

# SOMMAIRE

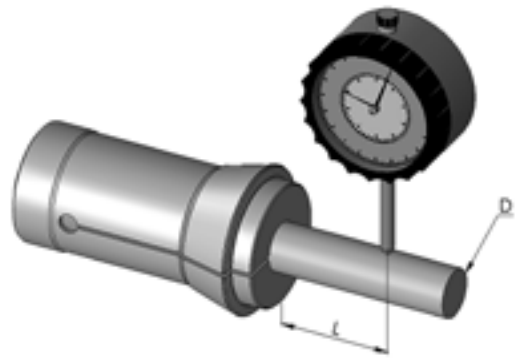
|   |                        |     |                                              |
|---|------------------------|-----|----------------------------------------------|
| 1 | LEXIQUE TECHNIQUE      | 4   | NOTES TECHNIQUES                             |
|   |                        | 6   | TOURS POUPÉE MOBILE                          |
|   |                        | 16  | TOURS MULTI-BROCHES                          |
| 2 | PINCES TYPE F          | 20  | TYPES F STANDARD                             |
|   |                        | 21  | TYPES F NEZ LONG                             |
|   |                        | 22  | TYPES F STANDARD DÉPANNAGE                   |
|   |                        | 22  | TYPES F NEZ LONG DÉPANNAGE                   |
|   |                        | 23  | TYPES F A TÊTE INTERCHANGEABLE               |
|   |                        | 24  | TASSEaux EXPANSIBLES F48                     |
|   |                        | 25  | LONGSTAR                                     |
|   |                        | 26  | BUTÉES AJUSTABLES                            |
|   |                        | 27  | TYPES F SPÉCIAL - SCHÉMAS 1 à 9              |
| 3 | TÊTES DE SERRAGE       | 38  | PINCES                                       |
|   |                        | 39  | ACCESSOIRES                                  |
| 4 | CANONS DE GUIDAGE      | 42  | CANONS TIRÉS                                 |
|   |                        | 43  | CANONS MAGIC                                 |
|   |                        | 44  | CANONS MASTERPRO                             |
|   |                        | 46  | CANONS RAPTOR                                |
| 5 | RAVITAILLEURS          | 48  | PINCES RAVITAILLEURS                         |
|   |                        | 55  | EMBOUTS TOURNANTS                            |
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|   |                        | 80  | ÉCROUS 1 à 8                                 |
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| 7 | CHIENS DE SERRAGE      | 94  | CHIENS DE SERRAGE                            |
| 8 | MULTI-BROCHES          | 108 | PINCES MULTI-BROCHES                         |
|   |                        | 118 | AVANSTAR                                     |
|   |                        | 123 | PINCES D'AVANCE RÉGLABLE                     |
|   |                        | 129 | TÊTES DE SERRAGE                             |
| 9 | PINCES TIRÉES          | 134 | PINCES TYPE B - L - P                        |
|   |                        | 135 | PINCES TYPE W                                |
|   |                        | 136 | PINCES TYPE W NEZ LONG                       |
|   |                        | 136 | PINCES TYPE C                                |
|   |                        | 137 | TASSEaux EXPANSIBLES TYPE W                  |
|   |                        | 138 | TYPES W DÉPANNAGE                            |
|   |                        | 138 | TYPE W ENTONNOIRS FINIES                     |
|   |                        | 139 | PINCES ENTONNOIRS ÉBAUCHÉES                  |
|   |                        | 140 | TYPES W TASSEaux ÉBAUCHÉES                   |
|   |                        | 141 | PIÈCES DÉTACHÉES TASSEaux EXPANSIBLES TYPE W |
|   |                        | 142 | TYPES W PINCES ÉBAUCHÉES                     |
|   |                        | 143 | TYPES W HYDROMAT                             |



## 1 - LEXIQUE TECHNIQUE

NOTES TECHNIQUES

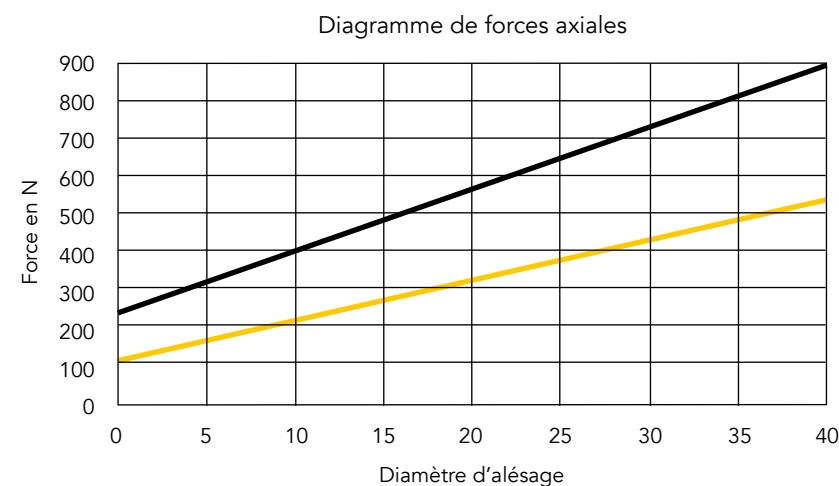
TOLÉRANCES DE BATTEMENT RADIAL DES PINCES DE SERRAGE



| D         | Type d'alésage | L  | Standard | UP    |
|-----------|----------------|----|----------|-------|
| <1        | Rond           | 3  | 0.01     | 0.008 |
| 1 à 2     | Rond           | 6  | 0.01     | 0.008 |
|           | Rond           | 10 | 0.015    | 0.008 |
| 2 à 2.99  | Héxa           | 10 | 0.04     | 0.02  |
|           | Carré          |    |          |       |
| 3 à 5.4   | Rond           | 16 | 0.015    | 0.008 |
|           | Héxa           | 16 | 0.04     | 0.02  |
|           | Carré          |    |          |       |
| 5.41 à 10 | Rond           | 25 | 0.015    | 0.008 |
|           | Héxa           | 25 | 0.04     | 0.02  |
|           | Carré          |    |          |       |
| 10.1 à 18 | Rond           | 40 | 0.02     | 0.01  |
|           | Héxa           | 40 | 0.04     | 0.02  |
|           | Carré          |    |          |       |
| 18.1 à 24 | Rond           | 50 | 0.02     | 0.01  |
|           | Héxa           | 50 | 0.04     | 0.02  |
|           | Carré          |    |          |       |
| 24.1 à 30 | Rond           | 60 | 0.02     | 0.01  |
|           | Héxa           | 60 | 0.04     | 0.02  |
|           | Carré          |    |          |       |
| + 30.1    | Rond           | 60 | 0.03     | 0.015 |
|           | Héxa           | 60 | 0.04     | 0.02  |
|           | Carré          |    |          |       |

Pour les applications qui exigent une concentricité maximale, il est indispensable de prendre en considération la précision de tout l'ensemble du système (broche de la machine outils, logement de la pince, écrou, pince de serrage et outils de coupe).

DIAGRAMME DES FORCES DE SERRAGE POUR PINCES D'AVANCE

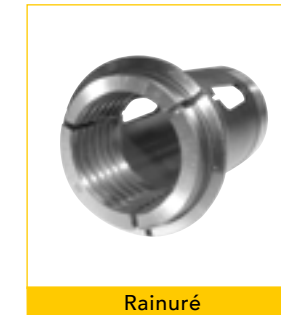


NOTES TECHNIQUES

TYPES D'ALESAGE



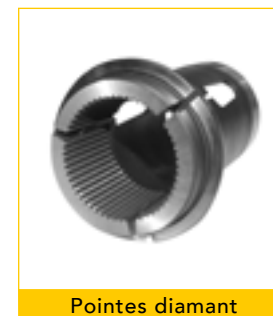
Lisse



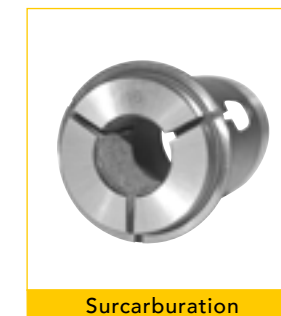
Rainuré



Quadrillé



Pointes diamant



Surcarburation



Métal dur

TYPES DE FENTES



Fentes fines



Fentes standard



Fentes en Z

EXÉCUTION DES FENTES



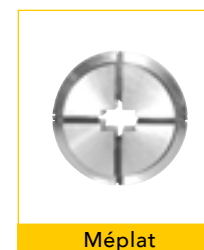
Rond



6 pans



Carré



Méplat



Excentré

## ANDRÉ BECHLER

| Type de machine | Pince broche principale | Canon      |
|-----------------|-------------------------|------------|
| <b>A</b>        |                         |            |
| A-4             | F10 (111E)              | CT2        |
| A-7             | F10 (111E)              | CT3        |
| A- 10 / AR-10   | F14 (117E)              | CT3        |
| <b>BR</b>       |                         |            |
| BR-12/-16/- 20  | F18 / F22 / F26         | CT5 / CT6T |

## PETERMANN

| Type de machine | Pince broche principale | Canon      |
|-----------------|-------------------------|------------|
| <b>P</b>        |                         |            |
| P-3             | F7                      | CT1        |
| P-4             | F8 (101E)               | CT2        |
| P-7             | F10 (109E)              | CT3        |
| P-7R            | F15 / F16 (104E)        | CT3 / CT4  |
| P-16/ P-16R     | F22 (1323E)             | CT5 / CT6T |
| P-20R/ P-25     | F32                     | CT6        |
| 10-HS           | F16(104E) / F20         | CT4        |

## CITIZEN

| Type de machine | Pince broche principale | Canon | Pince contre broche |
|-----------------|-------------------------|-------|---------------------|
| <b>A</b>        |                         |       |                     |
| A-20            | F25 (145E)              | CT6S  | F25 (145E)          |
| <b>B</b>        |                         |       |                     |
| B-12            | F16 (1212E)             | CT4B  | F16 (1212E)         |
| B-20            | F25 (145E)              | CT6S  | F25 (145E)          |
| <b>C</b>        |                         |       |                     |
| C-16            | F20 (138E)              | CT5A  | F20 (138E)          |
| <b>E</b>        |                         |       |                     |
| E-16            | F25 (145E)              | CT5A  | F25 (145E)          |
| E-20            | F25 (145E)              | CT6   | F25 (145E)          |
| E-25            | F30 (157E)              | CT6A  | F30 (157E)          |
| E-32            | F37 (1536E)             | CT7B  | F37 (1536E)         |
| <b>F</b>        |                         |       |                     |
| F-12            | F16 (1212E)             | CT4B  | F16 (1212E)         |
| F-16            | F25 (145E)              | CT5A  | F25 (145E)          |
| F-20            | F25 (145E)              | CT6   | F25 (145E)          |
| F-25            | F30 (157E)              | CT6A  | F30 (157E)          |
| <b>K</b>        |                         |       |                     |
| K-12            | F16 (1212E)             | CT4B  | F16 (1212E)         |
| K-16            | F20 (138E)              | CT5A  | F20 (138E)          |
| <b>L</b>        |                         |       |                     |
| L-10 I          | F15 (120E)              | CT4   | F15 (120E)          |
| L-10 Watch      | F15 (120E)              | 1351  | F15 (120E)          |
| L-12            | F16 (1212E)             | CT4B  | F16 (1212E)         |
| L-16            | F25 (145E)              | CT5A  | F25 (145E)          |
| L-20            | F25 (145E)              | CT6S  | F25 (145E)          |
| L-25            | F30 (157E)              | CT6A  | F30 (157E)          |
| L-32            | F37 (1536E)             | CT7B  | F37 (1536E)         |
| <b>M</b>        |                         |       |                     |
| M12             | F16 (1212E)             | CT4B  | F16 (1212E)         |
| M-16            | F20 (138E)              | CT5A  | F20 (138E)          |
| M-20            | F25 (145E)              | CT6S  | F25 (145E)          |
| M-32            | F37 (1536E)             | CT7B  | F37 (1536E)         |
| <b>MSL</b>      |                         |       |                     |
| MSL-12          | F16 (1212E)             | CT4B  | F16 (1212E)         |
| <b>R</b>        |                         |       |                     |
| R-04            | F8 (101E)               | CT2   | F8 (101E)           |
| R-07            | F15 (120E)              | CT2A  | F15 (120E)          |

## HANWHA

| Type de machine | Pince broche principale   | Canon       | Pince contre broche |
|-----------------|---------------------------|-------------|---------------------|
| <b>SL</b>       |                           |             |                     |
| SL-12 S/H       | F15 (120E) ou F16 (1212E) | CT4B        | F15 (120E)          |
| SL-16 S/H       | F22 (140E)                | CT5C        | F22 (140E)          |
| SL-20 S         | F25 (145E)                | CT6S        | F25 (145E)          |
| SL-26 HP II     | F32 (161E)                | CT6A        | F32 (161E)          |
| SL-26 S/H       | F32 (161E)                | CT6A        | F32 (161E)          |
| SL-32 HP II     | F37 (1536E)               | CT7B        | F37 (1536E)         |
| SL-32 HPD       | F37 (1536E)               | CT7B        | F37 (1536E)         |
| SL-32 S/HE      | F37 (1536E)               | CT7B        | F37 (1536E)         |
| SL-35 HP        | Pince Spéciale            | CT45-82     | Pince Spéciale      |
| <b>STL</b>      |                           |             |                     |
| STL-32 H        | F37 (1536E)               | CT7B        | F37 (1536E)         |
| STL -38         | F48 (173E)                | Spécial JBS | F42 (171E)          |
| <b>XD</b>       |                           |             |                     |
| XD-07           | F10 (109E)                | CT2A        | F10 (109E)          |
| XD-12 H         | F15 (120E)                | CT4B        | F15 (120E)          |
| XD-12 J         | F16 (1212E)               | CT4B        |                     |
| XD-16 H         | F22 (140E)                | CT5C        | F22 (140E)          |
| XD-20 H         | F25 (145E)                | CT6S        | F25 (145E)          |
| XD-20 M         | F25 (145E)                | CT6S        | F25 (145E)          |
| XD-20 N         | F25 (145E)                | Aucun       | F25 (145E)          |
| XD-20 V         | F25 (145E)                | CT6S        | F25 (145E)          |
| XDI-20          | F25 (145E)                | CT6S        | F25 (145E)          |
| XD-26 H         | F32 (161E)                | CT6A        | F32 (161E)          |
| XD-32 H         | F37 (1536E)               | CT7B        | F37 (1536E)         |
| XD-35           | F42 (171E)                | CT45-82     |                     |
| XD-38           | F48 (173E)                | Spécial JBS | F48 (173E)          |
| <b>XP</b>       |                           |             |                     |
| XP-12 S         | F15 (120E)                | CT4B        | F15 (120E)          |
| XP-16 S         | F22 (140E)                | CT5C        | F22 (140E)          |
| XP-20 S         | F25 (145E)                | CT6S        | F25 (145E)          |
| XP-26S          | F32 (161E)                | CT6A        | F32 (161E)          |

## MANURHIN KMX

| Type de machine | Pince broche principale | canon                    |
|-----------------|-------------------------|--------------------------|
| <b>COMPACT</b>  |                         |                          |
| COMPACT         | F20 (136E)              | CT5A                     |
| <b>FIRST</b>    |                         |                          |
| FIRST 226/326C  | F20 (136E)              | CT5 / CT6T / CT6A        |
| <b>KMX</b>      |                         |                          |
| KMX-20/220      | F25 (145E) / F32 (161E) | CT5 / CT6T               |
| KMX-26/226      | F25 (145E) / F32 (161E) | CT5 / CT6T / CT6A        |
| <b>MIRABEL</b>  |                         |                          |
| MIRABEL PM32    | F25 (145E) / F42 (171E) | CT5 / CT6T / CT7B        |
| <b>OM / KL</b>  |                         |                          |
| OM-98 / KL-92   | -                       | CT7B                     |
| <b>SWING</b>    |                         |                          |
| SWING-13        | -                       | CT4B                     |
| SWING-20        | -                       | CT6T                     |
| SWING-26        | F38 (164E)              | CT6A / CT5               |
| SWING-32        | F42 (171E)              | CT5 / CT6T / CT6A / CT7B |
| <b>TRAMINER</b> |                         |                          |
| TRAMINER-13     | F18                     | CT4B                     |
| TRAMINER-16     | F20 (138E)              | CT5                      |
| TRAMINER-20     | F25 (145E)              | CT5 / CT6T               |
| <b>TWIN</b>     |                         |                          |
| TWIN-13         | F20 (136E)              | CT5                      |
| TWIN-20         | F20 (136E)              | CT5 / CT6T               |
| <b>XL</b>       |                         |                          |
| XL-32           | F42 (171E)              | CT7B                     |
| XL-36           | F42 (171E) / F48 (173E) | CT106                    |

## NEXTURN

| Type de machine | Pince broche principale | Canon   | Pince contre broche |
|-----------------|-------------------------|---------|---------------------|
| SA12 A          | F16 (1212E)             | CT4B    | F16 (1212E)         |
| SA18 A          | F25 (145E)              | CT6S    | F25 (145E)          |
| SA20 D / SA20 E | F25 (145E)              | CT6S    | F25 (145E)          |
| SA26 D / SA26 E | F32 (161E)              | CT6A    | F32 (161E)          |
| SA32 D / SA32 E | F37 (1536E)             | CT7B    | F37 (1536E)         |
| SA38            | F44                     | CT46-92 | F44                 |

## STAR

| Type de machine | Pince broche principale | Canon | Pince contre broche |
|-----------------|-------------------------|-------|---------------------|
| <b>B</b>        |                         |       |                     |
| B-20            | F25 (145E)              | CT6S  | F25 (145E)          |
| <b>ECAS</b>     |                         |       |                     |
| ECAS-20         | F25 (145E)              | CT6S  | F25 (145E)          |
| ECAS-32         | F37 (1536E)             | CT7B  | F37 (1536E)         |
| <b>F</b>        |                         |       |                     |
| F-20            | F25 (145E)              | CT6   | F25 (145E)          |
| F-25            | F30 (157E)              | CT6A  | F30 (157E)          |
| <b>JNC</b>      |                         |       |                     |
| JNC-10          | F15 (120E)              | CT4*  | F15 (120E)          |
| JNC-16          | F20 (138E)              | CT5C  | F20 (138E)          |
| JNC-25/32       | F37 (1536E)             | CT7B  | F37 (1536E)         |
| <b>KJR</b>      |                         |       |                     |
| KJR-16          | F20 (138E)              | CT5C  | F20 (138E)          |
| KJR-25          | F30 (157E)              | CT6A  | F30 (157E)          |
| <b>KNC</b>      |                         |       |                     |
| KNC-16/20       | F25 (145E)              | CT6S  | F25 (145E)          |
| KNC-25/32       | F37 (1536E)             | CT7B  | F37 (1536E)         |
| <b>RNC</b>      |                         |       |                     |
| RNC-10          | F15 (120E)              | CT4   | F15 (120E)          |
| RNC-16          | F20 (138E)              | CT5C  | F20 (138E)          |
| <b>SA</b>       |                         |       |                     |
| SA-12/16        | F20 (138E)              | CT5C  | F20 (138E)          |
| <b>SB</b>       |                         |       |                     |
| SB-12           | F16 (1212E)             | CT4B  | F16 (1212E)         |
| SB-16           | F20 (138E)              | CT5C  | F20 (138E)          |
| SB-20           | F25 (145E)              | CT6S  | F25 (145E)          |
| <b>SE</b>       |                         |       |                     |
| SE-12           | F20 (138E)              | CT5B  | F20 (138E)          |
| SE-16           | F20 (138E)              | CT5C  | F20 (138E)          |
| <b>SF</b>       |                         |       |                     |
| SF-25           |                         |       | F30 (1446E)         |
| <b>SH</b>       |                         |       |                     |
| SH-7            | F15 (120E)              | CT4   | F15 (120E)          |
| SH-12           | F20 (138E)              | CT5B  | F20 (138E)          |
| SH-16           | F20 (138E)              | CT5C  | F20 (138E)          |
| <b>SI</b>       |                         |       |                     |
| SI-12 NP        | F20 (138E)              | CT5C  | F20 (138E)          |
| <b>SNC</b>      |                         |       |                     |
| SNC-15          | F20 (138E)              | CT5C  | F20 (138E)          |
| SNC-20          | F34                     | CT6A  | F34                 |

\* Attention ! Canon CT4 utilisé sans semelle (version courte) ou éventuellement CT4L utilisé avec semelle porte-outils (version longue).

## STAR

| Type de machine | Pince broche principale | Canon | Pince contre broche |
|-----------------|-------------------------|-------|---------------------|
| <b>SR</b>       |                         |       |                     |
| SR-10 J         | F15 (120E)              | CT4*  | F15 (120E)          |
| SR-16           | F20 (138E)              | CT5C  | F20 (138E)          |
| SR-20 J         | F25 (145E)              | CT6S  | F25 (145E)          |
| SR-16 R         | F20 (138E)              | CT5C  | F20 (138E)          |
| SR-20 R         | F25 (145E)              | CT6S  | F25 (145E)          |
| SR-32 J         | F37 (1536E)             | CT7B  | F37 (1536E)         |
| <b>SST</b>      |                         |       |                     |
| SST-16          | F20 (138E)              | CT5C  | F20 (138E)          |
| <b>ST</b>       |                         |       |                     |
| ST-38           | F48 (173E)              | CT7S  | F30 (1446E)         |
| <b>SV</b>       |                         |       |                     |
| SV-12           | F20 (138E)              | CT5C  | F20 (138E)          |
| SV-20           | F25 (145E)              | CT6S  | F25 (145E)          |
| SV-32           | F37 (1536E)             | CT7B  | F37 (1536E)         |
| SV-38 R         | F48 (173E)              | CT7S  | F30 (1446E)         |
| <b>SW</b>       |                         |       |                     |
| SW-7            | F15 (120E)              | CT2A  | F15 (120E)          |
| SW-7 R          | F15 (120E)              | CT4*  | F15 (120E)          |
| SW-20           | F25 (145E)              | CT6S  | F25 (145E)          |
| <b>VNC</b>      |                         |       |                     |
| VNC-12          | F20 (138E)              | CT5B  | F20 (138E)          |
| VNC-20          | F25 (145E)              | CT6S  | F25 (145E)          |
| VNC-32          | F37 (1536E)             | CT7B  | F37 (1536E)         |

\* Attention ! Canon CT4 utilisé sans semelle (version courte) ou éventuellement CT4L utilisé avec semelle porte-outils (version longue).



## TORNOS

| Type de machine        | Pince broche principale    | Canon                | Pince contre broche        |
|------------------------|----------------------------|----------------------|----------------------------|
| <b>Machine à Cames</b> |                            |                      |                            |
| M-4 / T-4              | F8 (101E)                  | CT2 (Magic CTCMR10)  | TRANS-T                    |
| M-7                    | F10 (109E)                 | CT2A (Magic CTCMR13) | TRANS-T                    |
| MS-7                   | F13 (116E)                 | CT2A (Magic CTCMR13) | TRANS-T                    |
| MR-28/32               | F34 / [F37 (1536E)]        | CT44-87              |                            |
| NAT-125                | F16 (1212E)                | CT4L                 |                            |
| R-10                   | F15 (120E) / [F16 (1212E)] | CT4L (Magic CTCMR18) | TRANS-T                    |
| R-16                   | F20 (138E)                 | CT5                  |                            |
| RR-20                  | F25 (145E)                 | CT5 (Magic RK10439B) |                            |
| <b>CT</b>              |                            |                      |                            |
| CT-20                  | F25 (145E)                 | CT6S                 | F25 (145E)                 |
| <b>DECO</b>            |                            |                      |                            |
| DECO-7                 | F10 (109E)                 | CT2A                 | F10 (109E)                 |
| DECO-8 SP              | W15 (3213E)                | Aucun                | W15 (3213E)                |
| DECO-10                | F13 (116E)                 | CT4L                 | F13 (116E)                 |
| DECO-13                | F20 (136E)                 | CT5A                 | F20 (136E)                 |
| DECO-20                | F25 (145E)                 | CT6T                 | F25 (145E)                 |
| DECO-26 (32)           | F25 (145E) / [F30 (1446E)] | CT6A (CT7B)          | F25 (145E) / [F30 (1446E)] |
| <b>DELTA</b>           |                            |                      |                            |
| DELTA-12               | F20 (136E) / (F13 ou F10)  | CT5A                 | F20 (136E) / (F13 ou F10)  |
| DELTA-12 version III   | F20 (136E) / (F13 ou F10)  | CT6D (CT5A)          | F20 (136E) / (F13 ou F10)  |
| DELTA-20               | F25 (145E) / [F13 (116E)]  | CT6T (CT6D)          | F25 (145E) / [F13 (116E)]  |
| DELTA-20 version III   | F25 (145E) / [F13 (116E)]  | TCT6D (CT6T)         | F25 (145E) / [F13 (116E)]  |
| DELTA-38               | F43 Spécial TSUGAMI        | CT7T                 | F48 Spécial TSUGAMI        |
| <b>ENC</b>             |                            |                      |                            |
| ENC-74/75              | F13 (116E)                 | CT4L                 |                            |
| ENC-163/164/167        | F20 (136E)                 | CT5A (CT6A)          | F20 (136E)                 |
| ENC262/264             | F30 (1446E)                | CTT2                 |                            |
| <b>EVODECO</b>         |                            |                      |                            |
| EVODECO-10             | F13 (116E)                 | CT4L                 | F13 (116E)                 |
| EVODECO-16             | F20 (136E)                 | CT5A                 | F20 (136E)                 |
| <b>GAMA</b>            |                            |                      |                            |
| GAMA-20/6              | F25 (145E)                 | CT6D                 | F25 (145E)                 |
| <b>GT -</b>            |                            |                      |                            |
| GT-13                  | F16 (1212E)                | CT4B                 | F16 (1212E)                |
| GT-26                  | F30 (1446E)                | CT6A                 | F30 (1446E)                |
| <b>MICRO</b>           |                            |                      |                            |
| MICRO - 7              | F13 (116E) / [F10 (109E)]  | CT2A                 | F13 (116E) / [F10 (109E)]  |
| MICRO - 8              | W15 (3213E)                | Aucun                | F13 (116E) / [F10 ou F8]   |
| <b>SIGMA</b>           |                            |                      |                            |
| SIGMA-8                | W15 (3213E)                | Aucun                | F13 (116E)                 |
| SIGMA-20               | F30 (1446E) / (F20 ou F25) | CT6A (CT6T)          | F30 (1446E) / (F20 ou F25) |
| SIGMA-32               | F37 (1536E) / (F25 ou F30) | CT7B (CT6A)          | F37 (1536E) / (F25 ou F30) |

## TORNOS

| Type de machine   | Pince broche principale | Canon | Pince contre broche       |
|-------------------|-------------------------|-------|---------------------------|
| <b>ST</b>         |                         |       |                           |
| ST-26             | F30 (1446E)             | CT6A  | F30 (1446E)               |
| <b>SWISS NANO</b> |                         |       |                           |
| SWISS NANO        | F13 (116E)              | CT2A  | F13 (116E) / [F10 (109E)] |
| <b>TOP</b>        |                         |       |                           |
| TOP-100           | F15 (120E)              | CTT1  | F15 (120E)                |
| TOP-200           | F30 (1446E)             | CTT2  | F30 (1446E)               |

## TSUGAMI

| Type de machine | Pince broche principale | Canon       | Pince contre broche |
|-----------------|-------------------------|-------------|---------------------|
| <b>B</b>        |                         |             |                     |
| B32             | F37 (1536E)             | CT7C        |                     |
| B007E           | F10 (109E)              | CT2A        | F10 (109E)          |
| B074E           | F10 (109E)              | CT2A        | F10 (109E)          |
| B012AE/CE       | F22 (140E)              | CT5A        | F22 (140E)          |
| B018AE/CE       | F22 (140E)              | CT5A        | F22 (140E)          |
| B020AE/CE       | F25 (145E)              | CT6T        | F25 (145E)          |
| B0123E/4E/5E    | F22 (140E)              | CT5A        | F22 (140E)          |
| B0203E/4E/5E    | F25 (145E)              | CT6T        | F25 (145E)          |
| B0385E BARØ32   | F37 (1536E)             | CT7B        | F37 (1536E)         |
| B0385E BARØ38   |                         | CT7T        | F48 (173E)          |
| <b>BH</b>       |                         |             |                     |
| BH20E/ZE        | F25 (145E)              | CT6T        | F25 (145E)          |
| BH38E BARØ32    | F37 (1536E)             | CT7B        | F37 (1536E)         |
| BH38E BARØ38    | F43                     | CT7T        | F48 (173E)          |
| <b>BN</b>       |                         |             |                     |
| BN12E           | F22 (140E)              | CT5A        | F22 (140E)          |
| BN20E           | F25 (145E)              | CT6T        | F25 (145E)          |
| <b>BO</b>       |                         |             |                     |
| BO126           | F22 (140E)              | CT6D        | F22 (140E)          |
| BO206           | F25 (145E)              | CT6D / CT6T | F25 (145E)          |
| <b>BS</b>       |                         |             |                     |
| BS007           | F10 (109E)              | CT2A        | F10 (109E)          |
| BS12AE/BE/CE    | F22 (140E)              | CT5A        | F22 (140E)          |
| BS125HE/6HE     | F22 (140E)              | CT5A        | F22 (140E)          |
| BS18AE/BE/CE    | F22 (140E)              | CT5A        | F22 (140E)          |
| BS20AE/BE/CE    | F25 (145E)              | CT6T        | F25 (145E)          |
| BS32CE          | F37 (1536E)             | CT7C        | F37 (1536E)         |
| BS205HE/6HE     | F25 (145E)              | CT6T        | F25 (145E)          |
| BS26AE/BE/CE    | F32 (161E)              | CT6A        | F32 (161E)          |

## TSUGAMI

| Type de machine | Pince broche principale | Canon      | Pince contre broche |
|-----------------|-------------------------|------------|---------------------|
| <b>BU</b>       |                         |            |                     |
| BU20E           | F25 (145E)              | CT6T       | F25 (145E)          |
| BU26E           | F32 (161E)              | CT6A       | F32 (161E)          |
| BU/MU 26        | F32 (161E)              | CT6A       | F32 (161E)          |
| BU/MU 38        | F37 (1536E)             | CT7T       | F37 (1536E)         |
| <b>BW</b>       |                         |            |                     |
| BW07E           | F10 (109E)              | CT2A       |                     |
| BW12E           | F22 (140E)              | CT5A       | F22 (140E)          |
| BW20E           | F25 (145E)              | CT6T       | F25 (145E)          |
| <b>HS</b>       |                         |            |                     |
| HS20            | F25 (145E)              | CT6T       | F25 (145E)          |
| HS26            | F30 (1446E)             | CT6A       | F30 (1446E)         |
| HS32            | F37 (1536E)             | CT7B       | F37 (1536E)         |
| HS207           | F25 (145E)              | CT6T       | F25 (145E)          |
| <b>NB / NP</b>  |                         |            |                     |
| NB-12           | F22 (140E)              | CT5A       | F22 (140E)          |
| NP-4W           | F10 (109E)              | CT2A       | -                   |
| NT-NP 11        | F15 (120E)              | CT4B       | -                   |
| NT-NP 16        | F22 (140E)              | CT5        | -                   |
| NT-NP 16 II     | F22 (140E)              | CT5A / CT5 | -                   |
| NT-NP 17        | F22 (140E)              | CT5A / CT5 | -                   |
| NT-NP 20        | F25 (145E)              | CT6        | -                   |
| NT-NP 20 II     | F25 (145E)              | CT6T       | -                   |
| NT-NP 32        | F37 (1536E)             | CT7B       | -                   |
| <b>P0</b>       |                         |            |                     |
| P01E            | F10 (109E)              | CT2A       | F10 (109E)          |
| P03E            | F10 (109E)              | CT2A       | F10 (109E)          |
| P014HE          | F10 (109E)              | CT2A       | F10 (109E)          |
| P034HE          | F10 (109E)              | CT2A       | F10 (109E)          |
| <b>TMU1E</b>    |                         |            |                     |
| TMU1E BAR Ø32   | F37 (1536E)             | CT7B       | F37 (1536E)         |
| TMU1E BAR Ø38   | F43                     | CT7T       | F48 (173E)          |
| <b>S20</b>      |                         |            |                     |
| S20             | F25 (145E)              | CT6T       | -                   |

## TRAUB

| Type de machine        | Pince broche principale | Canon          |
|------------------------|-------------------------|----------------|
| <b>A</b>               |                         |                |
| A -205/255/15/25/30/42 | F25 (145E)              | CT5            |
| <b>M</b>               |                         |                |
| M-45                   | F8 (101E)               | CT2            |
| M-75 / M-105           | F10 (109E)              | CT2A           |
| M-105 / M-125          | F15(120E)               | CT4L           |
| <b>TNL</b>             |                         |                |
| TNL-12 (950120)        | F16 (1212E)             | CT4B           |
| TNL-12 (950121)        | F16 (1212E)             | CT5B           |
| TNL-12 (989468)        | F16 (1212E)             | CT5B Long      |
| TNL-16 (989387)        | F16 (1212E)             | CT27-57.5      |
| TNL-16 (989517)        | F16 (1212E)             | CT27-57.5 Long |
| TNL-18                 | F25 (145E)              | CT3R TR        |
| TNL-20                 | F25 (145E)              | CT6S           |
| TNL-26 (671733)        | F30 (157E)              | CT7A normal    |
| TNL-26 (984921)        | F30 (157E)              | CT7A normal    |
| TNL-26 (985382)        | F30 (157E)              | CT7A 3trous    |
| TNL-26 (986761)        | F30 (157E)              | CT6A           |
| TNL-26 (989382)        | F30 (157E)              | CT7A 3trous    |
| TNL-32                 | F37 (1536E)             | CT42 TRAUB     |



## GILDEMEISTER

| Pince de serrage | Pince broche principale | Avance | Pick UP |
|------------------|-------------------------|--------|---------|
| AS16/20<br>GM20  | 9012E                   | 9258E  | 9012PU  |
| AS25             | 9045E                   | 9287E  | 9045PU  |
| AS32             | 9069E                   | 9316E  | 9069PUV |
| GM16             | GM16S                   | GM16A  | GM16PU  |
| GM35             | 9069E                   | 9333E  | 9069PU  |
| GM42             | 9100E                   | 9374E  | 9100PU  |
| GS20             | 9017E                   | 9263E  | 9017PU  |
| GS25             | 9046E                   | 9289E  | 9046PU  |

## INDEX

| Pince de serrage | Pince broche principale | Avance | Pick UP      |
|------------------|-------------------------|--------|--------------|
| <b>KS</b>        |                         |        |              |
| KS20 - KS22      | 9033E                   | 9273E  |              |
| KS25             | 9039E                   | 9282E  |              |
| KS32             | 9070E                   | 9319E  |              |
| KS42             | 9108E                   | 9364E  |              |
| KS50             | 9133E                   | 9402E  |              |
| <b>MS</b>        |                         |        |              |
| MS16             | 9007E                   | 9255E  |              |
| MS25             | 9039E                   | 9282E  | 9039PU PM/GM |

## SCHÜTTE

| Pince de serrage | Pince broche principale | Avance | Pick UP  |
|------------------|-------------------------|--------|----------|
| SF12 - SF13      | 9015E                   | 9271E  | 3380E    |
| SE16 - SE18      | 9007E                   | 9255E  | 3540E    |
| SG18 - AG20      | 9007E2                  | 9255E  | 9007E2PU |
| VD20 - SF20      | 9016E                   | 9262E  | 3607E    |
| SE25 - SF26      | 9039E                   | 9282E  | 1495E    |
| AF32 - SF32      | 9070E                   | 9319E  | 1700E    |
| AF42/SF42        | 9112E                   | 9372E  | 1700E    |
| SD50 - SF51      | 9046E                   | 9289E  | 9046PU   |
| AF51             | 9139E                   | 9406E  | 1777E    |

## TORNOS

| Pince de serrage | Pince broche principale | Avance         | Pick UP |
|------------------|-------------------------|----------------|---------|
| AS14 - BS14      | 9001E                   | 9251E / 9251ER | 9001PU  |
| MULTISWISS       | MS6/14                  | MS6/14TB       | 136E    |
| SAS16            | 9021E                   | 9265E          | 9001PU  |
| BS20/22          | 9018E                   | 9266E / 9266ER | 9019 PU |
| BS22             | 9019E                   | 9264E          | 9020 PU |
| MULTIDECO20/6    | 9012ET                  | 9258E          | 9012TPU |
| MULTIDECO20/8    | 9012ET                  | 9258E          | 9012TPU |
| MULTIDECO26/6    | 9039ET                  | 9282E          | 9039TPU |
| MULTIDECO26/8    | 9039ET                  | 9282E          | 9039TPU |
| MULTIDECO32/6    | 9039ET                  | 9282E          | 9039TPU |
| SAS36            | 9081ET                  | 9333ET         | 171E    |

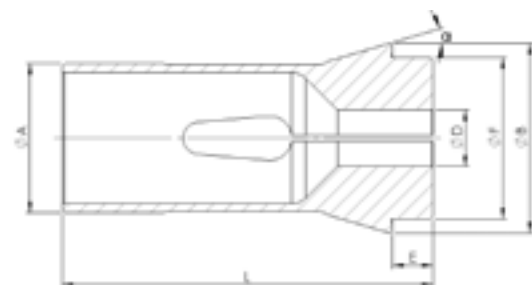
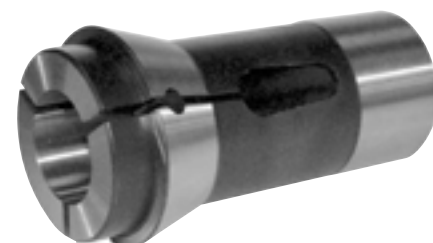
## WICKMAN

| Pince de serrage | Pince broche principale | Avance    | Pick UP |
|------------------|-------------------------|-----------|---------|
| 5/8"             | 9014E                   | 9260E     | 9014PU  |
| 1"               | 9034E                   | 9276E     | 9037PU  |
| 32/8             | WICK32/8S               | WICK32/8A | W328PU  |
| 1"3/8            | 9072E                   | 9318E     | 9072PU  |
| 1"3/4            | 9111E                   | 9362E     | 9072PU  |
| 50/8             | W508S                   | W508A     |         |
| 2"1/4-6          | 9145E                   | 9409E     | 9145PU  |
| 2"1/4-5          | 9151E                   | 9415E     | 9145PU  |
| 2"5/8            | 9181E                   | 9445E     |         |



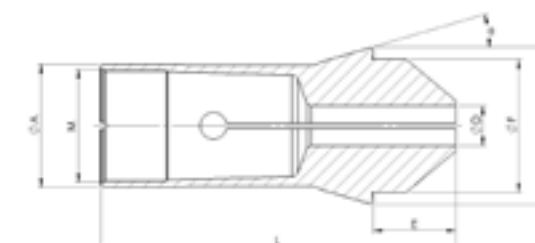
2 - PINCES TYPE F

## TYPES F STANDARD



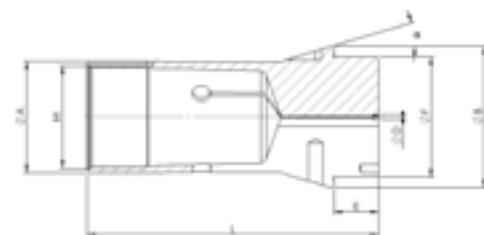
| Type   | Référence | A     | B    | L     | E   | F    | $\alpha$ | D-Maxi |     |     |
|--------|-----------|-------|------|-------|-----|------|----------|--------|-----|-----|
| F4.5   | 1008E     | 4.5   | 6.75 | 17.25 | 1.8 | 4.5  | 15°      | 3.5    | 3   | 2   |
| F6     | 100E      | 6     | 10   | 30    | 3   | 6    | 15°      | 4.5    | 3   | 3   |
| F7     | 1020E     | 7     | 10.7 | 26    | 2.9 | 7    | 15°      | 5      | 4   | 3   |
| F8     | 101E      | 8     | 12   | 42    | 4.5 | 8    | 16°      | 6.5    | 5   | 4   |
| F10    | 109E      | 10    | 15.5 | 47.5  | 5.5 | 10   | 20°      | 8      | 7   | 5   |
| F12    | 1155E     | 12    | 18.1 | 44.5  | 4.3 | 12   | 15°      | 10     | 8.5 | 7   |
|        | 1158E     | 12    | 18   | 64    | 6   | 12   | 16°      | 10     | 8.5 | 7   |
| F13    | 116E      | 13    | 19   | 64    | 6   | 13   | 16°      | 10     | 9   | 7   |
| F14    | 117E      | 14    | 18   | 46    | 4   | 14   | 13°      | 11     | 9   | 7   |
| F15    | 120E      | 15    | 21   | 64    | 6   | 15   | 16°      | 12.5   | 11  | 9   |
|        | 121E      | 15    | 22   | 47    | 5   | 15   | 20°      | 11     | 9.5 | 7.5 |
| F16    | 123E      | 16    | 22   | 55    | 5   | 16   | 15°      | 13     | 11  | 9   |
|        | 1212E     | 16    | 21   | 64    | 6   | 16   | 16°      | 13     | 11  | 9   |
| F17.45 | 125E      | 17.45 | 22   | 51    | 5   | 16   | 15°      | 14     | 12  | 9   |
| F20    | 136E      | 20    | 26   | 54    | 5   | 19   | 15°      | 16     | 14  | 12  |
|        | 138E      | 20    | 28   | 67    | 7   | 21   | 16°      | 16     | 14  | 12  |
| F20    | 1299E     | 20    | 27.5 | 60    | 5   | 20   | 15°      | 15     | 12  | 10  |
| F22    | 140E      | 22    | 30   | 55    | 6   | 21   | 15°      | 18     | 14  | 12  |
| F25    | 145E      | 25    | 35   | 77    | 10  | 27   | 19°      | 22     | 18  | 14  |
| F26    | 146E      | 26    | 32   | 67    | 7   | 27.5 | 16°      | 20     | 18  | 14  |
| F27    | 147E      | 27    | 38   | 73    | 8   | 30   | 15°      | 23     | 20  | 16  |
| F28    | 148E      | 28    | 38   | 70    | 7   | 28   | 15°      | 24     | 20  | 16  |
| F30    | 157E      | 30    | 42   | 80    | 10  | 34   | 16°      | 26     | 22  | 17  |
|        | 1446E     | 30    | 38   | 65    | 6   | 32   | 15°      | 26     | 22  | 17  |
| F32    | 161E      | 32    | 45   | 75    | 8   | 34   | 15°      | 27     | 23  | 19  |
| F35    | 162E      | 35    | 43   | 70    | 7   | 34   | 15°      | 30     | 25  | 21  |
|        | 163E      | 35    | 48   | 80    | 8   | 38   | 15°      | 30     | 26  | 21  |
| F35    | 1625E     | 35    | 40   | 46    | 6   | 32   | 15°      | 32     | -   | -   |
| F37    | 1536E     | 37    | 47   | 92    | 10  | 40   | 16°      | 33     | 27  | 22  |
| F38    | 164E      | 38    | 49   | 107.5 | 9   | 38   | 15°      | 33     | 27  | 22  |
| F42    | 171E      | 42    | 55   | 94    | 9   | 42   | 15°      | 37     | 32  | 25  |
| F48    | 173E      | 48    | 60   | 94    | 9   | 50   | 15°      | 42     | 36  | 30  |
| F58    | 177E      | 58    | 70   | 94    | 9   | 60   | 15°      | 52     | 45  | 31  |
| F66    | 185E      | 66    | 84   | 110   | 9   | 73   | 15°      | 62     | 52  | 42  |
| F68    | 1791E     | 68    | 84   | 110   | 9   | 73   | 15°      | 62     | 53  | 43  |
| F88    | 190E      | 88    | 106  | 115   | 9   | 94   | 15°      | 80     | 69  | 56  |
| F90    | 193E      | 90    | 107  | 130   | 9   | 92   | 15°      | 82     | 70  | 57  |

