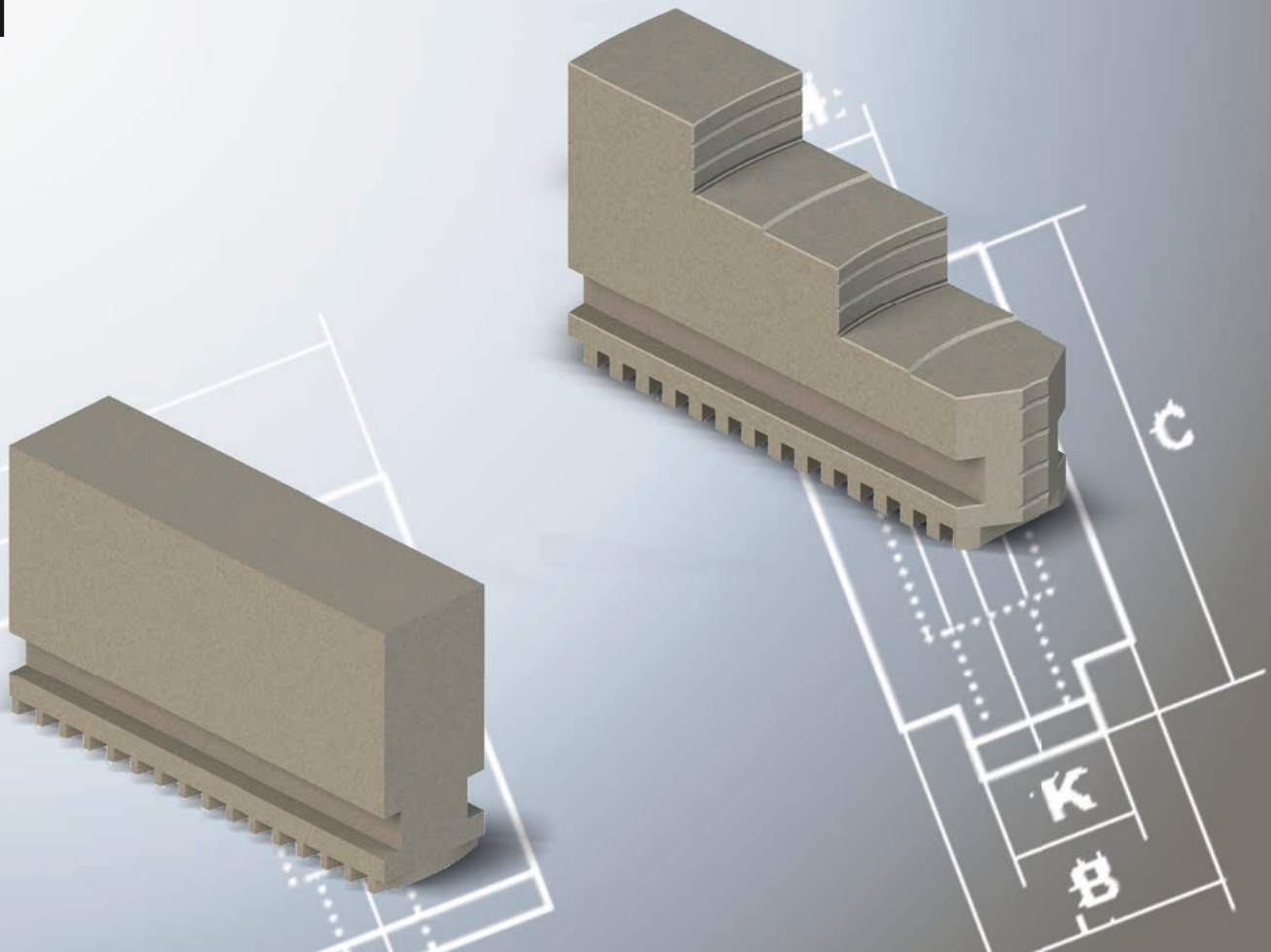


**Weiche Spannbacken**

Soft jaws

Mors doux

**400-M**







**Allgemeine Hinweise:**  
**General Instructions**  
**Instructions générale:**

**Maße und Gewichtsangaben gelten für gegossene Körper**

Dimensions and weights are for cast body  
Dimensions et poids sont pour le corps moulé

**Planscheiben ab Ø 450 mm sind inkl. T-Nuten**

Independent chucks from Ø 450 mm incl. T-slots  
Plateaux avec rainures en Té à partir de Ø 450 mm

**Angaben ohne Gewähr, Irrtümer und technische Änderungen vorbehalten**

All specifications without guarantee, errors and omissions expected, subject to change  
Sous réserve d'erreur et de modification technique

1. Auflage April 2015

[www.SwissChuck.com](http://www.SwissChuck.com)

**Inhaltsverzeichnis**  
**Table of contents**  
**Table des matières**

**Seite**  
**Page**  
**Page**

|                           |                                             |   |
|---------------------------|---------------------------------------------|---|
| <b>Weiche Blockbacken</b> | AMESTRA                                     | 5 |
| One piece soft jaws       | FPA - POLAN - LADNER - LA                   | 6 |
| Mors doux monoblocs       | RÖHM - CURIAL - HANDY                       | 7 |
|                           | VACHETTE - EMCO - KLOPFER - PRATT - BURNERD | 8 |
|                           | PRATT - BURNERD                             | 9 |
|                           | TOS                                         | 9 |

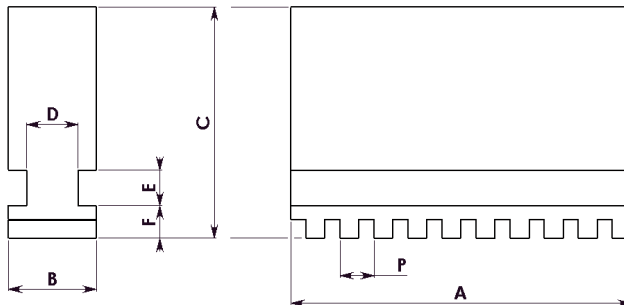
|                             |                      |       |
|-----------------------------|----------------------|-------|
| <b>Weiche Aufsatzbacken</b> | AMESTRA              | 10    |
| Soft top jaws               | ISO - CURIAL - HANDY | 10-11 |
| Mors doux rapportes         | VACHETTE             | 11    |

|                              |                      |                                  |       |
|------------------------------|----------------------|----------------------------------|-------|
| <b>Spitzverzahnte Backen</b> | 1/16"x90°            | AUTOBLOK - RÖHM - FORKARDT - SMW | 12    |
| Serrated top jaws            |                      | BERG - HOFMANN - PRATT           |       |
| Mors doux stries             | 3/32"x90°            | AUTOBLOK - RÖHM - FORKARDT - SMW | 13    |
|                              |                      | BERG - HOFMANN - PRATT           |       |
|                              | 1/16"x90°            | GAMET MAC - GAMET GA             | 14    |
|                              | 1/16"x90°, 1,5x60°   | GAMET NO - MO - GO               | 15    |
|                              | 1,5x60°, 3,0x60°     | KITAGAWA - HOWA - NIKKO          | 15-16 |
|                              |                      | MATSUMOTO - PRATT BURNERD        |       |
|                              | 1/16"x90°, 3/32"x90° | AUTOBLOK - FORKARDT              | 17    |
|                              | 1,5x60°, 3,0x60°     | KITAGAWA - MATSUMOTO - HOWA      | 18    |
|                              | 1/16"x90°, 3/32"x60° | RÖHM                             | 19    |
|                              | 2,5x60°              | LADNER                           | 19    |

|                             |                         |    |
|-----------------------------|-------------------------|----|
| <b>Weiche Segmentbacken</b> | <b>ISO Kreuzversatz</b> | 20 |
| Wrap around soft jaws       | ISO tongue and groove   |    |
| Mors enveloppants           | Fraisage en croix ISO   |    |
|                             | <b>Spitzverzahnt</b>    | 20 |
|                             | Serrated                |    |
|                             | Stries                  |    |
|                             | <b>Schwalbenschwanz</b> | 21 |
|                             | Dovetailed              |    |
|                             | Queue d'aronde          |    |

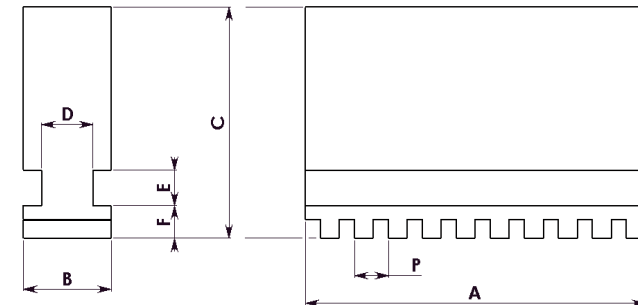
## AMESTRA

**neue Ausführung**  
 new line  
 nouveau modèle



## AMESTRA

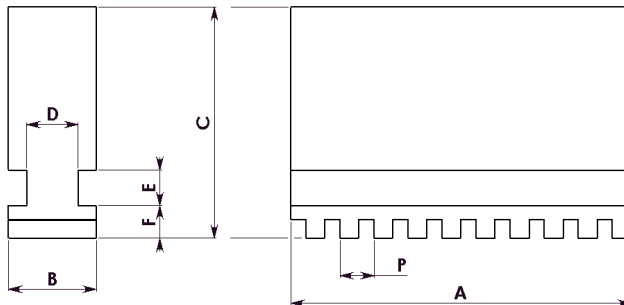
**alte Ausführung**  
 old line  
 ancien modèle



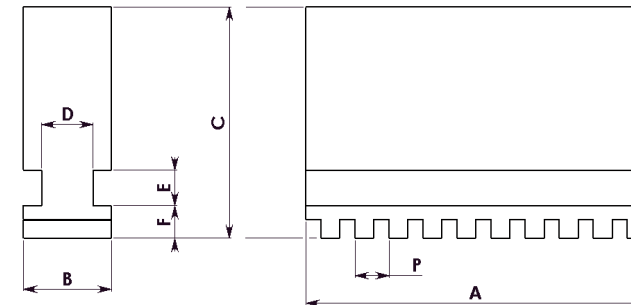
| Technische Daten - Technical data - Données techniques |     |      |     |      |      |      |    |  |  | Bestell-Nummer<br>Order number<br>Numéro de commande |             |             |             |
|--------------------------------------------------------|-----|------|-----|------|------|------|----|--|--|------------------------------------------------------|-------------|-------------|-------------|
| Diametre                                               | A   | B    | C   | D    | E    | F    | P  |  |  | 3                                                    | 3           | 4           | 4           |
| 100                                                    | 40  | 12   | 40  | 7    | 6    | 6    | 6  |  |  | 401.108.000                                          | 401.108.001 | 401.119.000 | 401.119.001 |
| 125                                                    | 50  | 20   | 43  | 11   | 8    | 8    | 6  |  |  | 401.109.000                                          | 401.109.001 | 401.120.000 | 401.120.001 |
| 160                                                    | 60  | 19,8 | 48  | 11   | 8,4  | 7,6  | 8  |  |  | 401.110.000                                          | 401.110.001 | 401.121.000 | 401.121.001 |
| 200                                                    | 78  | 26   | 59  | 15   | 10   | 10   | 8  |  |  | 401.111.000                                          | 401.111.001 | 401.122.000 | 401.122.001 |
| 250                                                    | 100 | 25,8 | 68  | 15   | 10,4 | 9,6  | 10 |  |  | 401.112.000                                          | 401.112.001 | 401.123.000 | 401.123.001 |
| 315                                                    | 120 | 32   | 78  | 21   | 12   | 12   | 10 |  |  | 401.113.000                                          | 401.113.001 | 401.124.000 | 401.124.001 |
| 350                                                    | 130 | 38   | 88  | 21,5 | 12   | 11,3 | 10 |  |  | 401.114.000                                          | 401.114.001 | 401.125.000 | 401.125.001 |
| 400                                                    | 130 | 38   | 88  | 21,5 | 12   | 11,3 | 10 |  |  | 401.115.000                                          | 401.115.001 | 401.126.000 | 401.126.001 |
| 500                                                    | 158 | 42   | 98  | 28   | 14   | 13,3 | 12 |  |  | 401.116.000                                          | 401.116.001 | 401.127.000 | 401.127.001 |
| 600                                                    | 158 | 50   | 108 | 35   | 14   | 13,3 | 12 |  |  | 401.117.000                                          | 401.117.001 | 401.128.000 | 401.128.001 |
|                                                        |     |      |     |      |      |      |    |  |  |                                                      |             |             |             |
|                                                        |     |      |     |      |      |      |    |  |  |                                                      |             |             |             |
|                                                        |     |      |     |      |      |      |    |  |  |                                                      |             |             |             |
|                                                        |     |      |     |      |      |      |    |  |  |                                                      |             |             |             |
|                                                        |     |      |     |      |      |      |    |  |  |                                                      |             |             |             |
|                                                        |     |      |     |      |      |      |    |  |  |                                                      |             |             |             |
|                                                        |     |      |     |      |      |      |    |  |  |                                                      |             |             |             |

| Technische Daten - Technical data - Données techniques |     |    |     |      |     |      |    |  |  | Bestell-Nummer<br>Order number<br>Numéro de commande |             |             |             |
|--------------------------------------------------------|-----|----|-----|------|-----|------|----|--|--|------------------------------------------------------|-------------|-------------|-------------|
| Diametre                                               | A   | B  | C   | D    | E   | F    | P  |  |  | 3                                                    | 3           | 4           | 4           |
| 160                                                    | 60  | 23 | 50  | 15   | 8,5 | 8,3  | 7  |  |  | 480.160.000                                          | 480.160.001 | 480.160.500 | 480.160.501 |
| 200/215                                                | 78  | 28 | 58  | 18   | 10  | 9,3  | 8  |  |  | 480.200.000                                          | 480.200.001 | 480.200.500 | 480.200.501 |
| 250                                                    | 96  | 33 | 68  | 19,5 | 12  | 10,3 | 8  |  |  | 480.250.000                                          | 480.250.001 | 480.250.500 | 480.250.501 |
| 250                                                    | 96  | 33 | 58  | 19,5 | 12  | 10,3 | 10 |  |  | 480.251.000                                          | 480.251.001 | 480.251.500 | 480.251.501 |
| 300/315                                                | 108 | 38 | 78  | 21,5 | 12  | 11,3 | 10 |  |  | 480.315.000                                          | 480.315.001 | 480.315.500 | 480.315.501 |
| 350                                                    | 130 | 38 | 88  | 21,5 | 12  | 11,3 | 10 |  |  | 401.114.000                                          | 401.114.001 | 401.125.000 | 401.125.001 |
| 390/400                                                | 130 | 38 | 88  | 21,5 | 12  | 11,3 | 10 |  |  | 401.114.000                                          | 401.114.001 | 401.125.000 | 401.125.001 |
| 500                                                    | 158 | 42 | 98  | 28   | 14  | 13,3 | 12 |  |  | 401.116.000                                          | 401.116.001 | 401.127.000 | 401.127.001 |
| 600                                                    | 158 | 50 | 108 | 35   | 14  | 13,3 | 12 |  |  | 401.117.000                                          | 401.117.001 | 401.128.000 | 401.128.001 |
|                                                        |     |    |     |      |     |      |    |  |  |                                                      |             |             |             |
|                                                        |     |    |     |      |     |      |    |  |  |                                                      |             |             |             |
|                                                        |     |    |     |      |     |      |    |  |  |                                                      |             |             |             |
|                                                        |     |    |     |      |     |      |    |  |  |                                                      |             |             |             |
|                                                        |     |    |     |      |     |      |    |  |  |                                                      |             |             |             |
|                                                        |     |    |     |      |     |      |    |  |  |                                                      |             |             |             |
|                                                        |     |    |     |      |     |      |    |  |  |                                                      |             |             |             |

