamtbreite: 24,0  
Total width: 24,0



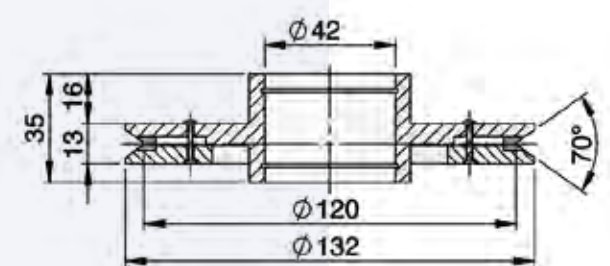
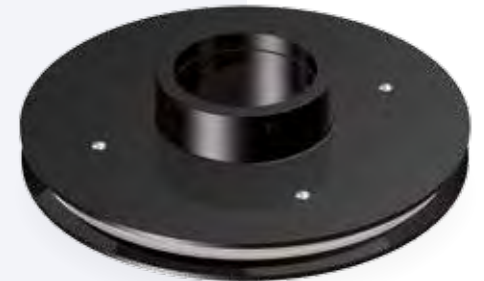
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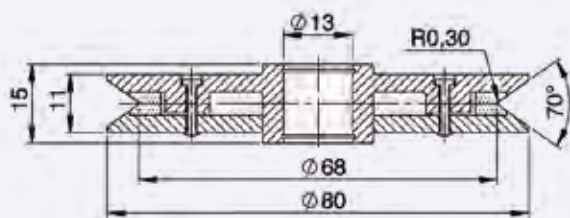
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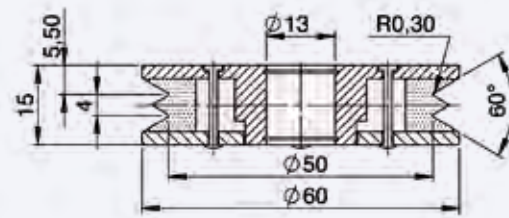
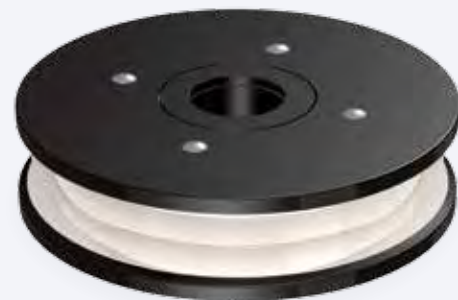
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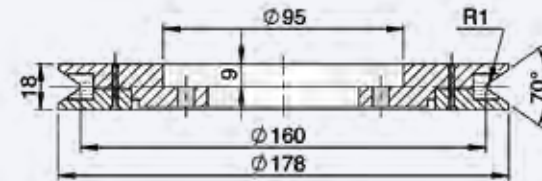
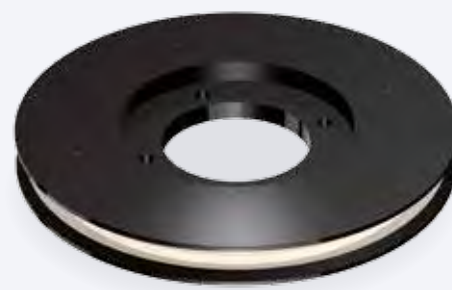
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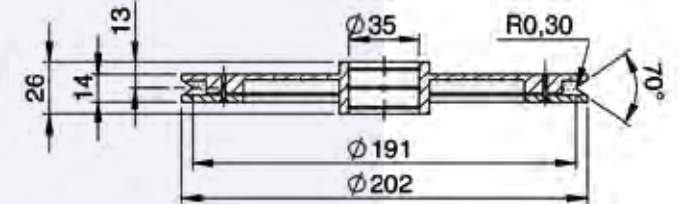
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NW4121600952