## TYPES F NEZ LONG



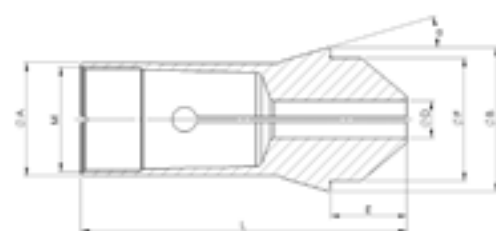
| Type | Référence | A  | B    | L   | E  | F  | M        | $\alpha$ | D-Maxi |      |      |
|------|-----------|----|------|-----|----|----|----------|----------|--------|------|------|
| F10  | 109EL     | 10 | 15.5 | 52  | 10 | 10 | M8x0.5   | 20°      | 7      | 6    | 5    |
| F13  | 116EL     | 13 | 19   | 70  | 12 | 13 | M11x0.75 | 16°      | 10     | 7    | 6    |
| F15  | 120EL     | 15 | 21   | 71  | 13 | 15 | M12x0.75 | 16°      | 11     | 9.5  | 7.5  |
| F16  | 1212EL    | 16 | 21   | 71  | 13 | 16 | M14x0.75 | 16°      | 12     | 10.5 | 8.5  |
| F20  | 136EL     | 20 | 26   | 62  | 13 | 19 | M18x1.00 | 15°      | 15     | 13   | 10.5 |
|      | 138EL     | 20 | 28   | 75  | 15 | 21 | M18x1.00 | 16°      | 16     | 13.5 | 10   |
| F25  | 145EL     | 25 | 35   | 85  | 18 | 27 | M22x1.00 | 16°      | 20     | 17   | 14   |
| F30  | 157EL     | 30 | 42   | 90  | 20 | 34 | M27x1.00 | 16°      | 25     |      |      |
|      | 1446EL    | 30 | 38   | 79  | 20 | 32 | M27x1.00 | 15°      | 25     | 22   | 17   |
| F32  | 161EL     | 32 | 45   | 93  | 25 | 34 | M28x1.00 | 15°      | 26     | 22   | 18   |
| F35  | 162EL     | 35 | 43   | 90  | 27 | 34 | M32x1.00 | 15°      | 27.5   |      |      |
| F37  | 1536EL    | 37 | 47   | 107 | 25 | 40 | M34x1.00 | 16°      | 32     | 27   | 22   |
| F38  | 164EL     | 38 | 49   | 123 | 25 | 38 | M34x1.00 | 15°      | 32     | 27   | 22   |
| F48  | 173EL     | 48 | 60   | 113 | 28 | 20 | M44x1.00 | 15°      | 42     | 36   | 30   |
| F66  | 185EL     | 66 | 84   | 121 | 25 | 73 | -        | 15°      | 62     | 52   | 42   |

## TYPES F STANDARD DÉPANNAGE



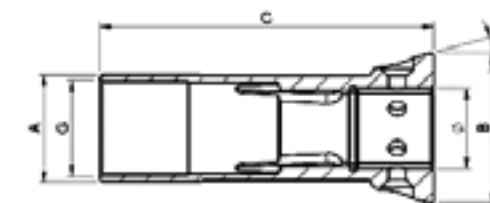
| Type | Référence  | A     | B  | L     | D   | E  | F  | $\alpha$ |
|------|------------|-------|----|-------|-----|----|----|----------|
| F16  | 1212EDEPAN | 16    | 21 | 64    | 2   | 6  | 16 | 16°      |
| F20  | 136EDEPAN  | 20    | 26 | 54    | 2.5 | 5  | 19 | 15°      |
|      | 138EDEPAN  | 20    | 28 | 67    | 2.5 | 7  | 21 | 16°      |
| F25  | 145EDEPAN  | 25    | 35 | 77    | 3   | 10 | 27 | 16°      |
| F27  | 147EDEPAN  | 27    | 38 | 73    | 3   | 8  | 30 | 15°      |
| F30  | 157EDEPAN  | 30    | 42 | 80    | 3   | 10 | 34 | 16°      |
|      | 1446EDEPAN | 30    | 38 | 65    | 3   | 6  | 32 | 15°      |
| F32  | 161EDEPAN  | 32    | 45 | 75    | 3   | 8  | 34 | 15°      |
| F35  | 162EDEPAN  | 35    | 43 | 70    | 3   | 7  | 34 | 15°      |
|      | 163EDEPAN  | 35    | 48 | 80    | 3   | 8  | 38 | 15°      |
| F37  | 1536EDEPAN | 37    | 47 | 92    | 3   | 10 | 40 | 16°      |
| F38  | 164EDEPAN  | 38.08 | 49 | 107.5 | 3   | 9  | 38 | 15°      |
| F48  | 173EDEPAN  | 48    | 60 | 94    | 3   | 9  | 50 | 15°      |
| F66  | 185EDEPAN  | 66    | 84 | 110   | 5   | 9  | 73 | 15°      |
| F66  | 185E       | 66    | 84 | 121   | 25  | 73 | -  | 15°      |

## TYPES F NEZ LONG DÉPANNAGE

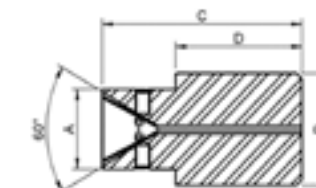


| Type | Référence   | A  | B  | L   | D   | E  | F  | M        | $\alpha$ |
|------|-------------|----|----|-----|-----|----|----|----------|----------|
| F16  | 1212ELDEPAN | 16 | 21 | 71  | 2   | 13 | 16 | M14x0.75 | 16°      |
| F20  | 136ELDEPAN  | 20 | 26 | 62  | 2.5 | 13 | 19 | M18x1.00 | 15°      |
|      | 138ELDEPAN  | 20 | 28 | 75  | 2.5 | 15 | 21 | M18x1.00 | 16°      |
| F25  | 145ELDEPAN  | 25 | 35 | 85  | 3   | 18 | 27 | M22x1.00 | 16°      |
| F30  | 157ELDEPAN  | 30 | 42 | 90  | 3   | 20 | 34 | M27x1.00 | 16°      |
|      | 1446ELDEPAN | 30 | 38 | 79  | 3   | 20 | 32 | M27x1.00 | 15°      |
| F35  | 162ELDEPAN  | 35 | 43 | 83  | 3   | 20 | 34 | M32x1.00 | 15°      |
| F37  | 1536ELDEPAN | 37 | 47 | 102 | 3   | 20 | 40 | M34x1.00 | 16°      |
| F48  | 173ELDEPAN  | 48 | 60 | 110 | 3   | 25 | 50 | M44x1.00 | 15°      |
| F66  | 185ELDEPAN  | 66 | 84 | 126 | 5   | 25 | 73 | -        | 15°      |

## TYPES F A TÊTES INTERCHANGEABLES

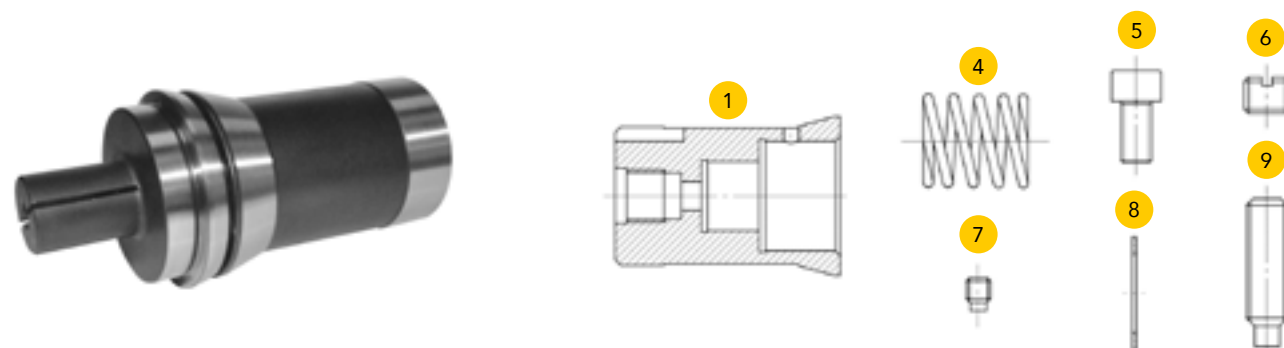


| Type | Référence | A  | B  | C  | G        | $\alpha$ | D   |
|------|-----------|----|----|----|----------|----------|-----|
| F13  |           | 13 | 19 | 58 | M11x0.75 | 16°      | 8.5 |
| F15  |           | 15 | 21 | 58 | M12x0.75 | 16°      | 9.5 |
| F16  |           | 16 | 21 | 58 | M14x0.75 | 16°      | 11  |
| F20  |           | 20 | 26 | 49 | M18x1    | 15°      | 14  |
| F20  |           | 20 | 28 | 60 | M18x1    | 16°      | 15  |
| F22  |           | 22 | 30 | 49 | M20x1    | 15°      | 16  |
| F25  |           | 25 | 35 | 67 | M22x1    | 16°      | 19  |
| F30  |           | 30 | 38 | 59 | M27x1    | 15°      | 24  |
| F30  |           | 30 | 42 | 70 | M27x1    | 16°      | 24  |
| F32  |           | 32 | 45 | 67 | M28x1    | 15°      | 26  |
| F35  |           | 35 | 48 | 72 | M32x1    | 15°      | 28  |
| F37  |           | 37 | 47 | 82 | M34x1    | 16°      | 30  |
| F42  |           | 42 | 55 | 85 | M38x1    | 15°      | 34  |
| F48  |           | 48 | 60 | 85 | M44x1    | 15°      | 40  |

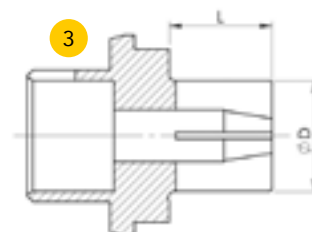
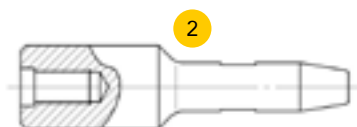


| Type | A   | B  | C    | D  | Référence Aluminium | Référence POM C | Référence Acier | Référence Laiton |
|------|-----|----|------|----|---------------------|-----------------|-----------------|------------------|
| F13  | 8.5 | 13 | 23.5 | 15 |                     |                 |                 |                  |
| F15  | 9.5 | 15 | 31.5 | 20 |                     |                 |                 |                  |
| F16  | 11  | 16 | 31.5 | 20 |                     |                 |                 |                  |
| F20  | 14  | 19 | 32.5 | 20 |                     |                 |                 |                  |
| F20  | 15  | 21 | 34.5 | 20 |                     |                 |                 |                  |
| F22  | 16  | 21 | 39.5 | 25 |                     |                 |                 |                  |
| F25  | 19  | 27 | 43.5 | 25 |                     |                 |                 |                  |
| F30  | 24  | 32 | 46.5 | 30 |                     |                 |                 |                  |
| F30  | 24  | 34 | 52.5 | 30 |                     |                 |                 |                  |
| F32  | 26  | 34 | 53.5 | 30 |                     |                 |                 |                  |
| F35  | 28  | 38 | 53.5 | 35 |                     |                 |                 |                  |
| F37  | 30  | 40 | 54.5 | 35 |                     |                 |                 |                  |
| F42  | 34  | 42 | 59.5 | 35 |                     |                 |                 |                  |
| F48  | 40  | 50 | 64.5 | 40 |                     |                 |                 |                  |

## TASSEaux EXPANSIBLES F48

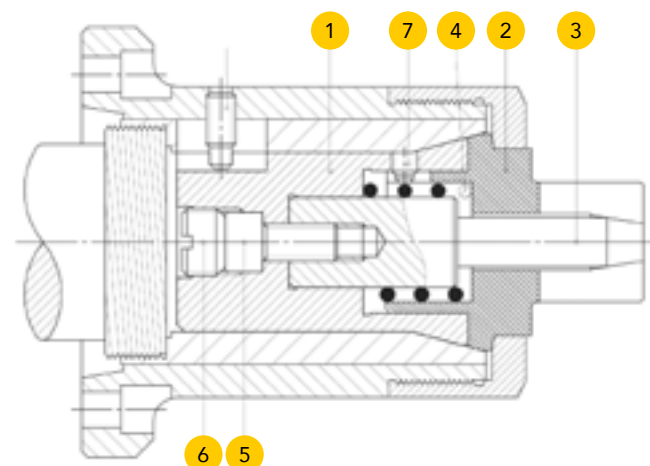


| Type | Référence | Désignation       |
|------|-----------|-------------------|
| 1    | EXP17301  | Corps             |
| 4    | EXP17304  | Ressort           |
| 5    | EXP17305  | Vis de liaison    |
| 6    | EXP17306  | Vis de blocage    |
| 7    | EXP17307  | Vis anti-rotation |
| 8    | EXP17308  | Rondelle          |
| 9    | EXP17309  | Vis de position   |



| Tige poussoir n°2 |          |
|-------------------|----------|
| Référence         | Capacité |
| TP173215          | 15 - 21  |
| TP173315          | 20 - 31  |
| TP173430          | 29 - 42  |
| TP173505          | 35 - 50  |

| Douille expansible n°3 |          |       |    |
|------------------------|----------|-------|----|
| Référence              | Capacité | D     | L  |
| DE173215               | 15 - 21  | 21.5  | 30 |
| DE173315               | 20 - 31  | 31.54 | 30 |
| DE173430               | 29 - 42  | 43    | 30 |
| DE173505               | 35 - 50  | 50.5  | 40 |



Informations :  
Ces douilles sont traitées à 50HRc, mais peuvent être facilement tournées en place. Pour cela, démonter l'ensemble pour insérer la rondelle **N°8** (entre le corps N°1 et la douille N°2) afin de limiter la course de serrage. Après avoir réalisé le tournage voulu au Ø nominal (0/-0.02), redémonter la rondelle N°8, puis remonter l'ensemble.

## LONGSTAR



| LONGSTAR F25 |             |    |    |       |       |
|--------------|-------------|----|----|-------|-------|
| Référence    | Capacité Ød | ØD | L  | Forme | Plage |
| L145N        | 8 - 20.5    | 35 | 30 | ●     | 0.5   |
| L145NV       | 8 - 14      | 35 | 30 | ■     | 0.5   |
| L145NS       | 8 - 18      | 35 | 30 | ◆     | 0.5   |
| L145G        | 8 - 20.5    | 35 | 30 | Lisse | 0.5   |

| LONGSTAR F37 |             |    |    |       |       |
|--------------|-------------|----|----|-------|-------|
| Référence    | Capacité Ød | ØD | L  | Forme | Plage |
| L1536N       | 8 - 32      | 47 | 29 | ●     | 0.5   |
| L1536NV      | 8 - 23      | 47 | 29 | ■     | 0.5   |
| L1536NS      | 8 - 28      | 47 | 29 | ◆     | 0.5   |
| L1536G       | 8 - 32      | 47 | 29 | Lisse | 0.5   |

| LONGSTAR F42 |             |      |    |       |       |
|--------------|-------------|------|----|-------|-------|
| Référence    | Capacité Ød | ØD   | L  | Forme | Plage |
| L171N        | 10 - 37     | 54.6 | 36 | ●     | 0.5   |
| L171NV       | 16 - 25     | 54.6 | 36 | ■     | 0.5   |
| L171NS       | 16-31       | 54.6 | 36 | ◆     | 0.5   |
| L171G        | 10 - 37     | 54.6 | 36 | Lisse | 0.5   |

| LONGSTAR F48 |             |    |    |       |       |
|--------------|-------------|----|----|-------|-------|
| Référence    | Capacité Ød | ØD | L  | Forme | Plage |
| L173N        | 10 - 42     | 60 | 38 | ●     | 0.5   |
| L173NV       | 10 - 30     | 60 | 38 | ■     | 0.5   |
| L173NS       | 10 - 37     | 60 | 38 | ◆     | 0.5   |
| L173G        | 10 - 42     | 60 | 38 | Lisse | 0.5   |

| LONGSTAR F66 |             |    |    |       |       |
|--------------|-------------|----|----|-------|-------|
| Référence    | Capacité Ød | ØD | L  | Forme | Plage |
| L185N        | 10 - 60     | 84 | 42 | ●     | 1.5   |
| L185NV       | 16 - 43     | 84 | 42 | ■     | 1.5   |
| L185NS       | 16 - 53     | 84 | 42 | ◆     | 1.5   |
| L185G        | 10 - 60     | 84 | 42 | Lisse | 1.5   |

## BUTÉES AJUSTABLES

### BUTÉE F48 - F66 - F68



| Pince       | Référence |
|-------------|-----------|
| F48 - 173E  | B173      |
| F66 - 185E  | B185      |
| F68 - 1791E | B1791     |
| BT65        | T65       |

### BUTÉE W20 - W25



| Pince      | Référence |
|------------|-----------|
| W20 - 349E | 349Butée  |
| W25 - 364E | 364Butée  |
| BT52       | T52       |

### BUTÉE W31.75



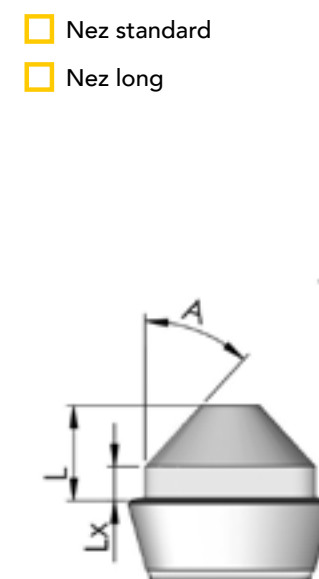
| Pince         | Référence |
|---------------|-----------|
| W31.75 - 385E | 385Butée  |

## TYPES F SPÉCIAL

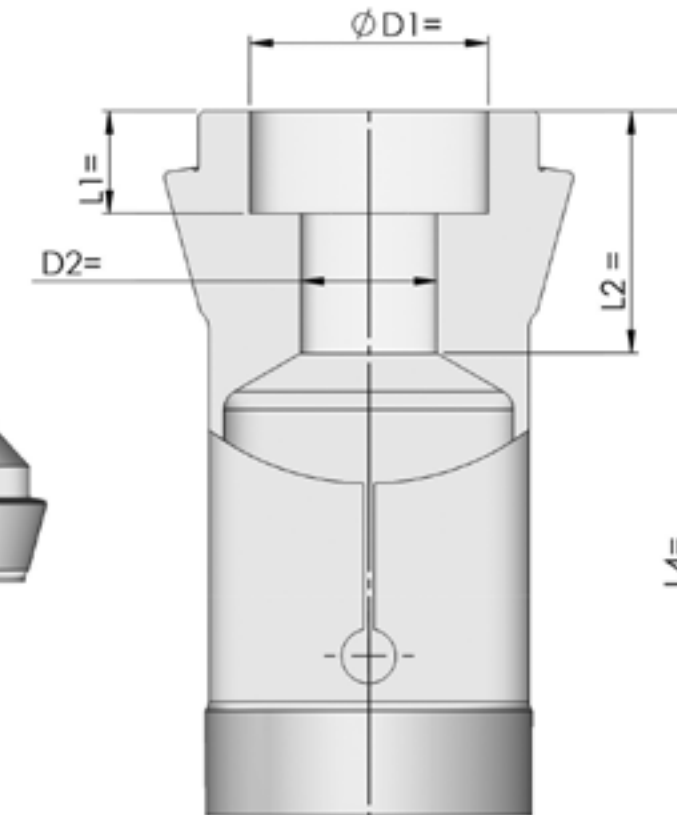
### PLAN PINCE SPÉCIALE SUIVANT SCHÉMA 1

TYPE DE PINCE :

- ☐ Nez standard  
☐ Nez long



L =   
Lx =   
A =

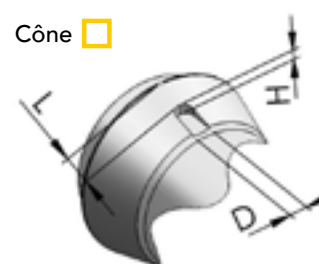


Type d'alésage

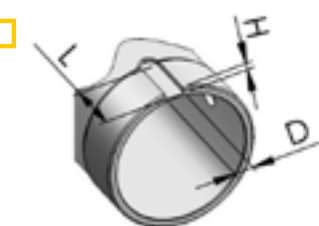
- ☐ Rainuré  
☐ Lisse  
☐ Quadrillé  
☐ Pointes diamant  
☐ Carbure

### Rainure de Clavette

D =  Cône ☐  
H =   
L =



Corps ☐



D =   
H =   
L =

☐ Positionnement du clavetage (plan à fournir par vos soins)

### Options

Type de fentes  
☐ Fine ☐ en Z  
☐ Rayonnage Fente  
Valeur =   
Nombre de fentes  
☐ 2 ☐ 3 ☐ 4

Chanfrein d'entrée  
☐ Standard  
Valeur =   
☐ Sans chanfrein  
☐ Ultra Precis (UP)

☐ Surcarburation  
☐ Vulcanisation à froid  
☐ Huile entière ☐ Soluble  
☐ Ejecteur  
☐ Ouverture supplémentaire  
Valeur =

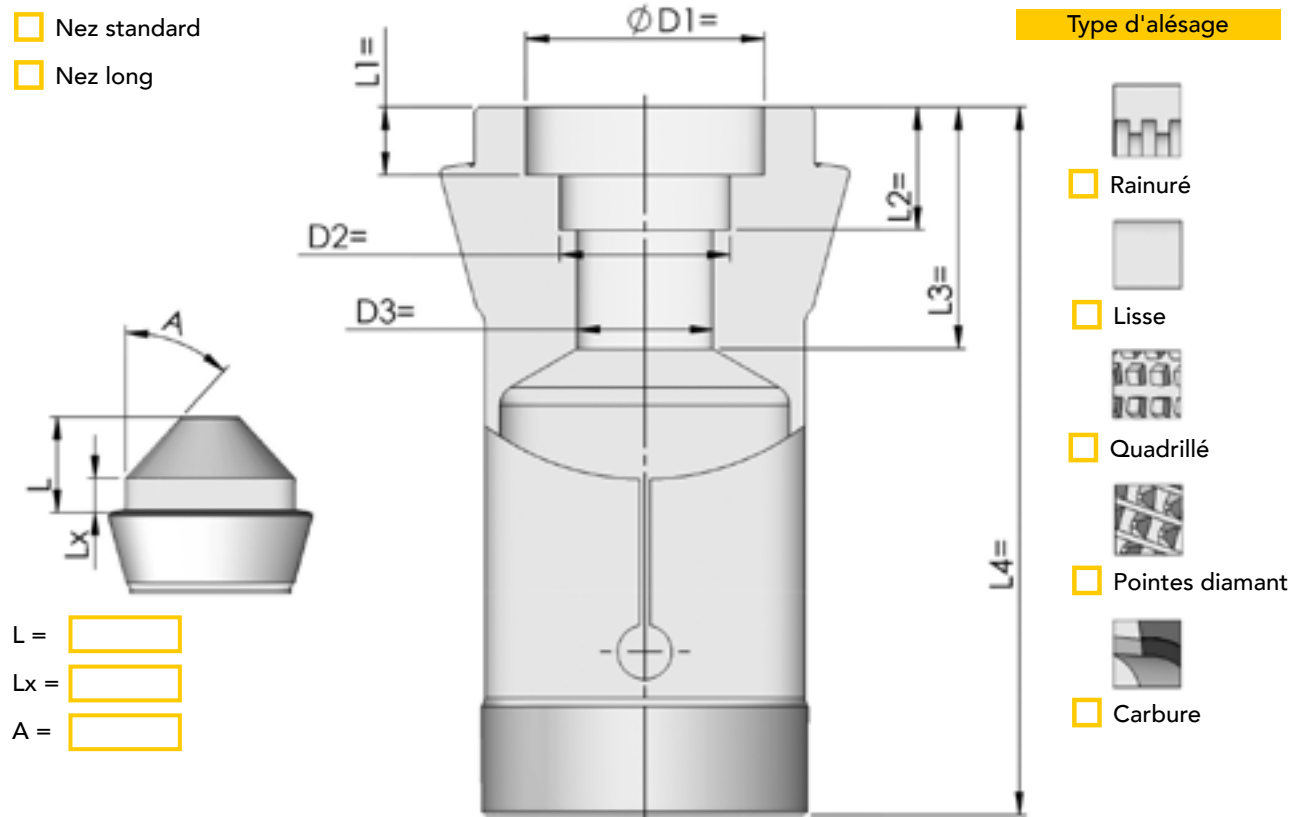


## TYPES F SPÉCIAL

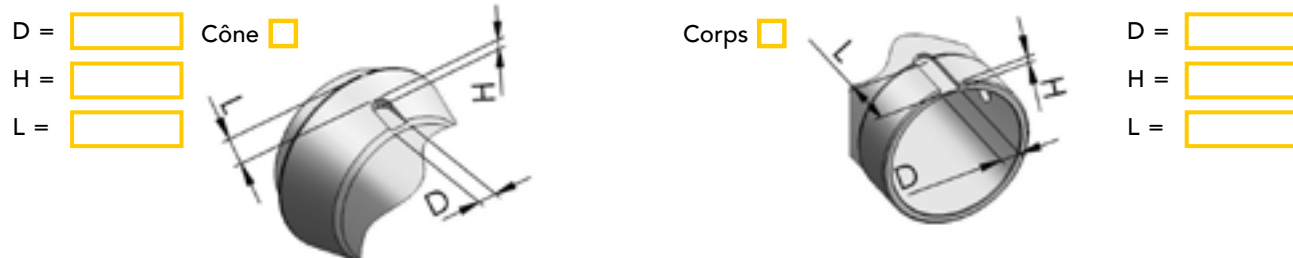
### PLAN PINCE SPÉCIALE SUIVANT SCHÉMA 2

TYPE DE PINCE :

- ☐ Nez standard  
☐ Nez long



### Rainure de Clavette



☐ Positionnement du clavetage (plan à fournir par vos soins)

### Options

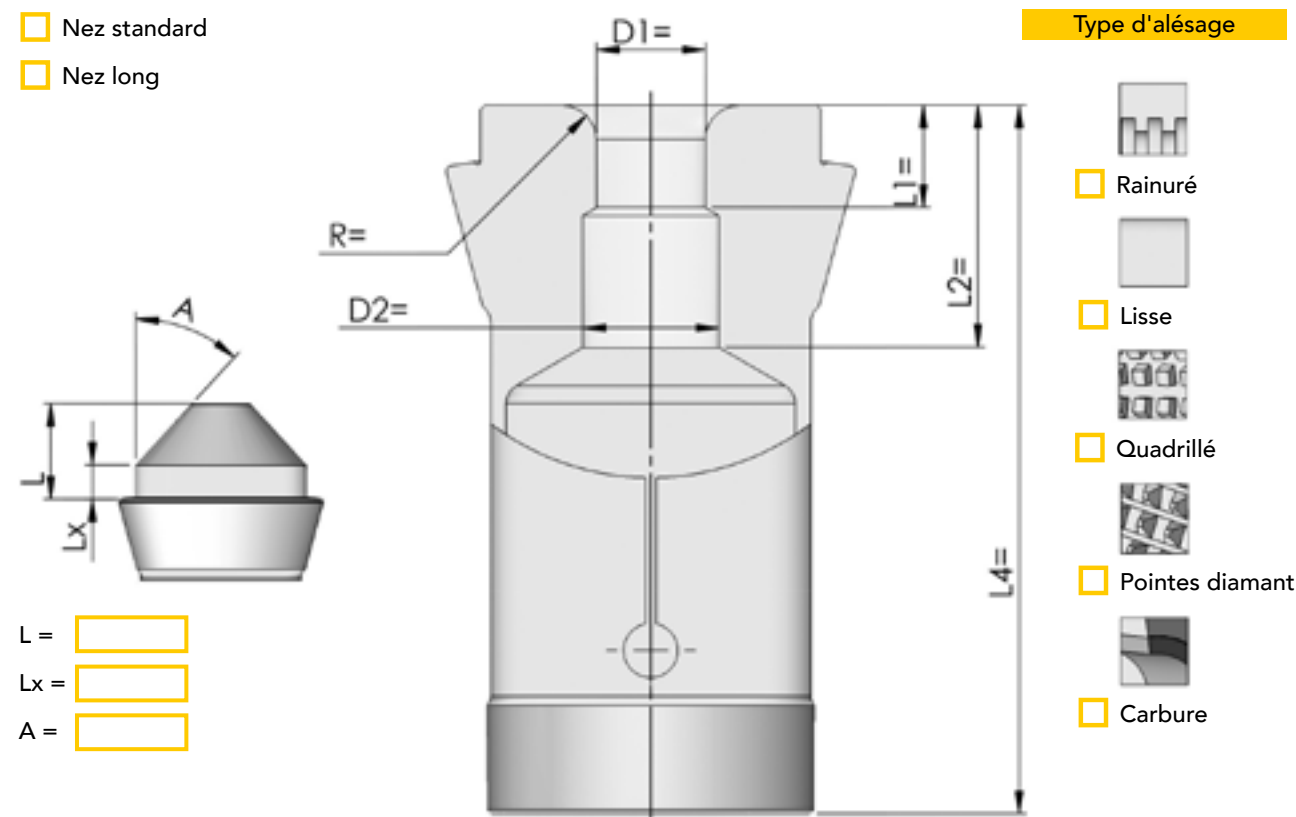
- |                                                                                  |                                            |                                                                         |
|----------------------------------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------------|
| Type de fentes                                                                   | Chanfrein d'entrée                         | <input type="checkbox"/> Surcarburation                                 |
| <input type="checkbox"/> Fine <input type="checkbox"/> en Z                      | <input type="checkbox"/> Standard          | <input type="checkbox"/> Vulcanisation à froid                          |
| <input type="checkbox"/> Rayonnage Fente                                         | Valeur = <input type="text"/>              | <input type="checkbox"/> Huile entière <input type="checkbox"/> Soluble |
| Valeur = <input type="text"/>                                                    | <input type="checkbox"/> Sans chanfrein    | <input type="checkbox"/> Ejecteur                                       |
| Nombre de fentes                                                                 | <input type="checkbox"/> Ultra Precis (UP) | <input type="checkbox"/> Ouverture supplémentaire                       |
| <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 |                                            | Valeur = <input type="text"/>                                           |

## TYPES F SPÉCIAL

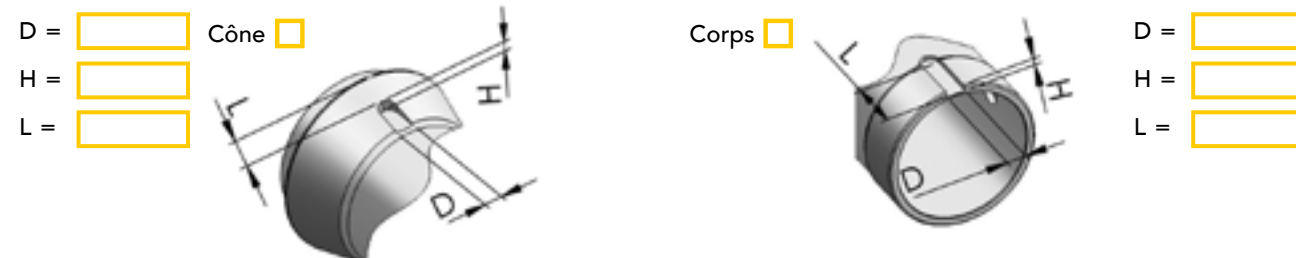
### PLAN PINCE SPÉCIALE SUIVANT SCHÉMA 3

TYPE DE PINCE :

- ☐ Nez standard  
☐ Nez long



### Rainure de Clavette



☐ Positionnement du clavetage (plan à fournir par vos soins)

### Options

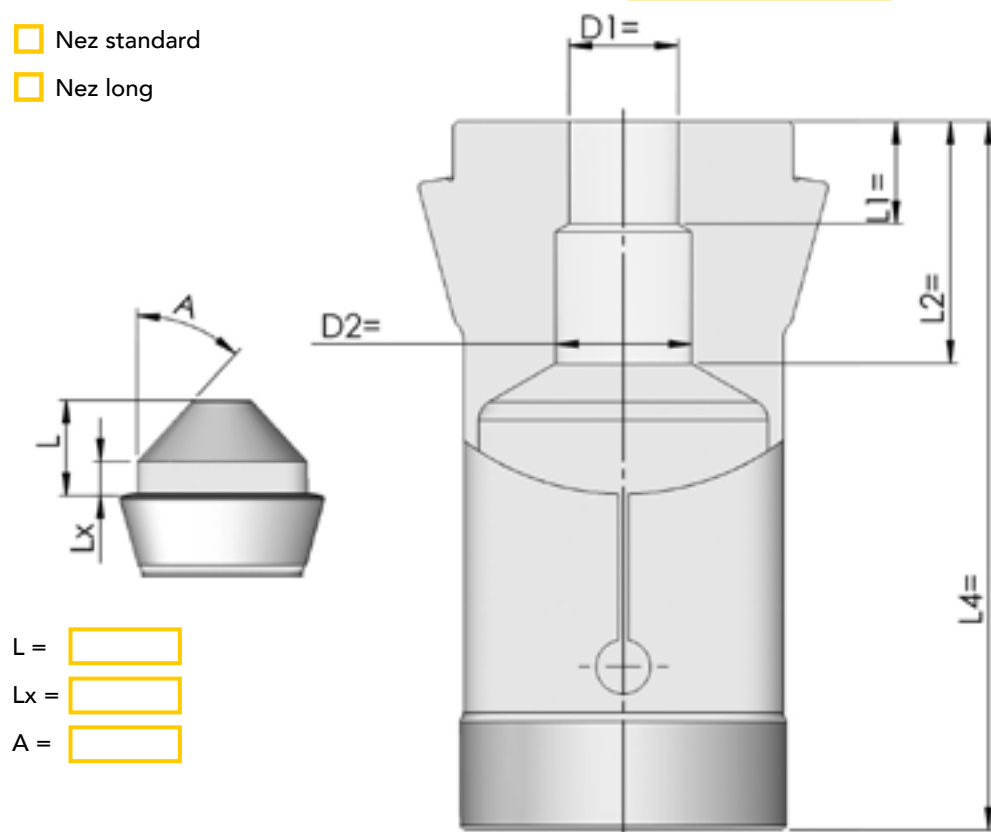
- |                                                                                  |                                            |                                                                         |
|----------------------------------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------------|
| Type de fentes                                                                   | Chanfrein d'entrée                         | <input type="checkbox"/> Surcarburation                                 |
| <input type="checkbox"/> Fine <input type="checkbox"/> en Z                      | <input type="checkbox"/> Standard          | <input type="checkbox"/> Vulcanisation à froid                          |
| <input type="checkbox"/> Rayonnage Fente                                         | Valeur = <input type="text"/>              | <input type="checkbox"/> Huile entière <input type="checkbox"/> Soluble |
| Valeur = <input type="text"/>                                                    | <input type="checkbox"/> Sans chanfrein    | <input type="checkbox"/> Ejecteur                                       |
| Nombre de fentes                                                                 | <input type="checkbox"/> Ultra Precis (UP) | <input type="checkbox"/> Ouverture supplémentaire                       |
| <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 |                                            | Valeur = <input type="text"/>                                           |

## TYPES F SPÉCIAL

### PLAN PINCE SPÉCIALE SUIVANT SCHÉMA 4

TYPE DE PINCE :

- ☐ Nez standard  
☐ Nez long



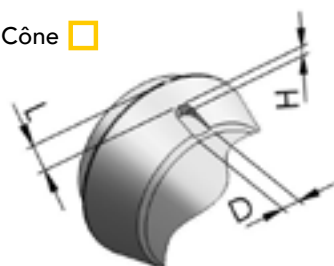
L =   
Lx =   
A =

#### Type d'alésage

- ☐ Rainuré  
☐ Lisse  
☐ Quadrillé  
☐ Pointes diamant  
☐ Carbure

#### Rainure de Clavette

D =  Cône ☐  
H =   
L =



Corps ☐



D =   
H =   
L =

☐ Positionnement du clavetage (plan à fournir par vos soins)

#### Options

##### Type de fentes

- ☐ Fine ☐ en Z  
☐ Rayonnage Fente  
Valeur =   
Nombre de fentes  
☐ 2 ☐ 3 ☐ 4

##### Chanfrein d'entrée

- ☐ Standard  
Valeur =   
☐ Sans chanfrein  
☐ Ultra Precis (UP)

##### Surcarburation

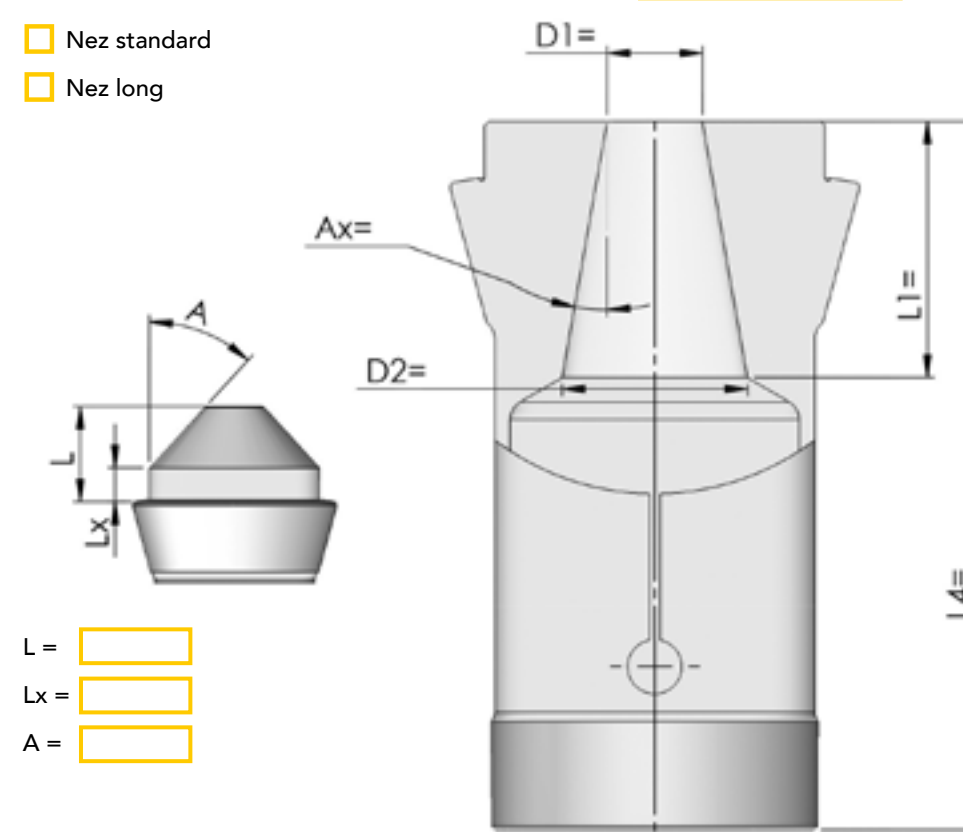
- ☐ Vulcanisation à froid  
☐ Huile entière ☐ Soluble  
☐ Ejecteur  
☐ Ouverture supplémentaire  
Valeur =

## TYPES F SPÉCIAL

### PLAN PINCE SPÉCIALE SUIVANT SCHÉMA 5

TYPE DE PINCE :

- ☐ Nez standard  
☐ Nez long



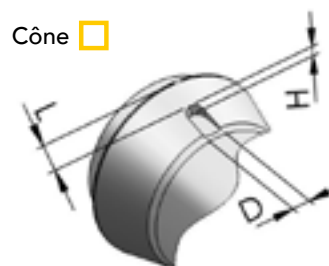
L =   
Lx =   
A =

#### Type d'alésage

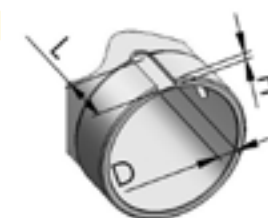
- ☐ Rainuré  
☐ Lisse  
☐ Quadrillé  
☐ Pointes diamant  
☐ Carbure

#### Rainure de Clavette

D =  Cône ☐  
H =   
L =



Corps ☐



D =   
H =   
L =

☐ Positionnement du clavetage (plan à fournir par vos soins)

#### Options

##### Type de fentes

- ☐ Fine ☐ en Z  
☐ Rayonnage Fente  
Valeur =   
Nombre de fentes  
☐ 2 ☐ 3 ☐ 4

##### Chanfrein d'entrée

- ☐ Standard  
Valeur =   
☐ Sans chanfrein  
☐ Ultra Precis (UP)

##### Surcarburation

- ☐ Vulcanisation à froid  
☐ Huile entière ☐ Soluble  
☐ Ejecteur  
☐ Ouverture supplémentaire  
Valeur =

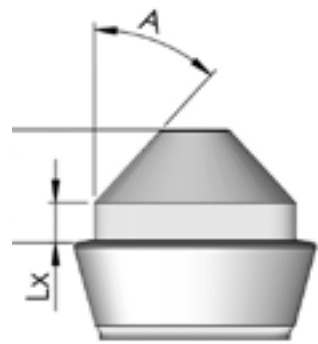


## TYPES F SPÉCIAL

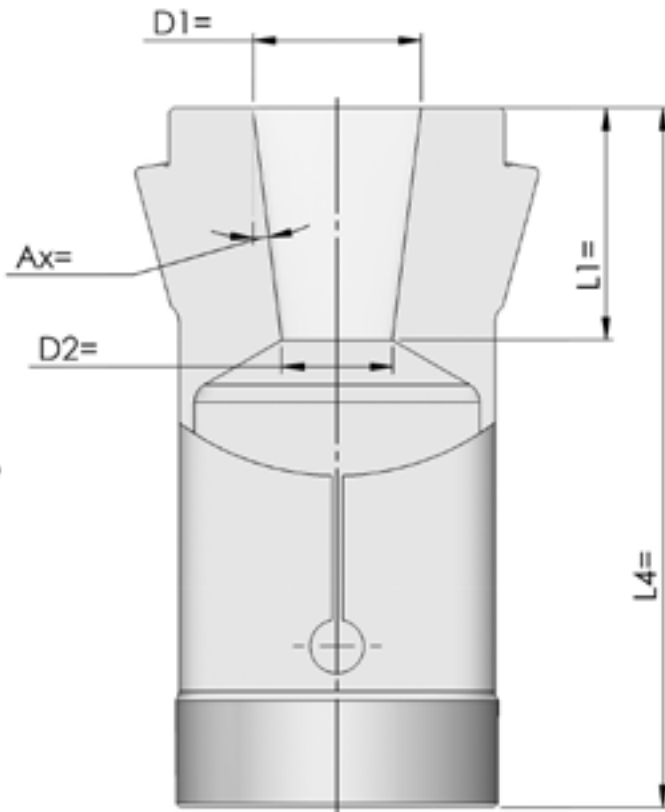
### PLAN PINCE SPÉCIALE SUIVANT SCHÉMA 6

TYPE DE PINCE :

- ☐ Nez standard  
☐ Nez long



L =   
Lx =   
A =

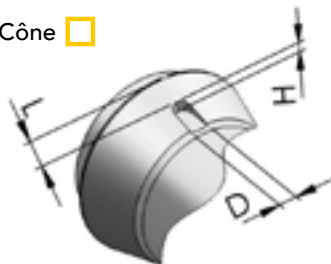


#### Type d'alésage

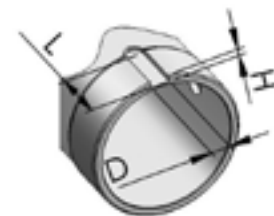
- ☐ Rainuré  
☐ Lisse  
☐ Quadrillé  
☐ Pointes diamant  
☐ Carbure

#### Rainure de Clavette

D =  Cône ☐  
H =   
L =



Corps ☐



D =   
H =   
L =

☐ Positionnement du clavetage (plan à fournir par vos soins)

#### Options

##### Type de fentes

- ☐ Fine ☐ en Z  
☐ Rayonnage Fente  
Valeur =   
Nombre de fentes  
☐ 2 ☐ 3 ☐ 4

##### Chanfrein d'entrée

- ☐ Standard  
Valeur =   
☐ Sans chanfrein  
☐ Ultra Precis (UP)

##### Surcarburation

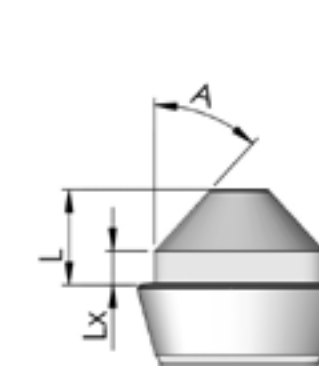
- ☐ Vulcanisation à froid  
☐ Huile entière ☐ Soluble  
☐ Ejecteur  
☐ Ouverture supplémentaire  
Valeur =

## TYPES F SPÉCIAL

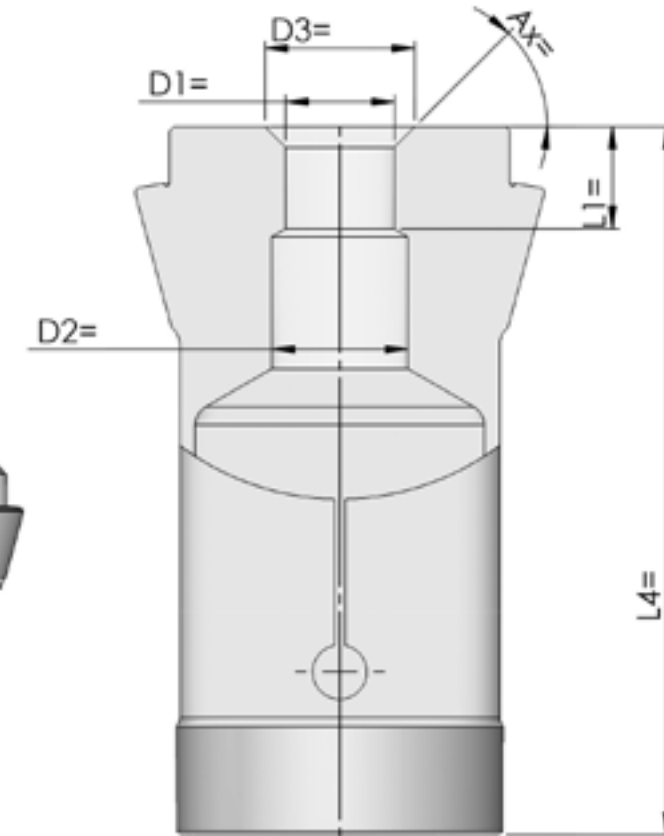
### PLAN PINCE SPÉCIALE SUIVANT SCHÉMA 7