**FPA  
POLAND**



**LADNER  
LA**

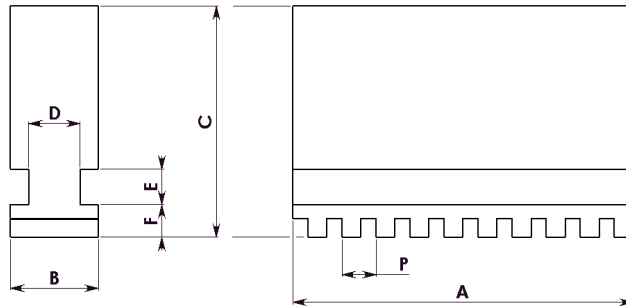


\* alte Ausführung / old line / ancien modèle

| Diametre | Technische Daten - Technical data - Données techniques |    |     |     |    |    |      |  | Bestell-Nummer<br>Order number<br>Numéro de commande |             |             |             |
|----------|--------------------------------------------------------|----|-----|-----|----|----|------|--|------------------------------------------------------|-------------|-------------|-------------|
|          | A                                                      | B  | C   | D   | E  | F  | P    |  | 3                                                    | 3           | 4           | 4           |
| 80       | 32                                                     | 11 | 28  | 6,3 | 6  | 6  | 4    |  | 401.000.000                                          | 401.000.001 | 401.010.000 | 401.010.001 |
| * 80     | 32                                                     | 11 | 28  | 6,3 | 6  | 6  | 5    |  | 402.000.000                                          | 402.000.001 | 402.010.000 | 402.010.001 |
| 100      | 40                                                     | 15 | 34  | 8,3 | 6  | 6  | 6    |  | 401.001.000                                          | 401.001.001 | 401.011.000 | 401.011.001 |
| *100     | 40                                                     | 16 | 34  | 8,3 | 6  | 6  | 5    |  | 402.001.000                                          | 402.001.001 | 402.011.000 | 402.011.001 |
| 125      | 50                                                     | 20 | 40  | 12  | 8  | 8  | 7    |  | 401.002.000                                          | 401.002.001 | 401.012.000 | 401.012.001 |
| 160      | 65                                                     | 20 | 48  | 12  | 8  | 8  | 8    |  | 401.003.000                                          | 401.003.001 | 401.013.000 | 401.013.001 |
| *160     | 65                                                     | 20 | 48  | 12  | 8  | 8  | 7    |  | 402.003.000                                          | 402.003.001 | 402.013.000 | 402.013.001 |
| 200      | 78                                                     | 25 | 58  | 14  | 10 | 9  | 8    |  | 401.004.000                                          | 401.004.001 | 401.014.000 | 401.014.001 |
| *200     | 78                                                     | 25 | 58  | 14  | 10 | 9  | 9    |  | 402.004.000                                          | 402.004.001 | 402.014.000 | 402.014.001 |
| 250      | 98                                                     | 28 | 68  | 17  | 12 | 10 | 9    |  | 401.005.000                                          | 401.005.001 | 401.015.000 | 401.015.001 |
| 315      | 119                                                    | 32 | 78  | 19  | 12 | 13 | 10   |  | 401.006.000                                          | 401.006.001 | 401.016.000 | 401.016.001 |
| *315     | 119                                                    | 32 | 70  | 19  | 12 | 13 | 11   |  | 402.006.000                                          | 402.006.001 | 402.016.000 | 402.016.001 |
| 400      | 136                                                    | 36 | 88  | 22  | 14 | 15 | 12   |  | 401.007.000                                          | 401.007.001 | 401.017.000 | 401.017.001 |
| *400     | 136                                                    | 36 | 88  | 22  | 14 | 15 | 14,2 |  | 402.007.000                                          | 402.007.001 | 402.017.000 | 402.017.001 |
| 500      | 180                                                    | 40 | 98  | 24  | 14 | 16 | 14,2 |  | 401.008.000                                          | 401.008.001 | 401.018.000 | 401.018.001 |
| 630      | 225                                                    | 50 | 108 | 34  | 14 | 16 | 14,2 |  | 401.009.000                                          | 401.009.001 | 401.019.000 | 401.019.001 |

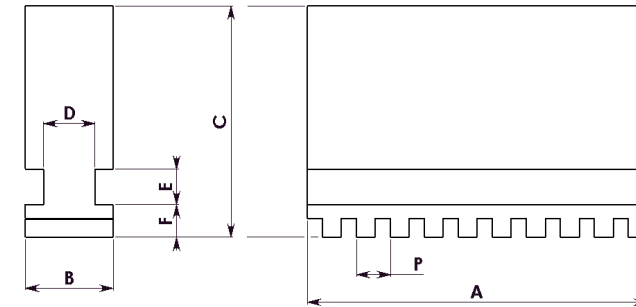
| Diametre | Technische Daten - Technical data - Données techniques |    |     |     |    |     |     |  | Bestell-Nummer<br>Order number<br>Numéro de commande |             |             |             |
|----------|--------------------------------------------------------|----|-----|-----|----|-----|-----|--|------------------------------------------------------|-------------|-------------|-------------|
|          | A                                                      | B  | C   | D   | E  | F   | P   |  | 3                                                    | 3           | 4           | 4           |
| 80       | 30                                                     | 12 | 30  | 5,5 | 5  | 4,3 | 4,5 |  | 491.107.000                                          | 491.107.001 | 491.118.000 | 491.118.001 |
| 102      | 40                                                     | 14 | 40  | 7,2 | 6  | 5,8 | 5,5 |  | 491.108.000                                          | 491.108.001 | 491.119.000 | 491.119.001 |
| 125      | 50                                                     | 18 | 43  | 10  | 8  | 7   | 6,5 |  | 491.109.000                                          | 491.109.001 | 491.120.000 | 491.120.001 |
| 155/160  | 61                                                     | 20 | 48  | 12  | 9  | 8   | 7   |  | 491.110.000                                          | 491.110.001 | 491.121.000 | 491.121.001 |
| 200/215  | 78                                                     | 23 | 58  | 14  | 10 | 9   | 9   |  | 491.111.000                                          | 491.111.001 | 491.122.000 | 491.122.001 |
| 250      | 96                                                     | 25 | 68  | 15  | 12 | 10  | 9   |  | 491.112.000                                          | 491.112.001 | 491.123.000 | 491.123.001 |
| 300      | 108                                                    | 28 | 78  | 17  | 13 | 10  | 9   |  | 491.113.500                                          | 491.113.501 | 491.124.500 | 491.124.501 |
| 315      | 115                                                    | 33 | 78  | 19  | 13 | 10  | 9   |  | 491.113.000                                          | 491.113.001 | 491.124.000 | 491.124.001 |
| 350      | 130                                                    | 37 | 88  | 21  | 14 | 11  | 10  |  | 491.114.000                                          | 491.114.001 | 491.125.000 | 491.125.001 |
| 400      | 130                                                    | 37 | 88  | 21  | 14 | 11  | 10  |  | 491.115.000                                          | 491.115.001 | 491.126.000 | 491.126.001 |
| 500      | 162                                                    | 48 | 98  | 30  | 15 | 13  | 12  |  | 491.116.000                                          | 491.116.001 | 491.127.000 | 491.127.001 |
| 630      | 203                                                    | 48 | 108 | 31  | 15 | 15  | 12  |  | 491.117.000                                          | 491.117.001 | 491.128.000 | 491.128.001 |
|          |                                                        |    |     |     |    |     |     |  |                                                      |             |             |             |
|          |                                                        |    |     |     |    |     |     |  |                                                      |             |             |             |
|          |                                                        |    |     |     |    |     |     |  |                                                      |             |             |             |
|          |                                                        |    |     |     |    |     |     |  |                                                      |             |             |             |

**RÖHM**  
**RO**  
**CR**



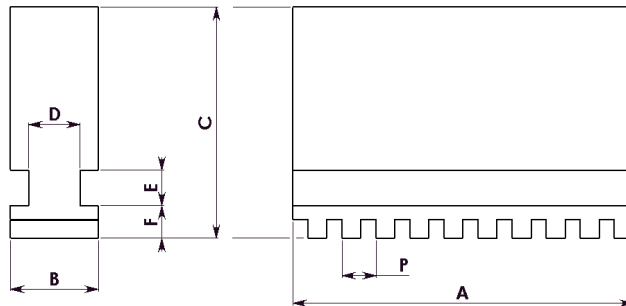
|          | Technische Daten - Technical data - Données techniques |    |    |      |     |      |     |  | Bestell-Nummer<br>Order number<br>Numéro de commande |             |             |             |
|----------|--------------------------------------------------------|----|----|------|-----|------|-----|--|------------------------------------------------------|-------------|-------------|-------------|
| Diametre | A                                                      | B  | C  | D    | E   | F    | P   |  | 3                                                    | 3           | 4           | 4           |
| 80       | 37                                                     | 12 | 28 | 5,7  | 4,5 | 4,8  | 4,5 |  | 481.107.000                                          | 481.107.001 | 481.118.000 | 481.118.001 |
| 100      | 48                                                     | 14 | 38 | 7,5  | 6   | 6    | 6   |  | 481.108.000                                          | 481.108.001 | 481.119.000 | 481.119.001 |
| 125      | 52                                                     | 18 | 40 | 10,5 | 7   | 7    | 6   |  | 481.109.000                                          | 481.109.001 | 481.120.000 | 481.120.001 |
| 140      | 60                                                     | 18 | 48 | 10,5 | 7   | 8    | 6   |  | 481.110.500                                          | 481.110.501 | 481.121.500 | 481.121.501 |
| 160      | 60                                                     | 18 | 48 | 10,5 | 7   | 8    | 8   |  | 481.110.000                                          | 481.110.001 | 481.121.000 | 481.121.001 |
| 200      | 78                                                     | 20 | 58 | 11,5 | 8   | 8    | 8   |  | 481.111.000                                          | 481.111.001 | 481.122.000 | 481.122.001 |
| 250      | 96                                                     | 24 | 68 | 15,5 | 10  | 10   | 10  |  | 481.112.000                                          | 481.112.001 | 481.123.000 | 481.123.001 |
| 315/400  | 130                                                    | 34 | 78 | 21   | 15  | 11   | 10  |  | 481.113.000                                          | 481.113.001 | 481.124.000 | 481.124.001 |
| 500/630  | 190                                                    | 42 | 98 | 28   | 15  | 14,9 | 10  |  | 481.116.000                                          | 481.116.001 | 481.128.000 | 481.128.001 |
|          |                                                        |    |    |      |     |      |     |  |                                                      |             |             |             |
|          |                                                        |    |    |      |     |      |     |  |                                                      |             |             |             |
|          |                                                        |    |    |      |     |      |     |  |                                                      |             |             |             |
|          |                                                        |    |    |      |     |      |     |  |                                                      |             |             |             |
|          |                                                        |    |    |      |     |      |     |  |                                                      |             |             |             |
|          |                                                        |    |    |      |     |      |     |  |                                                      |             |             |             |
|          |                                                        |    |    |      |     |      |     |  |                                                      |             |             |             |
|          |                                                        |    |    |      |     |      |     |  |                                                      |             |             |             |

**CURIAL**  
**HANDY**



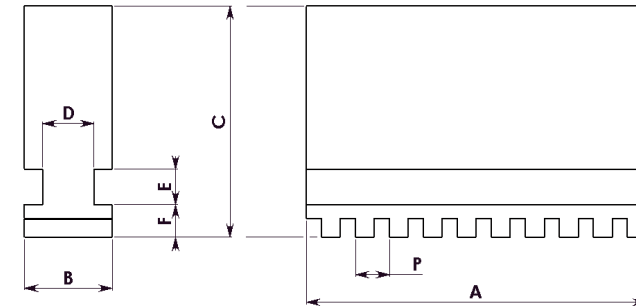
|          | Technische Daten - Technical data - Données techniques |    |    |      |    |      |     |  | Bestell-Nummer<br>Order number<br>Numéro de commande |             |   |   |
|----------|--------------------------------------------------------|----|----|------|----|------|-----|--|------------------------------------------------------|-------------|---|---|
| Diametre | A                                                      | B  | C  | D    | E  | F    | P   |  | 3                                                    | 3           | 4 | 4 |
| 102      | 40                                                     | 14 | 40 | 7,2  | 6  | 5,8  | 5,5 |  | 483.102.000                                          | 483.102.001 |   |   |
| 125      | 50                                                     | 18 | 45 | 10   | 8  | 7    | 6,5 |  | 483.125.000                                          | 483.125.001 |   |   |
| 155      | 60                                                     | 18 | 48 | 11,5 | 8  | 7,5  | 6,5 |  | 483.155.000                                          | 483.155.001 |   |   |
| 155      | 60                                                     | 22 | 48 | 11,5 | 8  | 7,5  | 6,5 |  | 483.155.500                                          | 483.155.501 |   |   |
| 200      | 78                                                     | 22 | 58 | 12,5 | 8  | 7,5  | 8   |  | 483.200.000                                          | 483.200.001 |   |   |
| 215      | 88                                                     | 25 | 68 | 15   | 10 | 9,5  | 8   |  | 483.215.000                                          | 483.215.001 |   |   |
| 250      | 96                                                     | 25 | 68 | 15   | 10 | 9,5  | 8   |  | 483.250.000                                          | 483.250.001 |   |   |
| 250      | 96                                                     | 30 | 68 | 15   | 12 | 9,5  | 8   |  | 483.250.500                                          | 483.250.501 |   |   |
| 300      | 108                                                    | 30 | 78 | 20   | 12 | 9,5  | 10  |  | 483.300.000                                          | 483.300.001 |   |   |
| 350      | 130                                                    | 35 | 88 | 24   | 14 | 11,5 | 12  |  | 483.400.000                                          | 483.400.001 |   |   |
| 380      | 130                                                    | 35 | 88 | 20   | 14 | 11,5 | 12  |  | 483.380.000                                          | 483.380.001 |   |   |
| 400      | 130                                                    | 35 | 88 | 24   | 14 | 11,5 | 12  |  | 483.400.000                                          | 483.400.001 |   |   |
|          |                                                        |    |    |      |    |      |     |  |                                                      |             |   |   |
|          |                                                        |    |    |      |    |      |     |  |                                                      |             |   |   |
|          |                                                        |    |    |      |    |      |     |  |                                                      |             |   |   |
|          |                                                        |    |    |      |    |      |     |  |                                                      |             |   |   |
|          |                                                        |    |    |      |    |      |     |  |                                                      |             |   |   |
|          |                                                        |    |    |      |    |      |     |  |                                                      |             |   |   |
|          |                                                        |    |    |      |    |      |     |  |                                                      |             |   |   |

**VACHETTE**



|          | Technische Daten - Technical data - Données techniques |    |    |      |      |      |     |  | Bestell-Nummer<br>Order number<br>Numéro de commande |             |   |   |
|----------|--------------------------------------------------------|----|----|------|------|------|-----|--|------------------------------------------------------|-------------|---|---|
| Diametre | A                                                      | B  | C  | D    | E    | F    | P   |  | 3                                                    | 3           | 4 | 4 |
| 100      | 40                                                     | 13 | 40 | 6,9  | 6,4  | 6    | 5   |  | 484.100.000                                          | 484.100.001 |   |   |
| 100      | 40                                                     | 13 | 40 | 6,9  | 6,4  | 6    | 6   |  | 484.100.060                                          | 484.100.061 |   |   |
| 125      | 50                                                     | 15 | 40 | 7,9  | 7,4  | 6    | 6,5 |  | 484.125.000                                          | 484.125.001 |   |   |
| 155      | 60                                                     | 17 | 48 | 9,7  | 8,4  | 7    | 7   |  | 484.155.000                                          | 484.155.001 |   |   |
| 180      | 65                                                     | 19 | 48 | 10,2 | 9,4  | 8    | 8   |  | 484.180.000                                          | 484.180.001 |   |   |
| 200      | 78                                                     | 21 | 58 | 11,4 | 9,4  | 8    | 8   |  | 484.200.000                                          | 484.200.001 |   |   |
| 215      | 80                                                     | 24 | 58 | 14,2 | 9,4  | 8    | 8   |  | 484.215.000                                          | 484.215.001 |   |   |
| 250      | 96                                                     | 24 | 68 | 14,2 | 12,4 | 9    | 9   |  | 484.250.000                                          | 484.250.001 |   |   |
| 300      | 108                                                    | 28 | 78 | 17,2 | 12,4 | 9,5  | 10  |  | 484.300.000                                          | 484.300.001 |   |   |
| 300      | 108                                                    | 32 | 78 | 17,2 | 12,4 | 9,5  | 10  |  | 484.300.500                                          | 484.300.501 |   |   |
| 350      | 125                                                    | 32 | 88 | 19,2 | 12,4 | 10,5 | 12  |  | 484.350.000                                          | 484.350.001 |   |   |
| 400      | 130                                                    | 36 | 88 | 22,2 | 12,4 | 11   | 12  |  | 484.400.000                                          | 484.400.001 |   |   |
|          |                                                        |    |    |      |      |      |     |  |                                                      |             |   |   |
|          |                                                        |    |    |      |      |      |     |  |                                                      |             |   |   |
|          |                                                        |    |    |      |      |      |     |  |                                                      |             |   |   |
|          |                                                        |    |    |      |      |      |     |  |                                                      |             |   |   |

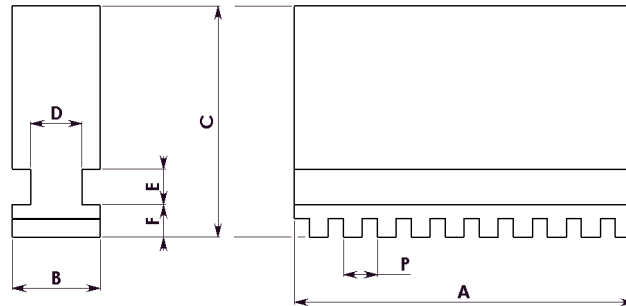
**PRATT  
 BURNERD**  
**neue Ausführung**  
**new line**  
**nouveau modèle**



|          | Technische Daten - Technical data - Données techniques |    |    |      |      |      |    |  | Bestell-Nummer<br>Order number<br>Numéro de commande |             |   |   |
|----------|--------------------------------------------------------|----|----|------|------|------|----|--|------------------------------------------------------|-------------|---|---|
| Diametre | A                                                      | B  | C  | D    | E    | F    | P  |  | 3                                                    | 3           | 4 | 4 |
| 80       | 35                                                     | 10 | 30 | 4,0  | 5,1  | 6    | 6  |  | 482.001.000                                          | 482.001.001 |   |   |
| 100      | 40                                                     | 14 | 38 | 7    | 7,1  | 5,7  | 6  |  | 482.002.000                                          | 482.002.001 |   |   |
| 125      | 50                                                     | 16 | 38 | 9    | 7,1  | 5,9  | 6  |  | 482.003.000                                          | 482.003.001 |   |   |
| 160      | 60                                                     | 18 | 48 | 10   | 7,1  | 7    | 6  |  | 482.004.000                                          | 482.004.001 |   |   |
| 200      | 80                                                     | 22 | 58 | 12   | 8,1  | 9,8  | 8  |  | 482.005.000                                          | 482.005.001 |   |   |
| 250      | 96                                                     | 25 | 68 | 15   | 8,1  | 9,8  | 8  |  | 482.006.000                                          | 482.006.001 |   |   |
| 315      | 115                                                    | 32 | 78 | 16,2 | 12,1 | 11,9 | 10 |  | 482.007.000                                          | 482.007.001 |   |   |
| 400      | 130                                                    | 32 | 88 | 16   | 12,1 | 14,9 | 12 |  | 482.008.000                                          | 482.008.001 |   |   |
|          |                                                        |    |    |      |      |      |    |  |                                                      |             |   |   |
|          |                                                        |    |    |      |      |      |    |  |                                                      |             |   |   |
|          |                                                        |    |    |      |      |      |    |  |                                                      |             |   |   |
|          |                                                        |    |    |      |      |      |    |  |                                                      |             |   |   |
|          |                                                        |    |    |      |      |      |    |  |                                                      |             |   |   |
|          |                                                        |    |    |      |      |      |    |  |                                                      |             |   |   |
|          |                                                        |    |    |      |      |      |    |  |                                                      |             |   |   |
|          |                                                        |    |    |      |      |      |    |  |                                                      |             |   |   |