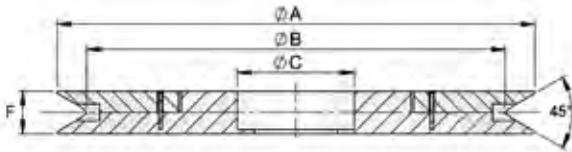
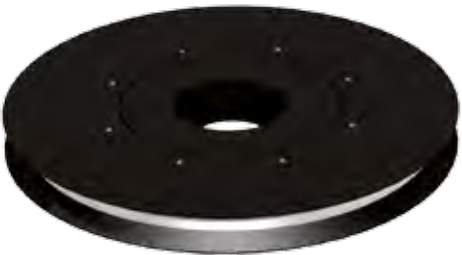


NW4111910352





Keramik- / Aluminiumverbundrollen  
Ceramic- / Aluminium-Composite Pulleys



| NW Model No. | A     | B     | C                          | F  |
|--------------|-------|-------|----------------------------|----|
| NW-C-80      | Ø 100 | Ø 80  | O<br>P<br>T<br>I<br>O<br>N | 16 |
| NW-C-100     | Ø 120 | Ø 100 |                            | 16 |
| NW-C-120     | Ø 140 | Ø 120 |                            | 16 |
| NW-C-140     | Ø 160 | Ø 140 |                            | 16 |
| NW-C-160     | Ø 185 | Ø 160 |                            | 20 |
| NW-C-180     | Ø 205 | Ø 180 |                            | 20 |
| NW-C-200     | Ø 225 | Ø 200 |                            | 20 |

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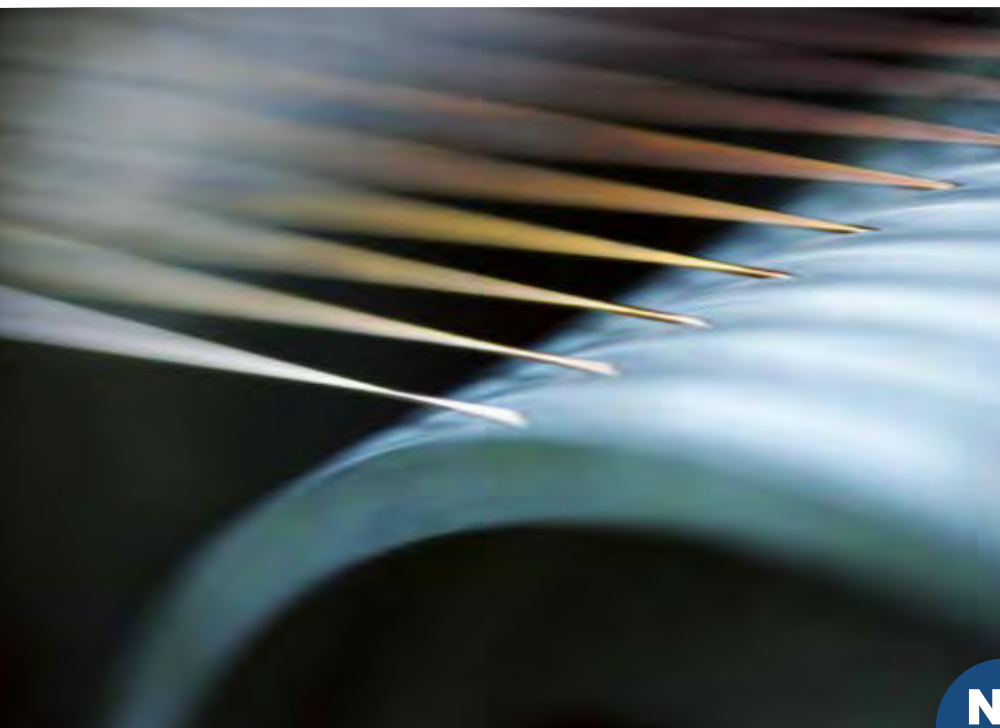
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