TYPE DE PINCE :

- ☐ Nez standard  
☐ Nez long



L =   
Lx =   
A =

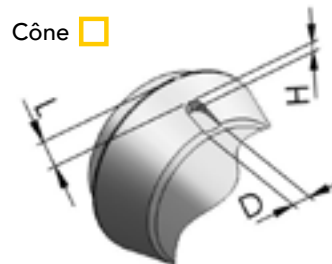


#### Type d'alésage

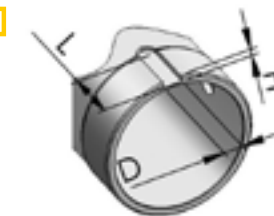
- ☐ Rainuré  
☐ Lisse  
☐ Quadrillé  
☐ Pointes diamant  
☐ Carbure

#### Rainure de Clavette

D =  Cône ☐  
H =   
L =



Corps ☐



D =   
H =   
L =

☐ Positionnement du clavetage (plan à fournir par vos soins)

#### Options

##### Type de fentes

- ☐ Fine ☐ en Z  
☐ Rayonnage Fente  
Valeur =   
Nombre de fentes  
☐ 2 ☐ 3 ☐ 4

##### Chanfrein d'entrée

- ☐ Standard  
Valeur =   
☐ Sans chanfrein  
☐ Ultra Precis (UP)

##### Surcarburation

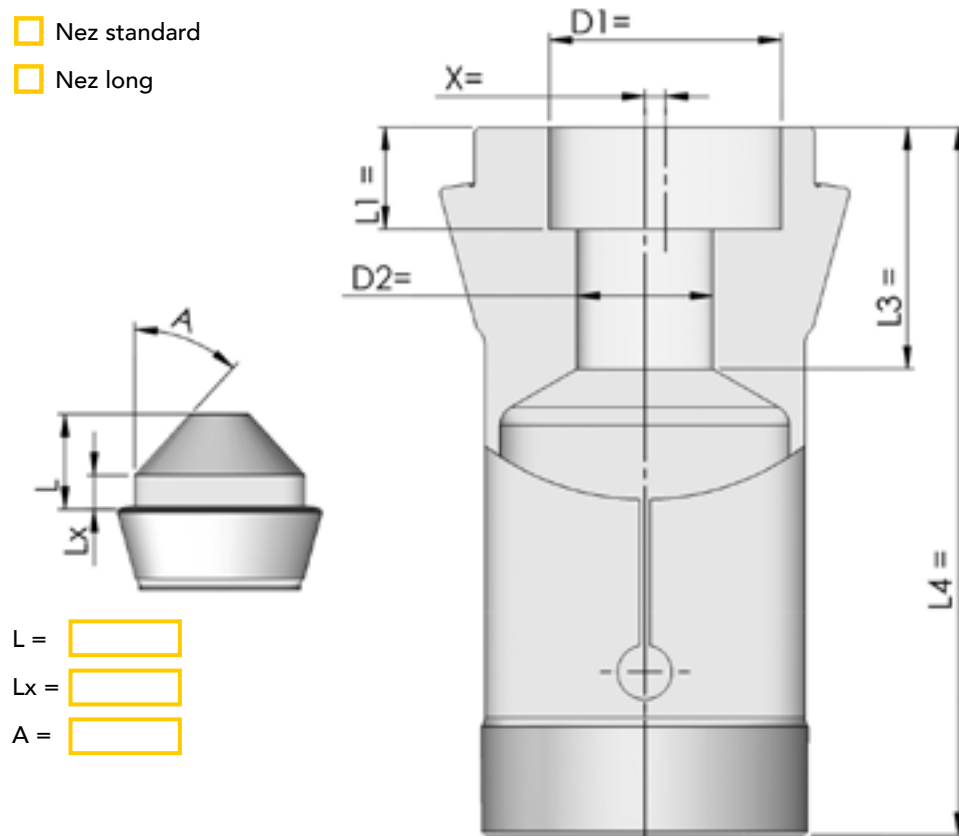
- ☐ Vulcanisation à froid  
☐ Huile entière ☐ Soluble  
☐ Ejecteur  
☐ Ouverture supplémentaire  
Valeur =

## TYPES F SPÉCIAL

### PLAN PINCE SPÉCIALE SUIVANT SCHÉMA 8

TYPE DE PINCE :

- ☐ Nez standard  
☐ Nez long



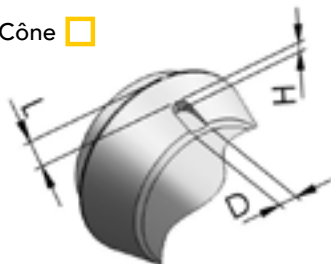
L =   
 Lx =   
 A =

Type d'alésage

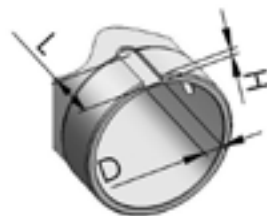
- ☐ Rainuré  
☐ Lisse  
☐ Quadrillé  
☐ Pointes diamant  
☐ Carbure

### Rainure de Clavette

D =  Cône ☐  
 H =   
 L =



Corps ☐



D =   
 H =   
 L =

☐ Positionnement du clavetage (plan à fournir par vos soins)

### Options

#### Type de fentes

- ☐ Fine ☐ en Z  
☐ Rayonnage Fente  
 Valeur =   
 Nombre de fentes  
☐ 2 ☐ 3 ☐ 4

#### Chanfrein d'entrée

- ☐ Standard  
 Valeur =   
☐ Sans chanfrein  
☐ Ultra Precis (UP)

#### Surcarburation

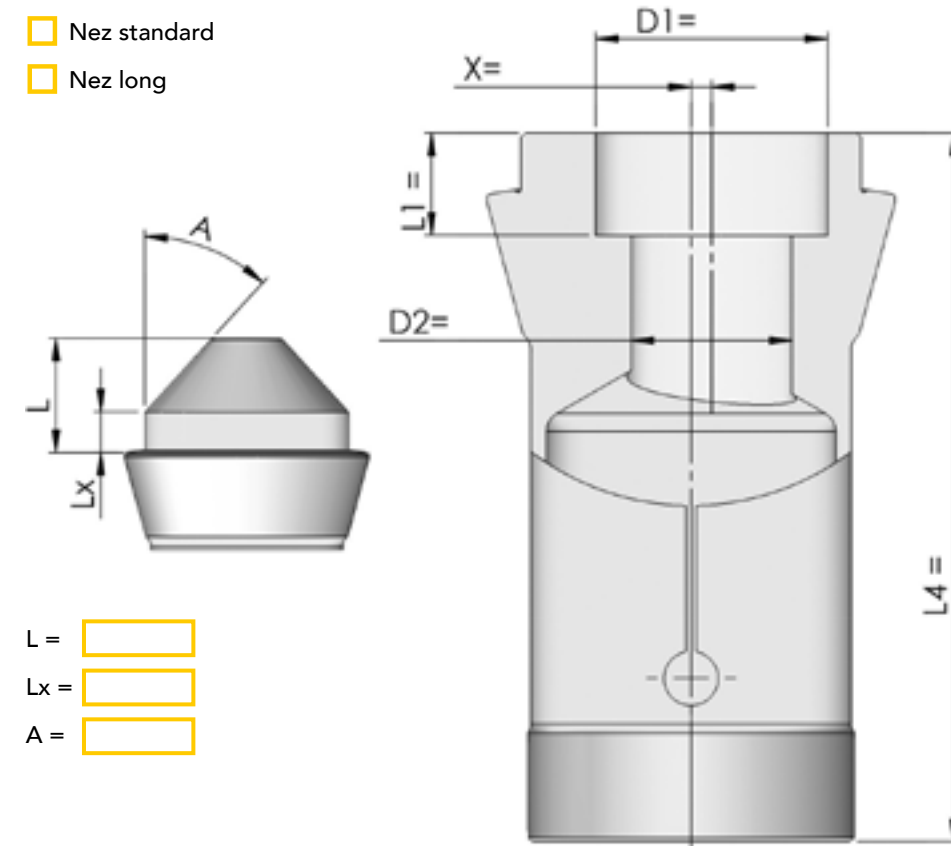
- ☐ Vulcanisation à froid  
☐ Huile entière ☐ Soluble  
☐ Ejecteur  
☐ Ouverture supplémentaire  
 Valeur =

## TYPES F SPÉCIAL

### PLAN PINCE SPÉCIALE SUIVANT SCHÉMA 9

TYPE DE PINCE :

- ☐ Nez standard  
☐ Nez long



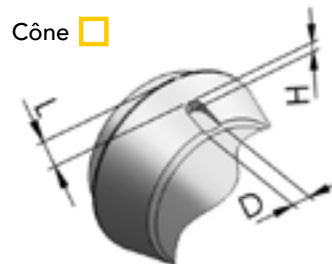
L =   
 Lx =   
 A =

Type d'alésage

- ☐ Rainuré  
☐ Lisse  
☐ Quadrillé  
☐ Pointes diamant  
☐ Carbure

### Rainure de Clavette

D =  Cône ☐  
 H =   
 L =



Corps ☐



D =   
 H =   
 L =

☐ Positionnement du clavetage (plan à fournir par vos soins)

### Options

#### Type de fentes

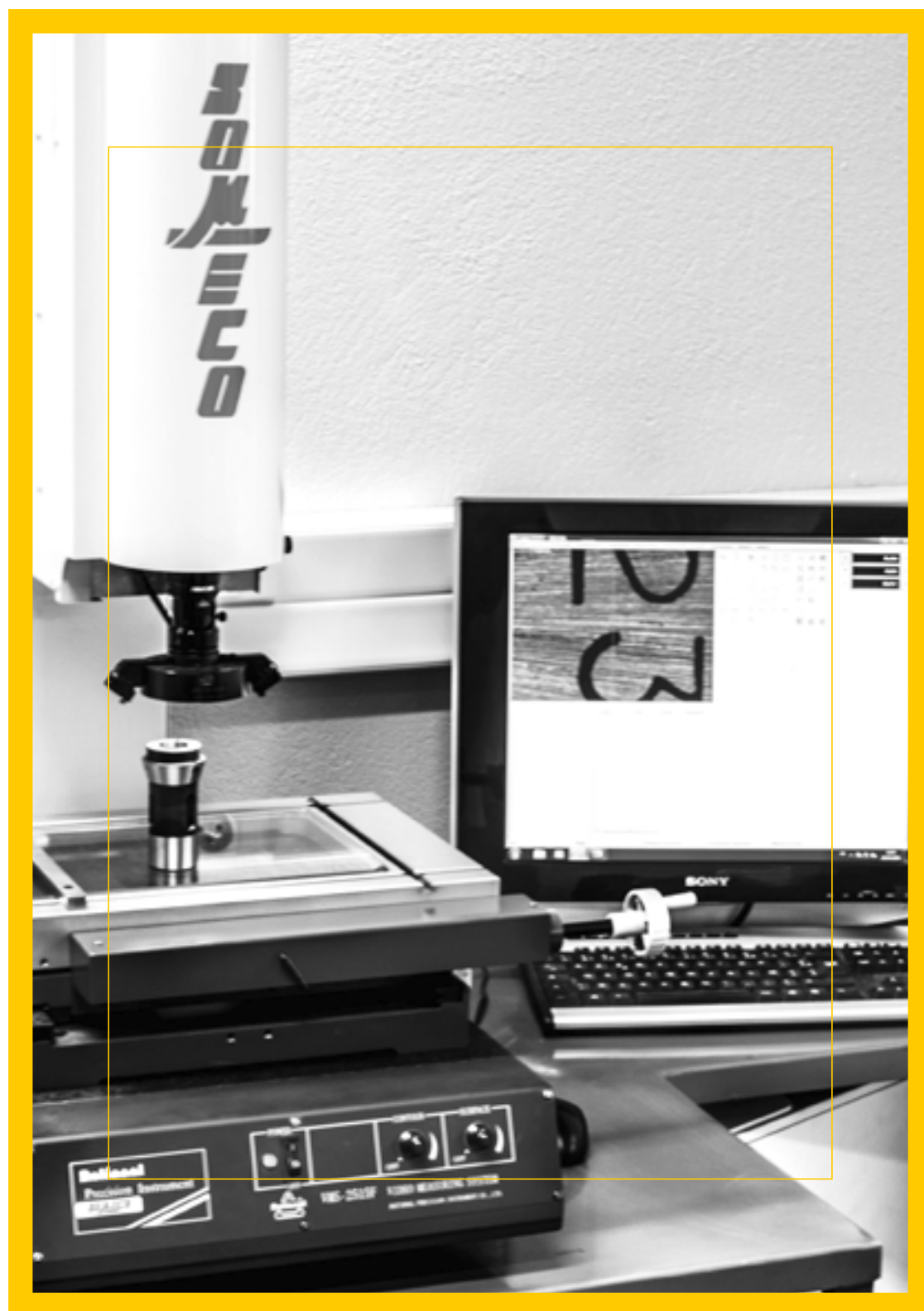
- ☐ Fine ☐ en Z  
☐ Rayonnage Fente  
 Valeur =   
 Nombre de fentes  
☐ 2 ☐ 3 ☐ 4

#### Chanfrein d'entrée

- ☐ Standard  
 Valeur =   
☐ Sans chanfrein  
☐ Ultra Precis (UP)

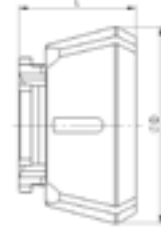
#### Surcarburation

- ☐ Vulcanisation à froid  
☐ Huile entière ☐ Soluble  
☐ Ejecteur  
☐ Ouverture supplémentaire  
 Valeur =



### 3 - TÊTES DE SERRAGE

## PINCES



| Type | Référence | L         | D     |  | A*      | Plage |  | A*     | Plage |  | A*     | Plage |   |  |
|------|-----------|-----------|-------|-----------------------------------------------------------------------------------|---------|-------|-----------------------------------------------------------------------------------|--------|-------|-------------------------------------------------------------------------------------|--------|-------|---|--|
| 32   | SK32BZ    | 44        | 57.7  | 4 - 32                                                                            | L       | 1     | 7 - 27                                                                            | L      | 1     | 7 - 22                                                                              | L      | 1     |   |  |
|      |           | 44        | 57.7  | 8 - 32                                                                            | R       | 1     | 8 - 27                                                                            | R      | 1     | 8 - 22                                                                              | R      | 1     |   |  |
|      |           | 44        | 57.7  | 11 - 32                                                                           | S       | 1     |                                                                                   |        |       |                                                                                     |        |       |   |  |
|      |           | 44        | 57.7  | 4 - 32                                                                            | W       |       |                                                                                   |        |       |                                                                                     |        |       |   |  |
| 42   | SK42BZ    | C. Broche | 42    | 79.3                                                                              | 4 - 42  | L     | 0.5                                                                               | 7 - 38 | L     | 1                                                                                   | 7 - 30 | L     | 1 |  |
|      |           |           | 42    | 79.3                                                                              | 8 - 42  | R     | 0.5                                                                               | 8 - 38 | R     | 1                                                                                   | 8 - 30 | R     | 1 |  |
|      |           |           | 42    | 79.3                                                                              | 11 - 42 | S     | 0.5                                                                               |        |       |                                                                                     |        |       |   |  |
|      |           |           | 42    | 79.3                                                                              | 4 - 42  | W     |                                                                                   |        |       |                                                                                     |        |       |   |  |
|      |           | Broche    | 47    | 79.3                                                                              | 4 - 42  | L     | 0.5                                                                               | 7 - 38 | L     | 1                                                                                   | 7 - 30 | L     | 1 |  |
|      |           |           | 47    | 79.3                                                                              | 8 - 42  | R     | 0.5                                                                               | 8 - 38 | R     | 1                                                                                   | 8 - 30 | R     | 1 |  |
|      |           |           | 47    | 79.3                                                                              | 11 - 42 | S     | 0.5                                                                               |        |       |                                                                                     |        |       |   |  |
|      |           |           | 47    | 79.3                                                                              | 4 - 42  | W     |                                                                                   |        |       |                                                                                     |        |       |   |  |
| 52   | SK52BZ    | 46        | 79.3  | 4 - 52                                                                            | L       | 0.5   | 7 - 45                                                                            | L      | 1     | 7 - 36                                                                              | L      | 1     |   |  |
|      |           | 46        | 79.3  | 8 - 52                                                                            | R       | 0.5   | 8 - 45                                                                            | R      | 1     | 8 - 38                                                                              | R      | 1     |   |  |
|      |           | 46        | 79.3  | 11 - 52                                                                           | S       | 0.5   |                                                                                   |        |       |                                                                                     |        |       |   |  |
|      |           | 46        | 79.3  | 4 - 52                                                                            | W       |       |                                                                                   |        |       |                                                                                     |        |       |   |  |
| 65   | SK65BZ    | 53        | 99.5  | 4 - 65                                                                            | L       | 0.5   | 7 - 56                                                                            | L      | 1     | 7 - 46                                                                              | L      | 1     |   |  |
|      |           | 53        | 99.5  | 8 - 65                                                                            | R       | 0.5   | 8 - 56                                                                            | R      | 1     | 8 - 46                                                                              | R      | 1     |   |  |
|      |           | 53        | 99.5  | 11 - 65                                                                           | S       | 0.5   |                                                                                   |        |       |                                                                                     |        |       |   |  |
|      |           | 53        | 99.5  | 4 - 65                                                                            | W       |       |                                                                                   |        |       |                                                                                     |        |       |   |  |
|      |           | 58        | 99.5  | 4 - 65                                                                            | L       | 0.5   | 7 - 56                                                                            | L      | 1     | 7 - 46                                                                              | L      | 1     |   |  |
|      |           | 58        | 99.5  | 8 - 65                                                                            | R       | 05    | 8 - 56                                                                            | R      | 1     | 8 - 46                                                                              | R      | 1     |   |  |
|      |           | 58        | 99.5  | 11 - 65                                                                           | S       | 0.5   |                                                                                   |        |       |                                                                                     |        |       |   |  |
| 80   | SK80BZ    | 53        | 114.5 | 4 - 80                                                                            | L       | 1     | 7 - 68                                                                            | L      | 1     | 7 - 56                                                                              | L      | 1     |   |  |
|      |           | 53        | 114.5 | 8 - 80                                                                            | R       | 1     | 8 - 68                                                                            | R      | 1     | 8 - 56                                                                              | R      | 1     |   |  |
|      |           | 53        | 114.5 | 11 - 80                                                                           | S       | 1     |                                                                                   |        |       |                                                                                     |        |       |   |  |
|      |           | 53        | 114.5 | 4 - 80                                                                            | W       |       |                                                                                   |        |       |                                                                                     |        |       |   |  |
| 100  | SK100BZ   | 59        | 144.5 | 50 - 86                                                                           | R       | 1     |                                                                                   |        |       |                                                                                     |        |       |   |  |
|      |           | 59        | 144.5 | 15 - 100                                                                          | S       | 1     |                                                                                   |        |       |                                                                                     |        |       |   |  |
|      |           | 59        | 114.5 | 1                                                                                 |         |       |                                                                                   |        |       |                                                                                     |        |       |   |  |

A = Type d'alésage

|   |                      |
|---|----------------------|
| L | Lisse                |
| R | Rainures circulaires |
| S | Striée               |
| W | Pince douce          |

## ACCESSOIRES

Changeur de pinces

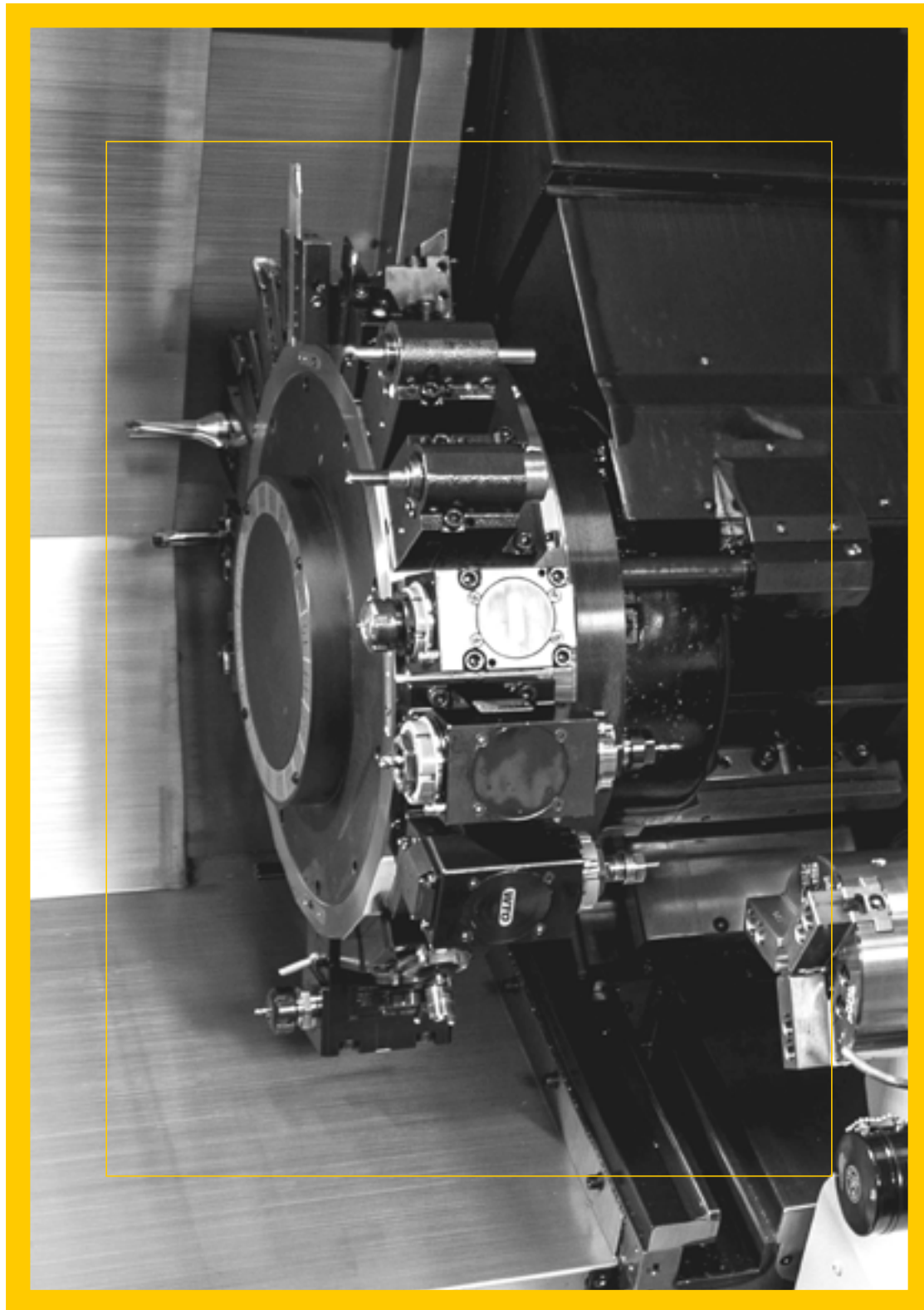


| Référence | Type |
|-----------|------|
| CCP32     | T32  |
| CCP42     | T42  |
| CCP52     | T52  |
| CCP65     | T65  |

Bague pour réalésage

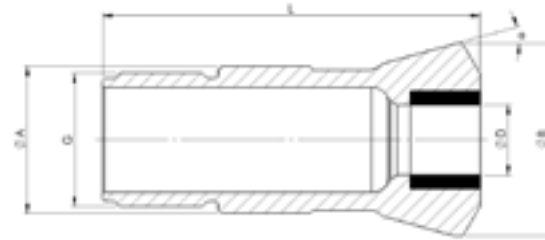


| Référence | Type |
|-----------|------|
| BT32      | T32  |
| BT42      | T42  |
| BT52      | T52  |
| BT65      | T65  |



## 4 - CANONS DE GUIDAGE

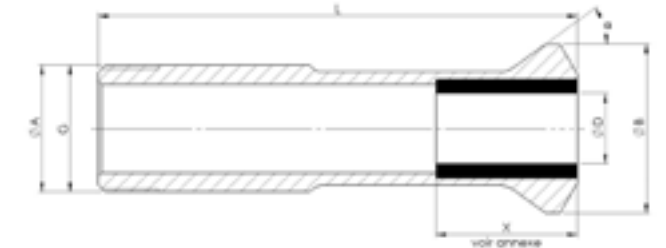
## CANONS TIRÉS



| Référence | A  | B    | L    | G        | $\alpha$ | D-Maxi |    |     |
|-----------|----|------|------|----------|----------|--------|----|-----|
| CT2A      | 11 | 14.5 | 53   | M10x0.8  | 16°      | 7.5    | 6  | 5   |
| CT4       | 16 | 21   | 58   | M14x1.00 | 16°      | 10.5   | 9  | 7.5 |
| CT4L      | 16 | 20.5 | 59   | M14x1.00 | 16°      | 12     | 10 | 8   |
| CT4B      | 18 | 21.8 | 59   | M16x1.00 | 30°      | 13     | 11 | 9   |
| CT5       | 22 | 29   | 68   | M19x1.00 | 16°      | 16     | 14 | 11  |
| CT5C      | 22 | 29   | 68   | M22x1.00 | 16°      | 18     | 15 | 13  |
| CT5A      | 24 | 30   | 61   | M24x1.00 | 30°      | 16     | 14 | 11  |
| CT6D      | 26 | 29   | 77   | M25x1.00 | 16°      | 20     | 16 | 13  |
| CT6S      | 28 | 34   | 82   | M25x1.00 | 16°      | 21     | 18 | 15  |
| CT6T      | 28 | 38   | 81   | M25x1.00 | 30°      | 21     | 18 | 15  |
| CT6       | 32 | 39.8 | 71   | M32x1.00 | 30°      | 22     | 19 | 15  |
| CT6A      | 34 | 41   | 87.5 | M34x1.00 | 10°      | 25     | 21 | 17  |
| CT7B      | 42 | 49   | 82   | M40x1.00 | 16°      | 32     | 26 | 21  |
| CT7S      | 48 | 54   | 82   | M46x1.00 | 16°      | 38     |    |     |

| Référence | A  | B    | L   | G        | $\alpha$ | D-Maxi |    |    |
|-----------|----|------|-----|----------|----------|--------|----|----|
| CTT1      | 18 | 21.5 | 100 | M18x1.00 | 20°      | 13     | 11 | 9  |
| CTT2      | 34 | 42   | 150 | M32x1.50 | 20°      | 26     | 22 | 18 |

## CANONS MAGIC



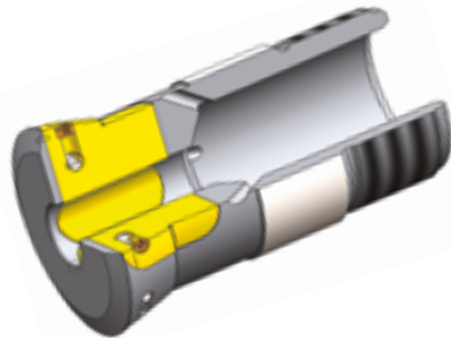
| Type     | Référence | A  | B  | L    | G        | $\alpha$ | D-Maxi |     |     |
|----------|-----------|----|----|------|----------|----------|--------|-----|-----|
| MAGIC 10 | CTCMR10   | 10 | 14 | 56.5 | M10x1.00 | 36°      | 5.5    | 4.5 | 3.5 |
| MAGIC 13 | CTCMR13   | 13 | 17 | 68   | M13x1.00 | 36°      | 7.5    | 6.5 | 5   |
| MAGIC 18 | CTCMR18   | 18 | 24 | 68   | M18x1.00 | 36°      | 12.5   | 10  | 8   |

## LONGUEURS TUBE CARBURE (X)

| Ø     | X              |              |                       |                       |                       |                       |                       |                       |       |
|-------|----------------|--------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-------|
|       | Lg<br>Standard | Lg<br>Medium | Lg XL                 |                       |                       |                       |                       |                       |       |
|       |                |              | CT5                   | CT5A                  | CT5C                  | CT6A                  | CT6S                  | CT6T                  | CT7B  |
| 1 - 3 | 15 mm          | 30 mm        | Sur consultation      |                       |                       |                       |                       |                       |       |
| 4     | 18 mm          |              | 45 mm<br>(jusqu'à 16) | 40 mm<br>(jusqu'à 20) | 50 mm<br>(jusqu'à 18) | 50 mm<br>(jusqu'à 28) | 50 mm<br>(jusqu'à 26) | 50 mm<br>(jusqu'à 26) | 50 mm |
| 5-9   | 20 mm          |              |                       |                       |                       |                       |                       |                       |       |
| 10-15 | 22 mm          |              |                       |                       |                       |                       |                       |                       |       |
| 16-19 | 25 mm          |              |                       |                       |                       |                       |                       |                       |       |
| 20-22 | 27 mm          |              |                       |                       |                       |                       |                       |                       |       |
| 23-24 | 27.5 mm        | 40 mm        |                       |                       |                       |                       |                       |                       |       |
| 25-26 | 28.5 mm        |              |                       |                       |                       |                       |                       |                       |       |
| 27    | 29.5 mm        |              |                       |                       |                       |                       |                       |                       |       |
| 28    | 30 mm          |              |                       |                       |                       |                       |                       |                       |       |
| 29    | 30.5 mm        |              |                       |                       |                       |                       |                       |                       |       |
| 30-33 | 31 mm          |              |                       |                       |                       |                       |                       |                       |       |



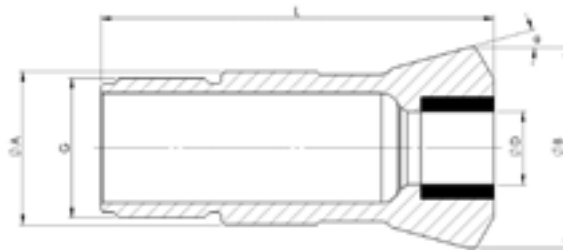
## CANON MASTERPRO



### CANON RÉGLABLE AVEC SYSTÈME DE COMPENSATION

#### Avantages :

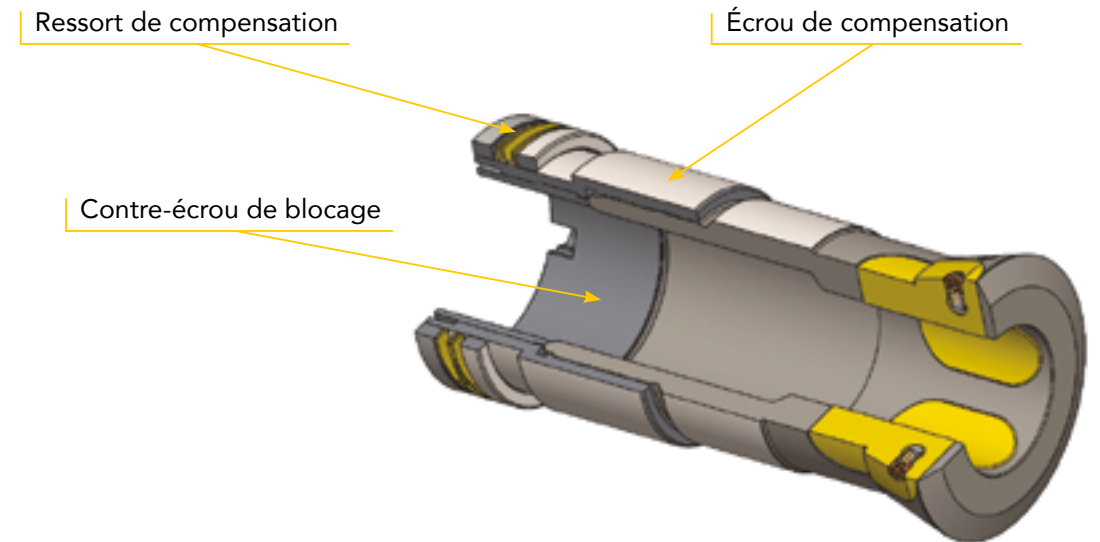
- **Étanchéité** aux copeaux (plus d'arrêts machines)
- **Gestion du serrage** : réglage plus précis du canon par le contre écrou
- **Précision** inférieur à 0.005 mm
- **Durée de vie supérieure** : Traitement PVD supérieur à 1 000 HV
- **Absorbe les différences de diamètre** (plage de serrage  $\pm 0.5\text{mm}$ )
- **Evite la rectification des barres** : Toutes formes de barres (rond, carré, hexagonal,...)
- **Dureté** : Corps et mors traités à 60 HRC
- **Serrage à vide sans casse**



| Référence | A  | B  | L    | G        | $\alpha$ | Capacité D | Contre écrou réglable     |
|-----------|----|----|------|----------|----------|------------|---------------------------|
| MP24R     | 24 | 30 | 61   | M24x1.00 | 30°      | 5 - 15     | Sur demande selon machine |
| MP26R     | 26 | 29 | 77   | M25x1.00 | 16°      | 5 - 17     |                           |
| MP28/16°R | 28 | 34 | 82   | M25x1.00 | 16°      | 5 - 20     |                           |
| MP28/30°R | 28 | 38 | 81   | M25x1.00 | 30°      | 5 - 20     |                           |
| MP34R     | 34 | 41 | 87.5 | M34x1.00 | 10°      | 5 - 26     |                           |
| MP42R     | 42 | 49 | 82   | M40x1.00 | 16°      | 5 - 32     |                           |

Pour tout autres modèles de canons merci de nous consulter.

## NOTICE DE MONTAGE MASTERPRO



#### Avantages :

- 1 - Enlever l'écrou de réglage d'origine.
- 2 - Insérer le canon MASTERPRO en lieu et place de votre canon standard.
- 3 - Insérer une pige au diamètre de la barre à usiner dans le canon avant de monter l'écrou de compensation.
- 4 - Monter l'écrou de compensation depuis l'arrière de la broche.
- 5 - Régler votre canon MASTERPRO comme un canon standard (Dureté de guidage de la pige dans le canon identique).
- 6 - Serrer ensuite l'écrou d'un demi-tour supplémentaire. (Dans les cas suivants, n'hésitez pas à resserrer l'écrou si vous observez des vibrations ou des défauts de concentricité sur vos pièces : barre de gros diamètre, vitesse d'usinage élevée.)
- 7 - Le réglage du canon MASTERPRO est terminé. Pour bloquer le réglage, ne monter en aucun cas le système de blocage standard (Vis radiales, Bague vissée, Vis de blocage...). Visser le contre-écrou de compensation à l'intérieur de l'écrou et le serrer à l'aide de la clé fournie.
- 8 - Votre canon MASTERPRO est prêt à être utilisé.

Pour toutes questions supplémentaires ou pour toutes informations, n'hésitez pas à nous contacter.

#### Remarques :

Lorsque votre canon MASTERPRO est réglé, il est normal de ne pas pouvoir rentrer une pige ou une barre par l'avant du canon si celui-ci est vide. Le système de compensation tire le canon MASTERPRO vers l'arrière pour compenser les diminutions de diamètre des barres ce qui resserre les mors au maximum lorsqu'il n'y a pas de barre à l'intérieur. Lorsqu'une barre arrive par l'arrière du canon MASTERPRO, celui-ci va automatiquement s'ouvrir et s'ajuster sur la barre.

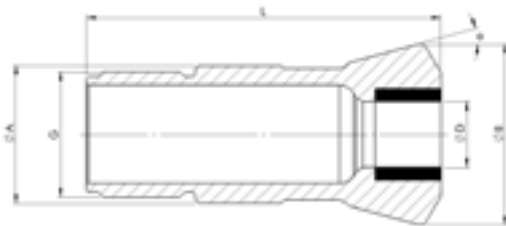


CANON RAPTOR



Avantages :

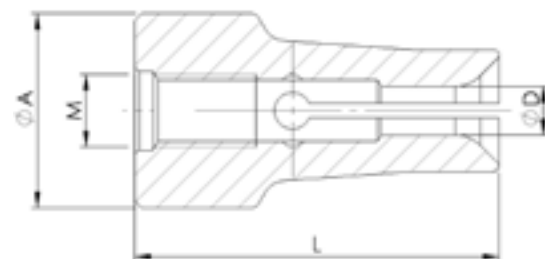
- Réglages plus précis
- Stabilité en production
- Concentricité inférieur à 0.005 mm (en option : UP = 0.003maxi)
- Trempé à 60 HRc
- Résistance supérieur à l'usure
- En option : Fentes radial (±0.005mm)



| Référence | A  | B    | L    | G        | α   | D-Maxi |    |     |
|-----------|----|------|------|----------|-----|--------|----|-----|
|           |    |      |      |          |     | ●      | ⬡  | ■   |
| ST1352    | 11 | 14.5 | 53   | M10x0.8  | 16° | 7.5    | 6  | 5   |
| ST1604    | 16 | 21   | 58   | M14x1.00 | 16° | 10.5   | 9  | 7.5 |
| ST1353    | 16 | 20.5 | 59   | M14x1.00 | 16° | 12     | 10 | 8   |
| ST853     | 18 | 21.8 | 59   | M16x1.00 | 30° | 13     | 11 | 9   |
| ST1354    | 22 | 29   | 68   | M19x1.00 | 16° | 16     | 14 | 11  |
| ST39001T  | 22 | 29   | 68   | M22x1.00 | 16° | 18     | 15 | 13  |
| ST605     | 24 | 30   | 61   | M24x1.00 | 30° | 16     | 14 | 11  |
| STD26     | 26 | 29   | 77   | M25x1.00 | 16° | 20     | 16 | 13  |
| ST223T    | 28 | 34   | 82   | M25x1.00 | 16° | 21     | 18 | 15  |
| ST1357    | 28 | 38   | 81   | M25x1.00 | 30° | 21     | 18 | 15  |
| ST355     | 32 | 39.8 | 71   | M32x1.00 | 30° | 22     | 19 | 15  |
| ST227T    | 34 | 41   | 87.5 | M34x1.00 | 10° | 25     | 21 | 17  |
| ST229T    | 42 | 49   | 82   | M40x1.00 | 16° | 32     | 26 | 21  |
| ST248T    | 48 | 54   | 82   | M46x1.00 | 16° | 38     |    |     |

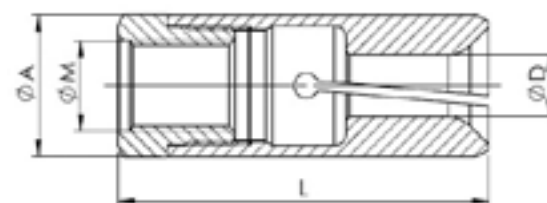
# 5 - RAVITAILLEURS

## BECHLER



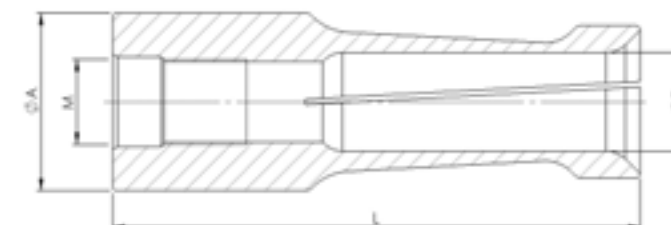
| Type | Référence | A   | L  | M      | D-Maxi |
|------|-----------|-----|----|--------|--------|
| D4.5 | 1800EMB   | 4.5 | 22 | M2.5   | 3.5    |
| D5   | 1801EMB   | 5   | 22 | M3     | 4      |
| D7   | 1803EMB   | 7   | 22 | M4     | 6      |
| D10  | 1804EMB   | 10  | 26 | M5     | 8.5    |
| D12  | 1805EMB   | 12  | 26 | M5     | 10.5   |
| D16C | 1806EMB   | 16  | 30 | M6     | 14     |
| D20C | 1808EMB   | 20  | 30 | M8x100 | 18     |

## CUCCHI

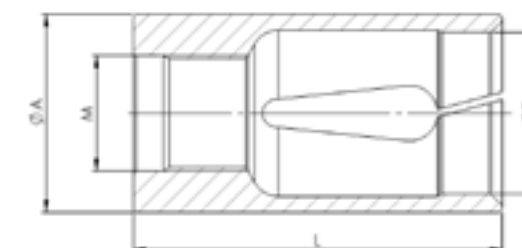


| Type | Référence | A  | L  | M              | D        |
|------|-----------|----|----|----------------|----------|
| PB16 | PB1600    | 16 | 52 | M8x100         | 5 - 14   |
| PB20 | PB2000    | 20 | 60 | M10x100 gauche | 4 - 18   |
| PB24 | PB2400    | 24 | 60 | M14x100 gauche | 8 - 21   |
| PB30 | PB3000    | 30 | 65 | M18x150 gauche | 8 - 27.5 |
| PB34 | PB3400    | 34 | 65 | M18x150 gauche | 10 - 31  |
| PB38 | PB3800    | 38 | 70 | M25x150 gauche | 15 - 35  |
| PB40 | PB4000    | 40 | 70 | M25x150 gauche | 10 - 38  |
| PB47 | PB4700    | 47 | 70 | M30x150 gauche | 19 - 44  |
| PB50 | PB5000    | 50 | 70 | M30x150 gauche | 40 - 46  |

## IEMCA

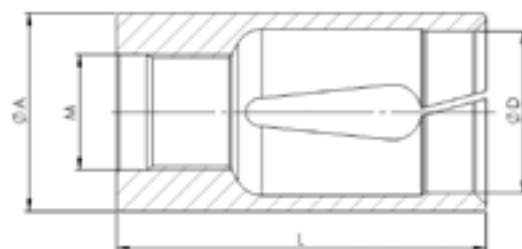


| Type | Référence | A   | L  | M       | D       |
|------|-----------|-----|----|---------|---------|
| D7.5 | 2001E     | 7.5 | 40 | M5x0.5  | 2 - 6   |
| D10  | 2045E     | 10  | 40 | M6x0.75 | 2 - 8   |
| D12  | 2061E     | 12  | 42 | M7x0.75 | 2 - 10  |
| D15  | 2101E     | 15  | 42 | M8x100  | 3 - 13  |
| D20  | 2197E     | 20  | 59 | M10x100 | 4 - 18  |
| D23  | 2197ERR   | 23  | 59 | M10x100 | 18 - 20 |
| D25  | 2289E     | 25  | 59 | M10x100 | 10 - 23 |



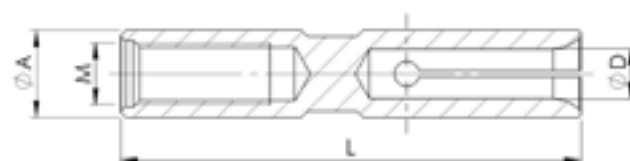
| Type | Référence | A  | L  | M       | D       |
|------|-----------|----|----|---------|---------|
| D30  | IEMCA D30 | 30 | 80 | M25x150 | 6 - 28  |
| D32  | IEMCA D32 | 32 | 80 | M25x150 | 6 - 30  |
| D34  | IEMCA D34 | 34 | 80 | M25x150 | 5 - 32  |
| D36  | IEMCA D36 | 36 | 80 | M25x150 | 20 - 34 |
| D38  | IEMCA D38 | 38 | 80 | M25x150 | 31 - 32 |
| D40  | IEMCA D40 | 40 | 80 | M25x150 | 10 - 37 |
| D42  | IEMCA D42 | 42 | 80 | M25x150 | 20 - 40 |
| D46  | IEMCA D46 | 46 | 80 | M25x150 | 20 - 44 |
| D48  | IEMCA D48 | 48 | 80 | M25x150 | 41 - 42 |
| D50  | IEMCA D50 | 50 | 80 | M25x150 | 43 - 48 |
| D52  | IEMCA D52 | 52 | 80 | M25x150 | 45 - 50 |
| D54  | IEMCA D54 | 54 | 80 | M25x150 | 57 - 52 |
| D55  | IEMCA D55 | 55 | 80 | M25x150 | 20 - 54 |

## IEMCA



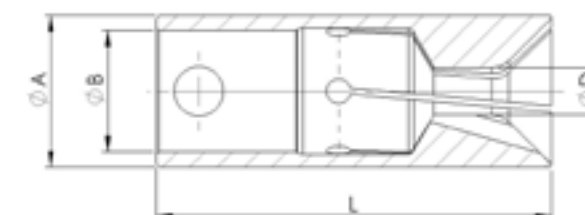
| Type | Référence | A  | L  | M       | D       |
|------|-----------|----|----|---------|---------|
| D56  | IEMCA D56 | 56 | 80 | M25x150 | 20 - 54 |
| D58  | IEMCA D58 | 58 | 80 | M25x150 | 20 - 54 |
| D60  | IEMCA D60 | 60 | 80 | M25x150 | 20 - 57 |
| D65  | IEMCA D65 | 65 | 80 | M25x150 | 56 - 63 |
| D70  | IEMCA D70 | 70 | 80 | M25x150 | 60 - 68 |
| D75  | IEMCA D75 | 75 | 80 | M25x150 | 67 - 72 |
| D80  | IEMCA D80 | 80 | 80 | M25x150 | 50 - 77 |