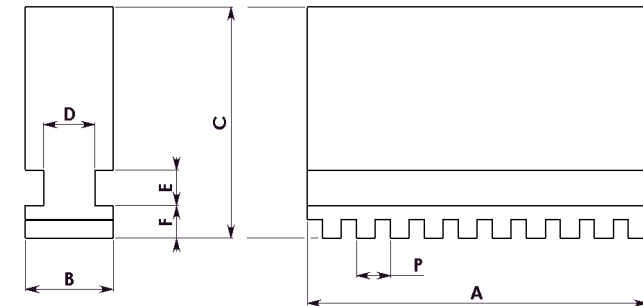
**PRATT  
 BURNERD**

**alte Ausführung**  
**old line**  
**ancien modèle**



|                | Technische Daten - Technical data - Données techniques |       |    |      |       |      |       |  | Bestell-Nummer<br>Order number<br>Numéro de commande |             |   |   |
|----------------|--------------------------------------------------------|-------|----|------|-------|------|-------|--|------------------------------------------------------|-------------|---|---|
| Diametre       | A                                                      | B     | C  | D    | E     | F    | P     |  | 3                                                    | 3           | 4 | 4 |
| 70             | 32                                                     | 9,26  | 30 | 5,2  | 4,8   | 4,5  | 4,23  |  | 482.070.000                                          | 482.070.001 |   |   |
| 76/<br>levier  | 32                                                     | 9,38  | 30 | 4,7  | 3,2   | 4,5  | 4,23  |  | 482.076.000                                          | 482.076.001 |   |   |
| 82             | 35                                                     | 9,38  | 30 | 5,2  | 4,8   | 4,5  | 4,23  |  | 482.082.000                                          | 482.082.001 |   |   |
| 102/<br>levier | 40                                                     | 14,10 | 40 | 8,4  | 4,83  | 4,95 | 4,23  |  | 482.102.000                                          | 482.102.001 |   |   |
| 100/102        | 40                                                     | 14,10 | 40 | 8,4  | 4,83  | 4,95 | 5,08  |  | 482.100.000                                          | 482.100.001 |   |   |
| 125/127        | 52                                                     | 15,74 | 43 | 10,2 | 8,02  | 6,9  | 6,35  |  | 482.125.000                                          | 482.125.001 |   |   |
| 153/160        | 60                                                     | 18,84 | 48 | 11,4 | 8,03  | 6,7  | 6,35  |  | 482.160.000                                          | 482.160.001 |   |   |
| 200            | 78                                                     | 20,62 | 58 | 10,8 | 9,54  | 8,7  | 8,46  |  | 482.200.000                                          | 482.200.001 |   |   |
| 190/230        | 78                                                     | 25,01 | 58 | 14,6 | 9,68  | 8,58 | 8,46  |  | 482.230.000                                          | 482.230.001 |   |   |
| 250            | 96                                                     | 25,40 | 68 | 15,8 | 11,11 | 9,5  | 8,46  |  | 482.250.000                                          | 482.250.001 |   |   |
| 270/305        | 108                                                    | 31,36 | 78 | 17,7 | 12,88 | 8,58 | 8,46  |  | 482.305.000                                          | 482.305.001 |   |   |
| 315            | 115                                                    | 28,18 | 78 | 16,5 | 12,9  | 9,5  | 8,46  |  | 482.315.000                                          | 482.315.001 |   |   |
| 380            | 130                                                    | 30,22 | 88 | 17,4 | 11,45 | 9,4  | 10,16 |  | 482.380.000                                          | 482.380.001 |   |   |
| 460/610        | 162                                                    | 38,11 | 98 | 22   | 14,27 | 12,7 | 12,70 |  | 482.460.000                                          | 482.460.001 |   |   |
|                |                                                        |       |    |      |       |      |       |  |                                                      |             |   |   |
|                |                                                        |       |    |      |       |      |       |  |                                                      |             |   |   |

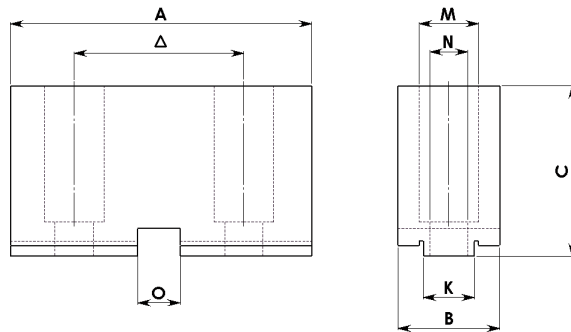
**TOS**



|          | Technische Daten - Technical data - Données techniques |    |    |     |    |     |    |  | Bestell-Nummer<br>Order number<br>Numéro de commande |             |   |   |
|----------|--------------------------------------------------------|----|----|-----|----|-----|----|--|------------------------------------------------------|-------------|---|---|
| Diametre | A                                                      | B  | C  | D   | E  | F   | P  |  | 3                                                    | 3           | 4 | 4 |
| 80       | 35                                                     | 10 | 30 | 4,5 | 5  | 6   | 6  |  | 482.101.000                                          | 482.101.001 |   |   |
| 100      | 43                                                     | 14 | 35 | 6,8 | 7  | 6   | 6  |  | 482.102.500                                          | 482.102.501 |   |   |
| 125      | 50                                                     | 16 | 40 | 8,4 | 7  | 5,9 | 6  |  | 482.103.000                                          | 482.103.001 |   |   |
| 160      | 65                                                     | 18 | 48 | 10  | 7  | 7,4 | 6  |  | 482.104.000                                          | 482.104.001 |   |   |
| 200      | 78                                                     | 22 | 58 | 12  | 8  | 9,8 | 8  |  | 482.105.000                                          | 482.105.001 |   |   |
| 250      | 96                                                     | 25 | 68 | 15  | 8  | 10  | 8  |  | 482.106.000                                          | 482.106.001 |   |   |
| 300      | 115                                                    | 32 | 78 | 16  | 12 | 12  | 10 |  | 482.107.000                                          | 482.107.001 |   |   |
| 400      | 130                                                    | 32 | 88 | 16  | 12 | 15  | 12 |  | 482.108.000                                          | 482.108.001 |   |   |
|          |                                                        |    |    |     |    |     |    |  |                                                      |             |   |   |
|          |                                                        |    |    |     |    |     |    |  |                                                      |             |   |   |
|          |                                                        |    |    |     |    |     |    |  |                                                      |             |   |   |
|          |                                                        |    |    |     |    |     |    |  |                                                      |             |   |   |
|          |                                                        |    |    |     |    |     |    |  |                                                      |             |   |   |
|          |                                                        |    |    |     |    |     |    |  |                                                      |             |   |   |
|          |                                                        |    |    |     |    |     |    |  |                                                      |             |   |   |
|          |                                                        |    |    |     |    |     |    |  |                                                      |             |   |   |

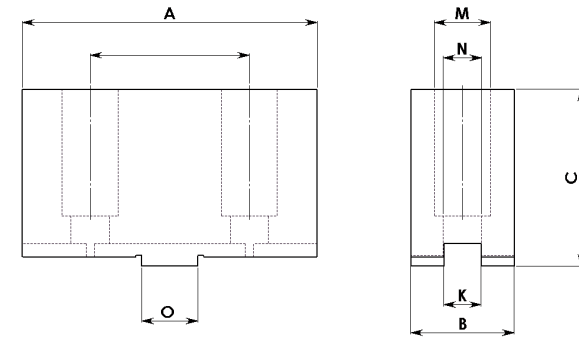
## AMESTRA

**alte Ausführung**  
 old line  
 ancien modèle



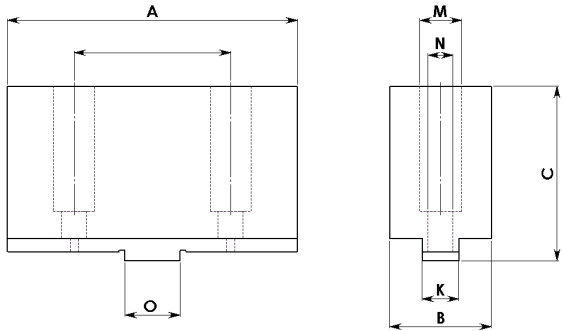
| Technische Daten - Technical data - Données techniques |     |    |    |    |    |      |    |     | Bestell-Nummer<br>Order number<br>Numéro de commande |   |             |   |
|--------------------------------------------------------|-----|----|----|----|----|------|----|-----|------------------------------------------------------|---|-------------|---|
| Diametre                                               | A   | B  | C  | K  | M  | N    | O  | Δ   | 3                                                    | 3 | 4           | 4 |
| 160                                                    | 78  | 25 | 40 | 12 | 14 | 9    | 10 | 40  | 471.001.000                                          |   | 471.001.500 |   |
| 200/215                                                | 98  | 29 | 50 | 14 | 14 | 9    | 16 | 50  | 471.002.000                                          |   | 471.002.500 |   |
| 250                                                    | 108 | 34 | 60 | 16 | 17 | 11   | 20 | 60  | 471.003.000                                          |   | 471.003.500 |   |
| 300/315                                                | 122 | 39 | 60 | 18 | 20 | 13   | 20 | 66  | 471.004.000                                          |   | 471.004.500 |   |
| 350/400                                                | 148 | 39 | 68 | 18 | 23 | 15   | 20 | 80  | 471.005.000                                          |   | 471.005.500 |   |
| 500                                                    | 158 | 50 | 78 | 20 | 23 | 15   | 25 | 105 | 471.006.000                                          |   | 471.006.500 |   |
| 600                                                    | 158 | 50 | 78 | 25 | 25 | 17,5 | 25 | 105 | 471.007.000                                          |   | 471.007.500 |   |
| 630/800                                                | 207 | 55 | 95 | -  | 25 | 17,5 | 20 | 50  | 401.246.                                             |   | 401.253.    |   |
| 1000/1600                                              | 170 | 70 | 95 | -  | 33 | 22   | 20 | 50  | 401.249.                                             |   | 401.256.    |   |
|                                                        |     |    |    |    |    |      |    |     |                                                      |   |             |   |
|                                                        |     |    |    |    |    |      |    |     |                                                      |   |             |   |
|                                                        |     |    |    |    |    |      |    |     |                                                      |   |             |   |
|                                                        |     |    |    |    |    |      |    |     |                                                      |   |             |   |
|                                                        |     |    |    |    |    |      |    |     |                                                      |   |             |   |
|                                                        |     |    |    |    |    |      |    |     |                                                      |   |             |   |
|                                                        |     |    |    |    |    |      |    |     |                                                      |   |             |   |
|                                                        |     |    |    |    |    |      |    |     |                                                      |   |             |   |

## ISO AMESTRA RÖHM

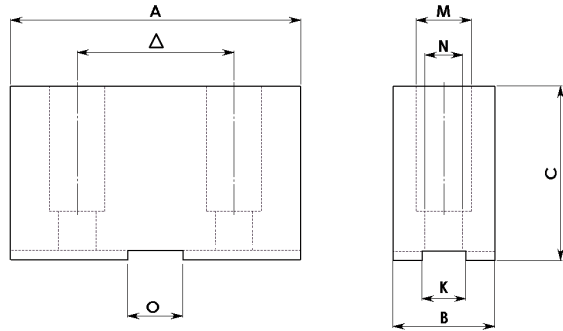


| Technische Daten - Technical data - Données techniques |     |    |    |      |    |     |       |      | Bestell-Nummer<br>Order number<br>Numéro de commande |             |                |  |
|--------------------------------------------------------|-----|----|----|------|----|-----|-------|------|------------------------------------------------------|-------------|----------------|--|
| Diametre                                               | A   | B  | C  | K    | M  | N   | O     | Δ    | 3                                                    | 4           |                |  |
| 100                                                    | 50  | 14 | 30 | 7,94 | 10 | 6,5 | 9,5   | 24   | 401.174.000                                          | 401.186.000 |                |  |
| 125                                                    | 60  | 25 | 40 | 7,94 | 13 | 9   | 12,7  | 24   | 401.060.000                                          | 401.068.000 |                |  |
| 160                                                    | 78  | 25 | 40 | 7,94 | 13 | 9   | 12,7  | 38,1 | 401.176.000                                          | 401.188.000 | Amestra - Röhm |  |
| 160                                                    | 78  | 25 | 40 | 7,94 | 17 | 11  | 12,7  | 38,1 | 401.061.000                                          | 401.069.000 |                |  |
| 200/215                                                | 98  | 30 | 50 | 7,94 | 13 | 9   | 12,7  | 44,4 | 401.177.000                                          | 401.189.000 | Amestra - Röhm |  |
| 200/215                                                | 98  | 30 | 50 | 7,94 | 17 | 11  | 12,7  | 44,4 | 401.062.000                                          | 401.070.000 |                |  |
| 250                                                    | 108 | 35 | 60 | 12,7 | 20 | 13  | 19,02 | 54   | 401.063.000                                          | 401.071.000 |                |  |
| 315                                                    | 122 | 40 | 60 | 12,7 | 20 | 13  | 19,02 | 63,5 | 401.064.000                                          | 401.072.000 |                |  |
| 350/400                                                | 148 | 40 | 68 | 12,7 | 25 | 17  | 19,02 | 76,2 | 401.065.000                                          | 401.073.000 |                |  |
| 500/630                                                | 160 | 50 | 80 | 12,7 | 31 | 21  | 19,02 | 76,2 | 401.066.000                                          | 401.074.000 |                |  |
|                                                        |     |    |    |      |    |     |       |      |                                                      |             |                |  |
|                                                        |     |    |    |      |    |     |       |      |                                                      |             |                |  |
|                                                        |     |    |    |      |    |     |       |      |                                                      |             |                |  |
|                                                        |     |    |    |      |    |     |       |      |                                                      |             |                |  |
|                                                        |     |    |    |      |    |     |       |      |                                                      |             |                |  |
|                                                        |     |    |    |      |    |     |       |      |                                                      |             |                |  |
|                                                        |     |    |    |      |    |     |       |      |                                                      |             |                |  |
|                                                        |     |    |    |      |    |     |       |      |                                                      |             |                |  |

**CURIAL  
HANDY**



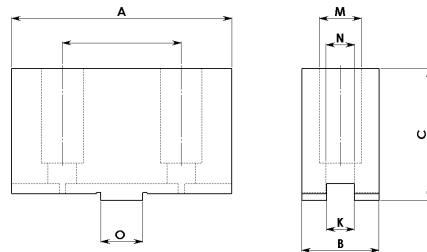
**VACHETTE**



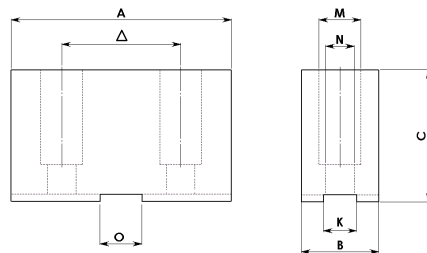
|          | Technische Daten - Technical data - Données techniques |    |    |    |    |    |    |    | Bestell-Nummer<br>Order number<br>Numéro de commande |  |  |  |
|----------|--------------------------------------------------------|----|----|----|----|----|----|----|------------------------------------------------------|--|--|--|
| Diametre | A                                                      | B  | C  | K  | M  | N  | O  | Δ  | 3                                                    |  |  |  |
| 155      | 80                                                     | 25 | 40 | 12 | 14 | 9  | 12 | 30 | 471.101.000                                          |  |  |  |
| 200      | 90                                                     | 30 | 50 | 12 | 17 | 11 | 12 | 35 | 471.102.000                                          |  |  |  |
| 215      | 100                                                    | 30 | 50 | 16 | 20 | 13 | 16 | 40 | 471.103.000                                          |  |  |  |
| 250/300  | 108                                                    | 30 | 50 | 16 | 20 | 13 | 16 | 40 | 471.104.000                                          |  |  |  |
| 350/400  | 140                                                    | 35 | 60 | 20 | 23 | 15 | 20 | 60 | 471.105.000                                          |  |  |  |
| 500      | 160                                                    | 40 | 68 | 20 | 23 | 15 | 20 | 60 | 471.106.000                                          |  |  |  |
|          |                                                        |    |    |    |    |    |    |    |                                                      |  |  |  |
|          |                                                        |    |    |    |    |    |    |    |                                                      |  |  |  |
|          |                                                        |    |    |    |    |    |    |    |                                                      |  |  |  |
|          |                                                        |    |    |    |    |    |    |    |                                                      |  |  |  |
|          |                                                        |    |    |    |    |    |    |    |                                                      |  |  |  |
|          |                                                        |    |    |    |    |    |    |    |                                                      |  |  |  |
|          |                                                        |    |    |    |    |    |    |    |                                                      |  |  |  |
|          |                                                        |    |    |    |    |    |    |    |                                                      |  |  |  |
|          |                                                        |    |    |    |    |    |    |    |                                                      |  |  |  |
|          |                                                        |    |    |    |    |    |    |    |                                                      |  |  |  |
|          |                                                        |    |    |    |    |    |    |    |                                                      |  |  |  |
|          |                                                        |    |    |    |    |    |    |    |                                                      |  |  |  |
|          |                                                        |    |    |    |    |    |    |    |                                                      |  |  |  |
|          |                                                        |    |    |    |    |    |    |    |                                                      |  |  |  |
|          |                                                        |    |    |    |    |    |    |    |                                                      |  |  |  |

|          | Technische Daten - Technical data - Données techniques |    |    |    |      |      |    |    | Bestell-Nummer<br>Order number<br>Numéro de commande |  |  |  |
|----------|--------------------------------------------------------|----|----|----|------|------|----|----|------------------------------------------------------|--|--|--|
| Diametre | A                                                      | B  | C  | K  | M    | N    | O  | Δ  | 3                                                    |  |  |  |
| 155      | 67                                                     | 20 | 40 | 9  | 11   | 6,5  | 9  | 24 | 471.201.000                                          |  |  |  |
| 180/200  | 86                                                     | 25 | 40 | 12 | 14   | 8,5  | 12 | 32 | 471.202.000                                          |  |  |  |
| 250/300  | 120                                                    | 30 | 50 | 14 | 17,5 | 10,5 | 14 | 48 | 471.203.000                                          |  |  |  |
| 350/400  | 136                                                    | 40 | 60 | 16 | 21,5 | 12,5 | 16 | 60 | 471.204.000                                          |  |  |  |
| 500      | 180                                                    | 75 | 75 | 25 | 24   | 14,5 | 25 | 90 | 471.205.000                                          |  |  |  |
|          |                                                        |    |    |    |      |      |    |    |                                                      |  |  |  |
|          |                                                        |    |    |    |      |      |    |    |                                                      |  |  |  |
|          |                                                        |    |    |    |      |      |    |    |                                                      |  |  |  |
|          |                                                        |    |    |    |      |      |    |    |                                                      |  |  |  |
|          |                                                        |    |    |    |      |      |    |    |                                                      |  |  |  |
|          |                                                        |    |    |    |      |      |    |    |                                                      |  |  |  |
|          |                                                        |    |    |    |      |      |    |    |                                                      |  |  |  |
|          |                                                        |    |    |    |      |      |    |    |                                                      |  |  |  |
|          |                                                        |    |    |    |      |      |    |    |                                                      |  |  |  |
|          |                                                        |    |    |    |      |      |    |    |                                                      |  |  |  |
|          |                                                        |    |    |    |      |      |    |    |                                                      |  |  |  |
|          |                                                        |    |    |    |      |      |    |    |                                                      |  |  |  |
|          |                                                        |    |    |    |      |      |    |    |                                                      |  |  |  |
|          |                                                        |    |    |    |      |      |    |    |                                                      |  |  |  |
|          |                                                        |    |    |    |      |      |    |    |                                                      |  |  |  |
|          |                                                        |    |    |    |      |      |    |    |                                                      |  |  |  |

**FORKARDT Typ F**  
**GAMET Typ MX**  
**RÖHM Typ DURO**  
**SMW Typ KNCS**  
**REISHAUER Typ RHU**  
**BERG Typ KHNC**



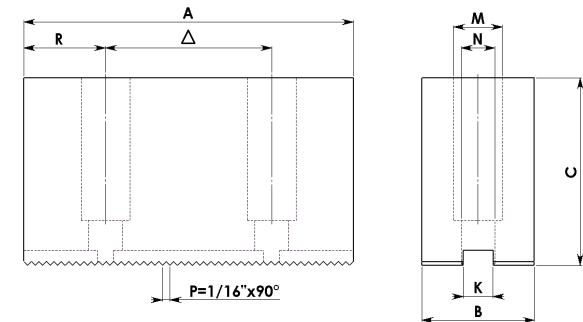
**Type 2**



**Type 1**

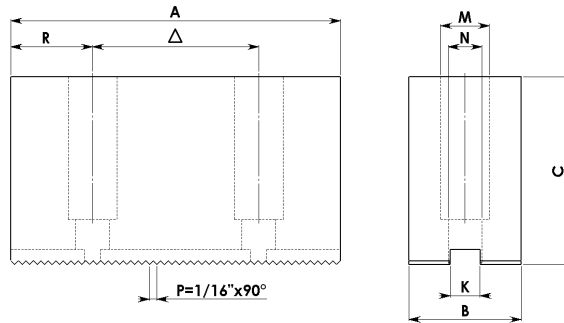
| Technische Daten - Technical data - Données techniques |     |    |     |    |      |     |    |    |    | Bestell-Nummer<br>Order number<br>Numéro de commande |  |             |
|--------------------------------------------------------|-----|----|-----|----|------|-----|----|----|----|------------------------------------------------------|--|-------------|
| Diametre                                               | A   | B  | C   | D  | E    | F   | P  | F  | P  | type                                                 |  | 3           |
| 100                                                    | 46  | 18 | 28  | 11 | 10   | 5,5 | 5  | 13 | 19 | 1                                                    |  | 474.100.000 |
| 125                                                    | 55  | 20 | 34  | 14 | 11   | 6,5 | 5  | 17 | 20 | 1                                                    |  | 474.125.000 |
| 140                                                    | 69  | 20 | 40  | 8  | 13,5 | 9   | 18 | 18 | 32 | 2                                                    |  | 474.140.000 |
| 160/175                                                | 85  | 20 | 40  | 8  | 13,5 | 9   | 18 | 18 | 32 | 2                                                    |  | 474.160.000 |
| 200/225                                                | 105 | 25 | 50  | 10 | 13,5 | 9   | 20 | 25 | 40 | 2                                                    |  | 474.200.000 |
| 250/260                                                | 125 | 35 | 60  | 12 | 20   | 13  | 20 | 25 | 40 | 2                                                    |  | 474.250.000 |
| 315/360                                                | 145 | 35 | 60  | 12 | 20   | 13  | 26 | 31 | 54 | 2                                                    |  | 474.315.000 |
| 400                                                    | 180 | 50 | 80  | 18 | 26   | 17  | 30 | 35 | 60 | 2                                                    |  | 474.400.000 |
| 500                                                    | 220 | 60 | 88  | 18 | 26   | 17  | 40 | 40 | 76 | 2                                                    |  | 474.500.000 |
| 630                                                    | 260 | 65 | 115 | 24 | 32   | 21  | 40 | 50 | 82 | 2                                                    |  | 474.630.000 |

**AUTOBLOK**  
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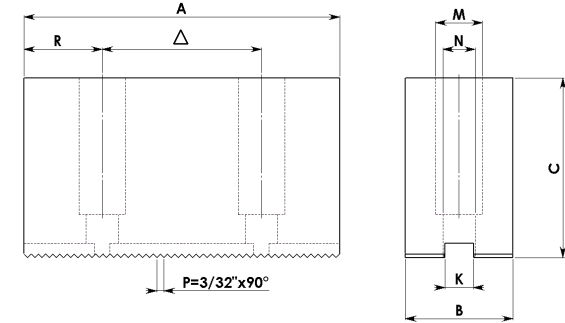
|          | Technische Daten - Technical data - Données techniques |    |    |    |    |    |    |    |                                                                                     |              | Bestell-Nummer<br>Order number<br>Numéro de commande |              |              |
|----------|--------------------------------------------------------|----|----|----|----|----|----|----|-------------------------------------------------------------------------------------|--------------|------------------------------------------------------|--------------|--------------|
| Diameter | A                                                      | B  | C  | K  | M  | N  | R  | Δ  |  | P<br>1,587mm |                                                      | <div>3</div> | <div>3</div> |
| 140/160  | 70                                                     | 25 | 45 | 10 | 17 | 11 | 13 | 19 | M10                                                                                 | 1/16"x90°    |                                                      | 472.100.000  | 472.100.001  |
| 125      | 70                                                     | 25 | 45 | 11 | 14 | 9  | 21 | 18 | M8                                                                                  | 1/16"x90°    |                                                      | 472.118.000  | 472.118.001  |
| 125/160  | 60                                                     | 30 | 40 | 12 | 14 | 9  | 15 | 16 | M8                                                                                  | 1/16"x90°    |                                                      | 472.128.000  | 472.128.001  |
| 130/140  | 60                                                     | 30 | 50 | 12 | 17 | 11 | 12 | 19 | M10                                                                                 | 1/16"x90°    |                                                      | 472.120.000  | 472.120.001  |
| 175/200  | 90                                                     | 30 | 60 | 12 | 19 | 13 | 14 | 21 | M12                                                                                 | 1/16"x90°    |                                                      | 472.122.000  | 472.122.001  |
| 165/170  | 70                                                     | 35 | 35 | 14 | 17 | 11 | 16 | 16 | M10                                                                                 | 1/16"x90°    |                                                      | 472.140.000  | 472.140.001  |
|          | 70                                                     | 40 | 60 | 14 | 17 | 11 | 16 | 16 | M10                                                                                 | 1/16"x90°    |                                                      | 472.140.060  | 472.140.061  |
| 160/175  | 70                                                     | 30 | 50 | 14 | 19 | 13 | 15 | 21 | M12                                                                                 | 1/16"x90°    |                                                      | 472.142.000  | 472.142.001  |
| 250/315  | 110                                                    | 40 | 60 | 16 | 25 | 17 | 18 | 29 | M16                                                                                 | 1/16"x90°    |                                                      | 472.166.000  | 472.166.001  |
| 200      | 75                                                     | 30 | 50 | 17 | 17 | 11 | 12 | 22 | M10                                                                                 | 1/16"x90°    |                                                      | 472.170.000  | 472.170.001  |
| 160      | 70                                                     | 40 | 40 | 17 | 19 | 13 | 15 | 22 | M12                                                                                 | 1/16"x90°    |                                                      | 472.172.200  | 472.172.201  |
| 200/210  | 90                                                     | 40 | 40 | 17 | 19 | 13 | 20 | 23 | M12                                                                                 | 1/16"x90°    |                                                      | 472.172.000  | 472.172.001  |
|          | 90                                                     | 40 | 60 | 17 | 19 | 13 | 20 | 23 | M12                                                                                 | 1/16"x90°    |                                                      | 472.172.060  | 472.172.061  |
|          | 90                                                     | 40 | 80 | 17 | 19 | 13 | 20 | 23 | M12                                                                                 | 1/16"x90°    |                                                      | 472.172.080  | 472.172.081  |
|          |                                                        |    |    |    |    |    |    |    |                                                                                     |              |                                                      |              |              |
|          |                                                        |    |    |    |    |    |    |    |                                                                                     |              |                                                      |              |              |
|          |                                                        |    |    |    |    |    |    |    |                                                                                     |              |                                                      |              |              |

**AUTOBLOK**  
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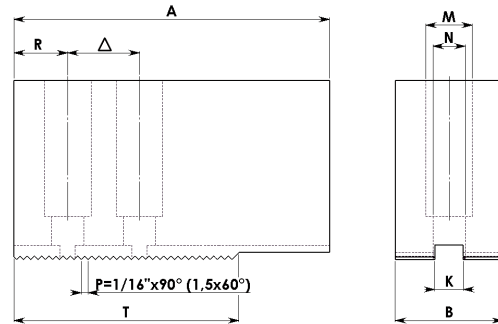
|          | Technische Daten - Technical data - Données techniques |    |    |      |    |    |    |    |                                                                                   |              | Bestell-Nummer<br>Order number<br>Numéro de commande                              |                                                                                     |
|----------|--------------------------------------------------------|----|----|------|----|----|----|----|-----------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Diametre | A                                                      | B  | C  | K    | M  | N  | R  | Δ  |  | P<br>1,587mm |  |  |
| 200/250  | 90                                                     | 40 | 60 | 17   | 19 | 13 | 12 | 19 | M12                                                                               | 1/16"x90°    | 472.172.560                                                                       | 472.172.561                                                                         |
| 250/315  | 105                                                    | 40 | 60 | 21   | 19 | 13 | 14 | 25 | M12                                                                               | 1/16"x90°    | 472.212.000                                                                       | 472.212.001                                                                         |
|          | 105                                                    | 40 | 60 | 21   | 19 | 13 | 18 | 30 | M12                                                                               | 1/16"x90°    | 472.212.500                                                                       | 472.212.501                                                                         |
| 315      | 95                                                     | 50 | 50 | 21   | 25 | 17 | 15 | 30 | M16                                                                               | 1/16"x90°    | 472.216.500                                                                       | 472.216.501                                                                         |
| 200/250  | 110                                                    | 45 | 45 | 21   | 25 | 17 | 20 | 30 | M16                                                                               | 1/16"x90°    | 472.216.000                                                                       | 472.216.001                                                                         |
| 305/315  | 120                                                    | 50 | 50 | 21   | 25 | 17 | 30 | 30 | M16                                                                               | 1/16"x90°    | 472.216.050                                                                       | 472.216.051                                                                         |
|          | 120                                                    | 50 | 80 | 21   | 25 | 17 | 30 | 30 | M16                                                                               | 1/16"x90°    | 472.216.080                                                                       | 472.216.081                                                                         |
| 400      | 140                                                    | 60 | 60 | 21   | 25 | 17 | 25 | 30 | M16                                                                               | 1/16"x90°    | 472.216.600                                                                       | 472.216.601                                                                         |
| 300/315  | 120                                                    | 60 | 60 | 25,5 | 32 | 21 | 22 | 35 | M20                                                                               | 1/16"x90°    | 472.250.000                                                                       | 472.250.001                                                                         |
|          | 140                                                    | 60 | 90 | 25,5 | 32 | 21 | 30 | 35 | M20                                                                               | 1/16"x90°    | 472.250.090                                                                       | 472.250.091                                                                         |
|          |                                                        |    |    |      |    |    |    |    |                                                                                   |              |                                                                                   |                                                                                     |
|          |                                                        |    |    |      |    |    |    |    |                                                                                   |              |                                                                                   |                                                                                     |
|          |                                                        |    |    |      |    |    |    |    |                                                                                   |              |                                                                                   |                                                                                     |
|          |                                                        |    |    |      |    |    |    |    |                                                                                   |              |                                                                                   |                                                                                     |
|          |                                                        |    |    |      |    |    |    |    |                                                                                   |              |                                                                                   |                                                                                     |
|          |                                                        |    |    |      |    |    |    |    |                                                                                   |              |                                                                                   |                                                                                     |
|          |                                                        |    |    |      |    |    |    |    |                                                                                   |              |                                                                                   |                                                                                     |
|          |                                                        |    |    |      |    |    |    |    |                                                                                   |              |                                                                                   |                                                                                     |
|          |                                                        |    |    |      |    |    |    |    |                                                                                   |              |                                                                                   |                                                                                     |
|          |                                                        |    |    |      |    |    |    |    |                                                                                   |              |                                                                                   |                                                                                     |

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**BERG**  
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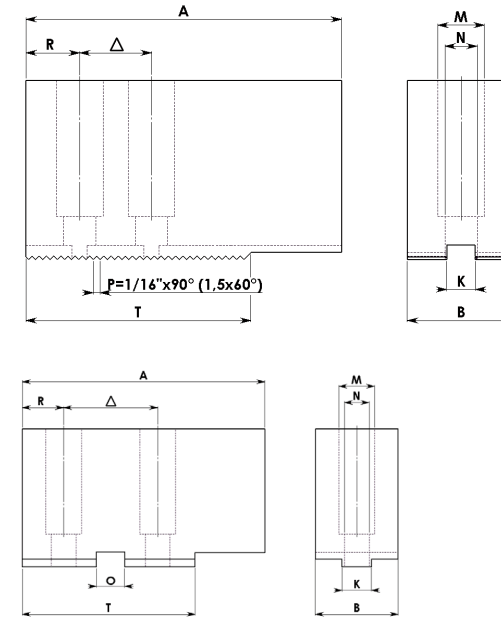
|          | Technische Daten - Technical data - Données techniques |    |     |      |    |    |    |    |                                                                                     |             | Bestell-Nummer<br>Order number<br>Numéro de commande                                |                                                                                     |
|----------|--------------------------------------------------------|----|-----|------|----|----|----|----|-------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Diametre | A                                                      | B  | C   | K    | M  | N  | R  | Δ  |  | P<br>2,38mm |  |  |
| 400/500  | 155                                                    | 60 | 60  | 25,5 | 32 | 21 | 30 | 35 | M20                                                                                 | 3/32"x90°   | 473.250.000                                                                         | 473.250.001                                                                         |
|          | 155                                                    | 60 | 100 | 25,5 | 32 | 21 | 30 | 35 | M20                                                                                 | 3/32"x90°   | 473.250.100                                                                         | 473.250.101                                                                         |
| 400/500  | 130                                                    | 50 | 80  | 25,5 | 32 | 21 | 20 | 31 | M20                                                                                 | 3/32"x90°   | 473.250.580                                                                         | 473.250.581                                                                         |
| 500/630  | 160                                                    | 70 | 75  | 28   | 32 | 21 | 25 | 38 | M20                                                                                 | 3/32"x90°   | 473.280.080                                                                         | 473.280.081                                                                         |
|          | 170                                                    | 60 | 60  | 28   | 32 | 21 | 27 | 35 | M20                                                                                 | 3/32"x90°   | 473.280.060                                                                         | 473.280.061                                                                         |
|          |                                                        |    |     |      |    |    |    |    |                                                                                     |             |                                                                                     |                                                                                     |
|          |                                                        |    |     |      |    |    |    |    |                                                                                     |             |                                                                                     |                                                                                     |
|          |                                                        |    |     |      |    |    |    |    |                                                                                     |             |                                                                                     |                                                                                     |
|          |                                                        |    |     |      |    |    |    |    |                                                                                     |             |                                                                                     |                                                                                     |
|          |                                                        |    |     |      |    |    |    |    |                                                                                     |             |                                                                                     |                                                                                     |
|          |                                                        |    |     |      |    |    |    |    |                                                                                     |             |                                                                                     |                                                                                     |
|          |                                                        |    |     |      |    |    |    |    |                                                                                     |             |                                                                                     |                                                                                     |
|          |                                                        |    |     |      |    |    |    |    |                                                                                     |             |                                                                                     |                                                                                     |
|          |                                                        |    |     |      |    |    |    |    |                                                                                     |             |                                                                                     |                                                                                     |
|          |                                                        |    |     |      |    |    |    |    |                                                                                     |             |                                                                                     |                                                                                     |
|          |                                                        |    |     |      |    |    |    |    |                                                                                     |             |                                                                                     |                                                                                     |
|          |                                                        |    |     |      |    |    |    |    |                                                                                     |             |                                                                                     |                                                                                     |
|          |                                                        |    |     |      |    |    |    |    |                                                                                     |             |                                                                                     |                                                                                     |