## HAGENUK



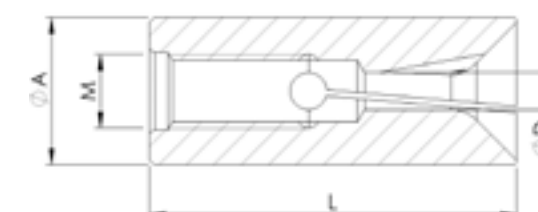
| Type | Référence | A | L  | M  | D         |
|------|-----------|---|----|----|-----------|
| D5   | 200E      | 5 | 37 | M4 | 0.8 - 4.5 |
| D7   | 208E      | 7 | 37 | M5 | 1 - 6     |

## HAGENUK



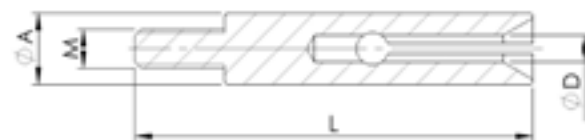
| Type | Référence | A  | L  | B  | D         |
|------|-----------|----|----|----|-----------|
| D10  | 210E      | 10 | 40 | 7  | 1 - 9     |
| D12  | 212E      | 12 | 40 | 8  | 2 - 11    |
| D14  | HAGD14    | 14 | 40 | 8  | 6 - 13    |
| D15  | 203E      | 15 | 40 | 11 | 2 - 14    |
| D16  | HAGD16    | 16 | 40 | 11 | 4 - 15    |
| D17  | HAGD17    | 17 | 40 | 11 | 15 - 15.5 |
| D18  | HAGD18    | 18 | 40 | 11 | 3 - 17    |
| D20  | 222E      | 20 | 65 | 14 | 2 - 19    |
| D22  | HAGD22    | 22 | 65 | 14 | 4 - 21    |
| D24  | HAGD24    | 24 | 65 | 14 | 19 - 22   |
| D25  | 222E      | 25 | 65 | 20 | 2 - 24    |
| D28  | HAGD28    | 28 | 65 | 20 | 3 - 27    |
| D30  | HAGD30    | 30 | 65 | 20 | 4 - 29    |
| D32  | HAGD32    | 32 | 65 | 20 | 3 - 31    |
| D36  | HAGD36    | 36 | 65 | 20 | 4 - 35    |
| D42  | HAGD42    | 42 | 65 | 20 | 15 - 41   |
| D52  | HAGD52    | 52 | 70 | 20 | 40 - 51   |

## LNS TRYTON

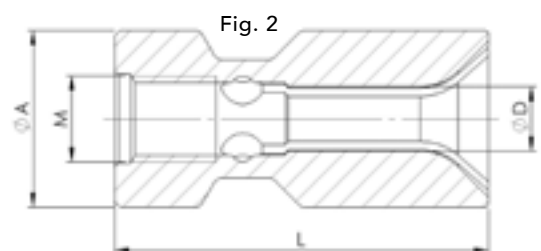
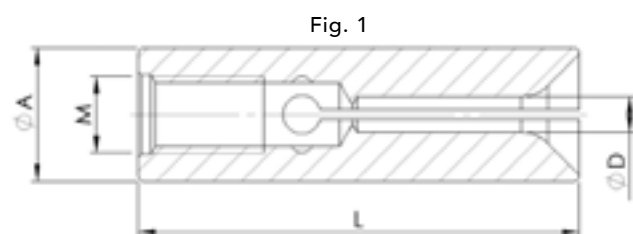


| Type | Référence | A  | L  | M  | D       |
|------|-----------|----|----|----|---------|
| D6   | TRYD06    | 6  | 30 | M4 | 1 - 5   |
| D7   | TRYD07    | 7  | 30 | M4 | 1 - 6   |
| D10  | TRYD10    | 10 | 30 | M4 | 4 - 8.5 |
| D12  | TRYD12    | 12 | 30 | M4 | 6 - 11  |

## TORNOS BARBOY / CADDIE



| Type | Référence | A   | L  | M  | D         |
|------|-----------|-----|----|----|-----------|
| D4.5 | 1600EMB   | 4.5 | 31 | M3 | 0.9 - 3.5 |
| D5.5 | 1601EMB   | 5.5 | 31 | M3 | 1 - 4.5   |

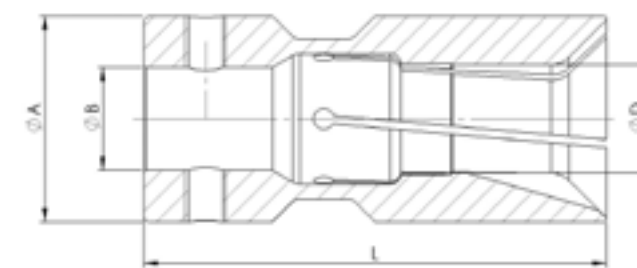


| Type | Référence | A    | L  | M  | D       | Fig. |
|------|-----------|------|----|----|---------|------|
| 7.5  | 1602EMB   | 7.5  | 30 | M4 | 1 - 6.5 | 1    |
| 8.5  | 1603EMB   | 8.5  | 30 | M5 | 2 - 7.5 | 1    |
| 10.5 | 1604EMB   | 10.5 | 35 | M6 | 2 - 9   | 1    |
| 12   | 1606EMB   | 12   | 35 | M6 | 3 - 11  | 1    |
| 16.5 | 1609EMB   | 16.5 | 35 | M8 | 6 - 15  | 2    |
| 20.5 | 1610EMB   | 20.5 | 35 | M8 | 10 - 18 | 2    |

### CADDIE TORNOS AS14 - SAS16

| Type | Référence | A    | L  | M         | D       | Fig. |
|------|-----------|------|----|-----------|---------|------|
| 8.5  | 1699EMB   | 8.5  | 30 | M5 gauche | 2 - 7   | 1    |
| 9.5  | 1700EMB   | 9.5  | 35 | M6 gauche | 5 - 8   | 1    |
| 10.5 | 1701EMB   | 10.5 | 35 | M6 gauche | 4 - 9   | 1    |
| 12   | 1702EMB   | 12   | 35 | M6 gauche | 6 - 11  | 1    |
| 15   | 1703EMB   | 15   | 35 | M7 gauche | 11 - 13 | 2    |
| 16.5 | 1705EMB   | 16.5 | 35 | M8 gauche | 6 - 15  | 2    |

## FMB / TURBO / LNS



| Type | Référence | A   | L   | B  | D        |
|------|-----------|-----|-----|----|----------|
| D25  | TUD25     | 25  | 90  | 20 | 2.5 - 24 |
| D30  | TUD30     | 30  | 90  | 20 | 3 - 28   |
| D32  | TUD32     | 32  | 90  | 20 | 8 - 30   |
| D34  | TUD34     | 34  | 90  | 20 | 8 - 32   |
| D36  | TUD36     | 36  | 90  | 20 | 10 - 34  |
| D38  | TUD38     | 38  | 90  | 20 | 10 - 36  |
| D40  | TUD40     | 40  | 90  | 20 | 10 - 38  |
| D42  | TUD42     | 42  | 90  | 20 | 10 - 40  |
| D45  | TUD45     | 45  | 90  | 20 | 10 - 43  |
| D50  | TUD50     | 50  | 90  | 20 | 10 - 48  |
| D54  | TUD54     | 54  | 90  | 20 | 20 - 51  |
| D58  | TUD58     | 58  | 90  | 20 | 20 - 55  |
| D60  | TUD60     | 60  | 90  | 20 | 10 - 58  |
| D65  | TUD65     | 65  | 90  | 20 | 10 - 63  |
| D70  | TUD70     | 70  | 90  | 20 | 40 - 68  |
| D80  | TUD80     | 80  | 90  | 35 | 40 - 77  |
| D90  | TUD90     | 90  | 90  | 35 | 50 - 86  |
| D100 | TUD100    | 100 | 110 | 35 | 60 - 95  |

## PINCE AVEC REVÊTEMENTS PLASTIQUE



ABSORPTION DES VIBRATIONS

Référence

Sur demande

## PINCE CAPACITÉ MAXI MACHINE



ÉPAISSEUR DE LA PINCE JUSQU'A 0.5 SANS RISQUE DE RUPTURE

Référence

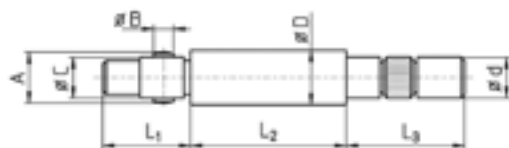
Sur demande

## EMBOUT SIMPLE



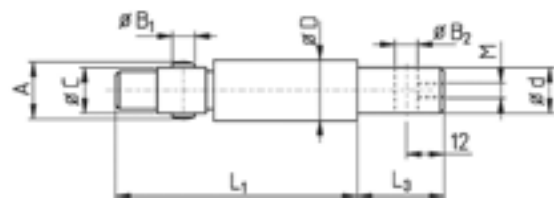
| Référence  | D   | M    | L   |
|------------|-----|------|-----|
| ETESB0450  | 4.5 | M3.5 | 35  |
| ETESB0550  | 5.5 | M4   | 46  |
| ETESB0700  | 7   | M5   | 52  |
| ETESB0750  | 7.5 | M5   | 44  |
| ETESB0800  | 8   | M5   | 48  |
| ETESB0850  | 8.5 | M5   | 52  |
| ETESB0850L | 8.5 | M5   | 73  |
| ETESB1000  | 10  | M6   | 49  |
| ETESB1100  | 11  | M6   | 49  |
| ETESB1200  | 12  | M6   | 49  |
| ETESB1400  | 14  | M10  | 80  |
| ETESB1408  | 14  | M8   | 80  |
| ETESB1500  | 15  | M10  | 80  |
| ETESB1508  | 15  | M8   | 80  |
| ETESB1600  | 16  | M10  | 80  |
| ETESB1608  | 16  | M8   | 80  |
| ETESB2000  | 20  | M10  | 80  |
| ETESB2500  | 25  | M12  | 108 |
| ETESB2800  | 28  | M12  | 108 |
| ETESB3000  | 30  | M12  | 108 |
| ETESB3200  | 32  | M12  | 108 |
| ETESB3600  | 36  | M12  | 108 |

## FMB / HAGENUK / AB D15 TRAUB / SYMCO IEMCA



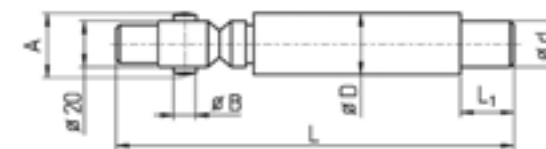
| Référence    | d  | D    | A    | B | C  | L1 | L2 | L3 |
|--------------|----|------|------|---|----|----|----|----|
| ETSPHLD10IR  | 8  | 10   | 9.8  | 4 | 7  | 27 | 43 | 31 |
| ETSPHLD105IR | 8  | 10.5 | 9.8  | 4 | 7  | 27 | 43 | 31 |
| ETSPHLD10H   | 8  | 10.3 | 9.8  | 4 | 7  | 27 | 43 | 31 |
| ETSPHLD12H   | 8  | 12   | 11.8 | 4 | 8  | 27 | 43 | 31 |
| ETSPHLD13H   | 8  | 13   | 11.8 | 4 | 8  | 27 | 43 | 31 |
| ETSPHLD15H   | 12 | 15   | 14.8 | 6 | 11 | 26 | 44 | 31 |
| ETSPHLD16H   | 12 | 16   | 15.8 | 6 | 11 | 26 | 44 | 31 |
| ETSPHLD18    | 12 | 18   | 17.8 | 6 | 11 | 26 | 44 | 31 |
| ETSPHLD20    | 17 | 20   | 19.8 | 8 | 14 | 39 | 47 | 31 |
| ETSPHLD22    | 17 | 22   | 21.8 | 8 | 14 | 39 | 47 | 31 |
| ETSPHLD23    | 17 | 23   | 21.8 | 8 | 14 | 44 | 47 | 28 |
| ETSPHLD25    | 20 | 25   | 24.8 | 8 | 20 | 42 | 47 | 31 |
| ETSPHLD28    | 20 | 28   | 24.8 | 8 | 20 | 42 | 47 | 31 |
| ETSPHLD30    | 20 | 30   | 29.8 | 8 | 20 | 42 | 47 | 31 |
| ETSPHLD32    | 20 | 32   | 31.8 | 8 | 20 | 42 | 47 | 30 |
| ETSPHLD36    | 20 | 36   | 35.8 | 8 | 20 | 42 | 47 | 30 |
| ETSPHLD42    | 20 | 42   | 41.8 | 8 | 20 | 42 | 47 | 30 |
| ETSPHLD52    | 20 | 52   | 51.8 | 8 | 20 | 42 | 47 | 30 |

## LNS



| Référence   | d  | D  | A  | B1 | B2 | C  | L1   | L3 | M  |
|-------------|----|----|----|----|----|----|------|----|----|
| ETSPHL10LNS | 8  | 10 | 10 | 4  | 4  | 7  | 67   | 30 | M4 |
| ETSPHL12LNS | 8  | 12 | 12 | 4  | 4  | 8  | 69   | 30 | -  |
| ETSPHL15LNS | 12 | 15 | 15 | 6  | 6  | 11 | 67   | 30 | M5 |
| ETSPHL18LNS | 12 | 18 | 18 | 6  | 6  | 11 | 70   | 30 | -  |
| ETSPHL20LNS | 17 | 20 | 20 | 8  | 8  | 14 | 81   | 30 | M8 |
| ETSPHL25LNS | 20 | 25 | 25 | 8  | 8  | 20 | 85.5 | 30 | M8 |
| ETSPHL36LNS | 30 | 36 | 36 | 8  | -  | 20 | 158  | 40 | -  |
| ETSPHL50LNS | 42 | 50 | -  | -  | -  | 20 | 158  | 50 | -  |

## FMB



| Référence  | d  | D  | A    | B | L1 | L   |
|------------|----|----|------|---|----|-----|
| ETSPHLTD25 | 20 | 25 | 24.8 | 8 | 40 | 197 |
| ETSPHLTD28 | 25 | 28 | 25.8 | 8 | 40 | 197 |
| ETSPHLTD30 | 25 | 30 | 25.8 | 8 | 40 | 197 |
| ETSPHLTD32 | 25 | 32 | 31   | 8 | 40 | 197 |
| ETSPHLTD34 | 30 | 34 | 31   | 8 | 40 | 197 |
| ETSPHLTD36 | 30 | 36 | 35   | 8 | 40 | 207 |
| ETSPHLTD38 | 30 | 38 | -    | - | 40 | 207 |
| ETSPHLTD40 | 33 | 40 | -    | - | 50 | 207 |
| ETSPHLTD42 | 33 | 42 | -    | - | 50 | 207 |
| ETSPHLTD45 | 33 | 45 | -    | - | 50 | 207 |
| ETSPHLTD50 | 42 | 50 | -    | - | 50 | 207 |
| ETSPHLTD60 | 51 | 60 | -    | - | 75 | 232 |
| ETSPHLTD63 | 51 | 63 | -    | - | 75 | 232 |
| ETSPHLTD65 | 51 | 65 | -    | - | 75 | 232 |
| ETSPHLTD70 | 51 | 70 | -    | - | -  | -   |
| ETSPHLTD80 | 51 | 80 | -    | - | -  | -   |

## TORNOS

| Référence  | d  | D  | A  | B | L1 | L   |
|------------|----|----|----|---|----|-----|
| ETSPHLTR32 | 22 | 32 | 31 | 8 | 30 | 192 |
| ETSPHLTR36 | 25 | 36 | 35 | 8 | 30 | 192 |

## TORNOS ROBOBAR

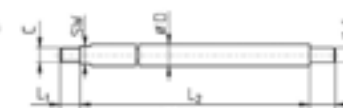


Fig. 1

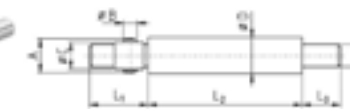


Fig. 2

| Référence  | d  | D    | A    | B | C  | L1 | L2  | L3 | Fig. |
|------------|----|------|------|---|----|----|-----|----|------|
| ETSPHLD05R | M3 | 5.5  | -    | - | M4 | 7  | 78  | 8  | 1    |
| ETSPHLD07R | M5 | 7.5  | -    | - | M5 | 7  | 78  | 16 | 1    |
| ETSPHLD10R | 7  | 10.5 | 9.8  | 4 | 7  | 27 | 73  | 16 | 2    |
| ETSPHLD12R | 8  | 12   | 11.8 | 4 | 8  | 28 | 72  | 16 | 2    |
| ETSPHLD16R | 10 | 16   | 15.5 | 6 | 11 | 26 | 116 | 16 | 2    |
| ETSPHLD18R | 10 | 18   | 17.8 | 6 | 11 | 28 | 116 | 16 | 2    |
| ETSPHLD21R | 14 | 20.5 | 19.8 | 8 | 14 | 40 | 110 | 20 | 2    |
| ETSPHLD25R | 20 | 25   | 24.8 | 8 | 20 | 42 | 117 | 22 | 2    |
| ETSPHLD26R | 20 | 26   | 24.8 | 8 | 20 | 43 | 114 | 22 | 2    |



## TORNOS CADDIE AS14 / SAS16



| Référence | D    | M1        | M2        | L  |
|-----------|------|-----------|-----------|----|
| ETVO5110  | 8.5  | M5 gauche | M5 gauche | 62 |
| ETVO5111  | 9.5  | M6 gauche | M6 gauche | 72 |
| ETVO5112  | 10.5 | M6 gauche | M6 gauche | 72 |
| ETVO5113  | 12.5 | M6 gauche | M6 gauche | 72 |
| ETVO5114  | 15   | M7 gauche | M6 gauche | 92 |
| ETVO5115  | 16.5 | M8 gauche | M8 gauche | 92 |
| ETVO5116  | 17   | M8 gauche | M8 gauche | 92 |

## BECHLER

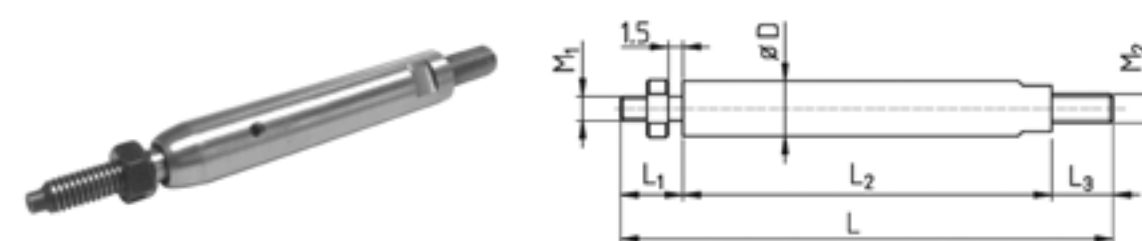


| Référence | D   | M1   | M2   | L    |
|-----------|-----|------|------|------|
| ETVO6140  | 4.5 | M3   | M2.5 | 37.5 |
| ETVO6141  | 5   | M3.5 | M3   | 58.5 |
| ETVO6142  | 5.5 | M4   | M3.5 | 37.5 |



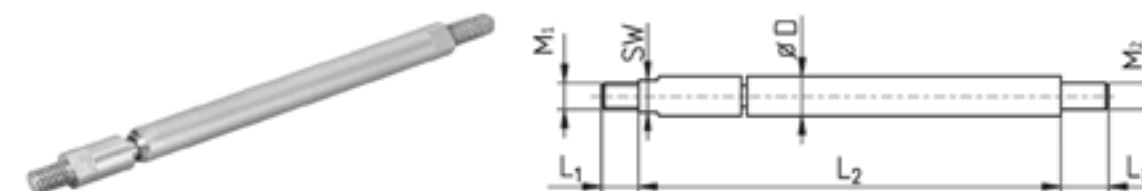
| Référence | D  | M1      | M2   | L    |
|-----------|----|---------|------|------|
| ETVO6143  | 7  | M5      | M4   | 38.5 |
| ETVO6144  | 7  | M5      | M4   | 61   |
| ETVO6145  | 10 | M6      | M5   | 59   |
| ETVO6146  | 10 | M6      | M5   | 75   |
| ETVO6147  | 12 | M8 / M6 | M5   | 64   |
| ETVO6148  | 12 | M8 / M6 | M5   | 94   |
| ETVO6151  | 13 | M8 / M6 | M6   | 65   |
| ETVO6152  | 13 | M8 / M6 | M6   | 94   |
| ETVO6153  | 16 | M12     | M6   | 84   |
| ETVO6154  | 20 | M16     | M8x1 | 84   |

## TORNOS



| Référence | D    | M1 | M2 | L1   | L2   | L3 | L    |
|-----------|------|----|----|------|------|----|------|
| ERT0450   | 4.5  | M3 | M3 | 5    | -    | -  | 62   |
| ERT0550   | 5.5  | M3 | M3 | 8    | 55   | -  | 63   |
| ERT0700   | 7    | M4 | M5 | 12   | 42   | 10 | 64   |
| ERT0750   | 7.5  | M4 | M5 | 11.5 | 42   | 10 | 63   |
| ERT0850   | 8.5  | M5 | M5 | 12   | 41.5 | 10 | 63.5 |
| ERT1050   | 10.5 | M6 | M6 | 14   | 45   | 11 | 70   |
| ERT1200   | 12   | M6 | M6 | -    | -    | -  | 51   |
| ERT1300   | 13   | M6 | M6 | -    | -    | -  | 51   |
| ERT1500   | 15   | M7 | M6 | -    | -    | -  | 70   |
| ERT1600   | 16   | M7 | M8 | -    | -    | -  | 72   |
| ERT2000   | 20   | M7 | M8 | -    | -    | -  | 72   |

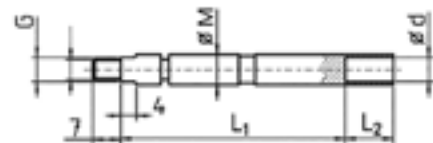
## GAUTHIER / IEMCA / LNS



| Référence    | D   | M1 | M2 | SW | L1            | L2  | L3 | Machine        |
|--------------|-----|----|----|----|---------------|-----|----|----------------|
| ETSPHLD05GS  | 5.0 | M4 | M4 | 4  | 7             | 73  | 11 | GAUTHIER/IEMCA |
| ETSPHLD05G   | 5.5 | M4 | M4 | 4  | 7             | 73  | 11 | GAUTHIER/IEMCA |
| ETSPHLD07GS  | 7.0 | M5 | M5 | 6  | 7             | 79  | 11 | GAUTHIER       |
| ETSPHLD07G   | 7.5 | M5 | M5 | 6  | 7             | 79  | 11 | GAUTHIER       |
| ETSPHLD07LNS | 7.0 | M4 | M5 | 6  | 8             | 115 | 11 | LNS Mini Sp    |
| ETSPHLD07LNS | 7.5 | M4 | M5 | 6  | 8             | 115 | 11 | LNS Mini Sp    |
| ETSPHLD12LNS | 12  | M6 | M6 | 9  | Lg total 72mm |     |    | LNS Mini Sp    |

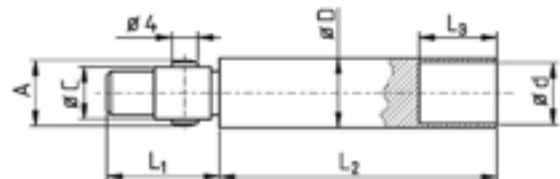


## TRAUB / FMB



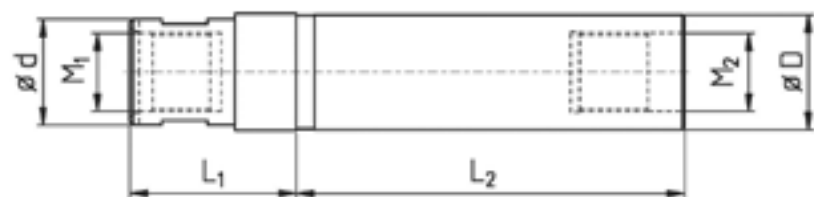
| Référence  | D | M  | G | L1 | L2 | d   |
|------------|---|----|---|----|----|-----|
| ETSPHLD05T | 5 | M4 | 4 | 56 | 12 | 4.5 |
| ETSPHLD07T | 7 | M5 | 6 | 59 | 15 | 6.5 |

## TRAUB



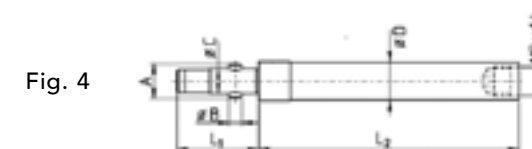
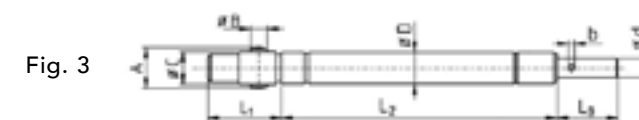
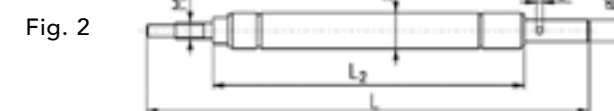
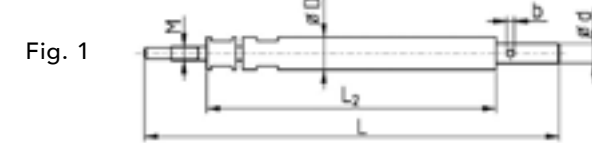
| Référence  | D  | A    | C | d  | L1 | L2   | L3 |
|------------|----|------|---|----|----|------|----|
| ETSPHLD10T | 10 | 9.9  | 7 | 9  | 24 | 61   | 18 |
| ETSPHLD12T | 12 | 11.9 | 8 | 11 | 24 | 61.5 | 18 |

## IEMCA



| Référence  | D  | d  | L1 | L2  | M1      | M2    |
|------------|----|----|----|-----|---------|-------|
| ETSPHLDI25 | 25 | 23 | 40 | 81  | M17x1   | M17x1 |
| ETSPHLDI30 | 30 | 30 | 49 | 91  | M25x1.5 | M20x1 |
| ETSPHLDI40 | 40 | 45 | 51 | 114 | M25x1.5 | Ø30   |

## IEMCA / BOSS



### Standard IEMCA embout tournant vissé

| Référence | D  | d  | L2    | L   | M       | b | Fig. |
|-----------|----|----|-------|-----|---------|---|------|
| ETSPHLI12 | 12 | 8  | 109   | 172 | M7x0.75 | 3 | 1    |
| ETSPHLI15 | 15 | 12 | 132.5 | 195 | M8x1    | 4 | 2    |
| ETSPHLI16 | 16 | 12 | 132.5 | 195 | M8x1    | 4 | 2    |
| ETSPHLI18 | 18 | 12 | 132.5 | 195 | M8x1    | 4 | 2    |
| ETSPHLI20 | 20 | 14 | 132.5 | 210 | M10x1   | - | 2    |
| ETSPHLI23 | 23 | 14 | 132.5 | 210 | M10x1   | 4 | 2    |

### Embout tournant goupillé

| Référence    | D  | d  | L1 | L2  | L3 | A  | B | C  | b | Fig. |
|--------------|----|----|----|-----|----|----|---|----|---|------|
| ETSPHL12IE   | 12 | 8  | 27 | 113 | 30 | 12 | 4 | 8  | 3 | 3    |
| ETSPHL12IE-S | 12 | -  | 26 | 83  | -  | 12 | 4 | 8  | - | 4    |
| ETSPHL14IE   | 15 | 12 | 26 | 127 | 35 | 15 | 6 | 11 | 4 | 3    |
| ETSPHL16IE   | 16 | 12 | 26 | 127 | 35 | 16 | 6 | 11 | 4 | 3    |
| ETSPHL18IE   | 18 | 12 | 26 | 127 | 35 | 18 | 6 | 11 | 4 | 3    |
| ETSPHL20IE   | 20 | 14 | 37 | 125 | 33 | 20 | 8 | 14 | - | 3    |

# IEMCA / CUCCHI

Fig. 1

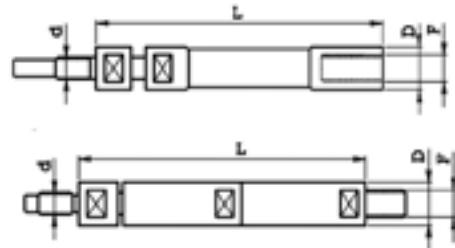


Fig. 2

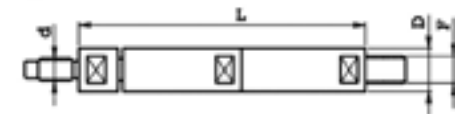


Fig.3

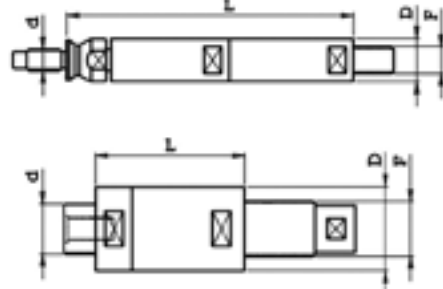
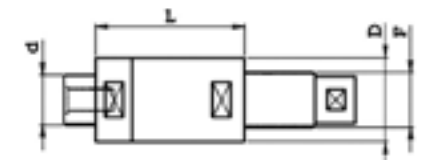


Fig. 4



## IEMCA filetage à droite

| Référence | D   | L   | F       | d       | Fig. |
|-----------|-----|-----|---------|---------|------|
| ET516.007 | 7.5 | 126 | M6x0.75 | M5x0.5  | 1    |
| ET516.010 | 10  | 113 | M8x1    | M6x0.75 | 1    |
| ET516.012 | 12  | 116 | M10x1   | M7x0.75 | 1    |
| ET516.015 | 15  | 121 | M12x1   | M8x1    | 1    |
| ET516.020 | 20  | 133 | M14x1.5 | M10x1   | 1    |
| ET516.025 | 25  | 133 | M14x1.5 | M10x1   | 1    |
| ET516.030 | 30  | 135 | M14x1.5 | M10x1   | 1    |

## CUCCHI filetage à droite

| Référence | D  | L   | F        | d       | Fig. |
|-----------|----|-----|----------|---------|------|
| ET517.010 | 10 | 107 | M7x1     | M6x0.75 | 2    |
| ET517.012 | 12 | 107 | M8x1.25  | M7x0.75 | 2    |
| ET517.014 | 14 | 107 | M10x1.5  | M8x1    | 2    |
| ET517.016 | 16 | 107 | M10x1.5  | M8x1    | 2    |
| ET517.019 | 19 | 118 | M12x1.75 | M10x1   | 2    |
| ET517.025 | 25 | 118 | M20x1.5  | M14x1   | 2    |
| ET517.030 | 30 | 123 | M24x1.5  | M18x1.5 | 2    |
| ET517.040 | 40 | 61  | M28x1.5  | M25x1.5 | 4    |

## CUCCHI filetage à gauche

| Référence  | D    | L   | F       | d       | Fig. |
|------------|------|-----|---------|---------|------|
| ET517.120  | 19   | 100 | M17x1   | M10x1   | 2    |
| ET517.120P | 19   | 100 | M17x1   | M14x1.5 | 2    |
| ET517.120S | 19   | 105 | M17x1   | M10x1   | 3    |
| ET517.125  | 24   | 100 | M20x1.5 | M14x1   | 2    |
| ET517.125P | 24   | 100 | M20x1.5 | M20x1.5 | 2    |
| ET517.125S | 24   | 105 | M20x1.5 | M14x1   | 3    |
| ET517.130  | 29.3 | 100 | M26x1.5 | M18x1.5 | 2    |
| ET517.130S | 29.3 | 100 | M26x1.5 | M18x1.5 | 3    |
| ET517.130P | 29.3 | 100 | M26x1.5 | M26x1.5 | 2    |
| ET517.135  | 35   | 100 | M30x1.5 | M18x1.5 | 2    |
| ET517.135P | 35   | 100 | M30x1.5 | M30x1.5 | 2    |
| ET517.138  | 38   | 83  | M30x1.5 | M25x1.5 | 2    |
| ET517.138P | 38   | 83  | M30x1.5 | M30x1.5 | 2    |
| ET517.145  | 45   | 100 | M36x1.5 | M30x1.5 | 2    |
| ET517.145P | 45   | 100 | M36x1.5 | M36x1.5 | 2    |
| ET517.148  | 48   | 100 | M36x1.5 | M30x1.5 | 2    |
| ET517.148P | 48   | 100 | M36x1.5 | M36x1.5 | 2    |
| ET517.160  | 60   | 113 | M50x1.5 | M30x1.5 | 2    |

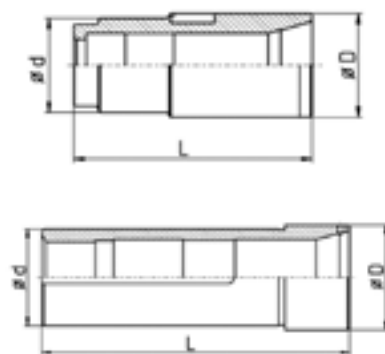
# 6 - DOUILLES PORTE-PINCES

## DOUILLES

### DOUILLES PORTE-PINCES - 1



A = Broche principale  
B = Contre-broche  
X = Ecrou disponible



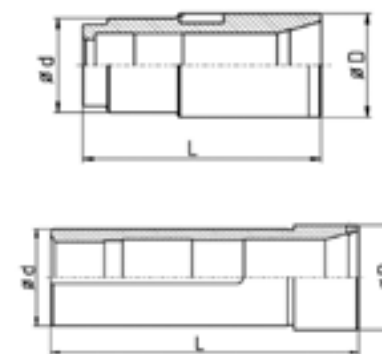
| Référence              | Broche | D     | d       | L      | Pince       | Ecrou |
|------------------------|--------|-------|---------|--------|-------------|-------|
| <b>BECHLER AR10</b>    |        |       |         |        |             |       |
| DH-BECH-A10/F14        |        | 24    | 20      | 62     | 117E / F14  |       |
| <b>BENZINGER TNI20</b> |        |       |         |        |             |       |
| DH-BENZ-TNI20/F20      |        | 33    | 30 / 26 | 75.90  | 138E / F20  |       |
| <b>BOLEY BC42</b>      |        |       |         |        |             |       |
| DH-BOLE-BC42/F48       |        | 64.5  | 60      | 160.20 | 173E / F48  |       |
| <b>CITIZEN A20</b>     |        |       |         |        |             |       |
| DH-CIT-A20/AB/F25      | A + B  | 44    | 42 / 40 | 126    | 145E / F25  |       |
| <b>CITIZEN A32</b>     |        |       |         |        |             |       |
| DH-CIT-A32/A/F37       | A      | 61    | 58      | 171    | 1536E / F37 |       |
| DH-CIT-A32/B/F37       | B      | 58.10 | 54      | 147.70 | 1536E / F37 |       |
| DH-CIT-A32/B/F25       | B      | 58.10 | 54      | 147.70 | 145E / F25  |       |
| <b>CITIZEN B12</b>     |        |       |         |        |             |       |
| DH-CIT-B12/A/F15       | A      | 24.50 | 23      | 89     | 120E / F15  | X     |
| DH-CIT-B12/A/F16       | A      | 24.50 | 23      | 89     | 1212E / F16 | X     |
| DH-CIT-B12/B/F10v10    | B      | 28    | 23      | 90     | 109E / F10  | X     |
| DH-CIT-B12/B/F13       | B      | 28    | 23      | 90     | 116E / F13  | X     |
| DH-CIT-B12/B/F15       | B      | 28    | 23      | 90     | 120E / F15  | X     |
| DH-CIT-B12/B/F16       | B      | 28    | 23      | 90     | 1212E / F16 | X     |
| <b>CITIZEN C32</b>     |        |       |         |        |             |       |
| DH-CIT-C32/A/F37       | A      | 54    | 48      | 152.50 | 1536E / F37 | X     |
| DH-CIT-C32/B/F37       | B      | 53    | 49      | 147.50 | 1536E / F37 | X     |
| <b>CITIZEN E16</b>     |        |       |         |        |             |       |
| DH-CIT-E16/B/F25       | B      | 45    | 38      | 134.50 | 145E / F25  | X     |
| <b>CITIZEN E32</b>     |        |       |         |        |             |       |
| DH-CIT-E32/A/F37       | A      | 59    | 50      | 142    | 1536E / F37 |       |
| DH-CIT-E32/B/F37       | B      | 59    | 50      | 160    | 1536E / F37 |       |
| <b>CITIZEN K12</b>     |        |       |         |        |             |       |
| DH-CIT-K12/A/F15       | A      | 33    | 28      | 180    | 120E / F15  |       |
| DH-CIT-K12/A/F16       | A      | 33    | 28      | 180    | 1212E / F16 |       |
| DH-CIT-K12/B/F8v10     | B      | 30    | 30      | 107    | 101E / F8   | X     |
| DH-CIT-K12/B/F10v15    | B      | 30    | 30      | 126    | 109E / F10  | X     |

## DOUILLES

### DOUILLES PORTE-PINCES - 1



A = Broche principale  
B = Contre-broche  
X = Ecrou disponible



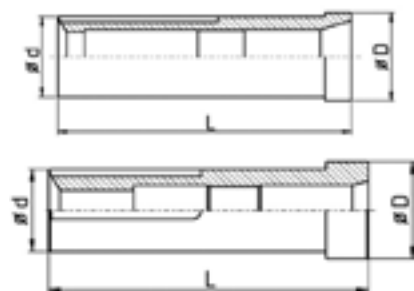
| Référence                            | Broche | D  | d  | L      | Pince       | Ecrou |
|--------------------------------------|--------|----|----|--------|-------------|-------|
| <b>CITIZEN K12</b>                   |        |    |    |        |             |       |
| DH-CIT-K12/B/F13                     | B      | 30 | 30 | 110    | 116E / F13  | X     |
| DH-CIT-K12/B/F15                     | B      | 30 | 30 | 110    | 120E / F15  | X     |
| DH-CIT-K12/B/F15v15                  | B      | 30 | 30 | 128    | 120E / F15  | X     |
| DH-CIT-K12/B/F16                     | B      | 30 | 30 | 110    | 1212E / F16 | X     |
| <b>CITIZEN K16</b>                   |        |    |    |        |             |       |
| DH-CIT-K16/A/F20                     | A      | 33 | 28 | 180    | 138E / F20  |       |
| DH-CIT-K16/A/F22                     | A      | 33 | 28 | 180    | 140E / F22  |       |
| DH-CIT-K16/B/F20                     | B      | 33 | 30 | 110    | 138E / F20  | X     |
| <b>CITIZEN L16VI/VII ; M20 ; L20</b> |        |    |    |        |             |       |
| DH-CIT-L16/A/F25                     | A      | 46 | 35 | 103    | 145E / F25  | X     |
| <b>CITIZEN L16</b>                   |        |    |    |        |             |       |
| DH-CIT-L16/B/F15v                    | B      | 44 | 35 | 141.50 | 120E / F15  | X     |
| DH-CIT-L16/B/F16v                    | B      | 44 | 35 | 141.50 | 1212E / F16 | X     |
| DH-CIT-L16/B/F20                     | B      | 44 | 35 | 121.50 | 138E / F20  | X     |

## DOUILLES

### DOUILLES PORTE-PINCES - 2



A = Broche principale  
B = Contre-broche  
X = Ecrou disponible



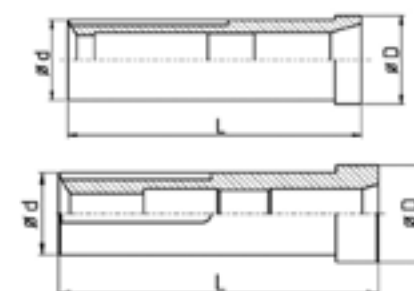
| Référence                   | Broche | D     | d     | L      | Pince       | Ecrou |
|-----------------------------|--------|-------|-------|--------|-------------|-------|
| <b>CITIZEN L16VII ; M20</b> |        |       |       |        |             |       |
| DH-CIT-L16/B/F25            | B      | 44    | 35    | 121.50 | 145E / F25  | X     |
| <b>CITIZEN L520VIII</b>     |        |       |       |        |             |       |
| DH-CIT-L520/A/F25           | A      | 41.50 | 35    | 198    | 145E / F25  | X     |
| DH-CIT-L520/B/F25           | B      | 41    | 35    | 121.50 | 145E / F25  | X     |
| <b>CITIZEN M12</b>          |        |       |       |        |             |       |
| DH-CIT-M12/B/F13            | B      | 28    | 24.50 | 98     | 116E / F13  | X     |
| DH-CIT-M12/B/F15            | B      | 28    | 24.50 | 98     | 120E / F15  | X     |
| <b>CITIZEN M16</b>          |        |       |       |        |             |       |
| DH-CIT-M16/A/F16            | A      | 36    | 30    | 108.70 | 1212E / F16 |       |
| DH-CIT-M16/A/F25            | A      | 36    | 30    | 110    | 144E / F25  |       |
| DH-CIT-M16/B/F10v15         | B      | 33    | 30    | 127.50 | 109E / F10  | X     |
| DH-CIT-M16/B/F13            | B      | 33    | 30    | 110    | 116E / F13  | X     |
| DH-CIT-M16/B/F16            | B      | 30    | 30    | 108.70 | 1212E / F16 | X     |
| <b>CITIZEN M216</b>         |        |       |       |        |             |       |
| DH-CIT-M216/A/F20           | A      | 36    | 30    | 110    | 138E / F20  |       |
| DH-CIT-M216/A/F22           | A      | 36    | 30    | 110    | 140E / F22  |       |
| DH-CIT-M216/B/F13v15        | B      | 33    | 30    | 128    | 116E / F13  | X     |
| DH-CIT-M216/B/F15           | B      | 33    | 30    | 110    | 120E / F15  | X     |
| DH-CIT-M216/B/F15v15        | B      | 33    | 30    | 128    | 120E / F15  | X     |
| DH-CIT-M216/B/F16v15        | B      | 33    | 30    | 128    | 1212E / F16 | X     |
| DH-CIT-M216/B/F20           | B      | 33    | 30    | 110    | 138E / F20  | X     |
| DH-CIT-M216/B/F22           | B      | 33    | 30    | 110    | 140E / F22  | X     |
| <b>CITIZEN M32</b>          |        |       |       |        |             |       |
| DH-CIT-M32/A/F37            | A      | 53.80 | 48    | 155    | 1536E / F37 | X     |
| DH-CIT-M32/B/F37            | B      | 53    | 49    | 147.50 | 1536E / F37 | X     |
| <b>CITIZEN M432</b>         |        |       |       |        |             |       |
| DH-CIT-M432/A/F37           | A      | 58.50 | 54    | 152.50 | 1536E / F37 | X     |
| DH-CIT-M432/A/F25           | A      | 58.50 | 54    | 152.50 | 145E / F25  | X     |
| DH-CIT-M432/A/F20           | A      | 58.50 | 54    | 152.50 | 138E / F20  | X     |
| DH-CIT-M432/B/F37           | B      | 53    | 50    | 147.50 | 1536E / F37 | X     |
| DH-CIT-M432/B/F25           | B      | 53    | 50    | 147.50 | 145E / F25  | X     |
| DH-CIT-M432/B/F20           | B      | 53    | 50    | 150.50 | 138E / F20  | X     |

## DOUILLES

### DOUILLES PORTE-PINCES - 2



A = Broche principale  
B = Contre-broche  
X = Ecrou disponible



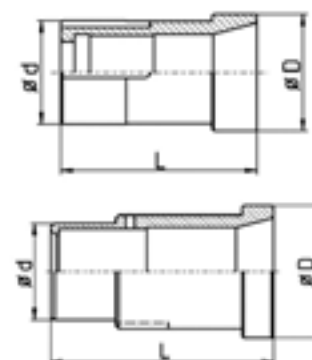
| Référence           | Broche | D     | d     | L     | Pince       | Ecrou |
|---------------------|--------|-------|-------|-------|-------------|-------|
| <b>CITIZEN ML12</b> |        |       |       |       |             |       |
| DH-CIT-ML12/A/F13   | A      | 33    | 28    | 109   | 116E / F13  | X     |
| DH-CIT-ML12/A/F15   | A      | 33    | 28    | 109   | 120E / F15  | X     |
| DH-CIT-ML12/A/F16   | A      | 33    | 28    | 109   | 1212E / F16 | X     |
| <b>CITIZEN R04</b>  |        |       |       |       |             |       |
| DH-CIT-R04/F8       |        | 21    | 15.50 | 84.30 | 101E / F8   |       |
| <b>CITIZEN R07</b>  |        |       |       |       |             |       |
| DH-CIT-R07/B/F8     | B      | 21.70 | 21    | 94.30 | 101E / F8   | X     |
| DH-CIT-R07/B/F10    | B      | 23.70 | 21    | 80    | 109E / F10  | X     |
| DH-CIT-R07/B/F13    | B      | 23.70 | 21    | 79.50 | 116E / F13  |       |
| DH-CIT-R07/B/F15    | B      | 23.70 | 21    | 79.50 | 120E / F15  | X     |
| DH-CIT-R07/B/F16    | B      | 23.70 | 21    | 79.50 | 1212E / F16 | X     |
| <b>ERGOMAT B60</b>  |        |       |       |       |             |       |
| DH-ERGO-B0/F66      |        | 88    | 74    | 138   | 185E / F66  | X     |