**GAMET MAC**



| Technische Daten - Technical data - Données techniques |     |    |    |      |    |      |    |    |     |              | Bestell-Nummer<br>Order number<br>Numéro de commande |                         |
|--------------------------------------------------------|-----|----|----|------|----|------|----|----|-----|--------------|------------------------------------------------------|-------------------------|
| Diametre                                               | A   | B  | C  | K    | M  | N    | R  | Δ  | T   | P<br>1,587mm |                                                      |                         |
| 132                                                    | 64  | 25 | 30 | 11   | 14 | 9    | 10 | 18 | 40  | 1/16"x90°    |                                                      | 477.132.000 477.132.001 |
| 165/170                                                | 75  | 30 | 30 | 14   | 17 | 11   | 10 | 20 | 60  | 1/16"x90°    |                                                      | 477.165.000 477.165.001 |
| 200/220                                                | 95  | 35 | 45 | 17   | 19 | 13,5 | 13 | 25 | 73  | 1/16"x90°    |                                                      | 477.200.000 477.200.001 |
| 250                                                    | 119 | 50 | 50 | 21   | 25 | 17   | 16 | 32 | 92  | 1/16"x90°    |                                                      | 477.250.000 477.250.001 |
| 315                                                    | 150 | 50 | 50 | 21   | 25 | 17   | 16 | 38 | 106 | 1/16"x90°    |                                                      | 477.315.000 477.315.001 |
| 380                                                    | 182 | 60 | 60 | 25,5 | 31 | 21   | 25 | 42 | 126 | 1/16"x90°    |                                                      | 477.380.000 477.380.001 |
|                                                        |     |    |    |      |    |      |    |    |     |              |                                                      |                         |
|                                                        |     |    |    |      |    |      |    |    |     |              |                                                      |                         |
|                                                        |     |    |    |      |    |      |    |    |     |              |                                                      |                         |
|                                                        |     |    |    |      |    |      |    |    |     |              |                                                      |                         |
|                                                        |     |    |    |      |    |      |    |    |     |              |                                                      |                         |
|                                                        |     |    |    |      |    |      |    |    |     |              |                                                      |                         |
|                                                        |     |    |    |      |    |      |    |    |     |              |                                                      |                         |
|                                                        |     |    |    |      |    |      |    |    |     |              |                                                      |                         |
|                                                        |     |    |    |      |    |      |    |    |     |              |                                                      |                         |
|                                                        |     |    |    |      |    |      |    |    |     |              |                                                      |                         |
|                                                        |     |    |    |      |    |      |    |    |     |              |                                                      |                         |
|                                                        |     |    |    |      |    |      |    |    |     |              |                                                      |                         |

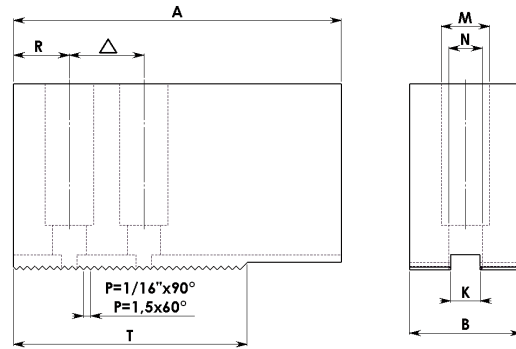
**GAMET G.A.**



| Technische Daten - Technical data - Données techniques |     |    |    |    |    |      |     |    |    |              | Bestell-Nummer<br>Order number<br>Numéro de commande |                         |
|--------------------------------------------------------|-----|----|----|----|----|------|-----|----|----|--------------|------------------------------------------------------|-------------------------|
| Diametre                                               | A   | B  | C  | K  | M  | N    | R   | Δ  | T  | P<br>1,587mm |                                                      |                         |
| 110                                                    | 50  | 25 | 26 | 10 | 11 | 7    | 6,5 | 12 | 37 | 1,5x60°      |                                                      | 475.110.000 475.110.001 |
| 130/140                                                | 60  | 25 | 30 | 11 | 14 | 9    | 10  | 15 | 46 | 1/16"x90°    |                                                      | 477.130.100 477.130.101 |
| 160/170                                                | 75  | 30 | 30 | 14 | 17 | 11   | 10  | 18 | 56 | 1/16"x90°    |                                                      | 477.160.100 477.160.101 |
| 210                                                    | 90  | 40 | 40 | 17 | 19 | 13,5 | 20  | 20 | 62 | 1/16"x90°    |                                                      | 477.210.100 477.210.101 |
| 250                                                    | 110 | 40 | 50 | 21 | 25 | 17   | 14  | 26 | 80 | 1/16"x90°    |                                                      | 477.250.100 477.250.101 |
| 315                                                    | 140 | 50 | 50 | 21 | 25 | 17   | 15  | 31 | 92 | 1/16"x90°    |                                                      | 477.315.100 477.315.101 |
|                                                        |     |    |    |    |    |      |     |    |    |              |                                                      |                         |
|                                                        |     |    |    |    |    |      |     |    |    |              |                                                      |                         |
|                                                        |     |    |    |    |    |      |     |    |    |              |                                                      |                         |
|                                                        |     |    |    |    |    |      |     |    |    |              |                                                      |                         |
|                                                        |     |    |    |    |    |      |     |    |    |              |                                                      |                         |
|                                                        |     |    |    |    |    |      |     |    |    |              |                                                      |                         |
|                                                        |     |    |    |    |    |      |     |    |    |              |                                                      |                         |
|                                                        |     |    |    |    |    |      |     |    |    |              |                                                      |                         |
|                                                        |     |    |    |    |    |      |     |    |    |              |                                                      |                         |
|                                                        |     |    |    |    |    |      |     |    |    |              |                                                      |                         |

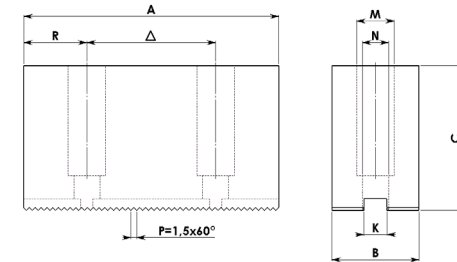
**GAMET STANDARD**

1,5 x 60° - 1/16" x 90°



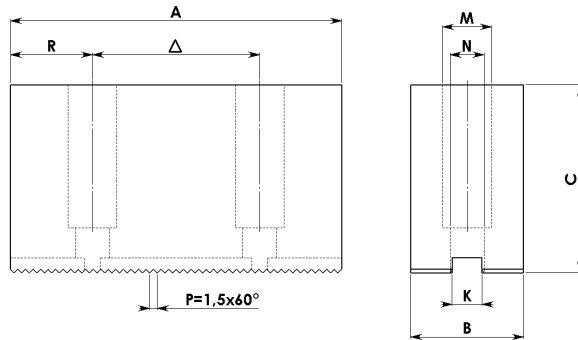
|          | Technische Daten - Technical data - Données techniques |       |    |    |    |    |    |       |     |             |              | Bestell-Nummer<br>Order number<br>Numéro de commande                              |                                                                                     |
|----------|--------------------------------------------------------|-------|----|----|----|----|----|-------|-----|-------------|--------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Diametre | A                                                      | B     | C  | K  | M  | N  | R  | Δ     | T   | P<br>1,50mm | P<br>1,587mm |  |  |
| 105      | 52                                                     | 20    | 30 | 10 | 14 | 9  | 8  | 15    | 32  | 1,5x60°     |              | 475.105.000                                                                       | 475.105.001                                                                         |
|          |                                                        |       |    |    |    |    |    |       |     |             | 1/16"x90°    | 476.105.000                                                                       | 476.105.001                                                                         |
| 130      | 63                                                     | 25    | 40 | 11 | 14 | 9  | 10 | 18    | 40  | 1,5x60°     |              | 475.130.000                                                                       | 475.130.001                                                                         |
|          |                                                        |       |    |    |    |    |    |       |     |             | 1/16"x90°    | 476.130.000                                                                       | 476.130.001                                                                         |
| 160/170  | 80                                                     | 27    | 34 | 11 | 14 | 9  | 9  | 20+20 | 58  | 1,5x60°     |              | 475.160.000                                                                       | 475.160.001                                                                         |
|          |                                                        |       |    |    |    |    |    |       |     |             | 1/16"x90°    | 476.160.000                                                                       | 476.160.001                                                                         |
| 215      | 102                                                    | 34    | 44 | 14 | 17 | 11 | 10 | 22+22 | 64  | 1,5x60°     |              | 475.215.000                                                                       | 475.215.001                                                                         |
|          |                                                        |       |    |    |    |    |    |       |     |             | 1/16"x90°    | 476.215.000                                                                       | 476.215.001                                                                         |
| 250/280  | 130                                                    | 50/44 | 50 | 20 | 20 | 13 | 13 | 30+30 | 86  | 1,5x60°     |              | 475.250.000                                                                       | 475.250.001                                                                         |
|          |                                                        |       |    |    |    |    |    |       |     |             | 1/16"x90°    | 476.250.000                                                                       | 476.250.001                                                                         |
| 350      | 170                                                    | 49    | 58 | 21 | 25 | 17 | 22 | 40+40 | 112 | 1,5x60°     |              | 475.350.000                                                                       | 475.350.001                                                                         |
|          |                                                        |       |    |    |    |    |    |       |     |             | 1/16"x90°    | 476.350.000                                                                       | 476.350.001                                                                         |
| 450      | 220                                                    | 69    | 80 | 30 | 31 | 21 | 25 | 50+50 | 150 | 1,5x60°     |              | 475.450.000                                                                       | 475.450.001                                                                         |
|          |                                                        |       |    |    |    |    |    |       |     |             | 1/16"x90°    | 476.450.000                                                                       | 476.450.001                                                                         |
|          |                                                        |       |    |    |    |    |    |       |     |             |              |                                                                                   |                                                                                     |
|          |                                                        |       |    |    |    |    |    |       |     |             |              |                                                                                   |                                                                                     |

**KITAGAWA**  
**HOWA**  
**NIKKO**  
**MATSUMOTO**  
**PRATT**

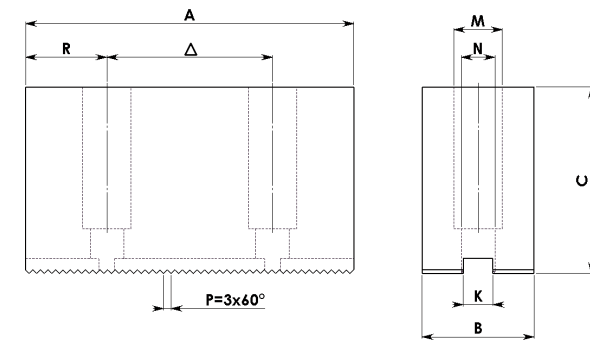


| Technische Daten - Technical data - Données techniques |     |    |    |    |    |     |    |    |                                                                                     |             | Bestell-Nummer<br>Order number<br>Numéro de commande |                                                                                     |                                                                                     |
|--------------------------------------------------------|-----|----|----|----|----|-----|----|----|-------------------------------------------------------------------------------------|-------------|------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Diametre                                               | A   | B  | C  | K  | M  | N   | R  | Δ  |  | P<br>1,50mm |                                                      |  |  |
| 110                                                    | 48  | 25 | 25 | 8  | 11 | 6,5 | 8  | 15 | M6                                                                                  | 1,5x60°     |                                                      | 478.086.000                                                                         | 478.086.001                                                                         |
| 110/135                                                | 54  | 25 | 30 | 10 | 14 | 9   | 8  | 14 | M8                                                                                  | 1,5x60°     |                                                      | 478.108.000                                                                         | 478.108.001                                                                         |
| 135                                                    | 60  | 25 | 30 | 10 | 14 | 9   | 8  | 19 | M8                                                                                  | 1,5x60°     |                                                      | 478.108.500                                                                         | 478.108.501                                                                         |
| 110/135                                                | 50  | 25 | 30 | 11 | 14 | 9   | 8  | 16 | M8                                                                                  | 1,5x60°     |                                                      | 478.118.000                                                                         | 478.118.001                                                                         |
| 135                                                    | 60  | 25 | 30 | 11 | 14 | 9   | 8  | 19 | M8                                                                                  | 1,5x60°     |                                                      | 478.118.500                                                                         | 478.118.501                                                                         |
| 165/168                                                | 77  | 35 | 35 | 11 | 14 | 9   | 17 | 20 | M8                                                                                  | 1,5x60°     |                                                      | 478.118.600                                                                         | 478.118.601                                                                         |
|                                                        | 77  | 30 | 60 | 11 | 14 | 9   | 17 | 20 | M8                                                                                  | 1,5x60°     |                                                      | 478.118.660                                                                         | 478.118.661                                                                         |
| 160/170                                                | 72  | 30 | 40 | 12 | 17 | 11  | 15 | 20 | M10                                                                                 | 1,5x60°     |                                                      | 478.120.000                                                                         | 478.120.001                                                                         |
|                                                        | 72  | 30 | 60 | 12 | 17 | 11  | 15 | 20 | M10                                                                                 | 1,5x60°     |                                                      | 478.120.060                                                                         | 478.120.061                                                                         |
| 215                                                    | 90  | 34 | 60 | 14 | 17 | 11  | 20 | 25 | M10                                                                                 | 1,5x60°     |                                                      | 478.140.000                                                                         | 478.140.001                                                                         |
| 200/210                                                | 100 | 34 | 44 | 14 | 19 | 13  | 20 | 25 | M12                                                                                 | 1,5x60°     |                                                      | 478.142.000                                                                         | 478.142.001                                                                         |
|                                                        | 90  | 34 | 60 | 14 | 19 | 13  | 20 | 25 | M12                                                                                 | 1,5x60°     |                                                      | 478.142.060                                                                         | 478.142.061                                                                         |
|                                                        | 90  | 34 | 80 | 14 | 19 | 13  | 20 | 25 | M12                                                                                 | 1,5x60°     |                                                      | 478.142.080                                                                         | 478.142.081                                                                         |
| 210/254                                                | 110 | 40 | 50 | 16 | 19 | 13  | 20 | 25 | M12                                                                                 | 1,5x60°     |                                                      | 478.162.000                                                                         | 478.162.001                                                                         |
|                                                        | 110 | 40 | 60 | 16 | 19 | 13  | 20 | 25 | M12                                                                                 | 1,5x60°     |                                                      | 478.162.060                                                                         | 478.162.061                                                                         |
|                                                        | 110 | 40 | 80 | 16 | 19 | 13  | 20 | 25 | M12                                                                                 | 1,5x60°     |                                                      | 478.162.080                                                                         | 478.162.081                                                                         |
| 250/254                                                | 110 | 40 | 48 | 16 | 19 | 13  | 20 | 30 | M12                                                                                 | 1,5x60°     |                                                      | 478.162.500                                                                         | 478.162.501                                                                         |
|                                                        | 110 | 40 | 60 | 16 | 19 | 13  | 25 | 30 | M12                                                                                 | 1,5x60°     |                                                      | 478.162.560                                                                         | 478.162.561                                                                         |
|                                                        | 110 | 40 | 80 | 16 | 19 | 13  | 25 | 30 | M12                                                                                 | 1,5x60°     |                                                      | 478.162.580                                                                         | 478.162.581                                                                         |

**KITAGAWA**  
**HOWA**  
**NIKKO**  
**MATSUMOTO**  
**PRATT**



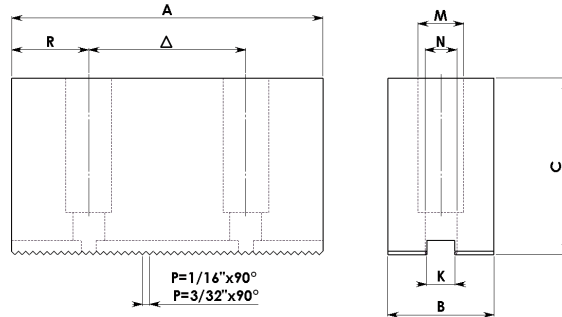
**KITAGAWA**  
**HOWA**  
**NIKKO**  
**MATSUMOTO**  
**PRATT**



|          | Technische Daten - Technical data - Données techniques |    |    |      |    |    |    |    |                                                                                   |             | Bestell-Nummer<br>Order number<br>Numéro de commande                              |                                                                                     |
|----------|--------------------------------------------------------|----|----|------|----|----|----|----|-----------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Diametre | A                                                      | B  | C  | K    | M  | N  | R  | Δ  |  | P<br>1,50mm |  |  |
| 300/304  | 130                                                    | 50 | 50 | 18   | 22 | 15 | 30 | 30 | M14                                                                               | 1,5x60°     | 478.184.000                                                                       | 478.184.001                                                                         |
|          | 130                                                    | 50 | 80 | 18   | 22 | 15 | 30 | 30 | M14                                                                               | 1,5x60°     | 478.184.080                                                                       | 478.184.081                                                                         |
| 304      | 130                                                    | 50 | 50 | 21   | 25 | 17 | 30 | 30 | M16                                                                               | 1,5x60°     | 478.216.000                                                                       | 478.216.001                                                                         |
|          | 130                                                    | 50 | 80 | 21   | 25 | 17 | 30 | 30 | M16                                                                               | 1,5x60°     | 478.216.080                                                                       | 478.216.081                                                                         |
| 304      | 110                                                    | 50 | 80 | 21   | 25 | 17 | 25 | 35 | M16                                                                               | 1,5x60°     | 478.216.500                                                                       | 478.216.501                                                                         |
| 381/454  | 160                                                    | 60 | 80 | 22   | 32 | 21 | 37 | 43 | M20                                                                               | 1,5x60°     | 478.220.000                                                                       | 478.220.001                                                                         |
| 381/530  | 156                                                    | 60 | 80 | 22   | 32 | 21 | 36 | 60 | M20                                                                               | 1,5x60°     | 478.220.500                                                                       | 478.220.501                                                                         |
| 381/450  | 135                                                    | 50 | 60 | 25,5 | 32 | 21 | 26 | 43 | M20                                                                               | 1,5x60°     | 478.250.000                                                                       | 478.250.001                                                                         |
|          | 135                                                    | 50 | 80 | 25,5 | 32 | 21 | 26 | 43 | M20                                                                               | 1,5x60°     | 478.250.080                                                                       | 478.250.081                                                                         |
|          |                                                        |    |    |      |    |    |    |    |                                                                                   |             |                                                                                   |                                                                                     |
|          |                                                        |    |    |      |    |    |    |    |                                                                                   |             |                                                                                   |                                                                                     |
|          |                                                        |    |    |      |    |    |    |    |                                                                                   |             |                                                                                   |                                                                                     |
|          |                                                        |    |    |      |    |    |    |    |                                                                                   |             |                                                                                   |                                                                                     |
|          |                                                        |    |    |      |    |    |    |    |                                                                                   |             |                                                                                   |                                                                                     |
|          |                                                        |    |    |      |    |    |    |    |                                                                                   |             |                                                                                   |                                                                                     |
|          |                                                        |    |    |      |    |    |    |    |                                                                                   |             |                                                                                   |                                                                                     |
|          |                                                        |    |    |      |    |    |    |    |                                                                                   |             |                                                                                   |                                                                                     |

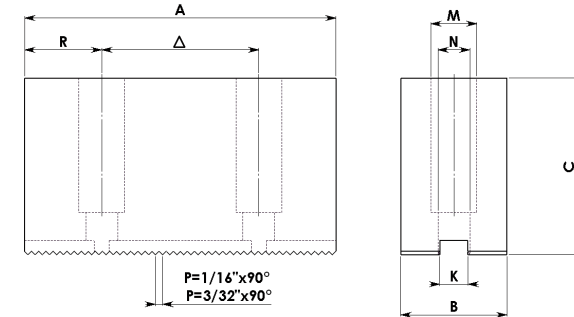
|          | Technische Daten - Technical data - Données techniques |    |    |    |    |    |    |    |                                                                                     |             | Bestell-Nummer<br>Order number<br>Numéro de commande                                |                                                                                     |
|----------|--------------------------------------------------------|----|----|----|----|----|----|----|-------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Diametre | A                                                      | B  | C  | K  | M  | N  | R  | Δ  |  | P<br>3,00mm |  |  |
| 210      | 90                                                     | 34 | 44 | 14 | 19 | 13 | 20 | 25 | M12                                                                                 | 3x60°       | 479.142.000                                                                         | 479.142.001                                                                         |
|          | 90                                                     | 34 | 60 | 14 | 19 | 13 | 20 | 25 | M12                                                                                 | 3x60°       | 479.142.060                                                                         | 479.142.061                                                                         |
| 254      | 110                                                    | 45 | 45 | 16 | 19 | 13 | 20 | 30 | M12                                                                                 | 3x60°       | 479.162.000                                                                         | 479.162.001                                                                         |
| 304      | 130                                                    | 50 | 50 | 18 | 22 | 15 | 30 | 30 | M14                                                                                 | 3x60°       | 479.184.000                                                                         | 479.184.001                                                                         |
| 304/381  | 126                                                    | 50 | 58 | 21 | 25 | 17 | 26 | 40 | M16                                                                                 | 3x60°       | 479.216.000                                                                         | 479.216.001                                                                         |
| 381/454  | 156                                                    | 65 | 68 | 22 | 32 | 21 | 34 | 50 | M20                                                                                 | 3x60°       | 479.220.000                                                                         | 479.220.001                                                                         |
| 530      | 195                                                    | 65 | 68 | 25 | 32 | 21 | 50 | 60 | M20                                                                                 | 3x60°       | 479.250.000                                                                         | 479.250.001                                                                         |
| 610      | 210                                                    | 75 | 98 | 25 | 32 | 21 | 60 | 60 | M20                                                                                 | 3x60°       | 479.250.500                                                                         | 479.250.501                                                                         |
| 381      | 138                                                    | 60 | 80 | 26 | 32 | 21 | 30 | 42 | M20                                                                                 | 3x60°       | 479.260.000                                                                         | 479.260.001                                                                         |
| 381/610  | 156                                                    | 65 | 68 | 26 | 32 | 21 | 34 | 50 | M20                                                                                 | 3x60°       | 479.260.500                                                                         | 479.260.501                                                                         |
|          |                                                        |    |    |    |    |    |    |    |                                                                                     |             |                                                                                     |                                                                                     |
|          |                                                        |    |    |    |    |    |    |    |                                                                                     |             |                                                                                     |                                                                                     |
|          |                                                        |    |    |    |    |    |    |    |                                                                                     |             |                                                                                     |                                                                                     |
|          |                                                        |    |    |    |    |    |    |    |                                                                                     |             |                                                                                     |                                                                                     |
|          |                                                        |    |    |    |    |    |    |    |                                                                                     |             |                                                                                     |                                                                                     |
|          |                                                        |    |    |    |    |    |    |    |                                                                                     |             |                                                                                     |                                                                                     |
|          |                                                        |    |    |    |    |    |    |    |                                                                                     |             |                                                                                     |                                                                                     |
|          |                                                        |    |    |    |    |    |    |    |                                                                                     |             |                                                                                     |                                                                                     |

## AUTOBLOK



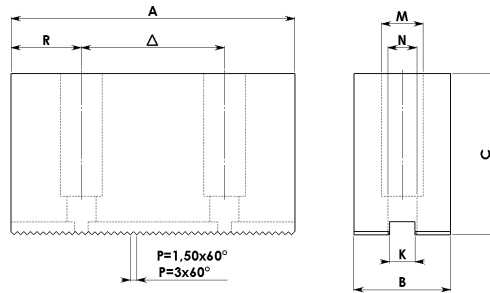
|          | Technische Daten - Technical data - Données techniques |    |     |      |    |    |    |    |                                                                                   |                        | Bestell-Nummer<br>Order number<br>Numéro de commande                              |                                                                                     |
|----------|--------------------------------------------------------|----|-----|------|----|----|----|----|-----------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Diametre | A                                                      | B  | C   | K    | M  | N  | R  | Δ  |  | P<br>1,587mm<br>2,38mm |  |  |
| 125/150  | 60                                                     | 30 | 40  | 12   | 14 | 9  | 15 | 16 | M8                                                                                | 1/16"x90°              | 472.128.000                                                                       | 472.128.001                                                                         |
| 165/170  | 70                                                     | 35 | 35  | 14   | 17 | 11 | 16 | 16 | M10                                                                               | 1/16"x90°              | 472.140.000                                                                       | 472.140.001                                                                         |
|          | 70                                                     | 40 | 60  | 14   | 17 | 11 | 16 | 16 | M10                                                                               | 1/16"x90°              | 472.140.060                                                                       | 472.140.061                                                                         |
| 200/210  | 90                                                     | 40 | 40  | 17   | 19 | 13 | 20 | 23 | M12                                                                               | 1/16"x90°              | 472.172.000                                                                       | 472.172.001                                                                         |
|          | 90                                                     | 40 | 60  | 17   | 19 | 13 | 20 | 23 | M12                                                                               | 1/16"x90°              | 472.172.060                                                                       | 472.172.061                                                                         |
|          | 90                                                     | 40 | 80  | 17   | 19 | 13 | 20 | 23 | M12                                                                               | 1/16"x90°              | 472.172.080                                                                       | 472.172.081                                                                         |
| 200/250  | 110                                                    | 45 | 45  | 21   | 25 | 17 | 20 | 30 | M16                                                                               | 1/16"x90°              | 472.216.000                                                                       | 472.216.001                                                                         |
| 305/315  | 120                                                    | 50 | 50  | 21   | 25 | 17 | 30 | 30 | M16                                                                               | 1/16"x90°              | 472.216.050                                                                       | 472.216.051                                                                         |
|          | 120                                                    | 50 | 80  | 21   | 25 | 17 | 30 | 30 | M16                                                                               | 1/16"x90°              | 472.216.080                                                                       | 472.216.081                                                                         |
| 400      | 140                                                    | 60 | 60  | 21   | 25 | 17 | 25 | 30 | M16                                                                               | 1/16"x90°              | 472.216.600                                                                       | 472.216.601                                                                         |
| 250/315  | 120                                                    | 60 | 60  | 25,5 | 32 | 21 | 22 | 35 | M20                                                                               | 1/16"x90°              | 472.250.000                                                                       | 472.250.001                                                                         |
|          | 140                                                    | 60 | 90  | 25,5 | 32 | 21 | 30 | 35 | M20                                                                               | 1/16"x90°              | 472.250.090                                                                       | 472.250.091                                                                         |
| 400/630  | 155                                                    | 60 | 60  | 25,5 | 32 | 21 | 30 | 35 | M20                                                                               | 3/32"x90°              | 473.250.000                                                                       | 473.250.001                                                                         |
|          | 155                                                    | 60 | 100 | 25,5 | 32 | 21 | 30 | 35 | M20                                                                               | 3/32"x90°              | 473.250.100                                                                       | 473.250.101                                                                         |
| 500/800  | 160                                                    | 70 | 75  | 28   | 32 | 21 | 25 | 38 | M20                                                                               | 3/32"x90°              | 473.280.080                                                                       | 473.280.081                                                                         |
|          | 170                                                    | 60 | 60  | 28   | 32 | 21 | 27 | 35 | M20                                                                               | 3/32"x90°              | 473.280.060                                                                       | 473.280.061                                                                         |

## FORKARDT



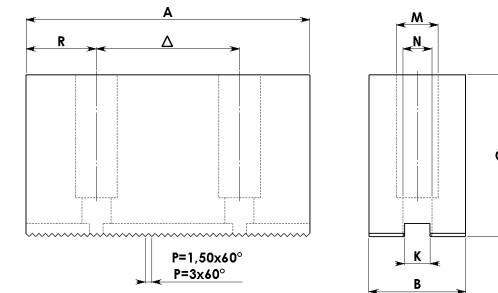
|          | Technische Daten - Technical data - Données techniques |    |     |      |    |    |    |    |                                                                                     |                        | Bestell-Nummer<br>Order number<br>Numéro de commande                                |                                                                                     |
|----------|--------------------------------------------------------|----|-----|------|----|----|----|----|-------------------------------------------------------------------------------------|------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Diametre | A                                                      | B  | C   | K    | M  | N  | R  | Δ  |  | P<br>1,587mm<br>2,38mm |  |  |
| 160      | 70                                                     | 40 | 40  | 17   | 19 | 13 | 15 | 22 | M12                                                                                 | 1/16"x90°              | 472.172.200                                                                         | 472.172.201                                                                         |
|          | 70                                                     | 40 | 60  | 17   | 19 | 13 | 15 | 22 | M12                                                                                 | 1/16"x90°              | 472.172.260                                                                         | 472.172.261                                                                         |
| 200      | 90                                                     | 40 | 40  | 17   | 19 | 13 | 20 | 23 | M12                                                                                 | 1/16"x90°              | 472.172.000                                                                         | 472.172.001                                                                         |
|          | 90                                                     | 40 | 60  | 17   | 19 | 13 | 20 | 23 | M12                                                                                 | 1/16"x90°              | 472.172.060                                                                         | 472.172.061                                                                         |
|          | 90                                                     | 40 | 80  | 17   | 19 | 13 | 20 | 23 | M12                                                                                 | 1/16"x90°              | 472.172.080                                                                         | 472.172.081                                                                         |
| 250/315  | 95                                                     | 50 | 58  | 21   | 25 | 17 | 15 | 30 | M16                                                                                 | 1/16"x90°              | 472.216.500                                                                         | 472.216.501                                                                         |
|          | 120                                                    | 50 | 50  | 21   | 25 | 17 | 30 | 30 | M16                                                                                 | 1/16"x90°              | 472.216.050                                                                         | 472.216.051                                                                         |
| 300/400  | 120                                                    | 50 | 80  | 21   | 25 | 17 | 30 | 30 | M16                                                                                 | 1/16"x90°              | 472.216.080                                                                         | 472.216.081                                                                         |
|          | 120                                                    | 60 | 60  | 25,5 | 32 | 21 | 22 | 35 | M20                                                                                 | 1/16"x90°              | 472.250.000                                                                         | 472.250.001                                                                         |
| 400/630  | 140                                                    | 60 | 90  | 25,5 | 32 | 21 | 30 | 35 | M20                                                                                 | 1/16"x90°              | 472.250.090                                                                         | 472.250.091                                                                         |
|          | 155                                                    | 60 | 60  | 25,5 | 32 | 21 | 30 | 35 | M20                                                                                 | 3/32"x90°              | 473.250.000                                                                         | 473.250.001                                                                         |
|          | 155                                                    | 60 | 100 | 25,5 | 32 | 21 | 30 | 35 | M20                                                                                 | 3/32"x90°              | 473.250.100                                                                         | 473.250.101                                                                         |

**KITAGAWA  
MATSUMOTO**



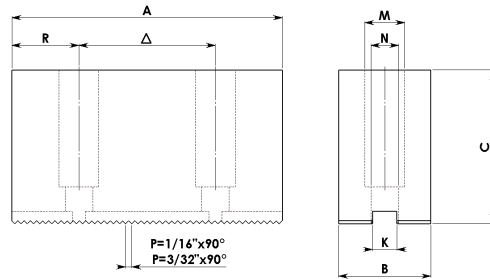
| Diametre | Technische Daten - Technical data - Données techniques |    |    |    |    |     |    |    |                                                                                   |                       | Bestell-Nummer<br>Order number<br>Numéro de commande |             |
|----------|--------------------------------------------------------|----|----|----|----|-----|----|----|-----------------------------------------------------------------------------------|-----------------------|------------------------------------------------------|-------------|
|          | A                                                      | B  | C  | K  | M  | N   | R  | Δ  |  | P<br>1,50mm<br>3,00mm | 3                                                    | 3           |
| 110      | 48                                                     | 25 | 25 | 8  | 11 | 6,5 | 8  | 15 | M6                                                                                | 1,5x60°               | 478.086.000                                          | 478.086.001 |
| 110      | 54                                                     | 25 | 30 | 10 | 14 | 9   | 8  | 14 | M8                                                                                | 1,5x60°               | 478.108.000                                          | 478.108.001 |
| 135      | 60                                                     | 25 | 30 | 10 | 14 | 9   | 8  | 19 | M8                                                                                | 1,5x60°               | 478.108.500                                          | 478.108.501 |
| 168      | 77                                                     | 35 | 35 | 11 | 14 | 9   | 17 | 20 | M8                                                                                | 1,5x60°               | 478.118.600                                          | 478.118.601 |
|          | 77                                                     | 30 | 60 | 11 | 14 | 9   | 17 | 20 | M8                                                                                | 1,5x60°               | 478.118.660                                          | 478.118.661 |
| 165      | 72                                                     | 30 | 40 | 12 | 17 | 11  | 15 | 20 | M10                                                                               | 1,5x60°               | 478.120.000                                          | 478.120.001 |
|          | 72                                                     | 30 | 60 | 12 | 17 | 11  | 15 | 20 | M10                                                                               | 1,5x60°               | 478.120.060                                          | 478.120.061 |
| 210      | 100                                                    | 34 | 44 | 14 | 19 | 13  | 20 | 25 | M12                                                                               | 1,5x60°               | 478.142.000                                          | 478.142.001 |
|          | 90                                                     | 34 | 60 | 14 | 19 | 13  | 20 | 25 | M12                                                                               | 1,5x60°               | 478.142.060                                          | 478.142.061 |
|          | 90                                                     | 34 | 80 | 14 | 19 | 13  | 20 | 25 | M12                                                                               | 1,5x60°               | 478.142.080                                          | 478.142.081 |
| 254      | 110                                                    | 40 | 48 | 16 | 19 | 13  | 20 | 30 | M12                                                                               | 1,5x60°               | 478.162.500                                          | 478.162.501 |
|          | 110                                                    | 40 | 60 | 16 | 19 | 13  | 25 | 30 | M12                                                                               | 1,5x60°               | 478.162.560                                          | 478.162.561 |
|          | 110                                                    | 40 | 80 | 16 | 19 | 13  | 25 | 30 | M12                                                                               | 1,5x60°               | 478.162.580                                          | 478.162.581 |
| 304      | 130                                                    | 50 | 50 | 18 | 22 | 15  | 30 | 30 | M14                                                                               | 1,5x60°               | 478.184.000                                          | 478.184.001 |
|          | 130                                                    | 50 | 80 | 18 | 22 | 15  | 30 | 30 | M14                                                                               | 1,5x60°               | 478.184.080                                          | 478.184.081 |
|          | 130                                                    | 50 | 50 | 21 | 25 | 17  | 30 | 30 | M16                                                                               | 1,5x60°               | 478.216.000                                          | 478.216.001 |
| 381      | 160                                                    | 60 | 80 | 22 | 32 | 21  | 37 | 43 | M20                                                                               | 1,5x60°               | 478.220.000                                          | 478.220.001 |
| 530      | 195                                                    | 65 | 68 | 25 | 32 | 21  | 50 | 60 | M20                                                                               | 3x60°                 | 479.250.000                                          | 479.250.001 |
| 610      | 210                                                    | 75 | 98 | 25 | 32 | 21  | 60 | 60 | M20                                                                               | 3x60°                 | 479.250.500                                          | 479.250.501 |