## DOUILLES

## DOUILLES PORTE-PINCES - 3



A = Broche principale  
B = Contre-broche  
X = Ecrou disponible



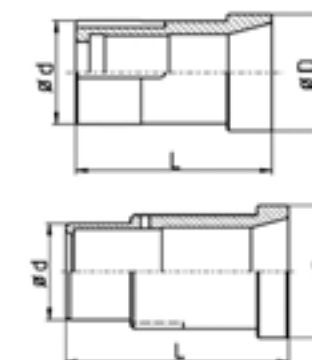
| Référence              | Broche | D       | d  | L      | Pince       | Ecrou |
|------------------------|--------|---------|----|--------|-------------|-------|
| FEINLER FA10           |        |         |    |        |             |       |
| DH-FEIN-FA10/F15       |        | 24      | 20 | 86     | 120E / F15  | X     |
| FEINLER FA15           |        |         |    |        |             |       |
| DH-FEIN-FA15/F22       |        | 37 / 32 | 27 | 61     | 140E / F22  | X     |
| GAUTHIER GM12 ; GM127  |        |         |    |        |             |       |
| DH-GAUT-GM12/F15       |        | 24      | 18 | 97.80  | 120E / F15  |       |
| GAUTHIER GM127         |        |         |    |        |             |       |
| DH-GAUT-GM127/F15      |        | 24      | 20 | 85     | 120E / F15  |       |
| GILDEMEISTER GD16      |        |         |    |        |             |       |
| DH-GILD-GD16/F20       |        | 30.60   | 26 | 76     | 136E / F20  |       |
| GILDEMEISTER GD25      |        |         |    |        |             |       |
| DH-GILD-GD25/F30       |        | 47 / 40 | 34 | 78.50  | 144E / F30  |       |
| GILDEMEISTER SPRINT 20 |        |         |    |        |             |       |
| DH-GILD-SPRINT20/F25   |        | 40/70   | 37 | 89.50  | 145E / F25  |       |
| GILDEMEISTER SPRINT 42 |        |         |    |        |             |       |
| DH-GILD-SPRINT42/A/F48 | A      | 65      | 57 | 118.60 | 173E / F48  |       |
| DH-GILD-SPRINT42/B/F48 | B      | 65      | 57 | 110.50 | 173E / F48  |       |
| HANWHA B12             |        |         |    |        |             |       |
| DH-HAN-B12/F16         |        | 24.50   | 23 | 89     | 1212E / F16 |       |
| HANWHA STL38H          |        |         |    |        |             |       |
| DH-HAN-STL38H/A/F48    | A      | 70      | 56 | 139.20 | 173E / F48  |       |
| DH-HAN-STL38H/B/F42    | B      | 58.80   | 52 | 137.10 | F42         |       |
| HANWHA ML26            |        |         |    |        |             |       |
| DH-HAN-ML26/F32        |        | 48 / 46 | 44 | 100.50 | 173E / F48  |       |
| INDEX 12               |        |         |    |        |             |       |
| DH-IND-12//F20         |        | 38      | 28 | 68     | 136E / F20  | X     |
| DH-IND-12//F22         |        | 38      | 28 | 68     | 140E / F22  | X     |
| INDEX 18               |        |         |    |        |             |       |
| DH-IND-18//F22         |        | 46      | 34 | 82     | 140E / F22  | X     |
| DH-IND-18//F28         |        | 46      | 34 | 82     | 148E / F28  | X     |

## DOUILLES

## DOUILLES PORTE-PINCES - 3



A = Broche principale  
B = Contre-broche  
X = Ecrou disponible



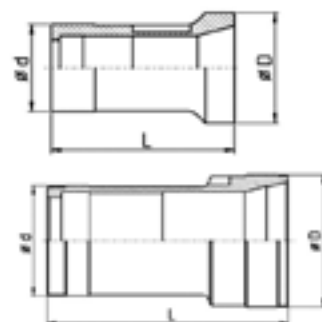
| Référence                         | Broche | D  | d  | L   | Pince      | Ecrou |
|-----------------------------------|--------|----|----|-----|------------|-------|
| INDEX 25                          |        |    |    |     |            |       |
| DH-INDE-25//F27                   |        | 52 | 42 | 82  | 147E / F27 | X     |
| DH-INDE-25//F28                   |        | 52 | 42 | 82  | 148E / F28 | X     |
| DH-INDE-25//F35                   |        | 52 | 42 | 82  | 162E / F35 | X     |
| INDEX 52                          |        |    |    |     |            |       |
| DH-INDE-52//F48                   |        | 94 | 74 | 108 | 173E / F48 | X     |
| DH-INDE-52//F66                   |        | 94 | 74 | 108 | 185E / F66 | X     |
| INDEX B30; C29; E26 ER26; INDEX24 |        |    |    |     |            |       |
| DH-INDE-B30/F28                   |        | 58 | 42 | 92  | 148E / F28 |       |
| DH-INDE-B30/F35/162E              |        | 58 | 42 | 92  | 162E / F35 |       |
| DH-INDE-B30/F35                   |        | 58 | 42 | 92  | 163E / F35 | X     |
| INDEX B42; 36; E42 ER42           |        |    |    |     |            |       |
| DH-INDE-B42/F32                   |        | 70 | 56 | 104 | 161E / F32 |       |
| DH-INDE-B42/F35                   |        | 70 | 56 | 104 | 163E / F35 | X     |
| DH-INDE-B42/F48                   |        | 70 | 56 | 104 | 173E / F48 | X     |
| INDEX B60; ER60; E60              |        |    |    |     |            |       |
| DH-INDE-B60/F48                   |        | 94 | 74 | 120 | 173E / F48 | X     |
| DH-INDE-B60/F66                   |        | 94 | 74 | 120 | 185E / F66 | X     |

## DOUILLES

### DOUILLES PORTE-PINCES - 4



A = Broche principale  
B = Contre-broche  
X = Ecou disponible



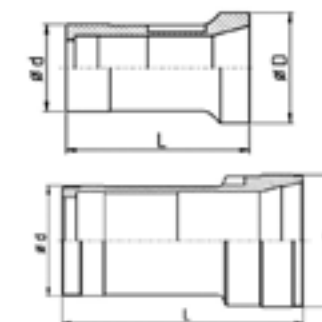
| Référence            | Broche | D  | d  | L      | Pince       | Ecou |
|----------------------|--------|----|----|--------|-------------|------|
| INDEX C19            |        |    |    |        |             |      |
| DH-INDE-C19/F28      |        | 48 | 34 | 82     | 148E / F38  | X    |
| INDEX DG12           |        |    |    |        |             |      |
| DH-INDE-DG12/F22     |        | 38 | 30 | 63.50  | 140E / F22  | X    |
| DH-INDE-DG12/F25     |        | 38 | 30 | 63.50  | 143E / F25  | X    |
| INDEX GSC65          |        |    |    |        |             |      |
| DH-INDE-GSC65/F66    |        | 94 | 80 | 163    | 185E / F66  |      |
| INDEX MS25           |        |    |    |        |             |      |
| DH-INDE-MS25/A/9039E | A      | 38 | 30 | 63.50  | 144E / F25  |      |
| DH-INDE-MS25/A/F25   | A      | 38 | 30 | 63.50  | 9039E / FSY |      |
| DH-INDE-MS25/B/9039E | B      | 38 | 30 | 73     | 144E / F25  |      |
| DH-INDE-MS25/B/F25   | B      | 38 | 30 | 73     | 9039E / FSY |      |
| INDEX ON12; OR12     |        |    |    |        |             |      |
| DH-INDE-ON12/F20     |        | 32 | 30 | 64     | 136E / F20  | X    |
| INDEX RN08           |        |    |    |        |             |      |
| DH-INDE-RN08/F17     |        | 28 | 24 | 64     | 125E / F17  |      |
| MAIER ML26           |        |    |    |        |             |      |
| DH-MAIE-ML26/A/F32   | A      | 48 | 46 | 101.20 | 161E / F32  |      |
| SAIC B30             |        |    |    |        |             |      |
| DH-SAIC-B30/F32      |        | 55 | 42 | 96     | 161E / F32  | X    |
| DH-SAIC-B30/F35      |        | 55 | 42 | 96     | 163E / F35  | X    |
| SCHERER FEINBAU PM1  |        |    |    |        |             |      |
| DH-SCHE-PM1/F22      |        |    |    |        | 140E / F22  |      |
| SPINNER PD42         |        |    |    |        |             |      |
| DH-SPIN-PD42/F48     |        | 66 | 55 | 120    | 173E / F48  | X    |
| SPINNER TC32         |        |    |    |        |             |      |
| DH-SPIN-TC32/F35     |        | 66 | 55 | 120    | 163E / F35  | X    |
| DH-SPIN-TC32/F38     |        | 53 | 45 | 128.40 | 164E / F38  | X    |
| STEINHAÜSSER STF26   |        |    |    |        |             |      |
| DH-STEI-STF16/F20    |        | 35 | 28 | 78     | 138E / F20  |      |
| STEINHAÜSSER STF42   |        |    |    |        |             |      |
| DH-STEI-STF36/F42    |        | 62 | 50 | 110    | 171E / F42  |      |

## DOUILLES

### DOUILLES PORTE-PINCES - 4



A = Broche principale  
B = Contre-broche  
X = Ecou disponible



| Référence               | Broche | D       | d  | L   | Pince      | Ecou |
|-------------------------|--------|---------|----|-----|------------|------|
| STROHM M105-125         |        |         |    |     |            |      |
| DH-STRO-M105/F15        |        | 24      | 20 | 86  | 120E / F15 |      |
| STROHM M125SJ           |        |         |    |     |            |      |
| DH-STRO-M125SJ/F15      |        | 27 / 24 | 20 | 86  | 120E / F15 |      |
| STROHM M205             |        |         |    |     |            |      |
| DH-STRO-M205/F25        |        | 40      | 35 | 100 | 145E / F25 |      |
| STROHM M255             |        |         |    |     |            |      |
| DH-STRO-M255/F25        |        | 45      | 38 | 110 | 145E / F25 |      |
| DH-STRO-M255/F30        |        | 45      | 38 | 110 | 157E / F30 |      |
| STROHM M4-5 ; TORNOS M4 |        |         |    |     |            |      |
| DH-STRO-M4/F8           |        | 15      | 12 | 66  | 101E / F8  |      |

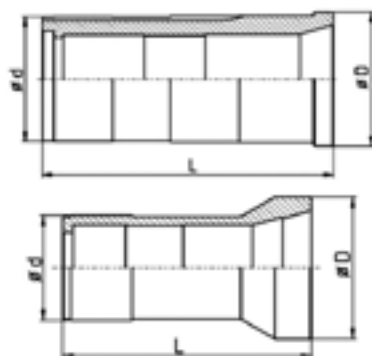


## DOUILLES

### DOUILLES PORTE-PINCES - 5



A = Broche principale  
B = Contre-broche  
X = Ecrou disponible



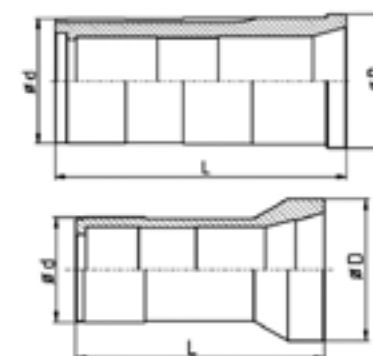
| Référence                 | Broche | D       | d  | L      | Pince       | Ecrou |
|---------------------------|--------|---------|----|--------|-------------|-------|
| <b>TORNOS DECO10</b>      |        |         |    |        |             |       |
| DH-TORN-DECO2000-10//F13  |        | 24 / 22 | 18 | 84.90  | 116E / F13  |       |
| <b>TORNOS DECO13</b>      |        |         |    |        |             |       |
| DH-TORN-DECO2000-13//136E |        | 30      | 30 | 91     | 136E / F20  | X     |
| <b>TORNOS DECO20</b>      |        |         |    |        |             |       |
| DH-TORN-DECO2000-20//F25  |        | 42 / 40 | 38 | 105    | 145E / F25  |       |
| DH-TORN-DECO2000-20//F30  |        | 44 / 40 | 38 | 110    | 1446E / F30 |       |
| <b>TORNOS DECO26</b>      |        |         |    |        |             |       |
| DH-TORN-DECO2000-26//F37  |        | 54      | 50 | 130    | 1536E / F37 |       |
| <b>TORNOS ENC164</b>      |        |         |    |        |             |       |
| DH-TORN-ENC164//136E      |        | 30      | 30 | 69     | 136E / F20  |       |
| <b>TORNOS ENC262/264</b>  |        |         |    |        |             |       |
| DH-TORN-ENC262/F30        |        | 44      | 42 | 105    | 1446E / F30 |       |
| <b>TORNOS M15</b>         |        |         |    |        |             |       |
| DH-TORN-M15//F20          |        | 32      | 28 | 95     | 138E / F20  |       |
| <b>TORNOS M20</b>         |        |         |    |        |             |       |
| DH-TORN-M20//F25          |        | 40      | 33 | 109.70 | 145E / F25  |       |
| <b>TORNOS MS7</b>         |        |         |    |        |             |       |
| DH-TORN-MS7//F13          |        | 24 / 22 | 18 | 85     | 116E / F13  |       |
| <b>TORNOS R10</b>         |        |         |    |        |             |       |
| DH-TORN-R10//F15          |        | 26      | 22 | 90     | 120E / F15  | X     |
| <b>TORNOS R16</b>         |        |         |    |        |             |       |
| DH-TORN-R16//F20          |        | 33      | 23 | 114    | 138E / F20  |       |
| <b>TORNOS SIGMA32</b>     |        |         |    |        |             |       |
| DH-TORN-SIGMA32/A/F37     | A      | 57 / 54 | 53 | 124    | 1536E / F37 |       |
| DH-TORN-SIGMA32/A/F42     | A      | 57 / 54 | 53 | 124    | 171E / F42  |       |
| <b>TORNOS T4</b>          |        |         |    |        |             |       |
| DH-TORN-ST4//F8           |        | 15      | 15 | 21     | 101E / F8   |       |
| <b>TRAUB A15</b>          |        |         |    |        |             |       |
| DH-TRAU-A15//F22          |        | 33      | 33 | 52     | 140E / F22  | X     |

## DOUILLES

### DOUILLES PORTE-PINCES - 5



A = Broche principale  
B = Contre-broche  
X = Ecrou disponible



| Référence              | Broche | D       | d  | L   | Pince      | Ecrou |
|------------------------|--------|---------|----|-----|------------|-------|
| <b>TRAUB A20</b>       |        |         |    |     |            |       |
| DH-TRAU-A20//F22       |        | 42      | 34 | 67  | 140E / F22 | X     |
| DH-TRAU-A20//F28       |        | 42      | 34 | 67  | 148E / F28 | X     |
| <b>TRAUB A25</b>       |        |         |    |     |            |       |
| DH-TRAU-A25//F22       |        | 52      | 37 | 96  | 140E / F22 | X     |
| DH-TRAU-A25//F32       |        | 52      | 37 | 96  | 161E / F32 | X     |
| <b>TRAUB A26</b>       |        |         |    |     |            |       |
| DH-TRAU-A26//F32       |        | 52      | 40 | 96  | 161E / F32 | X     |
| <b>TRAUB A36</b>       |        |         |    |     |            |       |
| DH-TRAU-A36//F42       |        | 63      | 52 | 116 | 171E / F42 |       |
| <b>TRAUB A42; TB42</b> |        |         |    |     |            |       |
| DH-TRAU-A42//F32       |        | 75 / 68 | 54 | 114 | 161E / F32 | X     |
| DH-TRAU-A42//F48       |        | 75 / 68 | 54 | 114 | 173E / F48 | X     |
| <b>TRAUB A60</b>       |        |         |    |     |            |       |
| DH-TRAU-A60//F48       |        | 93 / 86 | 74 | 114 | 173E / F48 | X     |
| DH-TRAU-A60//F66       |        | 93 / 86 | 74 | 114 | 185E / F66 | X     |
| <b>TRAUB TB60</b>      |        |         |    |     |            |       |
| DH-TRAU-TB60//F48      |        | 93 / 86 | 74 | 138 | 173E / F48 | X     |
| DH-TRAU-TB60//F66      |        | 93 / 86 | 74 | 138 | 185E / F66 | X     |
| <b>TRAUB TC15</b>      |        |         |    |     |            |       |
| DH-TRAU-TC15//F22      |        | 38      | 28 | 40  | 140E / F22 |       |
| <b>TRAUB TC16</b>      |        |         |    |     |            |       |
| DH-TRAU-TC16//F22      |        | 40      | 28 | 40  | 140E / F22 |       |
| <b>TRAUB TD26</b>      |        |         |    |     |            |       |
| DH-TRAU-TD26//F32      |        | 54      | 40 | 95  | 161E / F32 | X     |
| <b>TRAUB TD36</b>      |        |         |    |     |            |       |
| DH-TRAU-TD36//F32      |        | 68      | 50 | 115 | 161E / F32 | X     |
| <b>TRAUB TF60</b>      |        |         |    |     |            |       |
| DH-TRAU-TF60//F66      |        | 95      | 82 | 138 | 185E / F66 | X     |
| <b>TRAUB TNF60/140</b> |        |         |    |     |            |       |
| DH-TRAU-TNF60//F66     |        | 95      | 75 | 138 | 185E / F66 | X     |

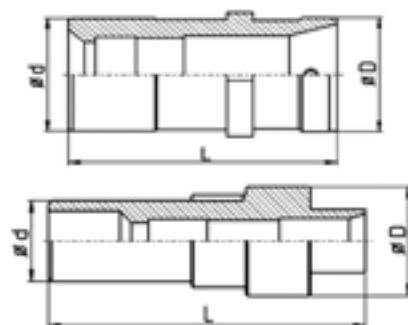


## DOUILLES

### DOUILLES PORTE-PINCES - 6



A = Broche principale  
B = Contre-broche  
X = Ecrou disponible



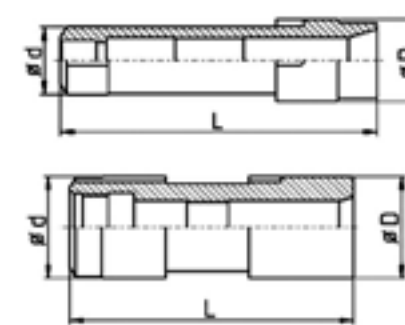
| Référence              | Broche | D       | d          | L      | Pince       | Ecrou |
|------------------------|--------|---------|------------|--------|-------------|-------|
| <b>TRAUB TNL12</b>     |        |         |            |        |             |       |
| DH-TRAU-TNL12/A/F15    | A      | 25      | 25         | 75     | 120E / F15  |       |
| DH-TRAU-TNL12/B/F15    | B      | 25      | 21         | 88     | 120E / F15  |       |
| DH-TRAU-TNL12//F16     |        | 25      | 25         | 75     | 1212E / F16 |       |
| <b>TRAUB TNL12/7</b>   |        |         |            |        |             |       |
| DH-TRAU-TNL127//136E   |        | 26.90   | 25         | 76     | 136E / F20  |       |
| <b>TRAUB TNL12/16</b>  |        |         |            |        |             |       |
| DH-TRAU-TNL12//F25     |        | 35      | 30         | 88     | 144E / F25  |       |
| <b>TRAUB TNL12K</b>    |        |         |            |        |             |       |
| DH-TRAU-TNL12K//F15    |        | 30      | 30         | 75     | 120E / F15  |       |
| DH-TRAU-TNL12K//F16    |        | 30      | 30         | 75     | 1212E / F16 |       |
| <b>TRAUB TNL16</b>     |        |         |            |        |             |       |
| DH-TRAU-TNL16//F20     |        | 35      | 30         | 88     | 138E / F20  |       |
| DH-TRAU-TNL16//F25     |        | 35      | 30         | 88     | 144E / F25  |       |
| <b>TRAUB TNL26</b>     |        |         |            |        |             |       |
| DH-TRAU-TNL26/A/F30    | A      | 54      | 45         | 122.20 | 157E / F30  |       |
| DH-TRAU-TNL26/B/F30    | B      | 46.50   | 50.50 / 46 | 92.80  | 157E / F30  |       |
| <b>TAUB TNS42</b>      |        |         |            |        |             |       |
| DH-TRAU-TNS42//F48     |        | 70      | 60         | 135    | 173E / F48  |       |
| DH-TRAU-TNS42//F58     |        | 70      | 60         | 135    | 177E / F58  |       |
| <b>TSUGAMI BS32</b>    |        |         |            |        |             |       |
| DH-TSUG-BS32//F37      |        | 47      | 45         | 129    | 1536E / F37 |       |
| <b>TSUGAMI HS207</b>   |        |         |            |        |             |       |
| DH-TSUG-HS207/B/F15v15 | B      | 38 / 32 | 28         | 111.10 | 120E / F15  | X     |
| DH-TSUG-HS207/B/F25    | B      | 38 / 32 | 28         | 92     | 145E / F25  | X     |

## DOUILLES

### DOUILLES PORTE-PINCES - 7



A = Broche principale  
B = Contre-broche  
X = Ecrou disponible



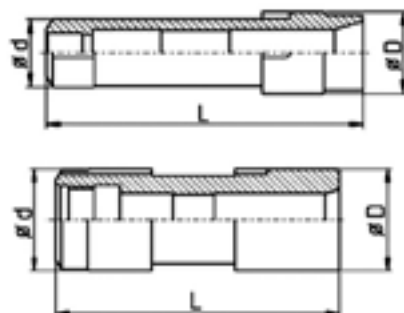
| Référence              | Broche | D     | d     | L      | Pince      | Ecrou |
|------------------------|--------|-------|-------|--------|------------|-------|
| <b>STAR SR10J</b>      |        |       |       |        |            |       |
| DH-STAR-SR10J/A/F8     | A      | 27    | 21    | 83     | 101E / F8  |       |
| DH-STAR-SR10J/A/F15    | A      | 27    | 21    | 83     | 120E / F15 |       |
| DH-STAR-SR10J/B/F8     | B      | 24    | 20    | 82.50  | 101E / F8  |       |
| DH-STAR-SR10J/B/F8v10  | B      | 24    | 20    | 92.50  | 101E / F8  |       |
| DH-STAR-SR10J/B/F10v15 | B      | 24    | 20    | 97.50  | 109E / F10 |       |
| DH-STAR-SR10J/B/F13    | B      | 24    | 20    | 81     | 116E / F13 |       |
| DH-STAR-SR10J/B/F13v10 | B      | 24    | 20    | 92.50  | 116E / F13 |       |
| DH-STAR-SR10J/B/F13v15 | B      | 24    | 20    | 97.50  | 116E / F13 |       |
| DH-STAR-SR10J/B/F15    | B      | 24    | 20    | 81     | 120E / F15 |       |
| <b>STAR SW7</b>        |        |       |       |        |            |       |
| DH-STAR-SW7/B/F7v15    | B      | 27    | 21    | 109    | 1010E / F7 |       |
| DH-STAR-SW7/B/F8       | B      | 27    | 21    |        | 101E / F8  |       |
| DH-STAR-SW7/B/F10v15   | B      | 27    | 21    | 109    | 109E / F10 |       |
| DH-STAR-SW7/B/F13v10   | B      | 27    | 21    |        | 116E / F13 |       |
| DH-STAR-SW7/B/F13v15   | B      | 27    | 21    |        | 116E / F13 |       |
| DH-STAR-SW7/B/F15      | B      | 27    | 21    | 90     | 120E / F15 |       |
| <b>STAR SA12</b>       |        |       |       |        |            |       |
| DH-STAR-SA12/A/F20     | A      | 42    | 34    | 87     | 138E / F20 |       |
| DH-STAR-SA12/A/F22     | A      | 42    | 34    | 87     | 140E / F22 |       |
| DH-STAR-SA12/A/F25     | A      | 42    | 34    | 87     | 144E / F25 |       |
| DH-STAR-SA12/B/F8v15   | B      | 31.50 | 31.50 | 105    | 101E / F8  |       |
| DH-STAR-SA12/B/F10v10  | B      | 31.50 | 31.50 | 99.70  | 109E / F10 |       |
| DH-STAR-SA12/B/F10v15  | B      | 31.50 | 31.50 | 104.70 | 109E / F10 |       |
| DH-STAR-SA12/B/F13v15  | B      | 31.50 | 31.50 | 105    | 116E / F13 |       |
| DH-STAR-SA12/B/F15     | B      | 31.50 | 31.50 | 88.50  | 120E / F15 |       |
| DH-STAR-SA12/B/F20     | B      | 31.50 | 31.50 | 87.50  | 138E / F20 |       |
| <b>STAR SV12</b>       |        |       |       |        |            |       |
| DH-STAR-SV12/A/F15     | A      | 39.50 | 34    | 93     | 120E / F15 |       |
| DH-STAR-SV12/A/F20     | A      | 39.50 | 34    | 93     | 138E / F20 |       |

## DOUILLES

### DOUILLES PORTE-PINCES - 7



A = Broche principale  
B = Contre-broche  
X = Ecrou disponible



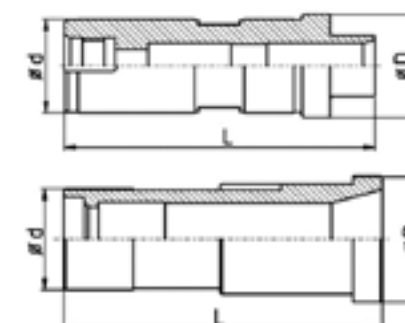
| Référence                | Broche | D     | d  | L     | Pince       | Ecrou |
|--------------------------|--------|-------|----|-------|-------------|-------|
| <b>STAR SB12R Type G</b> |        |       |    |       |             |       |
| DH-STAR-SB12RG/A/F10     | A      | 30.50 | 27 | 90    | 109E / F10  |       |
| DH-STAR-SB12RG/A/F15     | A      | 30.50 | 27 | 90    | 120E / F15  |       |
| DH-STAR-SB12RG/A/F16     | A      | 30.50 | 27 | 90    | 1212E / F16 |       |
| <b>STAR SW12R</b>        |        |       |    |       |             |       |
| DH-STAR-SW12R/B/F10v15   | B      | 29.50 | 27 | 90.50 | 109E / F10  |       |
| DH-STAR-SW12R/B/F15      | B      | 29.50 | 27 | 90.50 | 120E / F15  |       |
| DH-STAR-SW12R/B/F16      | B      | 29.50 | 27 | 90.50 | 1212E / F16 |       |
| <b>STAR RNC16</b>        |        |       |    |       |             |       |
| DH-STAR-RNC16/B/F20      | B      | 31    | 26 | 90    | 138E / F20  |       |
| DH-STAR-RNC16/B/F20v15   | B      | 31    | 26 | 105   | 138E / F20  |       |
| <b>STAR RNC16 alt.</b>   |        |       |    |       |             |       |
| DH-STAR-RNC16alt/B/F15   | B      | 25    | 24 | 90    | 120E / F15  |       |
| DH-STAR-RNC16alt/B/F18   | B      | 25    | 24 | 90    | 128E / F18  |       |

## DOUILLES

### DOUILLES PORTE-PINCES - 8



A = Broche principale  
B = Contre-broche  
X = Ecrou disponible



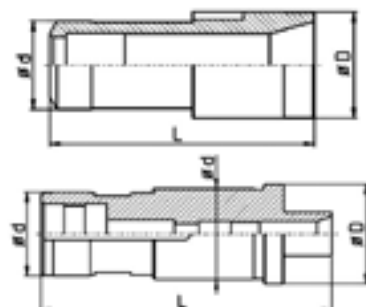
| Référence                      | Broche | D     | d       | L      | Pince       | Ecrou |
|--------------------------------|--------|-------|---------|--------|-------------|-------|
| <b>STAR ECAS12</b>             |        |       |         |        |             |       |
| DH-STAR-ECAS12/B/F8v15         | B      | 37.50 | 34      | 113.50 | 101E / F8   | X     |
| DH-STAR-ECAS12/B/F10v15        | B      | 37.50 | 34      | 113.50 | 109E / F10  | X     |
| DH-STAR-ECAS12/B/F15v15        | B      | 37.50 | 34      | 112.30 | 120E / F15  | X     |
| DH-STAR-ECAS12/B/F20           | B      | 37.50 | 34      | 96     | 138E / F20  | X     |
| <b>STAR SR16</b>               |        |       |         |        |             |       |
| DH-STAR-SR16/B/F20             | B      | 35    | 31      | 122    | 138E / F20  | X     |
| <b>STAR SR16R</b>              |        |       |         |        |             |       |
| DH-STAR-SR16R/B/F20            | B      | 42    | 35      | 101    | 138E / F20  | X     |
| <b>STAR SR20R I / II / III</b> |        |       |         |        |             |       |
| DH-STAR-SR20/A/F15             | A      | 43.40 | 38 / 34 | 114    | 120E / F15  | X     |
| DH-STAR-SR20/A/F16             | A      | 43.40 | 38 / 34 | 114    | 1212E / F16 | X     |
| DH-STAR-SR20/A/F20             | A      | 43.40 | 38 / 34 | 110    | 138E / F20  | X     |
| DH-STAR-SR20/A/F25             | A      | 43.40 | 38 / 34 | 110    | 144E / F25  | X     |
| DH-STAR-SR20/A/F27             | A      | 43.40 | 38 / 34 | 110    | 147E / F27  | X     |
| DH-STAR-SR20/B/F8v15           | B      | 42    | 35      | 121.50 | 101E / F8   | X     |
| DH-STAR-SR20/B/F10v15          | B      | 42    | 35      | 121.50 | 109E / F10  | X     |
| DH-STAR-SR20/B/F13v15          | B      | 42    | 35      | 121.50 | 116E / F13  | X     |
| DH-STAR-SR20/B/F15             | B      | 42    | 35      | 105    | 120E / F15  | X     |
| DH-STAR-SR20/B/F15v15          | B      | 42    | 35      | 120.30 | 120E / F15  | X     |
| DH-STAR-SR20/B/F15v8           | B      | 42    | 35      | 115.30 | 120E / F15  | X     |
| DH-STAR-SR20/B/138E            | B      | 42    | 35      | 101    | 138E / F20  | X     |
| DH-STAR-SR20/B/136E            | B      | 42    | 35      | 106    | 136E / F20  | X     |
| DH-STAR-SR20/B/F20v12          | B      | 42    | 35      | 116    | 138E / F20  | X     |
| DH-STAR-SR20/B/F25             | B      | 42    | 35      | 101    | 144E / F25  | X     |
| DH-STAR-SR20/B/F27             | B      | 42    | 35      | 101    | 147E / F27  | X     |
| DH-STAR-SR20/B/F27L            | B      | 42    | 35      | 103    | 147E / F27  | X     |
| <b>STAR SV20</b>               |        |       |         |        |             |       |
| DH-STAR-SV20/A/F15             | A      | 42    | 35      | 104    | 120E / F15  |       |
| DH-STAR-SV20/A/F20             | A      | 42    | 35      | 104    | 138E / F20  |       |
| DH-STAR-SV20/A/F25             | A      | 42    | 35      | 104    | 144E / F25  | X     |
| DH-STAR-SV20/A/F27             | A      | 42    | 35      | 104    | 147E / F27  | X     |
| <b>STAR SR20JN</b>             |        |       |         |        |             |       |
| DH-STAR-SR20JN/A/F10v8         | A      | 42    | 35      | 114    | 109E / F10  | X     |
| DH-STAR-SR20JN/A/F25           | A      | 42    | 35      | 101    | 144E / F25  | X     |
| DH-STAR-SR20JN/A/F27           | A      | 42    | 35      | 103    | 147E / F27  | X     |

## DOUILLES

### DOUILLES PORTE-PINCES - 9



A = Broche principale  
B = Contre-broche  
X = Ecrou disponible



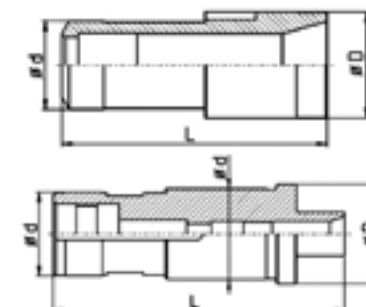
| Référence               | Broche | D     | d       | L      | Pince       | Ecrou |
|-------------------------|--------|-------|---------|--------|-------------|-------|
| STAR SR20RIV            |        |       |         |        |             |       |
| DH-STAR-SR20R4/A/F25    | A      | 43.50 | 38 / 35 | 107    | 145E / F25  | X     |
| DH-STAR-SR20R4/A/F27    | A      | 43.50 | 38 / 35 | 109    | 147E / F27  | X     |
| STAR SR20               |        |       |         |        |             |       |
| DH-STAR-SR20/A/F10v15   | A      | 42    | 35      | 122    | 109E / F10  | X     |
| DH-STAR-SR20/A/F25      | A      | 42    | 35      | 104.50 | 145E / F25  | X     |
| DH-STAR-SR20/A/F27      | A      | 42    | 35      | 104.50 | 147E / F27  | X     |
| STAR KJR25              |        |       |         |        |             |       |
| DH-STAR-KJR25/A/F30     | A      | 53    | 46      | 103    | 157E / F30  | X     |
| DH-STAR-KJR25/A/F35     | A      | 53    | 46      | 103    | 162E / F35  | X     |
| DH-STAR-KJR25/B/F30     | B      | 57    | 46 / 41 | 142    | 157E / F30  | X     |
| STAR ECAS20             |        |       |         |        |             |       |
| DH-STAR-ECAS20/B/F8v15  | B      | 41.50 | 38 / 35 | 122    | 101E / F8   | X     |
| DH-STAR-ECAS20/B/F10v15 | B      | 41.50 | 38 / 35 | 121.50 | 109E / F10  | X     |
| DH-STAR-ECAS20/B/F15v15 | B      | 41.50 | 38 / 35 | 120.80 | 120E / F15  | X     |
| DH-STAR-ECAS20/B/F16v15 | B      | 41.50 | 38 / 35 | 120.80 | 1212E / F16 | X     |
| DH-STAR-ECAS2/B/F20     | B      | 41.50 | 38 / 35 | 104.50 | 138E / F20  | X     |
| DH-STAR-ECAS2/B/F25     | B      | 41.50 | 38 / 35 | 101.50 | 145E / F25  | X     |
| DH-STAR-ECAS2/B/F27     | B      | 41.50 | 38 / 35 | 101.60 | 147E / F27  | X     |
| DH-STAR-ECAS2/B/F27L    | B      | 41.50 | 38 / 35 | 104.50 | 147E / F27  | X     |
| STAR SV32               |        |       |         |        |             |       |
| DH-STAR-SV32/A/F25      | A      | 56    | 48      | 140    | 145E / F25  |       |
| DH-STAR-SV32/A/F30      | A      | 56    | 48      | 140    | 1446E / F30 |       |
| DH-STAR-SV32/A/F37      | A      | 56    | 48      | 140    | 1356E / F37 | X     |
| DH-STAR-SV32/A/F40      | A      | 56    | 48      | 140    | F40         | X     |
| DH-STAR-SV32/B/F15v30   | B      | 55    | 51      | 157.10 | 120E / F15  |       |
| DH-STAR-SV32/B/F20v20   | B      | 55    | 51      | 148    | 138E / F20  |       |
| DH-STAR-SV32/B/F25      | B      | 55    | 51      | 125    | 145E / F25  |       |
| DH-STAR-SV32/B/F30      | B      | 55    | 51      | 129    | 1446E / F30 |       |
| DH-STAR-SV32/B/F37      | B      | 55    | 51      | 125    | 1356E / F37 | X     |
| DH-STAR-SV32/B/F40      | B      | 55    | 51      | 125    | F40         | X     |
| STAR SR32               |        |       |         |        |             |       |
| DH-STAR-SR32/A/F37      | A      | 56    | 48      | 136    | 1356E / F37 | X     |

## DOUILLES

### DOUILLES PORTE-PINCES - 9



A = Broche principale  
B = Contre-broche  
X = Ecrou disponible



| Référence            | Broche | D     | d          | L      | Pince       | Ecrou |
|----------------------|--------|-------|------------|--------|-------------|-------|
| STAR ST38            |        |       |            |        |             |       |
| DH-STAR- ST38/A/F37  | A      | 70    | 63.50 / 60 | 131.50 | 1536E / F37 | X     |
| DH-STAR- ST38/A/F42  | A      | 70    | 63.50 / 60 | 133    | F42         | X     |
| DH-STAR- ST38/A/F48  | A      | 70    | 63.50 / 60 | 133    | 173E / F48  | X     |
| DH-STAR- ST38/B/F37  | B      | 70    | 63.50 / 60 | 131.50 | 1536E / F37 | X     |
| DH-STAR- ST38/B/F42  | B      | 70    | 63.50 / 60 | 133    | F42         | X     |
| DH-STAR- ST38/B/F48  | B      | 70    | 63.50 / 60 | 133    | 173E / F48  | X     |
| STAR SV38R           |        |       |            |        |             |       |
| DH-STAR- SV38R/A/F37 | A      | 61.50 | 61.50      | 131.50 | 1536E / F37 |       |
| DH-STAR- SV38R/A/F48 | A      | 61.50 | 61.50      | 133    | 173E / F48  | X     |

## ÉCROUS

### ÉCROUS PORTE-PINCES - 1



A = Broche principale  
B = Contre-broche



| Référence                            | Broche | D  | G        | L  | Pince       |
|--------------------------------------|--------|----|----------|----|-------------|
| <b>CITIZEN B12</b>                   |        |    |          |    |             |
| MU-CIT-B12/A/F15                     | A      | 42 | M32x1.00 | 32 | 120E / F15  |
| MU -CIT-B12/A/F16                    | A      | 42 | M32x1.00 | 21 | 1212E / F16 |
| MU -CIT-B12/B/F10v10                 | B      | 42 | M32x1.00 | 35 | 109E / F10  |
| MU -CIT-B12/B/F13                    | B      | 42 | M32x1.00 |    | 116E / F13  |
| MU -CIT-B12/B/F15                    | B      | 42 | M32x1.00 | 25 | 120E / F15  |
| MU -CIT-B12/B/F16                    | B      | 42 | M32x1.00 | 25 | 1212E / F16 |
| <b>CITIZEN E16</b>                   |        |    |          |    |             |
| MU-CIT-E16/B/F25                     | B      | 66 | M50x1.50 | 42 | 145E / F25  |
| <b>CITIZEN E32</b>                   |        |    |          |    |             |
| MU-CIT-E32/A/F37                     | A      | 92 | M75x1.50 | 42 | 1536E / F37 |
| MU-CIT-E32/B/F37                     | B      | 80 | M70x1.50 | 43 | 1536E / F37 |
| <b>CITIZEN K12</b>                   |        |    |          |    |             |
| MU-CIT-K12/B/F10v15                  | B      | 48 | M40x1.50 | 47 | 109E / F10  |
| MU-CIT-K12/B/F13                     | B      | 48 | M40x1.50 | 32 | 116E / F13  |
| MU-CIT-K12/B/F15                     | B      | 48 | M40x1.50 | 32 | 120E / F15  |
| MU-CIT-K12/B/F15v15                  | B      | 48 | M40x1.50 | 47 | 120E / F15  |
| MU-CIT-K12/B/F16                     | B      | 48 | M40x1.50 | 32 | 1212E / F16 |
| MU-CIT-K12/B/F8v10                   | B      | 48 | M40x1.50 | 42 | 101E / F8   |
| <b>CITIZEN K16</b>                   |        |    |          |    |             |
| MU-CIT-K16/B/F20                     | B      | 48 | M40x1.50 | 32 | 138E / F20  |
| <b>CITIZEN L16VI/VII ; M20 ; L20</b> |        |    |          |    |             |
| MU-CIT-L16/A/F25                     | A      | 66 | M50x1.50 | 42 | 138E / F20  |
| <b>CITIZEN L16</b>                   |        |    |          |    |             |
| MU-CIT-L16/B/F15v                    | B      | 60 | M50x1.50 |    | 120E / F15  |
| MU-CIT-L16/B/F16v                    | B      | 60 | M50x1.50 |    | 1212E / F16 |
| MU-CIT-L16/B/F20                     | B      | 60 | M50x1.50 | 38 | 138E / F20  |
| MU-CIT-L16/B/F25                     | B      | 60 | M50x1.50 | 40 | 145E / F25  |
| <b>CITIZEN L16I</b>                  |        |    |          |    |             |
| MU-CIT-L16I/A/F25                    | A      | 60 | M50x1.50 | 55 | 145E / F25  |
| <b>CITIZEN L520VIII</b>              |        |    |          |    |             |
| MU-CIT-L520/A/F25                    | A      | 60 | M50x1.50 | 58 | 145E / F25  |
| MU-CIT-L520/B/F25                    | B      | 60 | M50x1.50 | 47 | 145E / F25  |
| <b>CITIZEN M12</b>                   |        |    |          |    |             |
| MU-CIT-M12/B/F13                     | B      | 45 | M35x1.50 |    | 116E / F13  |
| MU-CIT-M12/B/F15                     | B      | 45 | M35x1.50 | 32 | 120E / F15  |

## ÉCROUS

### ÉCROUS PORTE-PINCES - 1



A = Broche principale  
B = Contre-broche



| Référence            | Broche | D  | G        | L  | Pince       |
|----------------------|--------|----|----------|----|-------------|
| <b>CITIZEN M16</b>   |        |    |          |    |             |
| MU-CIT-M16/B/F10v15  | B      |    | M40x1.50 |    | 109E / F10  |
| MU-CIT-M16/B/F13     | B      |    | M40x1.50 |    | 116E / F13  |
| MU-CIT-M16/B/F16     | B      |    | M40x1.50 |    | 1212E / F16 |
| <b>CITIZEN M216</b>  |        |    |          |    |             |
| MU-CIT-M216/B/F13v15 | B      | 48 | M40x1.50 | 47 | 116E / F13  |
| MU-CIT-M216/B/F15    | B      | 48 | M40x1.50 |    | 120E / F15  |
| MU-CIT-M216/B/F15v15 | B      | 48 | M40x1.50 |    | 120E / F15  |
| MU-CIT-M216/B/F16v15 | B      | 48 | M40x1.50 |    | 1212E / F16 |
| MU-CIT-M216/B/F20    | B      | 48 | M40x1.50 | 32 | 138E / F20  |
| MU-CIT-M216/B/F22    | B      | 48 | M40x1.50 | 32 | 140E / F22  |

## ÉCROUS

### ÉCROUS PORTE-PINCES - 2



A = Broche principale  
B = Contre-broche



| Référence           | Broche | D     | G         | L     | Pince       |
|---------------------|--------|-------|-----------|-------|-------------|
| <b>CITIZEN M32</b>  |        |       |           |       |             |
| MU-CIT-M32/A/F37    | A      | 75    | M65x1.50  | 74    | 1536E / F37 |
| MU-CIT-M32/B/F37    | B      | 76    | M65x1.50  | 53    | 1536E / F37 |
| <b>CITIZEN M432</b> |        |       |           |       |             |
| MU-CIT-M432/A/F37   | A      | 80    | M70x1.50  | 74    | 1536E / F37 |
| MU-CIT-M432/A/F25   | A      | 80    | M70x1.50  |       | 145E / F25  |
| MU-CIT-M432/A/F20   | A      | 80    | M70x1.50  |       | 138E / F20  |
| MU-CIT-M432/B/F37   | B      | 80    | M70x1.50  | 74    | 1536E / F37 |
| MU-CIT-M432/B/F25   | B      | 80    | M70x1.50  |       | 145E / F25  |
| MU-CIT-M432/B/F20   | B      | 80    | M70x1.50  |       | 138E / F20  |
| <b>CITIZEN ML12</b> |        |       |           |       |             |
| MU-CIT-ML12/A/F13   | A      | 47    | M40x1.50  | 43.50 | 116E / F13  |
| MU-CIT-ML12/A/F15   | A      | 47    | M40x1.50  | 43.50 | 120E / F15  |
| MU-CIT-ML12/A/F16   | A      | 47    | M40x1.50  | 43.50 | 1212E / F16 |
| <b>CITIZEN R07</b>  |        |       |           |       |             |
| MU-CIT-R07/B/F8     | B      | 35    | M28x1.00  | 30    | 101E / F8   |
| MU-CIT-R07/B/F10    | B      | 35    | M28x1.00  | 30    | 109E / F10  |
| MU-CIT-R07/B/F13    | B      | 35    | M28x1.00  | 30    | 116E / F13  |
| MU-CIT-R07/B/F15    | B      | 35    | M28x1.00  | 30    | 120E / F15  |
| MU-CIT-R07/B/F16    | B      | 35    | M28x1.00  | 30    | 1212E / F16 |
| <b>FEINLER FA10</b> |        |       |           |       |             |
| MU-FEIN-FA10//F15   |        | 38    | M38x1.50  | 23    | 120E / F15  |
| <b>FEINLER FA15</b> |        |       |           |       |             |
| MU-FEIN-FA15//F22   |        | 46    | M40x1.50  | 26    | 140E / F22  |
| <b>INDEX 12</b>     |        |       |           |       |             |
| MU-IND-12//F20      |        | 64.50 | M52x2.00L | 31.50 | 136E / F20  |
| MU-IND-12//F22      |        | 64.50 | M52x2.00L | 31.50 | 140E / F22  |
| <b>INDEX 18</b>     |        |       |           |       |             |
| MU-IND-18//F22      |        | 68    | M58x2.00L | 31.50 | 140E / F22  |
| MU-IND-18//F28      |        | 68    | M58x2.00L | 31.50 | 148E / F28  |

## ÉCROUS

### ÉCROUS PORTE-PINCES - 2



A = Broche principale  
B = Contre-broche



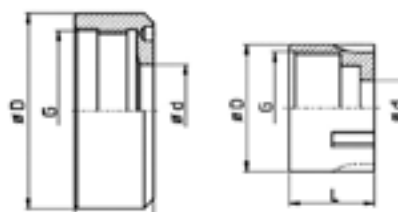
| Référence                   | Broche | D   | G          | L     | Pince      |
|-----------------------------|--------|-----|------------|-------|------------|
| <b>INDEX 24</b>             |        |     |            |       |            |
| MU-INDE-24//162E            |        | 88  | M74x2.00L  | 38.50 | 162E / F35 |
| MU-INDE-25//F28             |        | 88  | M74x2.00L  | 38.50 | 148E / F28 |
| MU-INDE-25//F35             |        | 88  | M74x2.00L  | 38.50 | 163E / F35 |
| <b>INDEX 25</b>             |        |     |            |       |            |
| MU-INDE-25//F27             |        | 72  | M63x2.00L  | 31.50 | 147E / F27 |
| MU-INDE-25//F28             |        | 72  | M63x2.00L  | 31.50 | 148E / F28 |
| MU-INDE-25//F35             |        | 72  | M63x2.00L  | 31.50 | 162E / F35 |
| <b>INDEX 52</b>             |        |     |            |       |            |
| MU-INDE-52//F48             |        | 117 | M108x2.00L | 41.50 | 173E / F48 |
| MU-INDE-52//F66             |        | 117 | M108x2.00L | 41.50 | 185E / F66 |
| <b>INDEX B30</b>            |        |     |            |       |            |
| MU-INDE-B30/F35             |        | 88  | M74x2.00L  | 38.50 | 163E / F35 |
| <b>INDEX B42; 36</b>        |        |     |            |       |            |
| MU-INDE-B42/F35             |        | 97  | M85x2.00L  | 38.50 | 163E / F35 |
| MU-INDE-B42/F48             |        | 97  | M85x2.00L  | 38.50 | 173E / F48 |
| <b>INDEX B60; ER60; E60</b> |        |     |            |       |            |
| MU-INDE-B60/F48             |        | 122 | M108x2.00L | 34    | 173E / F48 |
| MU-INDE-B60/F66             |        | 122 | M108x2.00L | 34    | 185E / F66 |

## ÉCROUS

### ÉCROUS PORTE-PINCES - 3



A = Broche principale  
B = Contre-broche



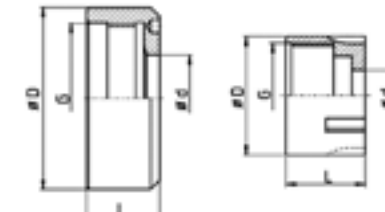
| Référence              | Broche | D     | G         | L  | Pince      |
|------------------------|--------|-------|-----------|----|------------|
| INDEX C19              |        |       |           |    |            |
| MU-INDE-C19/F28        |        | 73    | M63x2.00L | 34 | 148E / F28 |
| INDEX C29              |        |       |           |    |            |
| MU-INDE-C29/162E       |        | 84.50 | M74x2.00L | 35 | 162E / F35 |
| MU-INDE-C29/F28        |        | 84.50 | M74x2.00L | 35 | 148E / F28 |
| MU-INDE-C29/F35        |        | 84.50 | M74x2.00L | 35 | 163E / F35 |
| INDEX DG12             |        |       |           |    |            |
| MU-INDE-DG12/F22       |        | 62    | M52x2.00L | 23 | 140E / F22 |
| MU-INDE-DG12/F25       |        | 62    | M52x2.00L | 23 | 143E / F25 |
| INDEX E25-26 ; ER25-26 |        |       |           |    |            |
| MU-INDE-E25/F35        |        | 83    |           | 13 | 163E / F35 |
| INDEX E42 ; ER42       |        |       |           |    |            |
| MU-INDE-E42/F35        |        | 102   | M85x2.00L | 30 | 163E / F35 |
| MU-INDE-E42/F48        |        | 102   | M85x2.00L | 30 | 173E / F48 |
| INDEX E60 ; ER60       |        |       |           |    |            |
| MU-INDE-E60/F48        |        | 136   |           | 16 | 173E / F48 |
| MU-INDE-E60/F66        |        | 136   |           | 16 | 185E / F66 |
| INDEX ON12; OR12       |        |       |           |    |            |
| MU-INDE-ON12/F20       |        | 45    | M40x1.50L |    | 136E / F20 |
| SAIC B30               |        |       |           |    |            |
| MU-SAIC-B30/F32        |        | 79    | M66x3.00  | 39 | 161E / F32 |
| MU-SAIC-B30/F35        |        | 79    | M66x3.00  | 39 | 163E / F35 |
| SPINNER PD42           |        |       |           |    |            |
| MU-SPIN-PD42/F48       |        | 90    | M80x2.00  | 35 | 173E / F48 |
| SPINNER TC32           |        |       |           |    |            |
| MU-SPIN-TC32/F35       |        | 82    | M68x3.00  | 20 | 163E / F35 |
| MU-SPIN-TC32/F38       |        | 82    | M68x3.00  | 20 | 164E / F38 |

## ÉCROUS

### ÉCROUS PORTE-PINCES - 3



A = Broche principale  
B = Contre-broche

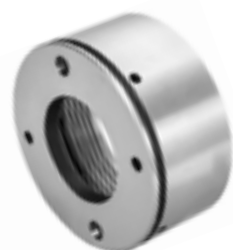


| Référence                 | Broche | D     | G           | L  | Pince       |
|---------------------------|--------|-------|-------------|----|-------------|
| STROHM M105-125           |        |       |             |    |             |
| MU-STRO-M105/F15          |        | 34    | M30x1.50    | 20 | 120E / F15  |
| STROHM M125SJ             |        |       |             |    |             |
| MU-STRO-M125SJ/F15        |        | 34    |             | 40 | 120E / F15  |
| STROHM M205               |        |       |             |    |             |
| MU-STRO-M205/F25          |        | 63    | M56x1.50    | 40 | 145E / F25  |
| STROHM M255               |        |       |             |    |             |
| MU-STRO-M255/F30          |        | 63    | M56x1.50    | 40 | 157E / F30  |
| TORNOS AS14               |        |       |             |    |             |
| MU-TORN-AS14/B/F16        | B      | 38    | M32x1.00L   | 15 | 1212E / F16 |
| TORNOS DECO13             |        |       |             |    |             |
| MU-TORN-DECO2000-13//136E |        | 45    | M40x1.50    | 30 | 136E / F20  |
| TRAUB A15                 |        |       |             |    |             |
| MU-TRAU-A15//F22          |        | 53    | M43.50x2.00 | 45 | 140E / F22  |
| TORNOS R10                |        |       |             |    |             |
| MU-TORN-R10//F15          |        | 37.50 | M33x1.25L   | 17 | 120E / F15  |
| TRAUB A20                 |        |       |             |    |             |
| MU-TRAU-A20//F22          |        | 63    | M52x3.00    | 39 | 140E / F22  |
| MU-TRAU-A20//F28          |        | 63    | M52x3.00    | 39 | 148E / F28  |
| TRAUB A25                 |        |       |             |    |             |
| MU-TRAU-A25//F22          |        | 72    | M62x2.50    | 39 | 140E / F22  |
| MU-TRAU-A25//F32          |        | 72    | M62x2.50    | 39 | 161E / F32  |
| TRAUB A26                 |        |       |             |    |             |
| MU-TRAU-A26//F32          |        | 72    | M62x2.50    | 39 | 161E / F32  |

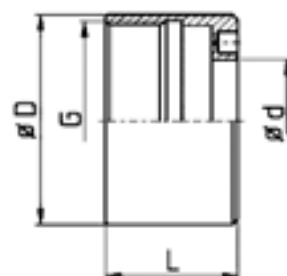


## ÉCROUS

### ÉCROUS PORTE-PINCES - 4



A = Broche principale  
B = Contre-broche



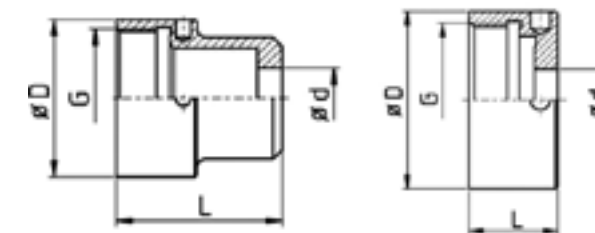
| Référence                    | Broche | D   | G        | L     | Pince      |
|------------------------------|--------|-----|----------|-------|------------|
| <b>TRAUB TNL16</b>           |        |     |          |       |            |
| MU-TRAU-TNL16//F20           |        | 50  |          | 30    | 138E / F20 |
| <b>TRAUB A42; TB42</b>       |        |     |          |       |            |
| DH-TRAU-A42//F32             |        | 91  | M80x3.00 | 46    | 161E / F32 |
| DH-TRAU-A42//F48             |        | 91  | M80x3.00 | 46    | 173E / F48 |
| <b>TRAUB A60</b>             |        |     |          |       |            |
| DH-TRAU-A60//F32             |        | 105 | M98x3.00 | 44.50 | 161E / F32 |
| DH-TRAU-A60//F48             |        | 105 | M98x3.00 | 44.50 | 173E / F48 |
| DH-TRAU-A60//F66             |        | 105 | M98x3.00 | 44.50 | 185E / F66 |
| <b>TRAUB TB60</b>            |        |     |          |       |            |
| DH-TRAU-TB60//F48            |        | 105 | M98x3.00 | 44.50 | 173E / F48 |
| DH-TRAU-TB60//F66            |        | 105 | M98x3.00 | 44.50 | 185E / F66 |
| <b>TRAUB TD26</b>            |        |     |          |       |            |
| DH-TRAU-TD26//F32            |        | 78  | M70x3.00 | 40    | 161E / F32 |
| <b>TRAUB TD26 avant 1976</b> |        |     |          |       |            |
| DH-TRAU-TD26anc//F32         |        | 78  | M70x3.00 | 40    | 161E / F32 |
| <b>TRAUB TD36</b>            |        |     |          |       |            |
| DH-TRAU-TD36//F32            |        | 86  | M80x3.00 | 40    | 161E / F32 |
| DH-TRAU-TD36//F42            |        | 86  | M80x3.00 | 40    | 171E / F42 |
| <b>TRAUB TD36 avant 1976</b> |        |     |          |       |            |
| DH-TRAU-TD36anc//F32         |        | 86  | M80x3.00 | 40    | 161E / F32 |
| DH-TRAU-TD36anc//F42         |        | 86  | M80x3.00 | 40    | 171E / F42 |
| <b>TRAUB TNF60/140</b>       |        |     |          |       |            |
| DH-TRAU-TNF60//F66           |        | 140 |          | 22    | 185E / F66 |
| <b>TAUB TNS42</b>            |        |     |          |       |            |
| DH-TRAU-TNS42//F48           |        | 130 |          | 23    | 173E / F48 |
| DH-TRAU-TNS42//F58           |        | 130 |          | 23    | 177E / F58 |
| <b>TSUGAMI HS207</b>         |        |     |          |       |            |
| DH-TSUG-HS207/B/F15v15       | B      | 49  | M46x1.50 | 48    | 120E / F15 |
| DH-TSUG-HS207/B/F25          | B      | 49  | M46x1.50 | 31    | 145E / F25 |

## ÉCROUS

### ÉCROUS PORTE-PINCES - 5



A = Broche principale  
B = Contre-broche



| Référence                | Broche | D  | G        | L     | Pince       |
|--------------------------|--------|----|----------|-------|-------------|
| <b>STAR SR10J</b>        |        |    |          |       |             |
| MU-STAR-SR10J/A/F8       | A      | 42 | M36x1.50 | 23    | 101E / F8   |
| MU-STAR-SR10J/A/F15      | A      | 23 | M36x1.50 | 23    | 120E / F15  |
| MU-STAR-SR10J/B/F8       | B      | 35 | M31x1.50 | 18    | 101E / F8   |
| MU-STAR-SR10J/B/F8v10    | B      | 35 | M31x1.50 | 28    | 101E / F8   |
| MU-STAR-SR10J/B/F10v15   | B      | 35 | M31x1.50 | 33    | 109E / F10  |
| MU-STAR-SR10J/B/F13      | B      | 35 | M31x1.50 | 18    | 116E / F13  |
| MU-STAR-SR10J/B/F13v10   | B      | 35 | M31x1.50 | 29    | 116E / F13  |
| MU-STAR-SR10J/B/F13v15   | B      | 35 | M31x1.50 | 34    | 116E / F13  |
| MU-STAR-SR10J/B/F15      | B      | 35 | M31x1.50 | 18    | 120E / F15  |
| <b>STAR SW7</b>          |        |    |          |       |             |
| MU-STAR-SW7/B/F7v15      | B      | 42 | M36x1.50 | 42.50 | 1010E / F7  |
| MU-STAR-SW7/B/F8         | B      | 42 | M36x1.50 |       | 101E / F8   |
| MU-STAR-SW7/B/F8v        | B      | 42 | M36x1.50 |       | 101E / F8   |
| MU-STAR-SW7/B/F10v15     | B      | 42 | M36x1.50 | 44.50 | 109E / F10  |
| MU-STAR-SW7/B/F13v10     | B      | 42 | M36x1.50 |       | 116E / F13  |
| MU-STAR-SW7/B/F13v15     | B      | 42 | M36x1.50 |       | 116E / F13  |
| MU-STAR-SW7/B/F15        | B      | 42 | M36x1.50 | 27.50 | 120E / F15  |
| <b>STAR SA12</b>         |        |    |          |       |             |
| MU-STAR-SA12/A/F20       | A      | 55 | M44X1.50 | 42    | 138E / F20  |
| MU-STAR-SA12/A/F22       | A      | 46 | M40x1.50 | 38    | 140E / F22  |
| MU-STAR-SA12/A/F25       | A      | 46 | M40x1.50 | 38    | 144E / F25  |
| MU-STAR-SA12/B/F8v15     | B      | 46 | M40x1.50 | 38    | 101E / F8   |
| MU-STAR-SA12/B/F10v10    | B      | 46 | M40x1.50 | 38    | 109E / F10  |
| MU-STAR-SA12/B/F10v15    | B      | 46 | M40x1.50 | 38    | 109E / F10  |
| MU-STAR-SA12/B/F13v15    | B      | 46 | M40x1.50 | 23    | 116E / F13  |
| MU-STAR-SA12/B/F15       | B      | 46 | M40x1.50 | 23    | 120E / F15  |
| MU-STAR-SA12/B/F20       | B      | 46 | M40x1.50 | 23    | 138E / F20  |
| <b>STAR SB12R Type G</b> |        |    |          |       |             |
| MU-STAR-SB12RG/A/F10     | A      | 44 | M38x1.50 | 35    | 109E / F10  |
| MU-STAR-SB12RG/A/F15     | A      | 44 | M38x1.50 | 35    | 120E / F15  |
| MU-STAR-SB12RG/A/F16     | A      | 44 | M38x1.50 | 35    | 1212E / F16 |

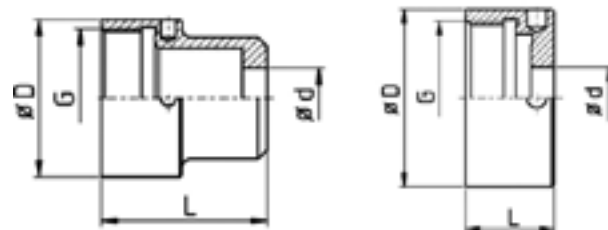


## ÉCROUS

### ÉCROUS PORTE-PINCES - 5



A = Broche principale  
B = Contre-broche



| Référence              | Broche | D    | G        | L  | Pince       |
|------------------------|--------|------|----------|----|-------------|
| <b>STAR SW12R</b>      |        |      |          |    |             |
| MU-STAR-SW12R/B/F10v15 | B      | 48   | M40x1.50 | 30 | 109E / F10  |
| MU-STAR-SW12R/B/F15    | B      | 48   | M40x1.50 | 30 | 120E / F15  |
| MU-STAR-SW12R/B/F16    | B      | 48   | M40x1.50 | 30 | 1212E / F16 |
| <b>STAR SB16</b>       |        |      |          |    |             |
| MU-STAR-SB16/A/F20     | A      | 49.5 | M44x1.50 | 40 | 138E / F20  |
| <b>STAR SV12</b>       |        |      |          |    |             |
| MU-STAR-SV12/A/F20     | A      | 55   | M45x1.50 | 38 | 138E / F20  |
| <b>STAR SST16</b>      |        |      |          |    |             |
| MU-STAR-SST16/A/F20    | A      | 55   | M44x1.50 | 42 | 138E / F20  |
| MU-STAR-SST16/B/F8v16  | B      | 50   | M44x1.50 | 46 | 101E / F8   |
| MU-STAR-SST16/B/F10v16 | B      | 50   | M44x1.50 | 46 | 109E / F10  |
| MU-STAR-SST16/B/F20    | B      | 50   | M44x1.50 | 30 | 138E / F20  |

## ÉCROUS

### ÉCROUS PORTE-PINCES - 6



A = Broche principale  
B = Contre-broche



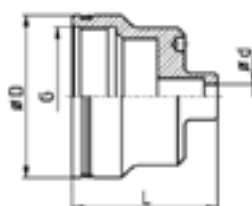
| Référence                      | Broche | D     | G        | L  | Pince       |
|--------------------------------|--------|-------|----------|----|-------------|
| <b>STAR RNC16</b>              |        |       |          |    |             |
| MU-STAR-RNC16/B/F20            | B      | 44    | M38x1.50 | 23 | 138E / F20  |
| MU-STAR-RNC16/B/F20v15         | B      | 44    | M38x1.50 | 38 | 138E / F20  |
| <b>STAR RNC16 alt.</b>         |        |       |          |    |             |
| MU-STAR-RNC16alt/A/144E        | A      | 44    | M38x1.50 | 23 | 144E / F25  |
| MU-STAR-RNC16alt/B/F15         | B      | 39.50 | M33x1.50 | 25 | 120E / F15  |
| MU-STAR-RNC16alt/B/F18         | B      | 39.50 | M33x1.50 | 25 | 128E / F18  |
| <b>STAR ECAS12</b>             |        |       |          |    |             |
| MU-STAR-ECAS12/B/F8v15         | B      | 55    | M45x1.50 | 53 | 101E / F8   |
| MU-STAR-ECAS12/B/F10v15        | B      | 55    | M45x1.50 | 54 | 109E / F10  |
| MU-STAR-ECAS12/B/F15v15        | B      | 55    | M45x1.50 | 53 | 120E / F15  |
| MU-STAR-ECAS12/B/F20           | B      | 55    | M45x1.50 | 38 | 138E / F20  |
| <b>STAR SR16R</b>              |        |       |          |    |             |
| MU-STAR-SR16R/B/F20            | B      | 59    | M50x1.00 | 41 | 138E / F20  |
| <b>STAR SB20RN</b>             |        |       |          |    |             |
| MU-STAR-SB20RN /B/F25          | A      | 59    | M50x1.00 | 41 | 145E / F25  |
| MU-STAR-SB20RN /B/F27          | B      | 59    | M50x1.00 | 39 | 147E / F27  |
| MU-STAR-SB20RN /B/F27L         | B      | 59    | M50x1.00 | 41 | 147E / F27  |
| <b>STAR SR20R I / II / III</b> |        |       |          |    |             |
| MU-STAR-SR20/A/F15             | A      | 67    | M50x1.50 | 40 | 120E / F15  |
| MU-STAR-SR20/A/F16             | A      | 67    | M50x1.50 | 40 | 1212E / F16 |
| MU-STAR-SR20/A/F20             | A      | 67    | M50x1.50 | 40 | 138E / F20  |
| MU-STAR-SR20/A/F25             | A      | 67    | M50x1.50 | 40 | 144E / F25  |
| MU-STAR-SR20/A/F27             | A      | 67    | M50x1.50 | 40 | 147E / F27  |
| MU-STAR-SR20/B/F8v15           | B      | 59    | M50x1.50 | 53 | 101E / F8   |
| MU-STAR-SR20/B/F8v15           | B      | 59    | M50x1.50 | 53 | 101E / F8   |
| MU-STAR-SR20/B/F10v15          | B      | 59    | M50x1.50 | 56 | 109E / F10  |
| MU-STAR-SR20/B/F13v15          | B      | 59    | M50x1.50 | 56 | 116E / F13  |
| MU-STAR-SR20/B/F15             | B      | 59    | M50x1.50 | 41 | 120E / F15  |
| MU-STAR-SR20/B/F15v15          | B      | 59    | M50x1.50 | 56 | 120E / F15  |
| MU-STAR-SR20/B/F15v8           | B      | 59    | M50x1.50 | 49 | 120E / F15  |
| MU-STAR-SR20/B/136E            | B      | 59    | M50x1.50 | 41 | 136E / F20  |
| MU-STAR-SR20/B/F20             | B      | 59    | M50x1.50 |    | 138E / F20  |
| MU-STAR-SR20/B/F20v12          | B      | 59    | M50x1.50 |    | 138E / F20  |

## ÉCROUS

### ÉCROUS PORTE-PINCES - 7



A = Broche principale  
B = Contre-broche



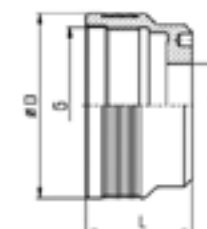
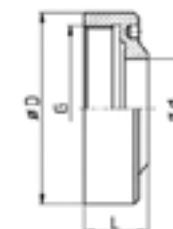
| Référence               | Broche | D  | G        | L  | Pince       |
|-------------------------|--------|----|----------|----|-------------|
| <b>STAR ECAS20</b>      |        |    |          |    |             |
| MU-STAR-ECAS20/B/F8v15  | B      | 59 | M50x1.50 | 54 | 101E / F8   |
| MU-STAR-ECAS20/B/F10v15 | B      | 59 | M50x1.50 | 54 | 109E / F10  |
| MU-STAR-ECAS20/B/F15v15 | B      | 59 | M50x1.50 | 54 | 120E / F15  |
| MU-STAR-ECAS20/B/F16v15 | B      | 59 | M50x1.50 | 54 | 1212E / F16 |
| MU-STAR-ECAS2/B/F20     | B      | 59 | M50x1.50 | 39 | 138E / F20  |
| MU-STAR-ECAS2/B/F25     | B      | 59 | M50x1.50 | 39 | 145E / F25  |
| MU-STAR-ECAS2/B/F27     | B      | 59 | M50x1.50 | 36 | 147E / F27  |
| MU-STAR-ECAS2/B/F27L    | B      | 59 | M50x1.50 | 39 | 147E / F27  |
| <b>STAR SV20</b>        |        |    |          |    |             |
| MU-STAR-SV20/A/F20      | A      | 67 | M56x1.50 | 28 | 138E / F20  |
| MU-STAR-SV20/A/F27      | A      | 67 | M56x1.50 | 28 | 147E / F27  |
| <b>STAR SR20JN</b>      |        |    |          |    |             |
| MU-STAR-SR20JN/A/F10v8  | A      | 67 | M56x1.50 | 28 | 109E / F10  |
| MU-STAR-SR20JN/A/F25    | A      | 67 | M56x1.50 | 28 | 144E / F25  |
| MU-STAR-SR20JN/A/F27    | A      | 67 | M56x1.50 | 28 | 147E / F27  |
| <b>STAR SR20RIV</b>     |        |    |          |    |             |
| MU-STAR-SR20R4/A/F25    | A      | 65 | M50x1.50 | 37 | 145E / F25  |
| MU-STAR-SR20R4/A/F27    | A      | 65 | M50x1.50 | 37 | 147E / F27  |
| <b>STAR SR20</b>        |        |    |          |    |             |
| MU-STAR-SR20/A/F10v15   | A      | 65 | M50x1.50 |    | 109E / F10  |
| MU-STAR-SR20/A/F25      | A      | 64 | M56x1.50 | 40 | 145E / F25  |
| MU-STAR-SR20/A/F27      | A      | 64 | M56x1.50 |    | 147E / F27  |
| MU-STAR-SR20/B/F8v12    | B      | 59 | M50x1.50 | 53 | 101E / F8   |
| MU-STAR-SR20/B/F10v15   | B      | 59 | M50x1.50 | 56 | 109E / F10  |
| MU-STAR-SR20/B/F13v15   | B      | 59 | M50x1.50 | 56 | 116E / F13  |
| MU-STAR-SR20/B/F20v12   | B      | 59 | M50x1.50 | 53 | 138E / F20  |
| MU-STAR-SR20/B/F25      | B      | 59 | M50x1.50 | 41 | 145E / F25  |
| MU-STAR-SR20/B/F27      | B      | 59 | M50x1.50 | 41 | 147E / F27  |
| <b>STAR KJR25</b>       |        |    |          |    |             |
| MU-STAR-KJR25/A/F30     | A      | 72 | M60x1.00 | 52 | 157E / F30  |
| MU-STAR-KJR25/A/F35     | A      | 72 | M60x1.00 | 52 | 162E / F35  |
| MU-STAR-KJR25/B/F30     | B      | 64 | M56x1.00 | 34 | 157E / F30  |

## ÉCROUS

### ÉCROUS PORTE-PINCES - 8



A = Broche principale  
B = Contre-broche



| Référence                | Broche | D   | G        | L    | Pince       |
|--------------------------|--------|-----|----------|------|-------------|
| <b>STAR SV32</b>         |        |     |          |      |             |
| MU-STAR-SV32/A/F37       | A      | 90  | M76x1.50 | 35   | 1356E / F37 |
| MU-STAR-SV32/A/F40       | A      | 85  | M62x1.50 | 40   | F40         |
| MU-STAR-SV32/B/F25       | B      | -   | -        |      | 145E / F25  |
| MU-STAR-SV32/B/F37       | B      | 73  | M62x1.00 | 43   | 1356E / F37 |
| MU-STAR-SV32/B/F40       | B      | 73  | M62x1.00 | 43   | F40         |
| <b>STAR ECAS32</b>       |        |     |          |      |             |
| MU-STAR- ECAS32/B/F20v23 | B      | 85  | M62x1.50 | 63   | 138E / F20  |
| MU-STAR- ECAS32/B/F37    | B      | 85  | M62x1.50 | 43   | 1356E / F37 |
| MU-STAR- ECAS32/B/F40    | B      | 85  | M62x1.50 | 40   | F40         |
| <b>STAR SR32JN</b>       |        |     |          |      |             |
| MU-STAR-SR32JN/A/F37     | A      | 81  | M70x1.50 | 27   | 1356E / F37 |
| MU-STAR-SR32JN/A/F40     | A      | 81  | M70x1.50 | 27   | F40         |
| <b>STAR KNC32</b>        |        |     |          |      |             |
| MU-STAR- KNC32/A/F37     | A      | 88  | M76x1.50 | 42   | 1536E / F37 |
| MU-STAR- KNC32/B/F25     | B      | 73  | M62x1.00 | 42   | F42         |
| MU-STAR- KNC32/B/F30     | B      | 73  | M62x1.00 | 42   | 173E / F48  |
| MU-STAR- KNC32/B/F37     | B      | 73  | M62x1.00 | 42   | 1536E / F37 |
| <b>STAR ST38</b>         |        |     |          |      |             |
| MU-STAR- ST38/A/F37      | A      | 105 | M85x1.50 | 46.5 | 1536E / F37 |
| MU-STAR- ST38/A/F42      | A      | 105 | M85x1.50 | 46.5 | F42         |
| MU-STAR- ST38/A/F48      | A      | 105 | M85x1.50 | 46.5 | 173E / F48  |
| MU-STAR- ST38/B/F37      | B      | 105 | M85x1.50 | 47.5 | 1536E / F37 |
| MU-STAR- ST38/B/F42      | B      | 105 | M85x1.50 | 47.5 | F42         |
| MU-STAR- ST38/B/F48      | B      | 105 | M85x1.50 | 47.5 | 173E / F48  |
| <b>STAR SV38R</b>        |        |     |          |      |             |
| MU-STAR- SV38R/A/F37     | A      |     |          |      | 1536E / F37 |
| MU-STAR- SV38R/A/F48     | A      |     |          |      | 173E / F48  |

## RESSORTS



D = Ø nominal  
d, L = dimensions approximatives

| Référence     | D  | L  | d    |
|---------------|----|----|------|
| DF07F 4.3-52  | 7  | 52 | 4.3  |
| DF14F 11-26   | 14 | 26 | 11   |
| DF15F 11.5-22 | 15 | 22 | 11.5 |
| DF15F 11.5-28 | 15 | 28 | 11.5 |
| DF15F 11.5-33 | 15 | 33 | 11.5 |
| DF16F 13.5-32 | 16 | 32 | 13.5 |
| DF16F 12.5-34 | 16 | 34 | 12.5 |
| DF18F 15.5-21 | 18 | 21 | 15.5 |
| DF18F 15-30   | 18 | 30 | 15   |
| DF18F 16-30   | 18 | 30 | 16   |
| DF20F 16-15   | 20 | 15 | 16   |
| DF20F 17-25   | 20 | 25 | 17   |
| DF20F 16.5-30 | 20 | 30 | 16.5 |
| DF20F 15.5-35 | 20 | 35 | 15.5 |
| DF20F 16.5-37 | 20 | 37 | 16.5 |
| DF20F 18-45   | 20 | 45 | 18   |
| DF21F 17-32   | 21 | 32 | 17   |
| DF22F 18.5-22 | 22 | 22 | 18.5 |
| DF22F 18.5-32 | 22 | 32 | 18.5 |
| DF22F 18.5-38 | 22 | 38 | 18.5 |
| DF24F 20.5-21 | 24 | 21 | 20.5 |
| DF24F 20-32   | 24 | 32 | 20   |
| DF25F 22-21   | 25 | 21 | 22   |
| DF25F 21.5-25 | 25 | 25 | 21.5 |
| DF25F 22-25   | 25 | 25 | 22   |
| DF25F 22-33   | 25 | 33 | 22   |
| DF25F 22-35   | 25 | 35 | 22   |
| DF25F 21-40   | 25 | 40 | 21   |
| DF25F 22-44   | 25 | 44 | 22   |
| DF25F 22-48   | 25 | 48 | 22   |
| DF25F 20.5-50 | 25 | 50 | 20.5 |
| DF27F 23-25   | 27 | 25 | 23   |
| DF27F 23-28   | 27 | 28 | 23   |
| DF27F 23-31   | 27 | 31 | 23   |
| DF27F 23-35   | 27 | 35 | 23   |
| DF27F 23-40   | 27 | 40 | 23   |
| DF27F 23-45   | 27 | 45 | 23   |
| DF27F 24-50   | 27 | 50 | 24   |
| DF28F 23-22   | 28 | 22 | 23   |

| Référence     | D  | L  | d    |
|---------------|----|----|------|
| DF28F 22.5-27 | 28 | 27 | 22.5 |
| DF28F 26-40   | 28 | 40 | 26   |
| DF29F 25-35   | 29 | 35 | 25   |
| DF30F 26.5-42 | 30 | 42 | 26.5 |
| DF32F 26-15   | 32 | 15 | 26   |
| DF32F 26.5-21 | 32 | 21 | 26.5 |
| DF32F 26-32   | 32 | 32 | 26   |
| DF32F 26.5-38 | 32 | 38 | 26.5 |
| DF34F 30-36   | 34 | 36 | 30   |
| DF34F 30-42   | 34 | 42 | 30   |
| DF34F 30-50   | 34 | 50 | 30   |
| DF35F 30-31   | 35 | 31 | 30   |
| DF35F 30-36   | 35 | 36 | 30   |
| DF37F 32.5-40 | 37 | 40 | 32.5 |
| DF37F 32-42   | 37 | 42 | 32   |
| DF37F 34-44   | 37 | 44 | 44   |
| DF37F 32-73   | 37 | 73 | 32   |
| DF37F 33.5-73 | 37 | 73 | 33.5 |
| DF38F 33-19   | 38 | 19 | 33   |
| DF38F 33-24   | 38 | 24 | 33   |
| DF38F 32-32   | 38 | 32 | 32   |
| DF38F 33-52   | 38 | 52 | 33   |
| DF38F 33-72   | 38 | 72 | 33   |
| DF40F 36-40   | 40 | 40 | 36   |
| DF40F 37.5-48 | 40 | 48 | 37.5 |
| DF40F 36-50   | 40 | 50 | 36   |
| DF40F 36-55   | 40 | 55 | 36   |
| DF40F 36-60   | 40 | 60 | 36   |
| DF40F 36.5-71 | 40 | 71 | 36.5 |
| DF41F 37-60   | 41 | 60 | 37   |
| DF42F 36.5-46 | 42 | 46 | 36.5 |
| DF46F 42-42   | 46 | 42 | 42   |
| DF47F 41.5-43 | 47 | 43 | 41.5 |
| DF48F 42-32   | 48 | 32 | 42   |
| DF48F 43-38   | 48 | 38 | 43   |
| DF48F 44-42   | 48 | 42 | 44   |
| DF48F 43-73   | 48 | 73 | 43   |
| DF65F 60-88   | 65 | 88 | 60   |
| DF66F 58-60   | 66 | 60 | 58   |

## 7 - CHIENS DE SERRAGE

## BECHET

| Référence | Type           | N° d'origine |
|-----------|----------------|--------------|
| CS100701  | RM / MAC 12-15 | 1268 Gc 77 a |
| CS100702  | RM / MAC 19-20 | 1968 G 807 c |
| CS100703  | RM / MAC 25    | 2564 G 21 b  |
| CS100705  | RM 3268        | 3268 Ge 23 c |

## BECHLER

| Référence | Type           | N° d'origine |
|-----------|----------------|--------------|
| CS100801  | AS 7-10 / AR10 | 3.1mm        |
| CS100802  | Axe 3h6 x 32   |              |
| CS100804  | AS 7-10 / AR10 | 4.1mm        |
| CS100805  | Axe 4h6 x 32   |              |
| CS100803  | BR20, BR12     | 441 335      |

## CITIZEN

| Référence | Type de machine                                    | Axe | N° d'origine   |
|-----------|----------------------------------------------------|-----|----------------|
| CS101016  | A32 News, A20                                      |     |                |
| CS101006  | B12 Contre broche                                  | 1   | B 12 U 50C416  |
| CS101014  | B12 Contre broche                                  | 5   | B 312 U53-413  |
| CS101005  | B12, BS20, K16 Broche principale                   | 2   | F 412 SC 117   |
| CS101012  | BS20, K16 Contre broche                            |     | B 20 U 50C111  |
| CS101005  | C 16, Broche / Contre broche                       | 2   |                |
| CS101005  | F12                                                | 2   | F 412 SC 117   |
| CS101013  | G16                                                |     |                |
| CS101002  | L16 E, L20 Broche principale (L = 73mm)            | 3   |                |
| CS101008  | L16/20 Contre broche, L10, L16/N broche principale | 4   | L 216 U41B 122 |
| CS101005  | L20 Broche / Contre broche                         | 2   | F 412 SC 117   |
| CS101007  | M20/32, L25, C32, A20                              | 3   |                |

## CITIZEN (Axe)

| Référence | Type           | N° d'origine |
|-----------|----------------|--------------|
| CS101010  | Axe 1 4m6 x 22 |              |
| CS101009  | Axe 2 6m6 x 40 |              |
| CS101004  | Axe 3 8m6 x 45 |              |
| CS101003  | Axe 4 4m5 x 30 |              |
| CS101015  | Axe 5 4h6 x 30 |              |

## FEINLER

| Référence | Type          | N° d'origine |
|-----------|---------------|--------------|
| CS101101  | FA 10-15, S 8 |              |
| CS100204  | Axe 6h6 x 36  |              |

## GILDEMEISTER

| Référence | Type          | N° d'origine    |
|-----------|---------------|-----------------|
| CS100611  | AA 48         | 343-10-213/53   |
| CS100615  | AA 67         | 355-10-2130/055 |
| CS100621  | AS 100        | 347-10-2130/000 |
| CS100600  | AS 12         |                 |
| CS100601  | AS 16-20      | 08.01.303       |
| CS100632  | AS 20 Spécial | 200.96.301      |
| CS100603  | AS 25         | 341-10-2130/001 |
| CS100604  | AS 32         | 342-10-2130/000 |
| CS100605  | AS 32         | 342-10-2130/001 |
| CS100606  | AS 32         | 342-10-2130/002 |
| CS100607  | AS 32         | 342-10-2130/003 |
| CS100608  | AS 48         | 343-10-2130/001 |
| CS100609  | AS 48         | 343-10-2130/002 |
| CS100610  | AS 48         | 343-10-2130/003 |
| CS100612  | AS 67         | 355-10-2130/001 |
| CS100613  | AS 67         | 355-10-2130/002 |
| CS100614  | AS 67         | 355-10-2130/051 |
| CS100630  | AS 82         | 327-10-2130/051 |
| CS100617  | AS/AV 82      | 327-10-2130/002 |
| CS100623  | AV 55         | AV 55-4469-2    |
| CS100625  | GM 16 AC      | 53.01.334-1189  |
| CS100628  | GM 16 AC      | 53.01.387-03    |

## GILDEMEISTER

| Référence | Type       | N° d'origine    |
|-----------|------------|-----------------|
| CS100631  | GM 35/32   | 35.01.130       |
| CS100642  | GM 42      | 40.01.113       |
| CS100626  | GS/GM 20   | 31.01.108       |
| CS100618  | GS 25/30   | 22.10.125       |
| CS100619  | GS 28-25/6 | 705-10-0017/001 |
| CS100620  | GS 35-50/6 | 703-10-0017/000 |

## GILDEMEISTER CNC

| Référence | Type                                      | N° d'origine |
|-----------|-------------------------------------------|--------------|
| CS100629  | GD 16, GD 20 Contre broche                | 55.10.107    |
| CS100646  | Gd 20 Broche principale                   | 55.10.227    |
| CS100645  | GD 32                                     | 56.10.129    |
| CS100629  | GLD 12-16                                 | 55.10.107    |
| CS100624  | GLD 20-25-32                              | 54.10.119    |
| CS100635  | GLD 20-25-32 Axe 7 x 42.5                 | 54.10.117    |
| CS100640  | GM 35/8, GMC 35                           | 42.01.293    |
| CS100641  | GMC 20 S                                  | 51.01.284    |
| CS100654  | GMC 42                                    | 57.01.299    |
| CS100643  | MSL                                       | 60.10.92     |
| CS100653  | MSL 42/60                                 | 94.10.123    |
| CS100633  | MSL 60/7                                  | 56.10.322    |
| CS100637  | Speed 12 Broche principale                | 20.10.136    |
| CS100636  | Speed 20 Broche principale/Contre broche  | 21.10.141    |
| CS100637  | Speed 20-8 Contre broche                  | 20.10.136    |
| CS100636  | Speed 20-8 Broche principale              | 21.10.141    |
| CS100636  | Sprint 20 Broche principale/Contre broche | 21.10.141    |
| CS100637  | Sprint 20 Contre broche                   | 20.10.136    |
| CS100658  | Speed/Sprint Axe 7 x 42.5                 |              |
| CS100624  | Sprint 32 linear                          | 54.10.254    |
| CS100633  | Sprint 32 linear                          | 56.10.322    |
| CS100651  | Sprint 32 linear Broche principale        | 26.10.196    |
| CS100655  | Sprint 32/42                              | 26.10.147    |
| CS100633  | Sprint 42 linear Contre broche            | 56.10.322    |
| CS100638  | Sprint 42 linear Broche principale        | 26.10.123    |
| CS100651  | Sprint 42 linear Broche principale        | 26.10.196    |
| CS100653  | Sprint 50 linear                          | 94.10.123    |

## HANWHA

| Référence | Type                                               | N° d'origine                     |
|-----------|----------------------------------------------------|----------------------------------|
| CS103385  | HANDEX 17                                          | BSS 3000-021<br>3170-M210-1060   |
|           | XD 20 ; SL 20 S ; SL 16<br>ML 20 Broche principale |                                  |
| CS103382  | HANEX 17                                           | NPS 7000-019<br>3184-S050-1091   |
|           | ML 12 Contre broche                                |                                  |
| CS103380  | HANEX 25                                           | SSS 7000-012<br>3192-M011-1080   |
|           | ML 20/26 ; XD20, 32 HPD                            |                                  |
|           | SL 26 S/H ; SL 32 S                                |                                  |
|           | SL 20/26/32/35HP 2                                 |                                  |
| CS103387  | HANEX 25                                           | SSS 3000-015<br>3173-M010-1140   |
|           | ML 26                                              |                                  |
|           | SL 26 S/H                                          |                                  |
|           | SL 32 S                                            |                                  |
|           | SL 20/26/32/35HP 2<br>32 HPD Broche principale     |                                  |
| CS103381  | SL 12 Broche principale                            | NPM 0100 S 113<br>3184-M010-1130 |
|           | XD 12 Broche principale                            |                                  |
| CS103386  | SL 12 Se/Sh Contre broche                          | BSS 7000 004<br>3224-S020-2200   |
|           | SL 16 Contre broche                                |                                  |
| CS103383  | STL 32J/H                                          | SST 11000-022                    |
|           | Broche principale / Contre broche                  |                                  |
| CS103392  | STL 38 H                                           | ST 11000-819                     |
| CS103391  | X 3 PJT                                            | PA 12000-011                     |
| CS103388  | XD 26 H Contre broche                              | DA 15000-005                     |
| CS103389  | XD 26 H Broche principale                          | SM 02026-001                     |
| CS103390  | XD 32 H                                            | CA 11000-013A                    |
|           | Broche principale / Contre broche                  |                                  |
| CS103384  | XP 12, ML12 Broche principale                      | XOS3000-015                      |

## INDEX

| Référence | Type                               | N° d'origine |
|-----------|------------------------------------|--------------|
| CS100301  | DG, ON, OR                         | AA1371       |
| CS100302  | A 12, ER 16                        | A33280       |
| CS100303  | C 16, A 25-18, ER 25, KR 30, GS 30 | A43280       |
| CS100304  | C 29                               | C29591       |
| CS100305  | B 30-24                            | A53283       |
| CS100306  | B 36-42-52-60                      | A73291       |

## MANURHIN

| Référence | Type                        | N° d'origine |
|-----------|-----------------------------|--------------|
| CS101401  | PF 16-22-25-32 TR           | 4882         |
| CS101406  | PF 25 Axe 7 x 48            |              |
| CS101402  | PF 42-36                    | 1770         |
| CS101403  | PF 60-80-52                 | 6298         |
| CS101404  | Combimat 42-60-80           |              |
| CS101407  | Douille de serrage Combimat | 330 767      |

## ORTLINGHAUS

| Référence | Type                 | N° d'origine |
|-----------|----------------------|--------------|
| CS103901  | 1-100-046-23-000-000 |              |
| CS103902  | 1-300-046-15-000-000 |              |
| CS103903  | 1-100-046-15-000     |              |
| CS103904  | 1-100-113-23-000-000 |              |
| CS103905  | 1-100-046-31-000-000 |              |
| CS103906  | 1-100-046-23-154-000 |              |
| CS103907  | 1-100-046-39-000     |              |
| CS103908  | 1-100-046-15-152-000 |              |
| CS103909  | 1-110-046-15-152-000 |              |
| CS103910  | 1-100-113-15-000-000 |              |

## PETERMANN

| Référence | Type de machine | Axe  | N° d'origine |
|-----------|-----------------|------|--------------|
| CS101016  | P4              |      |              |
| CS101006  | P7              |      |              |
| CS101014  | P7R             | 4 mm |              |
| CS100805  | P7R             | 5 mm |              |
| CS101012  | P3              |      |              |
| CS101005  | P16             |      |              |

## SCHAUBLIN

| Référence | Type                        | N° d'origine   |
|-----------|-----------------------------|----------------|
| CS103405  | 102/120 HP (B14/11.8/L62.2) | 0102-34012-000 |
| CS103046  | 120/316 (B14/11.8/L57.5)    | 0119-00316-000 |