**HOWA**



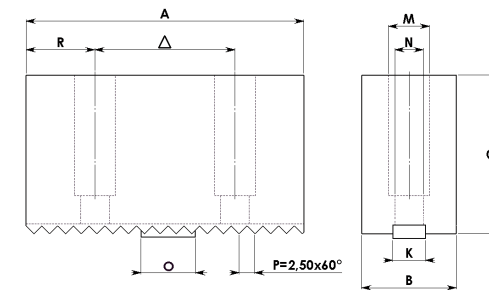
| Diametre | Technische Daten - Technical data - Données techniques |    |    |    |    |    |    |    |                                                                                     |                       | Bestell-Nummer<br>Order number<br>Numéro de commande |             |
|----------|--------------------------------------------------------|----|----|----|----|----|----|----|-------------------------------------------------------------------------------------|-----------------------|------------------------------------------------------|-------------|
|          | A                                                      | B  | C  | K  | M  | N  | R  | Δ  |  | P<br>1,50mm<br>3,00mm | 3                                                    | 3           |
| 110      | 54                                                     | 25 | 30 | 10 | 14 | 9  | 8  | 14 | M8                                                                                  | 1,5x60°               | 478.108.000                                          | 478.108.001 |
| 135      | 60                                                     | 25 | 30 | 10 | 14 | 9  | 8  | 19 | M8                                                                                  | 1,5x60°               | 478.108.500                                          | 478.108.501 |
| 110/135  | 50                                                     | 25 | 30 | 11 | 14 | 9  | 8  | 16 | M8                                                                                  | 1,5x60°               | 478.118.000                                          | 478.118.001 |
| 135      | 60                                                     | 25 | 30 | 11 | 14 | 9  | 8  | 19 | M8                                                                                  | 1,5x60°               | 478.118.500                                          | 478.118.501 |
| 165      | 72                                                     | 30 | 40 | 12 | 17 | 11 | 15 | 20 | M10                                                                                 | 1,5x60°               | 478.120.000                                          | 478.120.001 |
|          | 72                                                     | 30 | 60 | 12 | 17 | 11 | 15 | 20 | M10                                                                                 | 1,5x60°               | 478.120.060                                          | 478.120.061 |
| 200/210  | 100                                                    | 34 | 44 | 14 | 19 | 13 | 20 | 25 | M12                                                                                 | 1,5x60°               | 478.142.000                                          | 478.142.001 |
|          | 90                                                     | 34 | 60 | 14 | 19 | 13 | 20 | 25 | M12                                                                                 | 1,5x60°               | 478.142.060                                          | 478.142.061 |
|          | 90                                                     | 34 | 80 | 14 | 19 | 13 | 20 | 25 | M12                                                                                 | 1,5x60°               | 478.142.080                                          | 478.142.081 |
| 210/254  | 110                                                    | 40 | 50 | 16 | 19 | 13 | 20 | 25 | M12                                                                                 | 1,5x60°               | 478.162.000                                          | 478.162.001 |
|          | 110                                                    | 40 | 60 | 16 | 19 | 13 | 20 | 25 | M12                                                                                 | 1,5x60°               | 478.162.060                                          | 478.162.061 |
|          | 110                                                    | 40 | 80 | 16 | 19 | 13 | 20 | 25 | M12                                                                                 | 1,5x60°               | 478.162.080                                          | 478.162.081 |
| 254/304  | 130                                                    | 50 | 50 | 18 | 22 | 15 | 30 | 30 | M14                                                                                 | 1,5x60°               | 478.184.000                                          | 478.184.001 |
|          | 130                                                    | 50 | 80 | 18 | 22 | 15 | 30 | 30 | M14                                                                                 | 1,5x60°               | 478.184.080                                          | 478.184.081 |
| 304      | 110                                                    | 50 | 80 | 21 | 25 | 17 | 25 | 35 | M16                                                                                 | 1,5x60°               | 478.216.500                                          | 478.216.501 |
| 254      | 110                                                    | 45 | 45 | 16 | 19 | 13 | 20 | 30 | M12                                                                                 | 3x60°                 | 479.162.000                                          | 479.162.001 |
| 304      | 130                                                    | 50 | 50 | 18 | 22 | 15 | 30 | 30 | M14                                                                                 | 3x60°                 | 479.184.000                                          | 479.184.001 |
| 381      | 126                                                    | 50 | 58 | 21 | 25 | 17 | 26 | 40 | M16                                                                                 | 3x60°                 | 479.216.000                                          | 479.216.001 |
| 381/610  | 156                                                    | 65 | 68 | 26 | 32 | 21 | 34 | 50 | M20                                                                                 | 3x60°                 | 479.260.500                                          | 479.260.501 |

## RÖHM

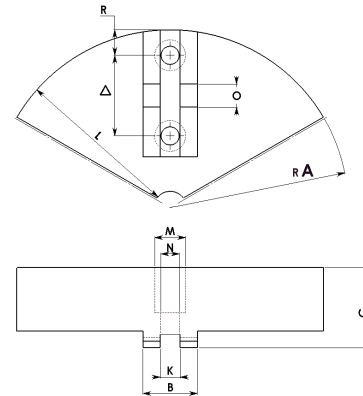


|          | Technische Daten - Technical data - Données techniques |    |     |      |    |    |    |    |                                                                                   |                        | Bestell-Nummer<br>Order number<br>Numéro de commande                              |                                                                                     |
|----------|--------------------------------------------------------|----|-----|------|----|----|----|----|-----------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Diametre | A                                                      | B  | C   | K    | M  | N  | R  | Δ  |  | P<br>1,587mm<br>2,38mm |  |  |
| 130/160  | 60                                                     | 30 | 40  | 12   | 14 | 9  | 15 | 16 | M8                                                                                | 1/16"x90°              | 472.128.000                                                                       | 472.128.001                                                                         |
| 160      | 70                                                     | 40 | 40  | 17   | 19 | 13 | 15 | 22 | M12                                                                               | 1/16"x90°              | 472.172.200                                                                       | 472.172.201                                                                         |
|          | 70                                                     | 40 | 60  | 17   | 19 | 13 | 15 | 22 | M12                                                                               | 1/16"x90°              | 472.172.260                                                                       | 472.172.261                                                                         |
| 200      | 90                                                     | 40 | 40  | 17   | 19 | 13 | 20 | 23 | M12                                                                               | 1/16"x90°              | 472.172.000                                                                       | 472.172.001                                                                         |
|          | 90                                                     | 40 | 60  | 17   | 19 | 13 | 20 | 23 | M12                                                                               | 1/16"x90°              | 472.172.060                                                                       | 472.172.061                                                                         |
|          | 90                                                     | 40 | 80  | 17   | 19 | 13 | 20 | 23 | M12                                                                               | 1/16"x90°              | 472.172.080                                                                       | 472.172.081                                                                         |
| 250/315  | 95                                                     | 50 | 58  | 21   | 25 | 17 | 15 | 25 | M16                                                                               | 1/16"x90°              | 472.216.500                                                                       | 472.216.501                                                                         |
|          | 120                                                    | 50 | 50  | 21   | 25 | 17 | 30 | 30 | M16                                                                               | 1/16"x90°              | 472.216.050                                                                       | 472.216.051                                                                         |
|          | 120                                                    | 50 | 80  | 21   | 25 | 17 | 30 | 30 | M16                                                                               | 1/16"x90°              | 472.216.080                                                                       | 472.216.081                                                                         |
| 400/500  | 155                                                    | 60 | 60  | 25,5 | 32 | 21 | 30 | 35 | M20                                                                               | 3/32"x90°              | 473.250.000                                                                       | 473.250.001                                                                         |
|          | 155                                                    | 60 | 100 | 25,5 | 32 | 21 | 30 | 35 | M20                                                                               | 3/32"x90°              | 473.250.100                                                                       | 473.250.101                                                                         |
|          |                                                        |    |     |      |    |    |    |    |                                                                                   |                        |                                                                                   |                                                                                     |
|          |                                                        |    |     |      |    |    |    |    |                                                                                   |                        |                                                                                   |                                                                                     |
|          |                                                        |    |     |      |    |    |    |    |                                                                                   |                        |                                                                                   |                                                                                     |
|          |                                                        |    |     |      |    |    |    |    |                                                                                   |                        |                                                                                   |                                                                                     |
|          |                                                        |    |     |      |    |    |    |    |                                                                                   |                        |                                                                                   |                                                                                     |
|          |                                                        |    |     |      |    |    |    |    |                                                                                   |                        |                                                                                   |                                                                                     |
|          |                                                        |    |     |      |    |    |    |    |                                                                                   |                        |                                                                                   |                                                                                     |
|          |                                                        |    |     |      |    |    |    |    |                                                                                   |                        |                                                                                   |                                                                                     |
|          |                                                        |    |     |      |    |    |    |    |                                                                                   |                        |                                                                                   |                                                                                     |
|          |                                                        |    |     |      |    |    |    |    |                                                                                   |                        |                                                                                   |                                                                                     |
|          |                                                        |    |     |      |    |    |    |    |                                                                                   |                        |                                                                                   |                                                                                     |
|          |                                                        |    |     |      |    |    |    |    |                                                                                   |                        |                                                                                   |                                                                                     |
|          |                                                        |    |     |      |    |    |    |    |                                                                                   |                        |                                                                                   |                                                                                     |
|          |                                                        |    |     |      |    |    |    |    |                                                                                   |                        |                                                                                   |                                                                                     |
|          |                                                        |    |     |      |    |    |    |    |                                                                                   |                        |                                                                                   |                                                                                     |
|          |                                                        |    |     |      |    |    |    |    |                                                                                   |                        |                                                                                   |                                                                                     |

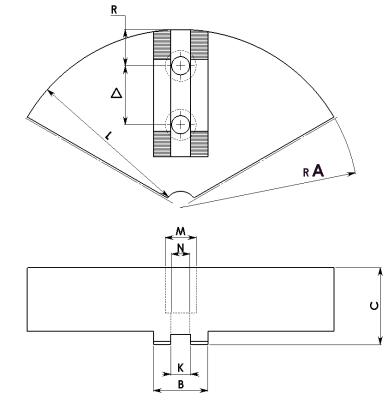
## LADNER STRIÉ



|          | Technische Daten - Technical data - Données techniques |    |    |    |    |    |    |      |    |             | Bestell-Nummer<br>Order number<br>Numéro de commande                                |                                                                                     |
|----------|--------------------------------------------------------|----|----|----|----|----|----|------|----|-------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Diametre | A                                                      | B  | C  | K  | M  | N  | O  | R    | Δ  | P<br>2,50mm |  |  |
| 155/160  | 70                                                     | 23 | 38 | 6  | 14 | 9  | 15 | 22,5 | 25 | 2,5x60°     | 492.155.000                                                                         | —                                                                                   |
|          | 75                                                     | 42 | 38 | 6  | 14 | 9  | 15 | 25   | 25 | 2,5x60°     | 492.155.500                                                                         | 492.155.700                                                                         |
| 200/215  | 92                                                     | 28 | 48 | 8  | 17 | 11 | 18 | 31   | 30 | 2,5x60°     | 492.200.000                                                                         | —                                                                                   |
|          | 92                                                     | 52 | 48 | 8  | 17 | 11 | 18 | 31   | 30 | 2,5x60°     | 492.200.500                                                                         | 492.200.700                                                                         |
| 250      | 112                                                    | 35 | 55 | 10 | 19 | 13 | 25 | 36   | 40 | 2,5x60°     | 492.250.000                                                                         | —                                                                                   |
|          | 112                                                    | 57 | 58 | 10 | 19 | 13 | 25 | 36   | 40 | 2,5x60°     | 492.250.500                                                                         | 492.250.700                                                                         |
| 300      | 122                                                    | 35 | 55 | 10 | 19 | 13 | 25 | 41   | 40 | 2,5x60°     | 492.300.000                                                                         | —                                                                                   |
|          | 122                                                    | 58 | 58 | 10 | 19 | 13 | 25 | 41   | 40 | 2,5x60°     | 492.300.500                                                                         | 492.300.700                                                                         |
| 350      | 125                                                    | 38 | 58 | 12 | 22 | 15 | 33 | 49   | 50 | 2,5x60°     | 492.350.000                                                                         | —                                                                                   |
| 375/400  | 140                                                    | 38 | 68 | 12 | 22 | 15 | 33 | 64   | 50 | 2,5x60°     | 492.375.000                                                                         | —                                                                                   |
|          |                                                        |    |    |    |    |    |    |      |    |             |                                                                                     |                                                                                     |
|          |                                                        |    |    |    |    |    |    |      |    |             |                                                                                     |                                                                                     |
|          |                                                        |    |    |    |    |    |    |      |    |             |                                                                                     |                                                                                     |
|          |                                                        |    |    |    |    |    |    |      |    |             |                                                                                     |                                                                                     |
|          |                                                        |    |    |    |    |    |    |      |    |             |                                                                                     |                                                                                     |
|          |                                                        |    |    |    |    |    |    |      |    |             |                                                                                     |                                                                                     |
|          |                                                        |    |    |    |    |    |    |      |    |             |                                                                                     |                                                                                     |
|          |                                                        |    |    |    |    |    |    |      |    |             |                                                                                     |                                                                                     |
|          |                                                        |    |    |    |    |    |    |      |    |             |                                                                                     |                                                                                     |
|          |                                                        |    |    |    |    |    |    |      |    |             |                                                                                     |                                                                                     |
|          |                                                        |    |    |    |    |    |    |      |    |             |                                                                                     |                                                                                     |
|          |                                                        |    |    |    |    |    |    |      |    |             |                                                                                     |                                                                                     |
|          |                                                        |    |    |    |    |    |    |      |    |             |                                                                                     |                                                                                     |
|          |                                                        |    |    |    |    |    |    |      |    |             |                                                                                     |                                                                                     |
|          |                                                        |    |    |    |    |    |    |      |    |             |                                                                                     |                                                                                     |



**SEGMENTBACKEN spitzverzahnt**  
**WRAP AROUND JAWS serrated**  
**MORS ENVELOPPANTS striés**



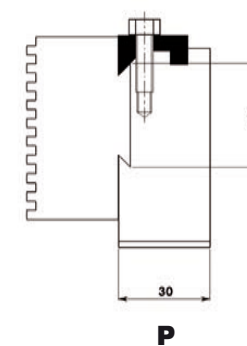
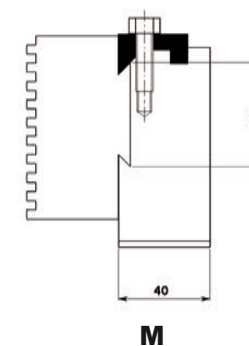
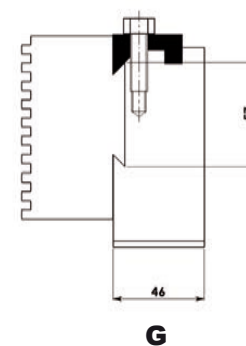
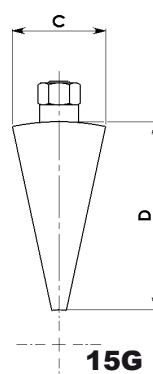
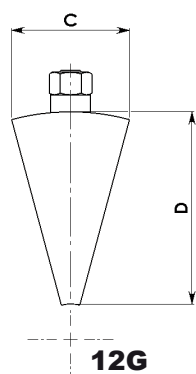
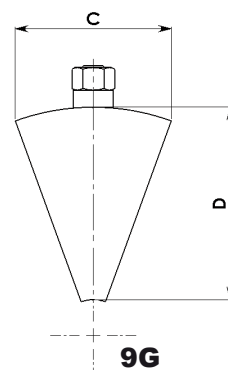
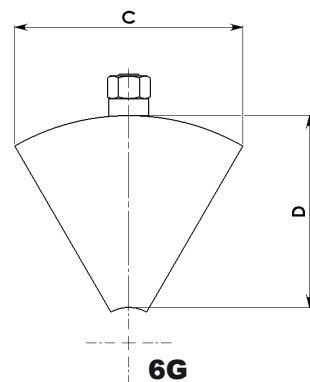
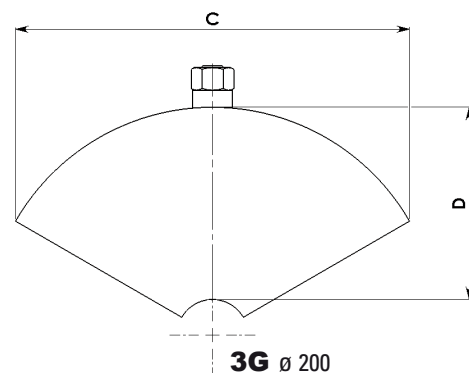
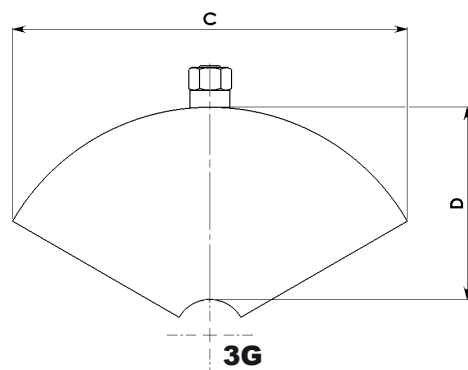
**Bestellbeispiel / Type of order / Exemple de commande**

401.060.800: K7,92 N9 R20 Δ38,1

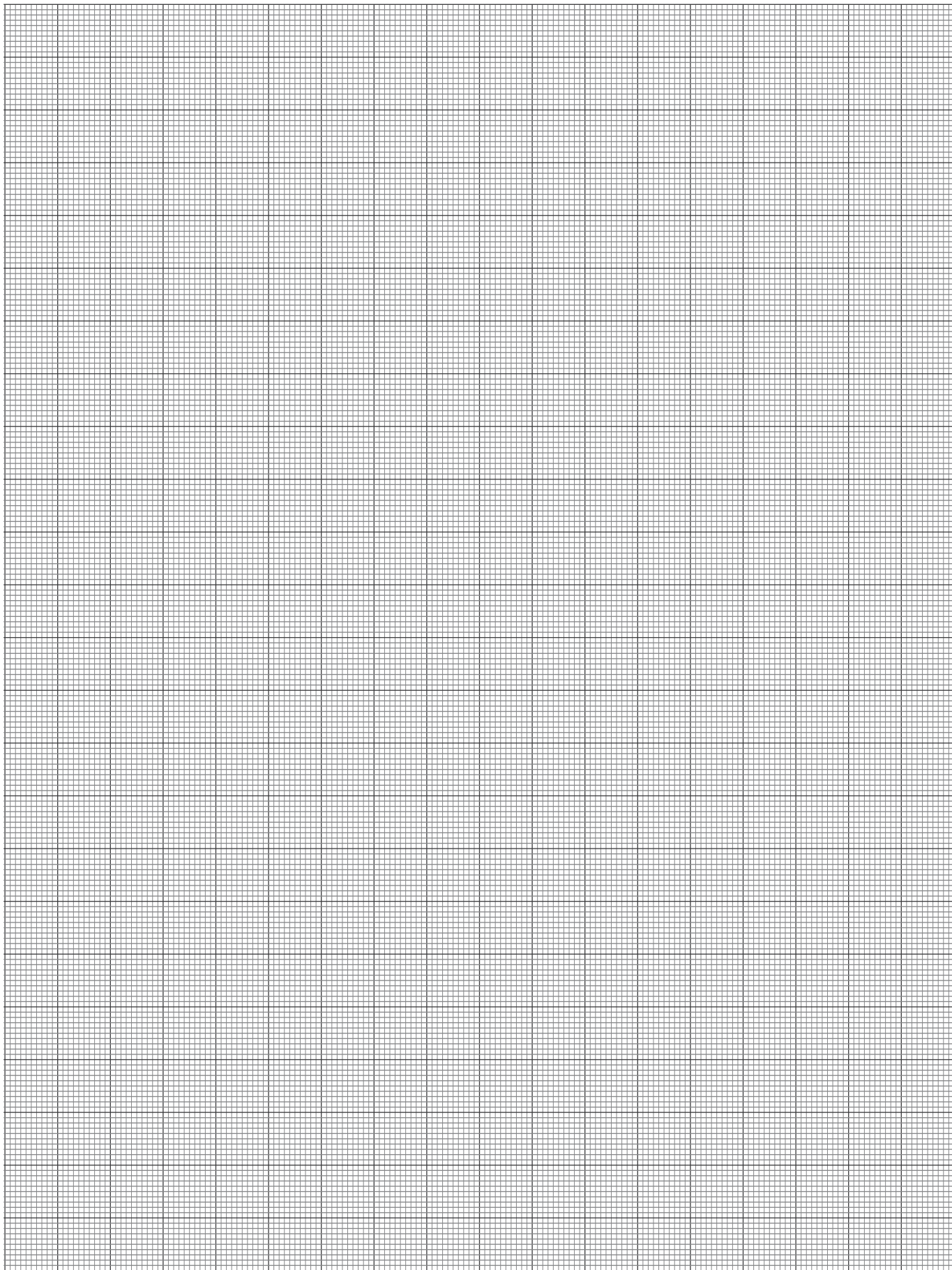
| Diametre | Technische Daten - Technical data - Données techniques |    |    |      |     |    |    |       |    |      | Bestell-Nummer<br>Order number<br>Numéro de commande |             |                 |
|----------|--------------------------------------------------------|----|----|------|-----|----|----|-------|----|------|------------------------------------------------------|-------------|-----------------|
|          | A                                                      | B  | C  | K    | L   | M  | N  | O     | R  | Δ    | Stahl<br>Steel<br>Acier                              | Aluminium   |                 |
| 125      | 64                                                     | 25 | 35 | 7,94 | 58  | 13 | 9  | 12,7  | 15 | 32   | 401.060.800                                          | 401.060.900 |                 |
| 160      | 78                                                     | 25 | 40 | 7,94 | 70  | 13 | 9  | 12,7  | 20 | 38,1 | 401.175.800                                          | 401.175.900 | Amestra<br>Röhm |
|          | 78                                                     | 25 | 40 | 7,94 | 70  | 17 | 11 | 12,7  | 20 | 38,1 | 401.061.800                                          | 401.061.900 |                 |
|          | 78                                                     | 25 | 60 | 7,94 | 70  | 13 | 9  | 12,7  | 20 | 38,1 | 401.175.810                                          | 401.175.910 | Amestra<br>Röhm |
|          | 78                                                     | 25 | 60 | 7,94 | 70  | 17 | 11 | 12,7  | 20 | 38,1 | 401.061.810                                          | 401.061.910 |                 |
|          | 78                                                     | 25 | 60 | 7,94 | 70  | 17 | 11 | 12,7  | 20 | 38,1 | 401.061.810                                          | 401.061.910 |                 |
| 200      | 98                                                     | 30 | 50 | 7,94 | 90  | 13 | 9  | 12,7  | 27 | 44,4 | 401.177.800                                          | 401.177.900 | Amestra<br>Röhm |
|          | 98                                                     | 30 | 50 | 7,94 | 90  | 17 | 11 | 12,7  | 27 | 44,4 | 401.062.800                                          | 401.062.900 |                 |
|          | 98                                                     | 30 | 70 | 7,94 | 90  | 13 | 9  | 12,7  | 27 | 44,4 | 401.177.810                                          | 401.177.910 | Amestra<br>Röhm |
|          | 98                                                     | 30 | 70 | 7,94 | 90  | 17 | 11 | 12,7  | 27 | 44,4 | 401.062.810                                          | 401.062.910 |                 |
|          | 98                                                     | 30 | 70 | 7,94 | 90  | 17 | 11 | 12,7  | 27 | 44,4 | 401.062.810                                          | 401.062.910 |                 |
| 250      | 124                                                    | 35 | 50 | 12,7 | 114 | 20 | 13 | 19,02 | 27 | 54   | 401.063.800                                          | 401.063.900 |                 |
|          | 124                                                    | 35 | 70 | 12,7 | 114 | 20 | 13 | 19,02 | 27 | 54   | 401.063.810                                          | 401.063.910 |                 |
| 315      | 148                                                    | 40 | 60 | 12,7 | 128 | 20 | 13 | 19,02 | 29 | 63,5 | 401.064.800                                          | 401.064.900 |                 |
|          | 148                                                    | 40 | 80 | 12,7 | 128 | 20 | 13 | 19,02 | 29 | 63,5 | 401.064.810                                          | 401.064.910 |                 |
| 400      | 198                                                    | 40 | 70 | 12,7 | 178 | 25 | 17 | 19,02 | 36 | 76,2 | 401.065.800                                          | 401.065.900 |                 |
|          | 198                                                    | 40 | 90 | 12,7 | 178 | 25 | 17 | 19,02 | 36 | 76,2 | 401.065.810                                          | 401.065.910 |                 |
|          |                                                        |    |    |      |     |    |    |       |    |      |                                                      |             |                 |
|          |                                                        |    |    |      |     |    |    |       |    |      |                                                      |             |                 |
|          |                                                        |    |    |      |     |    |    |       |    |      |                                                      |             |                 |
|          |                                                        |    |    |      |     |    |    |       |    |      |                                                      |             |                 |

| Diametre | Technische Daten - Technical data - Données techniques |    |    |   |     |   |   |   |   |   | Bestell-Nummer<br>Order number<br>Numéro de commande |                         |             |
|----------|--------------------------------------------------------|----|----|---|-----|---|---|---|---|---|------------------------------------------------------|-------------------------|-------------|
|          | A                                                      | B  | C  | K | L   | M | N | O | R | Δ | P<br>1,587mm<br>1,50mm                               | Stahl<br>Steel<br>Acier | Aluminium   |
| 160      | 78                                                     | 40 | 40 |   | 70  |   |   |   |   |   | 1/16"x90°                                            | 472.160.840             | 472.160.940 |
|          | 78                                                     | 40 | 60 |   | 70  |   |   |   |   |   | 1/16"x90°                                            | 472.160.860             | 472.160.960 |
|          | 78                                                     | 40 | 40 |   | 70  |   |   |   |   |   | 1,5x60°                                              | 478.160.840             | 478.160.940 |
|          | 78                                                     | 40 | 60 |   | 70  |   |   |   |   |   | 1,5x60°                                              | 478.160.860             | 478.160.960 |
| 200      | 98                                                     | 40 | 50 |   | 90  |   |   |   |   |   | 1/16"x90°                                            | 472.200.850             | 472.200.950 |
|          | 98                                                     | 40 | 70 |   | 90  |   |   |   |   |   | 1/16"x90°                                            | 472.200.870             | 472.200.970 |
|          | 98                                                     | 40 | 50 |   | 90  |   |   |   |   |   | 1,5x60°                                              | 478.200.850             | 478.200.950 |
|          | 98                                                     | 40 | 70 |   | 90  |   |   |   |   |   | 1,5x60°                                              | 478.200.870             | 478.200.970 |
| 250      | 124                                                    | 50 | 50 |   | 114 |   |   |   |   |   | 1/16"x90°                                            | 472.250.850             | 472.250.950 |
|          | 124                                                    | 50 | 70 |   | 114 |   |   |   |   |   | 1/16"x90°                                            | 472.250.870             | 472.250.970 |
|          | 124                                                    | 50 | 50 |   | 114 |   |   |   |   |   | 1,5x60°                                              | 478.250.850             | 478.250.950 |
|          | 124                                                    | 50 | 70 |   | 114 |   |   |   |   |   | 1,5x60°                                              | 478.250.870             | 478.250.970 |
| 315      | 148                                                    | 50 | 60 |   | 128 |   |   |   |   |   | 1/16"x90°                                            | 472.315.860             | 472.315.960 |
|          | 148                                                    | 50 | 80 |   | 128 |   |   |   |   |   | 1/16"x90°                                            | 472.315.880             | 472.315.980 |
|          | 148                                                    | 50 | 60 |   | 128 |   |   |   |   |   | 1,5x60°                                              | 478.315.860             | 478.315.960 |
|          | 148                                                    | 50 | 80 |   | 128 |   |   |   |   |   | 1,5x60°                                              | 478.315.880             | 478.315.980 |
| 400      | 198                                                    | 60 | 70 |   | 178 |   |   |   |   |   | 1/16"x90°                                            | 472.400.870             | 472.400.970 |
|          | 198                                                    | 60 | 90 |   | 178 |   |   |   |   |   | 1/16"x90°                                            | 472.400.890             | 472.400.990 |
|          | 198                                                    | 60 | 70 |   | 178 |   |   |   |   |   | 1,5x60°                                              | 478.400.870             | 478.400.970 |
|          | 198                                                    | 60 | 90 |   | 178 |   |   |   |   |   | 1,5x60°                                              | 478.400.890             | 478.400.990 |

**SCHWALBENSCHWANZBACKEN**  
DOVETAILED JAWS  
MORS BARBET



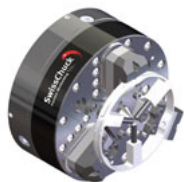
| Diametre | Technische Daten - Technical data - Données techniques |    |     |      |  |  |  |  |  |  | Bestell-Nummer<br>Order number<br>Numéro de commande |             |
|----------|--------------------------------------------------------|----|-----|------|--|--|--|--|--|--|------------------------------------------------------|-------------|
|          | A                                                      | B  | C   | D    |  |  |  |  |  |  | Stahl<br>Steel<br>Acier                              | Aluminium   |
|          |                                                        |    |     |      |  |  |  |  |  |  |                                                      |             |
| 3G - 200 | 57                                                     | 46 | 195 | 96,5 |  |  |  |  |  |  | 471.150.029                                          | 471.155.029 |
| 3G       | 57                                                     | 46 | 214 | 96,5 |  |  |  |  |  |  | 471.150.030                                          | 471.155.030 |
| 6G       | 57                                                     | 46 | 120 | 96,5 |  |  |  |  |  |  | 471.150.060                                          | 471.155.060 |
| 9G       | 57                                                     | 46 | 81  | 96,5 |  |  |  |  |  |  | 471.150.090                                          | 471.155.090 |
| 12G      | 57                                                     | 46 | 60  | 96,5 |  |  |  |  |  |  | 471.150.120                                          | 471.155.120 |
| 15G      | 57                                                     | 46 | 48  | 96,5 |  |  |  |  |  |  | 471.150.150                                          | 471.155.150 |
|          |                                                        |    |     |      |  |  |  |  |  |  |                                                      |             |
| 3M       | 46                                                     | 40 | 157 | 77   |  |  |  |  |  |  | 471.160.030                                          | 471.165.030 |
| 6M       | 46                                                     | 40 | 88  | 77   |  |  |  |  |  |  | 471.160.060                                          | 471.165.060 |
| 9M       | 46                                                     | 40 | 58  | 77   |  |  |  |  |  |  | 471.160.090                                          | 471.165.090 |
| 12M      | 46                                                     | 40 | 43  | 77   |  |  |  |  |  |  | 471.160.120                                          | 471.165.120 |
|          |                                                        |    |     |      |  |  |  |  |  |  |                                                      |             |
| 3P       | 35                                                     | 30 | 100 |      |  |  |  |  |  |  | 471.170.030                                          | 471.175.030 |
| 6P       | 35                                                     | 30 | 55  |      |  |  |  |  |  |  | 471.170.060                                          | 471.175.060 |
| 9P       | 35                                                     | 30 | 36  |      |  |  |  |  |  |  | 471.170.090                                          | 471.175.090 |
|          |                                                        |    |     |      |  |  |  |  |  |  |                                                      |             |
|          |                                                        |    |     |      |  |  |  |  |  |  |                                                      |             |
|          |                                                        |    |     |      |  |  |  |  |  |  |                                                      |             |
|          |                                                        |    |     |      |  |  |  |  |  |  |                                                      |             |







KCHP/VKHP  
Precision power chuck



SAP zu KCHP  
Automated vice



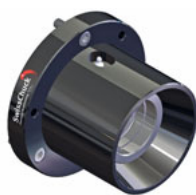
KFHP  
Precision power chuck



KHSF  
Centrifugal force chuck



VMCHP  
Diaphragm chuck



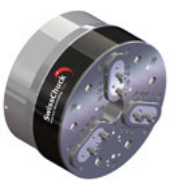
LZK/LSK-S  
Collet chuck with clamping lamellas



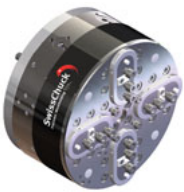
DL  
Collet expanding mandrel



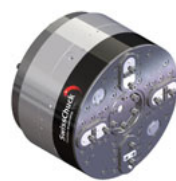
TGC/FTGC  
Tool chuck



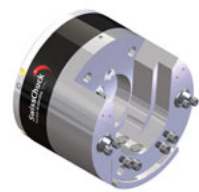
OVEK  
Precision power chuck



OVEKA  
Compensating chuck



OVEKAV  
Moving compensating chuck



FLD/AFLD  
Twist finger-type console chuck



SPECIAL PRODUCTIONS  
According to the customers



PZLHM  
Pneumatic force clamping cylinder

SwissChuck AG  
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CH-8307 Effretikon  
P +41 52 355 31 31  
F +41 52 343 52 40  
SwissChuck.com



Service@SwissChuck.com



Sales@SwissChuck.com