## SCHÜTTE

| Référence | Type                             | N° d'origine    |
|-----------|----------------------------------|-----------------|
| CS101701  | SB 16 avec trou                  | SB 16 890 b     |
| CS101702  | SB 16                            | SB 16 890 d     |
| CS101703  | SB 22                            | V 22 R 890      |
| CS101704  | SB 30, SB 35                     | R 35 R 890      |
| CS101705  | SB 35                            | SB 35 890       |
| CS101706  | SB 42                            | SB 42 D 890 A   |
| CS101707  | AD 40                            | AD 40 D 390 A   |
| CS101708  | SD 425-32                        | VD 32 D 390 A   |
| CS101709  | SD 50-63-80                      | VD 63 D 390 A   |
| CS101710  | SD 89                            | VD 63 D 390 A/I |
| CS101711  | SE 16-18                         | SE 16 D 390 B   |
| CS101712  | SE 25-26                         | SE 25 D 390 A   |
| CS101713  | SF 13                            | C 3220-B-00 SZ  |
| CS101714  | SF 20                            | C 3220-B-11 SZ  |
| CS101715  | SF 26 A                          | C 3220-B-11 SL  |
| CS101716  | SF/AF 26-32                      | C 3220-A-23 Z   |
| CS101717  | SF 26-32                         | C 3220-B-23 Z   |
| CS101718  | SF/AF 26-32 N                    | C 3220-C-23 Z   |
| CS101719  | SF 40-42-51                      | C 3220-A-44 SZ  |
| CS101720  | SF/AF 42, SF 51                  | C 3220-B-45 Z   |
| CS101721  | SF/AF 67-81                      | C 3220-B-66 Z   |
| CS101722  | SF 81 / SF 67                    | C 3220-A-67 SZ  |
| CS101723  | SF 100                           | C 3220-77-SL    |
| CS101724  | SFH 160                          | C 3220-C-44 SF  |
| CS101725  | SF 26 L                          | C 3220-C-11 SL  |
| CS101726  | SG 18 / AG 20                    | B 3220-A-G ISZ  |
| CS101727  | SG 18 / AG 20<br>avec épaulement | B 3220-A-G ISZ  |



## SCHÜTTE CNC

| Référence | Type                             | N° d'origine   |
|-----------|----------------------------------|----------------|
| CS101741  | A 36 PC (NC)                     | C 3220-C-23 Z  |
| CS101726  | SG 18 / AG 20                    | B 3220-A-G ISZ |
| CS101727  | SG 18 / AG 20<br>avec épaulement | B 3220-A-G ISZ |

## SCHÜTTE CLUTCH

| Référence | Type      | N° d'origine   |
|-----------|-----------|----------------|
| CS101728  | SE 25     | SE 25-C-2538 A |
| CS101729  | SE 16     | SE 16-C-2538 A |
| CS101724  | SFH 160   | C 3220-C-44 SF |
| CS101743  | SFH 160   | C 3220-44-SF   |
| CS101740  | SF 20 DNT | D 3320-A 11F   |
| CS101738  | SF 20 DNT | C 3220-D-11 SZ |
| CS101742  | AD 40     | C 3320-A-55 Z  |

## STAR

| Référence  | Type         | Broche                           | N° d'origine   | Axe |
|------------|--------------|----------------------------------|----------------|-----|
| CS102651   | ECAS-20      | Broche principale/ Contre broche | 540-39-600/620 | 9   |
| CS102654   | ECAS-32T     | Broche principale                | 580-320-70     | 4   |
| CS102655   | ECAS-32T A48 | Contre broche                    | 580-840-70     | 4   |
| CS102601   | JNC 16       | Broche principale                | 025-32-060/080 | 3   |
| CS102602   | JNC 25/32    |                                  | 052-32-070/090 | 5   |
| CS102607/9 | KJR 16       | Broche principale                | 250-32-090/100 | 3   |
| CS102616   | KJR 16       | Contre broche                    | 252-32-070/090 | 2   |
| CS102622   | KJR 25       | Broche principale                | 260-32-070/090 | 4   |
| CS102622   | KJR 25       | Contre broche                    | 262-32-070/090 | 4   |
| CS102622   | KJR 25 II    | Broche principale                | 360-32-070/090 | 4   |
| CS102622   | KJR 25 II    | Contre broche                    | 362-32-080/100 | 4   |
| CS102615   | KNC 16/20    | Broche principale                | 222-32-070/090 | 4   |
| CS102606   | KNC 16/20    | Contre broche                    | 222-32-230/250 | 6   |
| CS102602   | KNC 25/32    | Broche principale                | 222-32-070/090 | 5   |
| CS102608   | KNC 25/32    | Contre broche                    | 222-32-230/250 | 6   |
| CS102602   | KNC 25/32 II | Broche principale                | 340-32-070/090 | 5   |
| CS102620   | KNC 32 II    | Contre broche                    | 342-32-231/250 | 6   |
| CS102607/9 | RNC 16       | Broche principale                | 210-32-060/080 | 3   |
| CS102610   | RNC 16       | Contre broche                    | 270-82-080/100 | 1   |
| CS102657   | RNC 16       | Depuis 2014                      | OEO-32-060     | 3   |
| CS102620   | RNC SR 32    | Contre broche                    | 342-32-231/250 | 6   |
| CS102607/9 | SA 16/12     | Broche principale                | 460-32-100/120 | 3   |
| CS102624   | SA 16/12     | Contre broche                    | 460-82-080/100 | 2   |

## STAR

| Référence  | Type            | Broche                           | N° d'origine    | Axe |
|------------|-----------------|----------------------------------|-----------------|-----|
| CS102651   | SA 16 R         | Broche principale                | 470-32-100      | 9   |
| CS102624   | SA 16 R         | Contre broche                    | 470-82-080      | 2   |
| CS10607/9  | SB 16           | Broche principale                | 460-32-100/120  | 3   |
| CS102624   | SB 16           | Contre broche                    | 480-82-0170     | 2   |
| CS102607/9 | SE/SH 16        | Broche principale                | 460-32-100/120  | 3   |
| CS102619   | SH 7            |                                  | 410-32-100/120  | 8   |
| CS102625   | SI 12           |                                  | XK72.9.150      | 10  |
| CS102601   | SNC 15          |                                  | 196-32-060/080  | 3   |
| CS102611   | SNC25           |                                  | 091-032-060/080 | 5   |
| CS102624   | SR 10 J         | Broche principale                | 460-82-080/100  | 2   |
| CS102625   | SR 10 J         | Contre broche                    | 690-83-070/090  | 10  |
| CS102607/9 | SR 16           | Broche principale                | 310-32-090/100  | 3   |
| CS102613   | SR 16           | Contre broche                    | 312-32-070/090  | 2   |
| CS102651   | SR16 R          |                                  | 549-39-100      | 9   |
| CS102606   | SR 20, SR 20 J  | Contre broche                    | 322-32-070/090  | 6   |
| CS102650   | SR 20 R         | Contre broche                    | 540-84-050/070  | 6   |
| CS102651   | SR 20 R         | Broche principale                | 540-39-600/620  | 9   |
| CS102650   | SR 20 RII + III | Contre broche                    | 660-84-050      | 6   |
| CS102651   | SR 20 RII + III | Broche principale                | 660-39-600      | 9   |
| CS102622   | SR 20/32        |                                  | 330-32-090/100  | 4   |
| CS102620   | SR 32           | Contre broche                    | 332-32-090/110  | 6   |
| CS102653   | SR 32 J         | Broche principale                | 670-320-090/110 | 6   |
| CS102607/9 | SST 16          |                                  | 210-32-060/080  | 3   |
| CS102607/9 | SST 16          | Broche principale                | 302-32-070/090  | 3   |
| CS102612   | SST 16          | Contre broche                    | OEO-32-060      | 2   |
| CS102657   | SST 16          | Broche principale depuis 2014    | 0B0-32-130/100  | 3   |
| CS102656   | ST 38           | Broche principale/ Contre broche | 450-32-100      | 11  |
| CS102651   | SV 12           | Broche principale                | 452-32-100/120  | 9   |
| CS102652   | SV 12           | Contre broche                    | 823-00          | 9   |
| CS102652   | SV 12           |                                  | 306             | 9   |
| CS102621   | SV 20           | Broche principale/ Contre broche | 420-32-060-080  | 4   |
| CS102622   | SV 32           | Broche principale 1              | 440-32-090      | 4   |



## STAR

| Référence | Type    | Broche              | N° d'origine   | Axe     |
|-----------|---------|---------------------|----------------|---------|
| CS102622  | SV 32   | Broche principale 2 | 430-32-090     | 4       |
| CS102623  | SV 32 J | Contre broche       | 442-32-090/110 | 6       |
| CS102619  | SW 7/R  | Broche principale   | 380-32-130/150 | 8       |
| CS102619  | SW 7/R  | Contre broche       | 382-32-110/130 | 8       |
| CS102615  | VNC 20  | Broche principale   | 750-32-060/080 | 4       |
| CS102616  | VNC 20  | Contre broche       | 749-21-180/190 | 2       |
| CS102602  | VNC 32  |                     | 780-32-060/080 | 5102619 |

## STAR (Axe)

| Référence | Type                  | Dimension   |
|-----------|-----------------------|-------------|
| CS112601  | Axe 1                 | 5 x 28.5    |
| CS112602  | Axe 2                 | 6 x 31      |
| CS112603  | Axe 3                 | 6 x 46      |
| CS112604  | Axe 4                 | 8 x 48      |
| CS112605  | Axe 5                 | 8 x 58      |
| CS112606  | Axe 6 avec épaulement | 8 x 36      |
| CS112608  | Axe 8                 | 6 x 34      |
| CS112609  | Axe 9                 | 8 x 50      |
| CS112610  | Axe 10                | 6h7 x 30.5  |
| CS112611  | Axe 11                | 12h7 x 46.5 |

## TORNOS

| Référence | Type                             | N° d'origine   |
|-----------|----------------------------------|----------------|
| CS100501  | AS 14 / SAS 16 Broche principale | 12 149         |
| CS100560  | Axe pour AS / SAS                | 004770 (Ø6x37) |
| CS100502  | AS 14 / SAS 16                   | 24 17          |
| CS100503  | TV, T 4                          | TV 45          |
| CS100504  | M 4                              | MF 3549        |
| CS100505  | M 4                              | MF 433         |
| CS100506  | M 4                              | MF 7817        |
| CS100507  | M 7                              | MD 265         |
| CS100508  | M 7 renforcé                     | MD 9705        |
| CS100509  | MS 7                             | MD 14103       |
| CS100510  | MS 7 arrêtage                    | MD 15825       |
| CS100511  | M 7                              | MD 15355       |
| CS100512  | M 10                             | MA 6469        |
| CS100513  | M 15                             | B 541          |
| CS100514  | M 20                             | J 51           |
| CS100515  | M 25                             | C 157          |
| CS100516  | R 10                             | 5 RA 87        |
| CS100517  | R 10 nouveau                     | 5 RA 87-06     |
| CS100518  | R 16                             | 5 RB 5031      |
| CS100519  | RR 20                            | RB 5105        |
| CS100525  | R 7                              | RD 4039        |
| CS100521  | M 7 avec stop                    | MA 4911        |
| CS100522  | RR 20-01                         | RB 5105-01     |
| CS100523  | NA 12, NA 153                    | 098 098        |
| CS100524  | G 85                             | MR 28-32       |

## TORNOS

| Référence | Type                  | N° d'origine |
|-----------|-----------------------|--------------|
| CS100520  | ENC 164               | 810 965      |
| CS100529  | BS 30                 | 045 397      |
| CS100530  | BS 20 8 SPR           | 096 900      |
| CS100550  | MTH unité de fraisage | 4/MT 359     |
| CS100551  | DELTA 12/14           |              |

TRAUB

| Référence | Type     | N° d'origine |
|-----------|----------|--------------|
| CS100101  | TA 15-16 |              |
| CS100102  | TA 25-26 |              |
| CS100103  | TA 42    |              |

TRAUB CNC

| Référence | Type              | N° d'origine |
|-----------|-------------------|--------------|
| CS100112  | TNL 16 (2 pièces) |              |
| CS100112  | TNS 26 (3 pièces) |              |
| CS100112  | TNC 30            |              |

TSUGAMI

| Référence | Type                                                                                                                                                                                                                                       | N° d'origine   |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| CS103326  | S 16<br>S 20 Contre broche                                                                                                                                                                                                                 | 3192-S030-1060 |
| CS103380  | NF 20/17 Contre broche                                                                                                                                                                                                                     | 3171-M011-1140 |
| CS103328  | HS 20 Broche principale<br>HS 207 Broche principale / Contre broche<br>BO 205E Broche principale / Contre                                                                                                                                  | 3262-M010-1301 |
| CS103380  | BS 12, BO 12 Broche principale<br>BS12-18, BO 12-18 Contre broche<br>BS 20 Broche principale<br>BS 20-26-32 Contre broche<br>HS 20-26-32 Contre broche<br>S 16/20 Broche principale<br>BN 20 Broche principale<br>HS 207 Broche principale | 3192-M011-1080 |
| CS103381  | B0 12 Broche principale                                                                                                                                                                                                                    | 3184-M010-1130 |
| CS103382  | NP 11 Contre broche<br>NP 17 Contre broche                                                                                                                                                                                                 | 3184-S050-1031 |
| CS103385  | NP 17 Broche principale<br>BS 18 Broche principale<br>B0 18 Broche principale                                                                                                                                                              | 3170-M210-1060 |
| CS103386  | BO/BS/BW/BN 12 (B=8mm)                                                                                                                                                                                                                     | 3224-S020-2200 |
| CS103387  | NP 20-32 Broche principale<br>BS 26-32 Broche principale<br>HS 26-32 Broche principale                                                                                                                                                     | 3173-M010-1140 |
| CS103387  | BS 32III/V, BS 26III/V                                                                                                                                                                                                                     | 3215-M050-1400 |
| CS103387  | BH 38E Broche principale / Contre broche<br>BU 38 Broche principale / Contre broche<br>TMU 1E Broche principale<br>BO 385E Broche principale / Contre<br>broche                                                                            | 3233-S020-0500 |



UNAMUNO

| Référence | Type     | N° d'origine |
|-----------|----------|--------------|
| CS101101  | TA 15-16 |              |
| CS100304  | TA 25-26 |              |
| CS100107  | TA 42    |              |

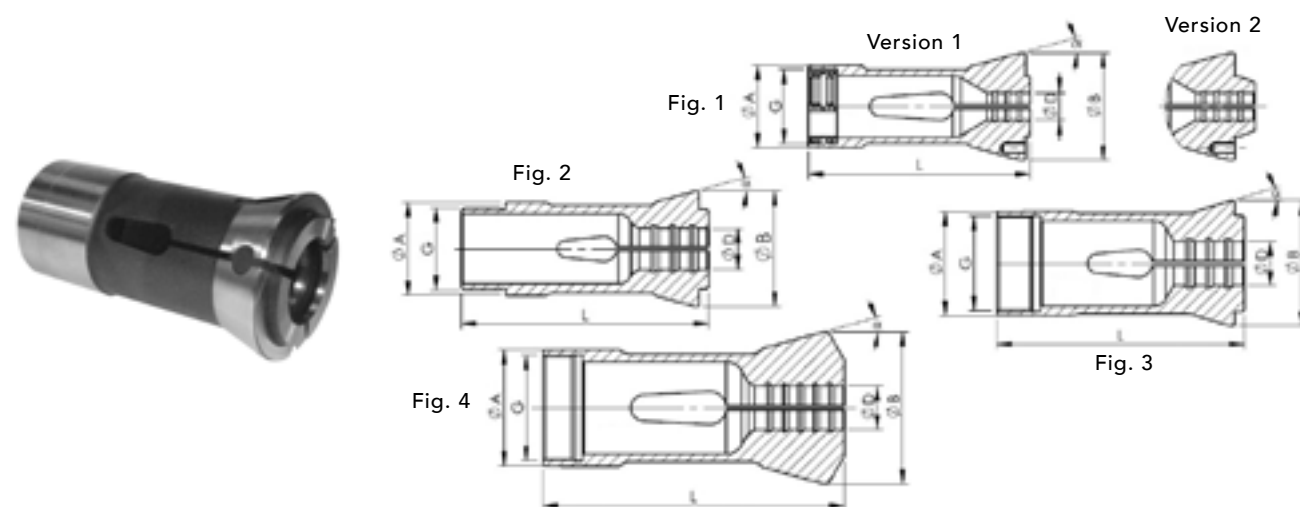
WICKMAN

| Référence | Type                   | N° d'origine    |
|-----------|------------------------|-----------------|
| CS103201  | 3 1/4"                 | 501 V 138 HA/38 |
| CS102202  | 2 1/4", 1 3/4", 1 3/8" | 301 V 104 0     |
| CS103205  | 2 1/4"                 | 3539 D          |
| CS103203  | 1"                     | 101 V 104 0     |
| CS103204  | 5/8"                   | 401 X 104 A     |

8 - MULTI-BROCHES

## GILDEMEISTER

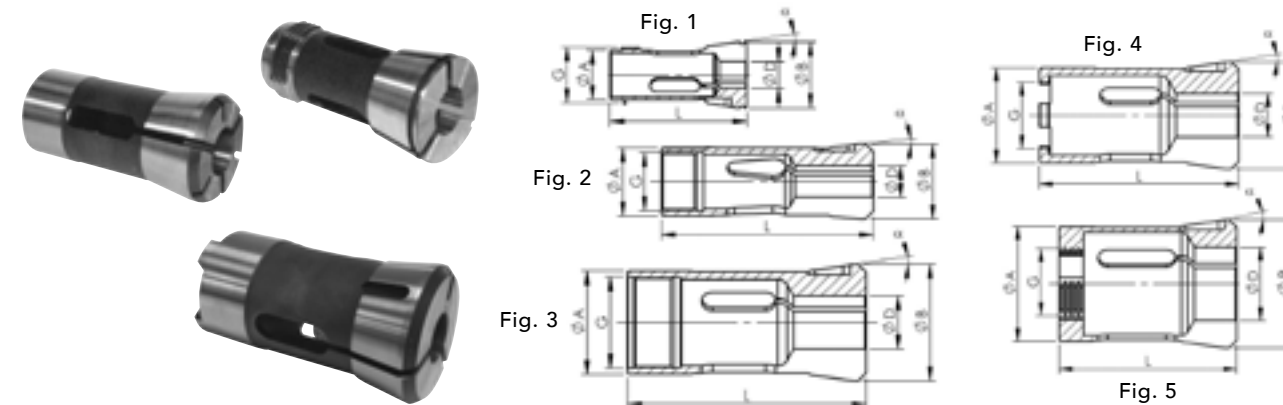
### PINCES DE SERRAGE



| Type                            | Référence | A  | B     | L    | G                   | $\alpha$ |    |    |    | Fig.        |
|---------------------------------|-----------|----|-------|------|---------------------|----------|----|----|----|-------------|
| GM16AC                          | GM16S     | 30 | 39    | 80.5 | Baïonnettes         | 15°      | 16 | 14 | 11 | 1 Version 1 |
| GM16AC                          | GM16S NL  | 30 | 39    | 86.5 | Baïonnettes         | 15°      | 14 | 12 | 10 | 1 Version 2 |
| AS16-20<br>GM20 GS20            | 9012E     | 34 | 42    | 90   | M30x100<br>gauche   | 16°      | 20 | 17 | 14 | 2           |
| AS20-25<br>GM20-25              | 9017E     | 38 | 45.5  | 90   | M34.5x100<br>gauche | 16°      | 25 | 22 | 17 | 3           |
| AS25                            | 9045E     | 45 | 60.4  | 165  | M40x100<br>gauche   | 15°      | 24 | 20 | 17 | 4           |
| GS25                            | 9046E     | 45 | 60.4  | 164  | M42x100<br>gauche   | 15°      | 25 | 21 | 17 | 2           |
| AS32 - GM32<br>GM35-6<br>GM35-8 | 9069E     | 53 | 69.4  | 137  | M48x150<br>gauche   | 15°      | 35 | 30 | 24 | 4           |
| GM42                            | 9100E     | 64 | 80.5  | 134  | M59x150<br>gauche   | 15°      | 42 | 36 | 29 | 4           |
| AA48 / AV48 / AS48              | 9132E     | 70 | 90.4  | 160  | M65x150<br>gauche   | 15°      | 48 | 42 | 34 | 4           |
| AA67 / AV67 / AS67              | 9178E     | 90 | 115.4 | 178  | M85x150<br>gauche   | 15°      | 67 | 58 | 47 | 4           |

## GILDEMEISTER

### PINCES DE CONTRE BROCHE



| Type                 | Référence | A    | B    | L    | G              | $\alpha$ |    |    |    | Fig. |
|----------------------|-----------|------|------|------|----------------|----------|----|----|----|------|
| GM16AC               | GM16PU    | 18.7 | 25   | 51.5 | Baïonnettes    | 8°       | 16 | 14 | 11 | 1    |
| AS16<br>AS GS GM20-6 | 9012PU    | 26   | 28.5 | 80   | M21.5x0.75     | 5°       | 20 | 17 | 14 | 2    |
| AS GS GM20/25        | 9012PUH   | 28   | 32   | 64   | M24x150 gauche | 8°       | 24 | 20 | 17 | 3    |
| AS25                 | 9045PU    | 30   | 35   | 63   | M20x150        | 15°      | 24 | 21 | 17 | 3    |
| GS25                 |           | 37   | 45   | 78   | M30x150        | 15°      | 32 | 28 | 22 | 3    |
| AS32 - GM32-GM35-6   | 9069PUV   | 39   | 44   | 90   | M34x150 gauche | 8°       | 32 | 27 | 22 | 3    |
| GM32 / GM35-6/GM35-8 | 9069PU    | 39   | 44   | 82   | Baïonnettes    | 8°       | 32 | 27 | 22 | 4    |
| GM42                 | 9100PU    | 47   | 52.5 | 73   | Baïonnettes    | 8°       | 42 | 36 | 29 | 5    |
| AA48 / AV48 / AS48   | 9132PU    | 42   | 55   | 91   | M28x150        | 15°      | 48 | 42 | 34 | 3    |

### PINCES D'AVANCE



| Type                 | Référence | A    | L   | G              |    |    |    |
|----------------------|-----------|------|-----|----------------|----|----|----|
| GM16                 | GM16A     | 22   | 86  | M20x100        | 16 | 13 | 11 |
| AS16-20<br>GM20 GS20 | 9258E     | 25   | 90  | M24x100        | 20 | 17 | 14 |
| AS20-25<br>GM20-25   | 9263E     | 30.5 | 90  | M28.5x0.75     | 25 | 22 | 17 |
| AS25                 | 9287E     | 33   | 140 | M30x100 gauche | 24 | 20 | 17 |
| GS25                 | 9289E     | 34.2 | 140 | M30x100        | 25 | 21 | 17 |
| AS32                 | 9316E     | 40   | 136 | M38x150 gauche | 32 | 27 | 22 |
| GM35-6 / GM35-8      | 9333E     | 41.2 | 132 | M39x100        | 35 | 30 | 24 |
| GM42                 | 9350E     | 51.4 | 136 | M48x150        | 42 | 36 | 29 |
| AA48 / AV48 / AS48   | 9368E     | 57   | 160 | M54x150 gauche | 48 | 41 | 34 |
| AA67 / AV67 / AS67   | 9447E     | 77.5 | 170 | M74x150 gauche | 67 | 58 | 47 |

## INDEX

### PINCES DE SERRAGE



Fig. 1

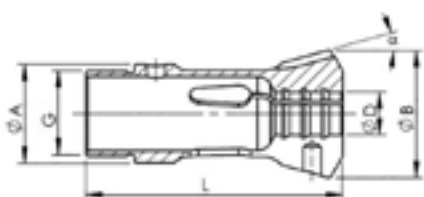
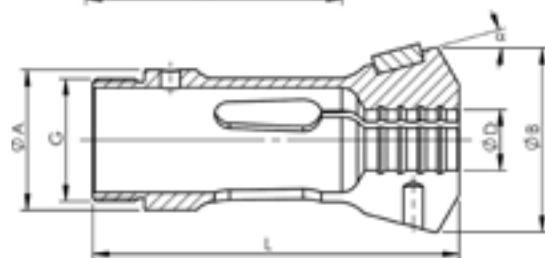


Fig. 2



| Type        | Référence | A  | B    | L     | G              | $\alpha$ |    |    |    | Fig. |
|-------------|-----------|----|------|-------|----------------|----------|----|----|----|------|
| MS16        | 9007E     | 32 | 41.5 | 84    | M28x100 gauche | 15°      | 16 | 14 | 11 | 1    |
| KS20 - KS22 | 9033E     | 40 | 55.2 | 105.5 | M35x150 gauche | 15°      | 14 | 12 | 10 | 1    |
| KS25 - MS25 | 9039E     | 46 | 60.3 | 120   | M40x150 gauche | 16°      | 20 | 17 | 14 | 2    |
| KS32        | 9070E     | 53 | 69   | 136   | M47x150 gauche | 16°      | 25 | 22 | 17 | 2    |
| KS42        | 9108E     | 62 | 82.4 | 180   | M58x150 gauche | 15°      | 24 | 20 | 17 | 2    |
| KS50        | 9133E     | 70 | 92   | 157   | M65x200 gauche | 15°      | 25 | 21 | 17 | 2    |

## INDEX

### PINCES DE CONTRE BROCHE



Fig. 1

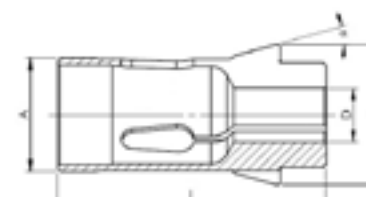
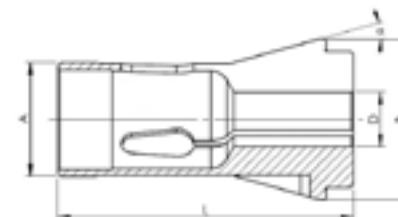
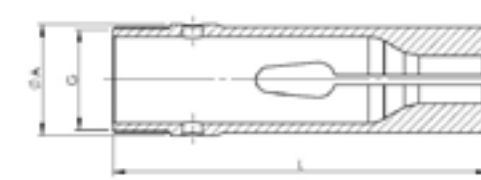


Fig. 2



| Type | Référence | A  | B    | L  | $\alpha$ |    |    |    | Fig. |
|------|-----------|----|------|----|----------|----|----|----|------|
| MS25 | 9039PU    | 25 | 31   | 59 | 15       | 21 | 18 | 14 | 1    |
| MS25 | 9039PUGM  | 25 | 35.4 | 65 | 15       | 25 | 21 | 17 | 2    |

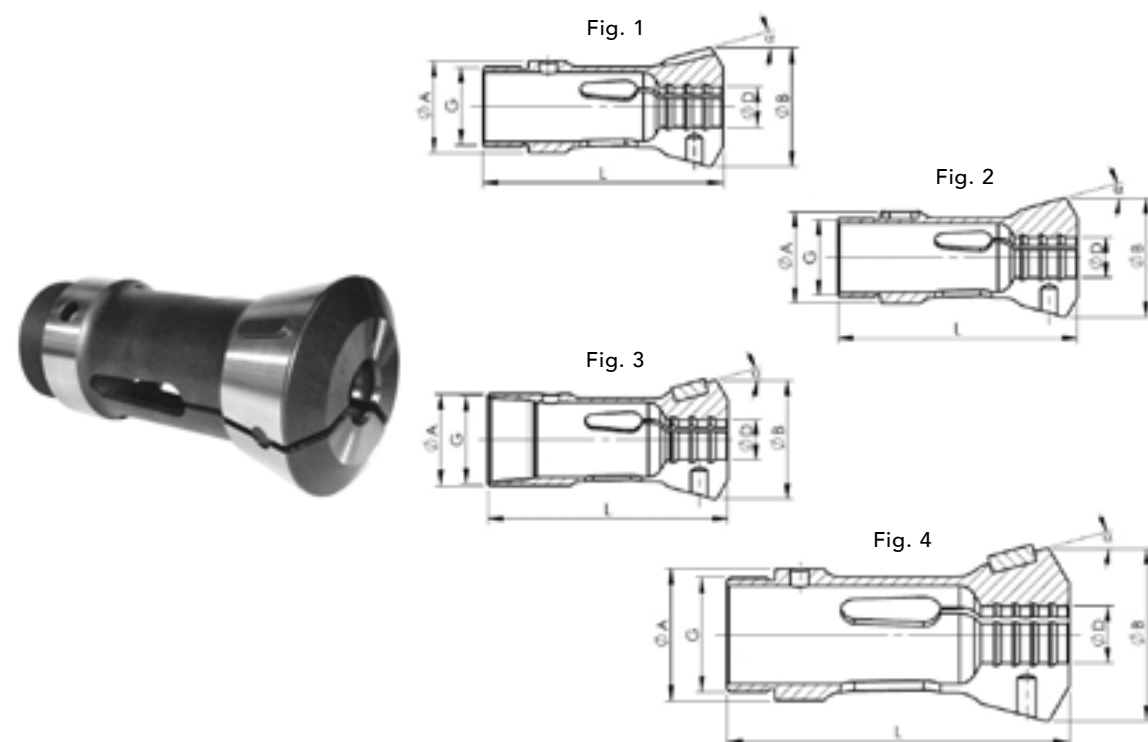
### PINCES D'AVANCE



| Type        | Référence | A    | L   | G              |    |    |    |
|-------------|-----------|------|-----|----------------|----|----|----|
| MS16        | 9255E     | 25   | 88  | M23x100        | 18 | 15 | 12 |
| KS20 - KS22 | 9273E     | 30.8 | 102 | M28x150        | 22 | 19 | 15 |
| KS25 - MS25 | 9282E     | 35   | 118 | M33x150        | 25 | 22 | 17 |
| KS32        | 9319E     | 41.8 | 130 | M38x150        | 32 | 28 | 23 |
| KS 42       | 9364E     | 54   | 170 | M50x100 gauche | 42 | 36 | 30 |
| KS50        | 9402E     | 60   | 156 | M57x100 gauche | 50 | 43 | 35 |

## SCHÜTTE

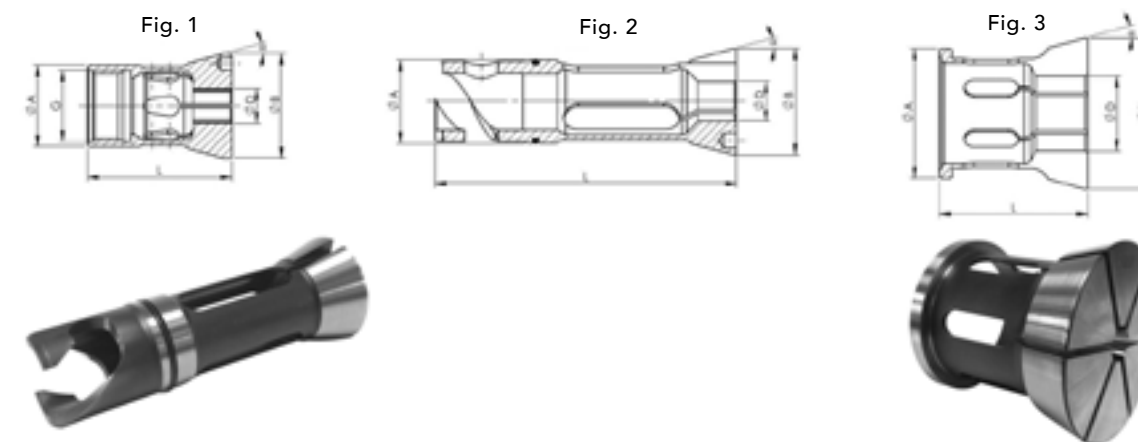
### PINCES DE SERRAGE



| Type                           | Référence | A  | B     | L   | G                             | α   | ●  | D  | ■  | Fig. |
|--------------------------------|-----------|----|-------|-----|-------------------------------|-----|----|----|----|------|
| SF12 - SF13                    | 9015E     | 25 | 36.1  | 75  | M22x100 gauche                | 15° | 13 | 11 | 9  | 2    |
| SE16 - SE18                    | 9007E     | 32 | 41.5  | 84  | M28x100 gauche                | 15° | 16 | 14 | 11 | 1    |
| SG18 - AG20                    | 9007E2    | 32 | 41.5  | 84  | M28x100 gauche                | 15° | 18 | 16 | 13 | 4    |
| SG18 - SG20                    | 9007E3    | 32 | 41.5  | 84  | M29x100 gauche<br>CONIQUE 1/8 | 15° | 32 | 28 | 23 | 3    |
| VD20 - SF20                    | 9016E     | 32 | 41.5  | 84  | M30x100 gauche                | 15° | 20 | 17 | 14 | 2    |
| SE25 - 2F25<br>AF26-SF26-S32PC | 9049E     | 46 | 60.3  | 120 | M40x150 gauche                | 15° | 26 | 23 | 18 | 4    |
| AF32 - SF32                    | 9070E     | 53 | 69.3  | 136 | M47x150 gauche                | 15° | 32 | 28 | 23 | 4    |
| AD40/SF40<br>AF42/SF42         | 9112E     | 63 | 78.3  | 157 | M56x150 gauche                | 15° | 42 | 36 | 29 | 4    |
| SD50 - SF51<br>AF51            | 9139E     | 75 | 97.8  | 187 | M68x150 gauche                | 15° | 51 | 44 | 36 | 4    |
| SD/SF/VD63                     | 9179E     | 90 | 115.3 | 212 | M82x150 gauche                | 15° | 63 | 54 | 44 | 4    |
| AF/SF67                        | 9187E     | 90 | 115.3 | 185 | M85x150 gauche                | 15° | 67 | 58 | 47 | 4    |

## SCHÜTTE

### PINCES DE CONTRE BROCHE



| Type        | Référence | A  | B    | L    | G                | α   | ●  | D  | ■  | Fig. |
|-------------|-----------|----|------|------|------------------|-----|----|----|----|------|
| SF12 - SF13 | 3380E     | 20 | 24   | 39   | M16x150 gauche   | 15° | 13 | 11 | 9  | 1    |
| SE16 - SE18 | 9007PU    | 25 | 35.1 | 58   | M18x150 gauche   | 15° | 18 | 15 | 12 | 1    |
| SF20        | 9016PU    | 28 | 36   | 50   | M24x150 gauche   | 15° | 20 | 17 | 14 | 1    |
| SG18 - AG20 | 9007E2PU  | 25 | 32.1 | 91.4 | Baïonnettes      | 15° | 20 | 15 | 12 | 2    |
| SE25 - SF26 | 9039PUSF  | 34 | 42   | 53   |                  | 15° | 26 | 22 | 18 | 3    |
| AF32 - SF32 | 9070PU    | 39 | 50.6 | 81   | M26 X 150 gauche | 15° | 33 | 28 | 23 | 1    |
| SF40 - SF42 | 9112PU    | 52 | 60.6 | 60   |                  | 15° | 40 | 34 | 28 | 3    |
| SF50 - SF51 | 9139PU    | 63 | 71.6 | 60   |                  | 15° | 51 | 44 | 36 | 3    |

### PINCES D'AVANCE

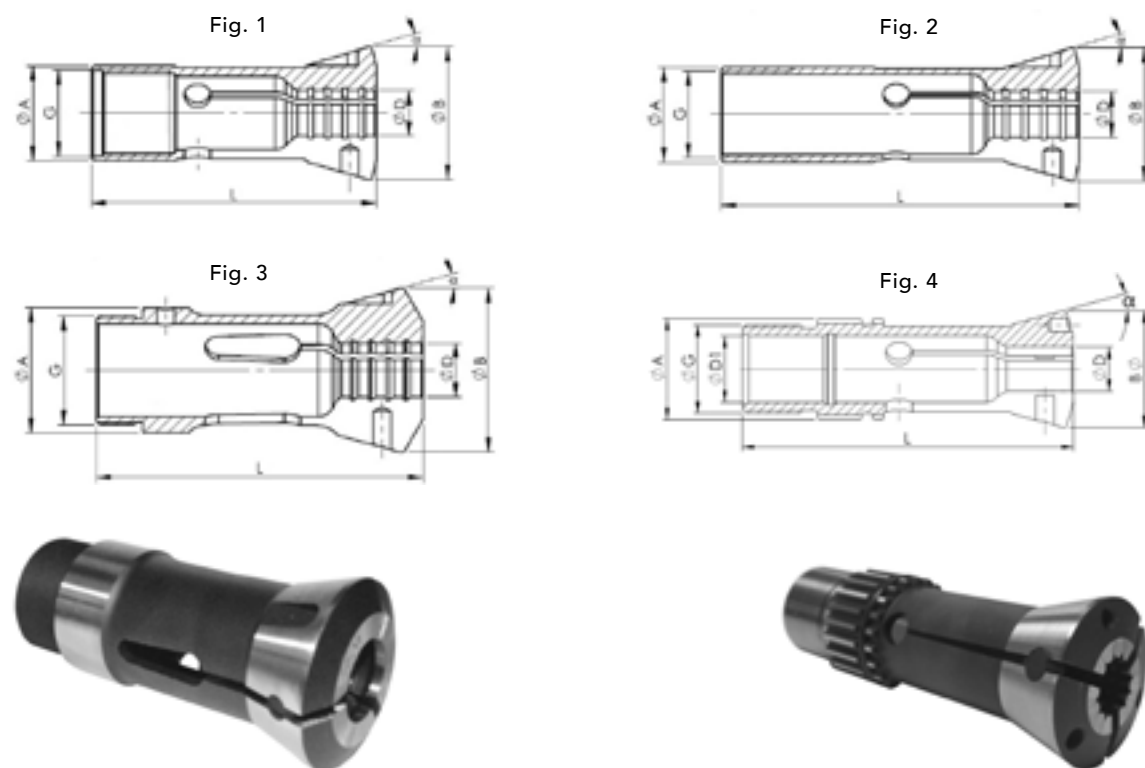


| Type                  | Référence | A    | L           | G              | ●  | D  | ■  |
|-----------------------|-----------|------|-------------|----------------|----|----|----|
| SF12 - SF13           | 9261E     | 19.6 | 77          | M18x100        | 13 | 11 | 9  |
| SE16 - SE18 - SG18    | 9255E     | 25   | 88          | M23x100        | 18 | 15 | 12 |
| SG20 - SF20 - VD20    | 9262E     | 27   | 88          | M25x100        | 20 | 17 | 14 |
| SE25 / AF26-SF26      | 9282E     | 35   | 118         | M33x150        | 26 | 22 | 18 |
| AF32 - SF32           | 9319E     | 41.8 | 130         | M38x150        | 32 | 28 | 23 |
| AD40/SF40 - AD42/SF42 | 9372E     | 51   | 172 - (Ø/2) | M48x150        | 42 | 36 | 29 |
| SF50 - SF51 / AF51    | 9406E     | 62   | 204 - (Ø/2) | M58x150        | 51 | 44 | 36 |
| SD/SF/VD63            | 9450E     | 77   | 198.5       | M72x150 gauche | 63 | 54 | 44 |
| AF/SF67               | 9456E     | 78   | 196         | M75x150 gauche | 67 | 58 | 47 |



## TORNOS

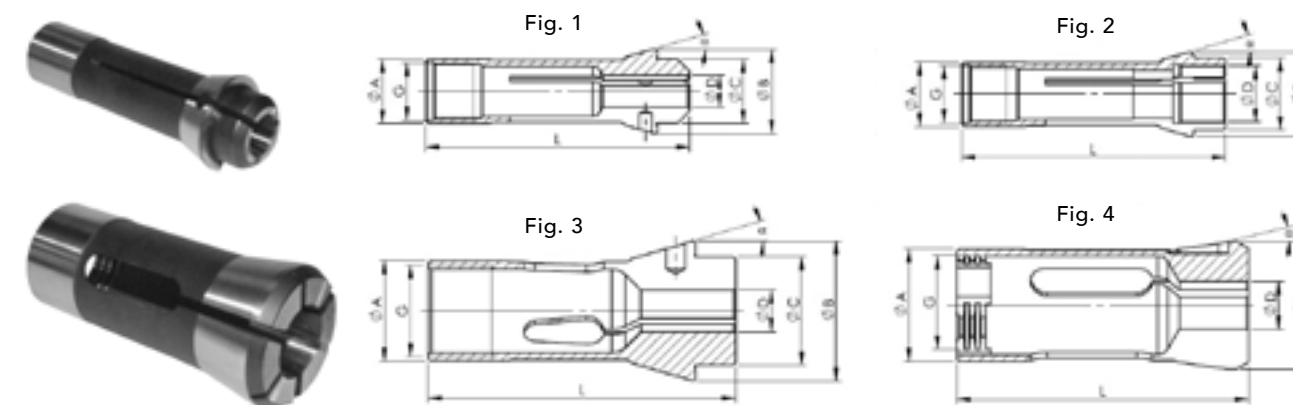
### PINCES DE SERRAGE



| Type                           | Référence | A  | B    | L   | G              | $\alpha$ | ●  | D  | ■  | Fig. |
|--------------------------------|-----------|----|------|-----|----------------|----------|----|----|----|------|
| AS14 - BS14                    | 9001E     | 25 | 35   | 75  | M22x100        | 15°      | 14 | 11 | 9  | 1    |
| MULTISWISS                     | MS6/14    | 23 | 26   | 75  | M20x100        | 15°      | 15 | 12 | 10 | 4    |
| SAS16                          | 9021E     | 25 | 35   | 94  | M25x100        | 15°      | 16 | 14 | 11 | 2    |
| BS20/22                        | 9018E     | 36 | 45   | 107 | M33x125        | 15°45'   | 20 | 17 | 16 | 1    |
| BS22                           | 9019E     | 35 | 45   | 107 | M33x100        | 15°30'   | 22 | 19 | 15 | 2    |
| MULTIDECO20/6<br>MULTIDECO20/8 | 9012ET    | 34 | 42   | 90  | M30x100 gauche | 16°      | 20 | 17 | 14 | 3    |
| MULTIDECO26/6<br>MULTIDECO26/8 | 9039ET    | 46 | 60.3 | 120 | M40x150 gauche | 15°      | 26 | 22 | 18 | 3    |
| MULTIDECO32/6                  | 9039ET    | 46 | 60.3 | 120 | M40x150 gauche | 15°      | 32 | 27 | 23 | 3    |
| SAS36                          | 9081ET    | 56 | 72.3 | 139 | M52x150 gauche | 15°      | 36 | 31 | 25 | 1    |

## TORNOS

### PINCES DE CONTRE BROCHE



| Type                           | Référence | A    | B  | C  | L  | G           | $\alpha$ | ●  | D  | ■  | Fig. |
|--------------------------------|-----------|------|----|----|----|-------------|----------|----|----|----|------|
| AS14-SAS16                     | 9001PU    | 16   | 21 | 16 | 66 | M14x0.75    | 15°      | 13 | 11 | 9  | 1    |
| AS14-SAS16                     | 9001PU    | 16   | 21 | 18 | 66 | M14x0.75    | 15°      | 16 | -  | -  | 2    |
| BS20 - BS22                    | 9020 PU   | 25   | 35 | 27 | 77 | M22x100     | 15°      | 18 | 15 | 12 | 3    |
| MULTIDECO20/6<br>MULTIDECO20/8 | 9012TPU   | 28   | 32 |    | 73 | Baïonnettes | 15°      | 20 | 17 | 14 | 4    |
| MULTIDECO26/6<br>MULTIDECO26/8 | 9039TPU   | 35.5 | 40 |    | 80 | Baïonnettes | 15°      | 20 | 15 | 12 | 4    |
| MULTIDECO32/6                  | 9039TPU   | 35.5 | 40 |    | 80 | Baïonnettes | 15°      | 26 | 22 | 18 | 4    |
| SAS36                          | 171E      | 42   | 55 | 42 | 94 |             | 15°      | 40 | 34 | 28 | 3    |

### PINCES D'AVANCE

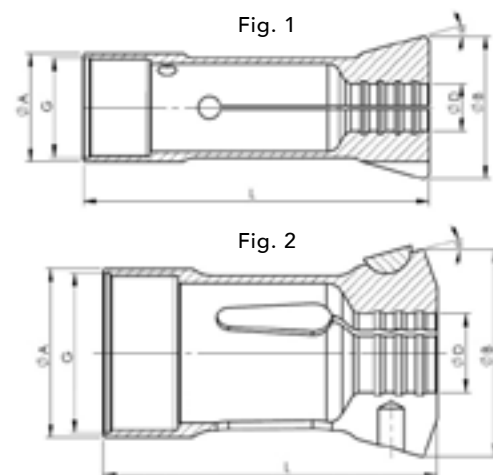


| Type                           | Référence | A    | L   | G              | ●  | D  | ■  |
|--------------------------------|-----------|------|-----|----------------|----|----|----|
| AS14 - BS14                    | 9251E     | 17.9 | 70  | M16x0.75       | 14 | 12 | 9  |
| AS14 - BS14                    | 9251ER    | 18.3 | 70  | M17x0.75       | 15 | 13 | 10 |
| SAS16                          | 9265E     | 22.8 | 98  | M20x0.75       | 16 | 14 | 11 |
| BS20                           | 9266E     | 27.7 | 116 | M25x100        | 21 | 18 | 14 |
| BS20/22                        | 9266ER    | 29.7 | 116 | M27x100        | 23 | 20 | 16 |
| BS22                           | 9264E     | 29.7 | 116 | M27x100        | 23 | 20 | 16 |
| MULTIDECO20/6<br>MULTIDECO20/8 | 9258E     | 25   | 90  | M24x100        | 20 | 17 | 14 |
| MULTIDECO26/6<br>MULTIDECO26/8 | 9282E     | 35   | 118 | M33x150        | 26 | 23 | 19 |
| SAS36                          | 9333ET    | 45   | 136 | M42x150 gauche | 36 | 32 | 26 |



## WICKMAN

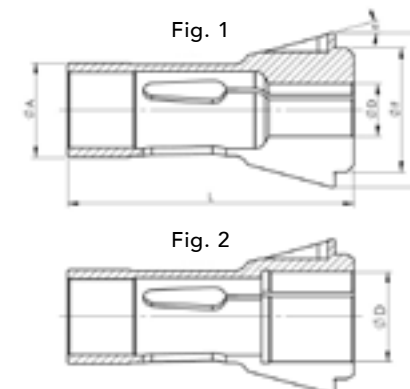
### PINCES DE SERRAGE



| Type    | Référence | A     | B    | L     | G                 | α   | ●  | D  | ■  | Fig. |
|---------|-----------|-------|------|-------|-------------------|-----|----|----|----|------|
| 5/8"    | 9014E     | 29.4  | 38.1 | 92    | 1.032"x24f gauche | 15° | 16 | 13 | 11 | 1    |
| 1"      | 9034E     | 41.3  | 54.4 | 131.7 | 1.484"x24f gauche | 15° | 26 | 22 | 18 | 1    |
| 32/8    | WICK32/8S | 50.7  | 63.5 | 109.5 | 1.813"x18f        | 15° | 32 | 27 | 22 | 2    |
| 1"3/8   | 9072E     | 55.5  | 66.8 | 117.5 | 2.003"x22f        | 15° | 36 | 31 | 25 | 2    |
| 1"3/4   | 9111E     | 64.2  | 78.7 | 127   | 2.738"x16f        | 15° | 45 | 39 | 31 | 2    |
| 50/8    | W508S     | 70    | 84   | 127   | M66x150           | 15° | 50 | 44 | 36 | 2    |
| 2"1/4-6 | 9145E     | 76.86 | 95.5 | 181   | 2.853"x22 fgauche | 15° | 57 | 49 | 40 | 2    |
| 2"1/4-5 | 9151E     | 77.72 | 89   | 152.4 | 2.882"x16f gauche | 15° | 57 | 49 | 40 | 2    |
| 2"5/8   | 9181E     | 92.0  | 111  | 165.1 | 3.375"x18f        | 15° | 66 | 57 | 46 | 2    |

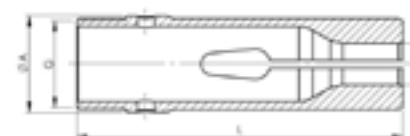
## WICKMAN

### PINCES DE CONTRE BROCHE



| Type  | Référence | A     | B    | F    | L    | α   | ●    | D  | ■  | Fig. |
|-------|-----------|-------|------|------|------|-----|------|----|----|------|
| 5/8"  | 9014PU    | 19.04 | 26.2 | 19   | 55.6 | 15° | 14   | 11 | 9  | 1    |
|       |           |       |      |      |      |     | 16   | -  | -  | 2    |
| 1"    | 9034PU    | 25.4  | 38.1 | 31   | 93.7 | 15° | 19.5 | 15 | 12 | 1    |
|       |           |       |      |      |      |     | 26   | -  | -  | 2    |
| 32/8  | 9037PU    | 31.23 | 46   | 38.1 | 93.7 | 15° | 26   | 20 | 18 | 1    |
|       |           |       |      |      |      |     | 32   | -  | -  | 2    |
| 1"3/8 | 9072PU    | 39.67 | 65   | 52.4 | 121  | 15° | 45   | -  | -  | 2    |
| 1"3/4 |           |       |      |      |      |     | 40   | 33 | 27 | 1    |
| 2"1/4 | 9145PU    | 46    | 78   | 65   | 143  | 15° | 57   | -  | -  | 2    |

### PINCES D'AVANCE



| Type    | Référence | A    | L     | G                 | ●  | D  | ■  |
|---------|-----------|------|-------|-------------------|----|----|----|
| 5/8"    | 9251E     | 21.6 | 86    | 0.769"x24f gauche | 16 | 13 | 11 |
| 1"      | 9276E     | 31.9 | 133   | 1.184"x24f gauche | 26 | 22 | 18 |
| 32/8    | WICK32/8A | 39.3 | 120.6 | 1.437"x24f gauche | 32 | 27 | 22 |
| 1"3/8   | 9318E     | 42.8 | 117.5 | 1.595"x22f gauche | 36 | 31 | 25 |
| 1"3/4   | 9362E     | 52.3 | 127   | 1.968"x22f gauche | 45 | 33 | 31 |
| 50/8    | W508S     | 57.9 | 127   | M55x100 gauche    | 50 | 43 | 35 |
| 2"1/4-6 | 9409E     | 65.1 | 171.5 | 2.469"x22f gauche | 57 | 49 | 40 |
| 2"1/4-5 | 9415E     | 65.1 | 140   | 2.469"x22f gauche | 57 | 49 | 40 |
| 2"5/8   | 9445E     | 75.6 | 178   | 2.874"x24f gauche | 65 | 56 | 46 |

PINCE D'AVANCE MULTI-BROCHES RÉGLABLE EN POLYMÈRE

Une qualité d'avance

Les pinces d'avances traditionnelles en acier laissent trop souvent des marques sur l'extérieur des barres. Si celle-ci est tournée par la suite, aucun souci. Par contre, si le diamètre doit être impeccable cela devient problématique.

La difficulté avec les pinces d'avances standard est de maîtriser la force de serrage :

- Force de serrage faible : variations de longueur, débrayages intempestifs
- Force de serrage importante : blocage, marque sur la barre.

C'est dans le but de pallier ces incidents que nous avons élaboré les pinces AVANSTAR réglables.

Ces pinces se composent de 4 éléments.

La partie en contact avec la barre est en polymère (donc aucune marque). D'une composition à la fois souple pour un bon entrainement de la barre et d'une dureté suffisante pour retarder l'usure, la pince AVANSTAR permet de rattraper l'usure par le réglage de la force de serrage.

Un mode d'emploi (montage et réglage) est disponible sur notre site [www.esve.fr](http://www.esve.fr)



GILDEMEISTER

| Référence  | Machine  | Désignation         | Capacité maxi. |    |    |
|------------|----------|---------------------|----------------|----|----|
|            |          |                     | ●              | ●  | ■  |
| GM16STNG   | GM16     | Pince complète      | 13             | 11 | 9  |
| GM16STNGC  |          | Corps N°1           |                |    |    |
| GM16STNGB  |          | Bague N°2           |                |    |    |
| GM16STNGD  |          | Douille N°3         |                |    |    |
| GM16STNGO  |          | Ogive N°4           |                |    |    |
| GM16STNGR5 |          | Lame de ressort N°5 |                |    |    |
| GM16STNGR6 |          | Lame de ressort N°6 |                |    |    |
| 9258STNG   | AS16/20  | Pince complète      | 16             | 13 | 11 |
| 9258STNGC  |          | Corps N°1           |                |    |    |
| 9258STNGB  |          | Bague N°2           |                |    |    |
| 9258STNGD  |          | Douille N°3         |                |    |    |
| 9258STNGO  |          | Ogive N°4           |                |    |    |
| 9258STNGR5 |          | Lame de ressort N°5 |                |    |    |
| 9258STNGR6 |          | Lame de ressort N°6 |                |    |    |
| 9263STNG   | GS20-P25 | Pince complète      | 20             | 17 | 14 |
| 9263STNGC  |          | Corps N°1           |                |    |    |
| 9263STNGB  |          | Bague N°2           |                |    |    |
| 9263STNGD  |          | Douille N°3         |                |    |    |
| 9263STNGO  |          | Ogive N°4           |                |    |    |
| 9263STNGR5 |          | Lame de ressort N°5 |                |    |    |
| 9263STNGR6 |          | Lame de ressort N°6 |                |    |    |
| 9316STNG   | AS32     | Pince complète      | 29             | 25 | 20 |
| 9316STNGC  |          | Corps N°1           |                |    |    |
| 9316STNGB  |          | Bague N°2           |                |    |    |
| 9316STNGD  |          | Douille N°3         |                |    |    |
| 9316STNGO  |          | Ogive N°4           |                |    |    |
| 9316STNGR5 |          | Lame de ressort N°5 |                |    |    |
| 9316STNGR6 |          | Lame de ressort N°6 |                |    |    |
| 9333STNG   | GM35     | Pince complète      | 29             | 25 | 20 |
| 9333STNGC  |          | Corps N°1           |                |    |    |
| 9333STNGB  |          | Bague N°2           |                |    |    |
| 9333STNGD  |          | Douille N°3         |                |    |    |
| 9333STNGO  |          | Ogive N°4           |                |    |    |
| 9333STNGR5 |          | Lame de ressort N°5 |                |    |    |
| 9333STNGR6 |          | Lame de ressort N°6 |                |    |    |

## GRIDLEY

| Référence  | Machine | Désignation         | Capacité maxi. |    |    |
|------------|---------|---------------------|----------------|----|----|
|            |         |                     | ●              | ●  | ■  |
| 9252STNG   | 9/16    | Pince complète      | 10             | 8  | 7  |
| 9252STNGC  |         | Corps N°1           |                |    |    |
| 9252STNGB  |         | Bague N°2           |                |    |    |
| 9252STNGD  |         | Douille N°3         |                |    |    |
| 9252STNGO  |         | Ogive N°4           |                |    |    |
| 9252STNGR5 |         | Lame de ressort N°5 |                |    |    |
| 9252STNGR6 |         | Lame de ressort N°6 |                |    |    |
| 9278STNG   | 1"      | Pince complète      | 22             | 19 | 15 |
| 9278STNGC  |         | Corps N°1           |                |    |    |
| 9278STNGB  |         | Bague N°2           |                |    |    |
| 9278STNGD  |         | Douille N°3         |                |    |    |
| 9278STNGO  |         | Ogive N°4           |                |    |    |
| 9278STNGR5 |         | Lame de ressort N°5 |                |    |    |
| 9278STNGR6 |         | Lame de ressort N°6 |                |    |    |

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| Référence  | Machine     | Désignation         | Capacité maxi. |    |    |
|------------|-------------|---------------------|----------------|----|----|
|            |             |                     | ●              | ●  | ■  |
| 9282STNG   | MS25 - SF26 | Pince complète      | 23             | 19 | 16 |
| 9282STNGC  |             | Corps N°1           |                |    |    |
| 9282STNGB  |             | Bague N°2           |                |    |    |
| 9282STNGD  |             | Douille N°3         |                |    |    |
| 9282STNGO  |             | Ogive N°4           |                |    |    |
| 9282STNGR5 |             | Lame de ressort N°5 |                |    |    |
| 9282STNGR6 |             | Lame de ressort N°6 |                |    |    |

## PITTLER

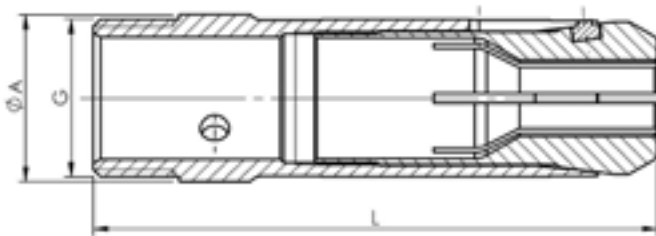
| Référence  | Machine       | Désignation         | Capacité maxi. |    |    |
|------------|---------------|---------------------|----------------|----|----|
|            |               |                     | ●              | ●  | ■  |
| 9330STNG   | PITTLER PRC36 | Pince complète      | 32             | 27 | 22 |
| 9330STNGC  |               | Corps N°1           |                |    |    |
| 9330STNGB  |               | Bague N°2           |                |    |    |
| 9330STNGD  |               | Douille N°3         |                |    |    |
| 9330STNGO  |               | Ogive N°4           |                |    |    |
| 9330STNGR5 |               | Lame de ressort N°5 |                |    |    |
| 9330STNGR6 |               | Lame de ressort N°6 |                |    |    |
| 9405STNG   | PITTLER PRC50 | Pince complète      | 48             | 41 | 33 |
| 9405STNGC  |               | Corps N°1           |                |    |    |
| 9405STNGB  |               | Bague N°2           |                |    |    |
| 9405STNGD  |               | Douille N°3         |                |    |    |
| 9405STNGO  |               | Ogive N°4           |                |    |    |
| 9405STNGR5 |               | Lame de ressort N°5 |                |    |    |
| 9405STNGR6 |               | Lame de ressort N°6 |                |    |    |

## TORNOS

| Référence  | Machine        | Désignation         | Capacité maxi. |    |    |
|------------|----------------|---------------------|----------------|----|----|
|            |                |                     | ●              | ●  | ■  |
| 9251STNG   | AS14           | Pince complète      | 10             | 8  | 7  |
| 9251STNGC  |                | Corps N°1           |                |    |    |
| 9251STNGB  |                | Bague N°2           |                |    |    |
| 9251STNGD  |                | Douille N°3         |                |    |    |
| 9251STNGO  |                | Ogive N°4           |                |    |    |
| 9251STNGR5 |                | Lame de ressort N°5 |                |    |    |
| 9251STNGR6 |                | Lame de ressort N°6 |                |    |    |
| 9265STNG   | SAS16          | Pince complète      | 13             | 11 | 9  |
| 9265STNGC  |                | Corps N°1           |                |    |    |
| 9265STNGB  |                | Bague N°2           |                |    |    |
| 9265STNGD  |                | Douille N°3         |                |    |    |
| 9265STNGO  |                | Ogive N°4           |                |    |    |
| 9265STNGR5 |                | Lame de ressort N°5 |                |    |    |
| 9265STNGR6 |                | Lame de ressort N°6 |                |    |    |
| 9266STNG   | BS20           | Pince complète      | 16             | 13 | 11 |
| 9266STNGC  |                | Corps N°1           |                |    |    |
| 9266STNGB  |                | Bague N°2           |                |    |    |
| 9266STNGD  |                | Douille N°3         |                |    |    |
| 9266STNGO  |                | Ogive N°4           |                |    |    |
| 9266STNGR5 |                | Lame de ressort N°5 |                |    |    |
| 9266STNGR6 |                | Lame de ressort N°6 |                |    |    |
| 9258STNG   | MULTIDECO 20/6 | Pince complète      | 16             | 13 | 11 |
| 9258STNGC  |                | Corps N°1           |                |    |    |
| 9258STNGB  |                | Bague N°2           |                |    |    |
| 9258STNGD  |                | Douille N°3         |                |    |    |
| 9258STNGO  |                | Ogive N°4           |                |    |    |
| 9258STNGR5 |                | Lame de ressort N°5 |                |    |    |
| 9258STNGR6 |                | Lame de ressort N°6 |                |    |    |
| 9282STNG   | MULTIDECO 26/6 | Pince complète      | 23             | 19 | 16 |
| 9282STNGC  |                | Corps N°1           |                |    |    |
| 9282STNGB  |                | Bague N°2           |                |    |    |
| 9282STNGD  |                | Douille N°3         |                |    |    |
| 9282STNGO  |                | Ogive N°4           |                |    |    |
| 9282STNGR5 |                | Lame de ressort N°5 |                |    |    |
| 9282STNGR6 |                | Lame de ressort N°6 |                |    |    |

# WICKMAN

| Référence  | Machine       | Désignation         | Capacité maxi. |    |    |
|------------|---------------|---------------------|----------------|----|----|
|            |               |                     | ●              | ◆  | ■  |
| 9260STNG   | WICKMAN 5/8"  | Pince complète      | 13             | 11 | 9  |
| 9260STNGC  |               | Corps N°1           |                |    |    |
| 9260STNGB  |               | Bague N°2           |                |    |    |
| 9260STNGD  |               | Douille N°3         |                |    |    |
| 9260STNGO  |               | Ogive N°4           |                |    |    |
| 9260STNGR5 |               | Lame de ressort N°5 |                |    |    |
| 9260STNGR6 |               | Lame de ressort N°6 |                |    |    |
| 9276STNG   | WICKMAN 1"    | Pince complète      | 22             | 19 | 15 |
| 9276STNGC  |               | Corps N°1           |                |    |    |
| 9276STNGB  |               | Bague N°2           |                |    |    |
| 9276STNGD  |               | Douille N°3         |                |    |    |
| 9276STNGO  |               | Ogive N°4           |                |    |    |
| 9276STNGR5 |               | Lame de ressort N°5 |                |    |    |
| 9276STNGR6 |               | Lame de ressort N°6 |                |    |    |
| W328STNG   | WICKMAN 32/8  | Pince complète      | 29             | 25 | 20 |
| W328STNGC  |               | Corps N°1           |                |    |    |
| W328STNGB  |               | Bague N°2           |                |    |    |
| W328STNGD  |               | Douille N°3         |                |    |    |
| W328STNGO  |               | Ogive N°4           |                |    |    |
| W328STNGR5 |               | Lame de ressort N°5 |                |    |    |
| W328STNGR6 |               | Lame de ressort N°6 |                |    |    |
| 9318STNG   | WICKMAN 1 3/8 | Pince complète      | 32             | 27 | 22 |
| 9318STNGC  |               | Corps N°1           |                |    |    |
| 9318STNGB  |               | Bague N°2           |                |    |    |
| 9318STNGD  |               | Douille N°3         |                |    |    |
| 9318STNGO  |               | Ogive N°4           |                |    |    |
| 9318STNGR5 |               | Lame de ressort N°5 |                |    |    |
| 9318STNGR6 |               | Lame de ressort N°6 |                |    |    |
| 9362STNG   | WICKMAN 1 3/4 | Pince complète      | 40             | 34 | 28 |
| 9362STNGC  |               | Corps N°1           |                |    |    |
| 9362STNGB  |               | Bague N°2           |                |    |    |
| 9362STNGD  |               | Douille N°3         |                |    |    |
| 9362STNGO  |               | Ogive N°4           |                |    |    |
| 9362STNGR5 |               | Lame de ressort N°5 |                |    |    |
| 9362STNGR6 |               | Lame de ressort N°6 |                |    |    |



Corps



Pince



clé

## GILDEMEISTER

| Type                 | Référence      | Désignation | A    | G              | L     | Matière | Capacité maxi. |    |  |
|----------------------|----------------|-------------|------|----------------|-------|---------|----------------|----|--|
| AS16-20<br>AS20 GM20 | Pince d'avance |             | 25   | M24x100        | 90    |         |                |    |  |
|                      | 9258EREGL      | Corps       |      |                |       |         |                |    |  |
|                      | ARS20 A        | Pince       | RS20 |                | ACIER | 17      | 15             | 12 |  |
|                      | ARS20 B        |             |      | BRONZE         | 17    | 15      | 12             |    |  |
|                      | ARS20 P        |             |      | PLASTIQUE      | 14    | 12      | 10             |    |  |
|                      | ARS20 C        |             |      | CARBURE        | 14    | 12      | 10             |    |  |
| AS20-25<br>GM20-25   | Pince d'avance |             | 30   | M28x0.75       | 90    |         |                |    |  |
|                      | 9263EREGL      | Corps       |      |                |       |         |                |    |  |
|                      | ARS24 A        | Pince       | RS24 |                | ACIER | 20      | 18             | 14 |  |
|                      | ARS24 B        |             |      | BRONZE         | 20    | 18      | 14             |    |  |
|                      | ARS24 P        |             |      | PLASTIQUE      | 17    | 15      | 13             |    |  |
|                      | ARS24 C        |             |      | CARBURE        | 17    | 14      | 12             |    |  |
| AS32                 | Pince d'avance |             | 40   | M38x150 gauche | 136   |         |                |    |  |
|                      | 9316EREGL      | Corps       |      |                |       |         |                |    |  |
|                      | ARS32 A        | Pince       | RS32 |                | ACIER | 32      | 27             | 22 |  |
|                      | ARS32 B        |             |      | BRONZE         | 32    | 27      | 22             |    |  |
|                      | ARS32 P        |             |      | PLASTIQUE      | 28    | 25      | 20             |    |  |
|                      | ARS32 C        |             |      | CARBURE        | 25    | 21      | 17             |    |  |
| GM35-6<br>GM35-8     | Pince d'avance |             | 41.2 | M39x100        | 132   |         |                |    |  |
|                      | 9333EREGL      | Corps       |      |                |       |         |                |    |  |
|                      | ARS32 A        | Pince       | RS32 |                | ACIER | 32      | 27             | 22 |  |
|                      | ARS32B         |             |      | BRONZE         | 32    | 27      | 22             |    |  |
|                      | ARS32 P        |             |      | PLASTIQUE      | 28    | 25      | 20             |    |  |
|                      | ARS32 C        |             |      | CARBURE        | 25    | 21      | 17             |    |  |
| GM42                 | Pince d'avance |             | 51.4 | M48x150        | 136   |         |                |    |  |
|                      | 9350EREGL      | Corps       |      |                |       |         |                |    |  |
|                      | ARS40 A        | Pince       | RS40 |                | ACIER | 40      | 34             | 28 |  |
|                      | ARS40 B        |             |      | BRONZE         | 40    | 34      | 28             |    |  |
|                      | ARS40 P        |             |      | PLASTIQUE      | 36    | 31      | 25             |    |  |
|                      | ARS40 C        |             |      | CARBURE        | 32    | 27      | 22             |    |  |
| AA48<br>AV48<br>AS45 | Pince d'avance |             | 57   | M54x150 gauche | 160   |         |                |    |  |
|                      | 9268EREGL      | Corps       |      |                |       |         |                |    |  |
|                      | ARS48 A        | Pince       | RS48 |                | ACIER | 46      | 39             | 32 |  |
|                      | ARS48 B        |             |      | BRONZE         | 46    | 39      | 32             |    |  |
|                      | ARS48 P        |             |      | PLASTIQUE      | 41    | 35      | 28             |    |  |
|                      | ARS48 C        |             |      | CARBURE        | 38    | 32      | 26             |    |  |

## INDEX

| Type         | Référence | Désignation    | A    | G              | L   | Matière   | Capacité maxi.                                                                      |                                                                                     |                                                                                     |
|--------------|-----------|----------------|------|----------------|-----|-----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|              |           | Pince d'avance | 35   | M33x150        | 118 |           |  |  |  |
| KS25<br>MS25 | 9282EREGL | Corps          |      |                |     |           |                                                                                     |                                                                                     |                                                                                     |
|              | ARS25 A   | Pince          |      | RS25           |     | ACIER     | 25                                                                                  | 21                                                                                  | 17                                                                                  |
|              | ARS25 B   |                |      |                |     | BRONZE    | 25                                                                                  | 21                                                                                  | 17                                                                                  |
|              | ARS25 P   |                |      |                |     | PLASTIQUE | 21                                                                                  | 19                                                                                  | 15                                                                                  |
|              | ARS25 C   |                |      |                |     | CARBURE   | 19                                                                                  | 16                                                                                  | 13                                                                                  |
|              |           | Pince d'avance | 41.8 | M38x150        | 130 |           |                                                                                     |                                                                                     |                                                                                     |
| KS32         | 9319EREGL | Corps          |      |                |     |           |                                                                                     |                                                                                     |                                                                                     |
|              | ARS32 A   | Pince          |      | RS32           |     | ACIER     | 32                                                                                  | 27                                                                                  | 22                                                                                  |
|              | ARS32 B   |                |      |                |     | BRONZE    | 32                                                                                  | 27                                                                                  | 22                                                                                  |
|              | ARS32 P   |                |      |                |     | PLASTIQUE | 28                                                                                  | 25                                                                                  | 20                                                                                  |
|              | ARS32 C   |                |      |                |     | CARBURE   | 25                                                                                  | 21                                                                                  | 17                                                                                  |
|              |           | Pince d'avance | 54   | M50x150 gauche | 170 |           |                                                                                     |                                                                                     |                                                                                     |
| KS42         | 9364EREGL | Corps          |      |                |     |           |                                                                                     |                                                                                     |                                                                                     |
|              | ARS40 A   | Pince          |      | RS40           |     | ACIER     | 40                                                                                  | 36                                                                                  | 28                                                                                  |
|              | ARS40 B   |                |      |                |     | BRONZE    | 40                                                                                  | 36                                                                                  | 28                                                                                  |
|              | ARS40 P   |                |      |                |     | PLASTIQUE | 36                                                                                  | 31                                                                                  | 25                                                                                  |
|              | ARS40 C   |                |      |                |     | CARBURE   | 32                                                                                  | 27                                                                                  | 22                                                                                  |

## MORI SAY

| Type        | Référence      | Désignation    | A    | G         | L   | Matière | Capacité maxi.                                                                        |                                                                                       |                                                                                       |
|-------------|----------------|----------------|------|-----------|-----|---------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| MORI SAY 20 | Pince d'avance |                | 25   | M24x100   | 90  |         |  |  |  |
|             | 9258EREGL      | Corps          |      |           |     |         |                                                                                       |                                                                                       |                                                                                       |
|             | ARS20 A        | Pince          | RS20 | ACIER     | 17  | 15      | 12                                                                                    |                                                                                       |                                                                                       |
|             | ARS20 B        |                |      | BRONZE    | 17  | 15      | 12                                                                                    |                                                                                       |                                                                                       |
|             | ARS20 P        |                |      | PLASTIQUE | 14  | 12      | 10                                                                                    |                                                                                       |                                                                                       |
|             | ARS20 C        |                |      | CARBURE   | 14  | 12      | 10                                                                                    |                                                                                       |                                                                                       |
| MORI SAY 25 | Pince d'avance |                | 25   | M24x100   | 90  |         |                                                                                       |                                                                                       |                                                                                       |
|             | 9282EREGL      | Corps          |      |           |     |         |                                                                                       |                                                                                       |                                                                                       |
|             | ARS25 A        | Pince          | RS25 | ACIER     | 25  | 21      | 17                                                                                    |                                                                                       |                                                                                       |
|             | ARS25 B        |                |      | BRONZE    | 25  | 21      | 17                                                                                    |                                                                                       |                                                                                       |
|             | ARS25 P        |                |      | PLASTIQUE | 21  | 19      | 15                                                                                    |                                                                                       |                                                                                       |
|             | ARS25 C        |                |      | CARBURE   | 19  | 16      | 13                                                                                    |                                                                                       |                                                                                       |
| MORI SAY 32 | 9319EREGL      | Pince d'avance | 41.8 | M38x150   | 130 |         |                                                                                       |                                                                                       |                                                                                       |
|             | Corps          |                |      |           |     |         |                                                                                       |                                                                                       |                                                                                       |
|             | ARS32A         | Pince          | RS32 | ACIER     | 32  | 27      | 22                                                                                    |                                                                                       |                                                                                       |
|             | ARS32 B        |                |      | BRONZE    | 32  | 27      | 22                                                                                    |                                                                                       |                                                                                       |
|             | ARS32 P        |                |      | PLASTIQUE | 28  | 25      | 20                                                                                    |                                                                                       |                                                                                       |
|             | ARS32 C        |                |      | CARBURE   | 25  | 21      | 17                                                                                    |                                                                                       |                                                                                       |
| KS42        | Pince d'avance |                | 51   | M48x150   | 154 |         |                                                                                       |                                                                                       |                                                                                       |
|             | 9372EREGL      | Corps          |      |           |     |         |                                                                                       |                                                                                       |                                                                                       |
|             | ARS40 A        | Pince          | RS40 | ACIER     | 40  | 34      | 28                                                                                    |                                                                                       |                                                                                       |
|             | ARS40 B        |                |      | BRONZE    | 40  | 34      | 28                                                                                    |                                                                                       |                                                                                       |
|             | ARS40 P        |                |      | PLASTIQUE | 36  | 31      | 25                                                                                    |                                                                                       |                                                                                       |
|             | ARS40 C        |                |      | CARBURE   | 32  | 27      | 22                                                                                    |                                                                                       |                                                                                       |

## SCHÜTTE

| Type                         | Référence | Désignation    | A    | G       | L   | Matière   | Capacité maxi. |    |    |
|------------------------------|-----------|----------------|------|---------|-----|-----------|----------------|----|----|
|                              |           | Pince d'avance | 25   | M23x100 | 88  |           |                |    |    |
| SE16<br>SE18<br>SG18<br>AG20 | 9255EREGL | Corps          |      |         |     |           |                |    |    |
|                              | ARS16 A   | Pince          |      |         |     | ACIER     | 15             | 13 | 11 |
|                              | ARS16 B   |                |      |         |     | BRONZE    | 15             | 13 | 11 |
|                              | ARS16 P   |                |      |         |     | PLASTIQUE | 12             | 10 | 9  |
|                              | ARS16 C   |                |      |         |     | CARBURE   | 10             | 8  | 7  |
|                              |           | Pince d'avance | 27   | M25x100 | 88  |           |                |    |    |
| SG20<br>SF20<br>VD20         | 9262EREGL | Corps          |      |         |     |           |                |    |    |
|                              | ARS20 A   | Pince          |      |         |     | ACIER     | 17             | 15 | 12 |
|                              | ARS20 B   |                |      |         |     | BRONZE    | 17             | 15 | 12 |
|                              | ARS20 P   |                |      |         |     | PLASTIQUE | 14             | 12 | 10 |
|                              | ARS20 C   |                |      |         |     | CARBURE   | 14             | 12 | 10 |
|                              |           | Pince d'avance | 35   | M33x150 | 118 |           |                |    |    |
| SE25<br>AF26<br>SF26         | 9282EREGL | Corps          |      |         |     |           |                |    |    |
|                              | ARS25 A   | Pince          |      |         |     | ACIER     | 25             | 21 | 17 |
|                              | ARS25 B   |                |      |         |     | BRONZE    | 25             | 21 | 17 |
|                              | ARS25 P   |                |      |         |     | PLASTIQUE | 21             | 19 | 15 |
|                              | ARS25 C   |                |      |         |     | CARBURE   | 19             | 16 | 13 |
|                              |           | Pince d'avance | 41.8 | M38x150 | 130 |           |                |    |    |
| SF32<br>AF32                 | 9319EREGL | Corps          |      |         |     |           |                |    |    |
|                              | ARS32 A   | Pince          |      |         |     | ACIER     | 32             | 27 | 22 |
|                              | ARS32 B   |                |      |         |     | BRONZE    | 32             | 27 | 22 |
|                              | ARS32 P   |                |      |         |     | PLASTIQUE | 28             | 25 | 20 |
|                              | ARS32 C   |                |      |         |     | CARBURE   | 25             | 21 | 17 |
|                              |           | Pince d'avance | 51   | M48x150 | 154 |           |                |    |    |
| AD40<br>SF40<br>SF42<br>AF42 | 9372EREGL | Corps          |      |         |     |           |                |    |    |
|                              | ARS40 A   | Pince          |      |         |     | ACIER     | 40             | 34 | 28 |
|                              | ARS40 B   |                |      |         |     | BRONZE    | 40             | 34 | 28 |
|                              | ARS40 P   |                |      |         |     | PLASTIQUE | 36             | 31 | 25 |
|                              | ARS40 C   |                |      |         |     | CARBURE   | 32             | 27 | 22 |
|                              |           | Pince d'avance | 62   | M58x150 | 160 |           |                |    |    |
| SD50<br>SF51<br>AF51         | 9406EREGL | Corps          |      |         |     |           |                |    |    |
|                              | ARS50 A   | Pince          |      |         |     | ACIER     | 48             | 42 | 34 |
|                              | ARS50 B   |                |      |         |     | BRONZE    | 48             | 42 | 34 |
|                              | ARS50 P   |                |      |         |     | PLASTIQUE | 42             | 36 | 29 |
|                              | ARS50 C   |                |      |         |     | CARBURE   | 40             | 34 | 28 |

## TORNOS

| Type                                   | Référence | Désignation    | A    | G        | L   | Matière   | Capacité maxi. |    |    |
|----------------------------------------|-----------|----------------|------|----------|-----|-----------|----------------|----|----|
|                                        |           | Pince d'avance | 17.9 | M16x0.75 | 70  |           |                |    |    |
| AS14<br>BS14                           | 9251EREGL | Corps          |      |          |     |           |                |    |    |
|                                        | ARS14 A   | Pince          |      |          |     | ACIER     | 11.5           | 10 | 8  |
|                                        | ARS14 B   |                |      |          |     | BRONZE    | 11.5           | 10 | 8  |
|                                        | ARS14 P   |                |      |          |     | PLASTIQUE | 9              | 8  | 7  |
|                                        | ARS14 C   |                |      |          |     | CARBURE   | 10             | 8  | 7  |
|                                        |           | Pince d'avance | 22.8 | M20x0.75 | 98  |           |                |    |    |
| SAS16                                  | 9265EREGL | Corps          |      |          |     |           |                |    |    |
|                                        | ARS14 A   | Pince          |      |          |     | ACIER     | 11.5           | 10 | 8  |
|                                        | ARS14 B   |                |      |          |     | BRONZE    | 11.5           | 10 | 8  |
|                                        | ARS14 P   |                |      |          |     | PLASTIQUE | 9              | 8  | 7  |
|                                        | ARS14 C   |                |      |          |     | CARBURE   | 10             | 8  | 7  |
|                                        |           | Pince d'avance | 22.8 | M20x0.75 | 98  |           |                |    |    |
| SAS16                                  | 9265EREGL | Corps          |      |          |     |           |                |    |    |
|                                        | ARS16 A   | Pince          |      |          |     | ACIER     | 15             | 13 | 11 |
|                                        | ARS16 B   |                |      |          |     | BRONZE    | 15             | 13 | 11 |
|                                        | ARS16 P   |                |      |          |     | PLASTIQUE | 12             | 10 | 9  |
|                                        | ARS16 C   |                |      |          |     | CARBURE   | 12             | 10 | 8  |
|                                        |           | Pince d'avance | 27.7 | M25x100  | 116 |           |                |    |    |
| BS20                                   | 9258EREGL | Corps          |      |          |     |           |                |    |    |
|                                        | ARS20 A   | Pince          |      |          |     | ACIER     | 17             | 15 | 12 |
|                                        | ARS20 B   |                |      |          |     | BRONZE    | 17             | 15 | 12 |
|                                        | ARS20 P   |                |      |          |     | PLASTIQUE | 14             | 12 | 10 |
|                                        | ARS20 C   |                |      |          |     | CARBURE   | 14             | 12 | 10 |
|                                        |           | Pince d'avance | 27.7 | M27x100  | 116 |           |                |    |    |
| BS20<br>Renf.                          | 9266EREGL | Corps          |      |          |     |           |                |    |    |
|                                        | ARS20 A   | Pince          |      |          |     | ACIER     | 17             | 15 | 12 |
|                                        | ARS20 B   |                |      |          |     | BRONZE    | 17             | 15 | 12 |
|                                        | ARS20 P   |                |      |          |     | PLASTIQUE | 14             | 12 | 10 |
|                                        | ARS20 C   |                |      |          |     | CARBURE   | 14             | 12 | 10 |
|                                        |           | Pince d'avance | 25   | M24x100  | 90  |           |                |    |    |
| MULTIDECO<br>20/6<br>MULTIDECO<br>20/8 | 9258EREGL | Corps          |      |          |     |           |                |    |    |
|                                        | ARS20 A   | Pince          |      |          |     | ACIER     | 17             | 15 | 12 |
|                                        | ARS20 B   |                |      |          |     | BRONZE    | 17             | 15 | 12 |
|                                        | ARS20 P   |                |      |          |     | PLASTIQUE | 14             | 12 | 10 |
|                                        | ARS20 C   |                |      |          |     | CARBURE   | 14             | 12 | 10 |
|                                        |           | Pince d'avance | 35   | M33x150  | 118 |           |                |    |    |
| MULTIDECO<br>26/6<br>MULTIDECO<br>26/8 | 9282EREGL | Corps          |      |          |     |           |                |    |    |
|                                        | ARS25 A   | Pince          |      |          |     | ACIER     | 25             | 21 | 17 |
|                                        | ARS25 B   |                |      |          |     | BRONZE    | 25             | 21 | 17 |
|                                        | ARS25 P   |                |      |          |     | PLASTIQUE | 21             | 19 | 15 |
|                                        | ARS25 C   |                |      |          |     | CARBURE   | 19             | 16 | 13 |



## WICKMAN

| Type  | Référence      | Désignation | A    | G                | L     | Matière   | Capacité maxi. |    |    |
|-------|----------------|-------------|------|------------------|-------|-----------|----------------|----|----|
| 5/8"  | Pince d'avance |             | 21.6 | 0.769x24f gauche | 116   |           |                |    |    |
|       | 9260EREGL      | Corps       |      |                  |       |           |                |    |    |
|       | ARS16 A        | Pince       | RS16 |                  |       | ACIER     | 15             | 13 | 11 |
|       | ARS16 B        |             |      |                  |       | BRONZE    | 15             | 13 | 11 |
|       | ARS16 P        |             |      |                  |       | PLASTIQUE | 12             | 10 | 9  |
|       | ARS16 C        |             |      |                  |       | CARBURE   | 12             | 10 | 8  |
| 1"    | Pince d'avance |             | 31.9 | 1.184x24f gauche | 133   |           |                |    |    |
|       | 9276EREGL      | Corps       |      |                  |       |           |                |    |    |
|       | ARS25 A        | Pince       | RS25 |                  |       | ACIER     | 25             | 21 | 17 |
|       | ARS25 B        |             |      |                  |       | BRONZE    | 25             | 21 | 17 |
|       | ARS25 P        |             |      |                  |       | PLASTIQUE | 21             | 19 | 15 |
|       | ARS25 C        |             |      |                  |       | CARBURE   | 19             | 16 | 13 |
| 1"3/8 | Pince d'avance |             | 42.8 | 1.595x22f gauche | 117.5 |           |                |    |    |
|       | 9318EREGL      | Corps       |      |                  |       |           |                |    |    |
|       | ARS32 A        | Pince       | RS32 |                  |       | ACIER     | 32             | 27 | 22 |
|       | ARS32 B        |             |      |                  |       | BRONZE    | 32             | 27 | 22 |
|       | ARS32 P        |             |      |                  |       | PLASTIQUE | 28             | 25 | 20 |
|       | ARS32 C        |             |      |                  |       | CARBURE   | 25             | 21 | 17 |
| 1"3/4 | Pince d'avance |             | 52.3 | 1.968x22f gauche | 117.5 |           |                |    |    |
|       | 9362EREGL      | Corps       |      |                  |       |           |                |    |    |
|       | ARS40 A        | Pince       | RS40 |                  |       | ACIER     | 40             | 34 | 28 |
|       | ARS40 B        |             |      |                  |       | BRONZE    | 40             | 34 | 28 |
|       | ARS40 P        |             |      |                  |       | PLASTIQUE | 36             | 31 | 25 |
|       | ARS40 C        |             |      |                  |       | CARBURE   | 32             | 27 | 22 |



| Référence | Désignation |
|-----------|-------------|
| ARS14 CLE | Clé RS14    |
| ARS16 CLE | Clé RS16    |
| ARS20 CLE | Clé RS20    |
| ARS25 CLE | Clé RS25    |
| ARS32 CLE | Clé RS32    |
| ARS40 CLE | Clé RS40    |
| ARS50 CLE | Clé RS50    |

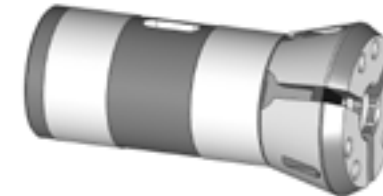


Fig. 1

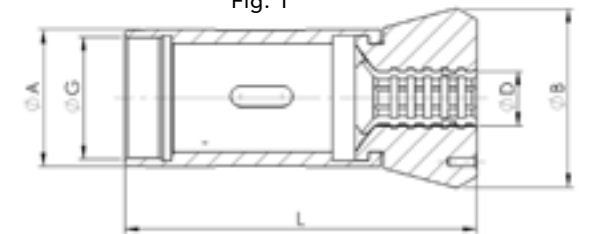
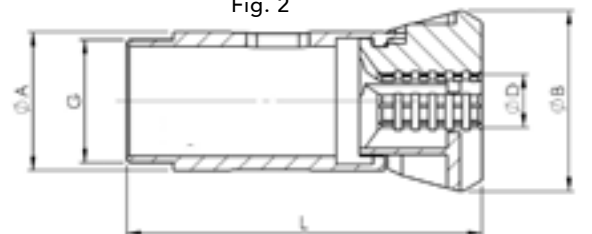


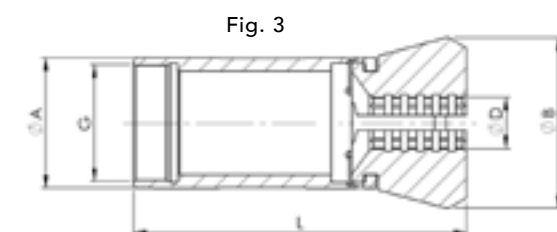
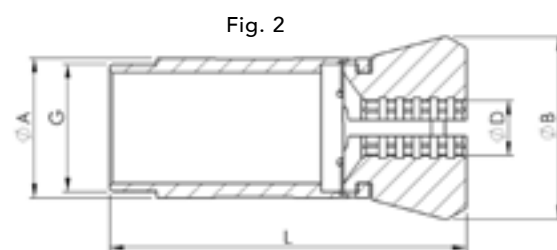
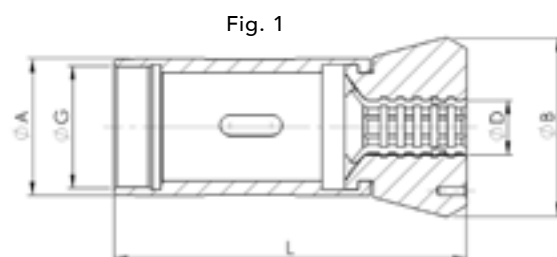
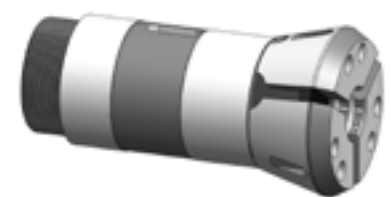
Fig. 2



## GILDEMEISTER

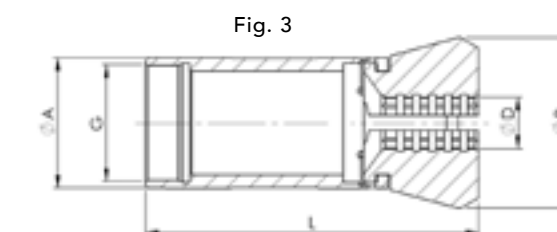
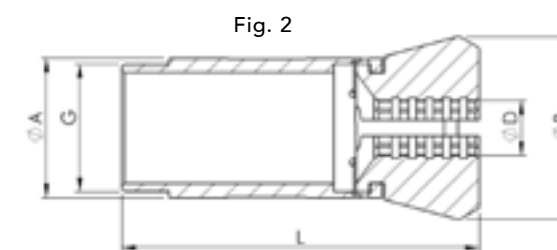
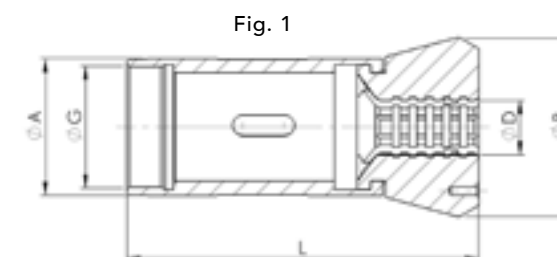
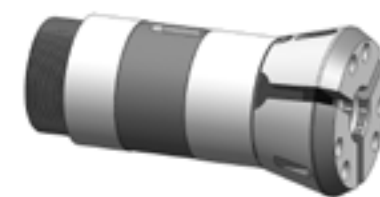
| Type                    | Référence | Désignation | A  | B    | L   | G                 | Capacité D |        |        | Fig. |
|-------------------------|-----------|-------------|----|------|-----|-------------------|------------|--------|--------|------|
| AS16/20<br>GS20<br>GM20 | SK9012BZ  | Corps       | 34 | 42.3 | 90  | M30x100 gauche    |            |        |        | 1    |
|                         | SG9012BZ  | Pince       |    |      |     |                   | 6 - 20     | 7 - 17 | 7 - 14 |      |
| AS20/25<br>GM20/25      | SK9017BZ  | Corps       | 38 | 45.5 | 90  | M34.5x0.75 gauche |            |        |        | 2    |
|                         | SG9017BZ  | Pince       |    |      |     |                   | 6 - 25     | 7 - 21 | 7 - 17 |      |
| AS32<br>GM32<br>GM35    | SK9069BZ  | Corps       | 53 | 69.3 | 137 | M48x150 gauche    |            |        |        | 2    |
|                         | SG9069BZ  | Pince       |    |      |     |                   | 6 - 32     | 7 - 28 | 7 - 22 |      |
| GM42                    |           | Corps       | 64 | 80.3 | 134 | M59x150 gauche    |            |        |        | 2    |
|                         |           | Pince       |    |      |     |                   | 7 - 42     | 8 - 36 | 8 - 30 |      |
| AA48<br>AV48<br>AS48    |           | Corps       | 70 | 90.3 | 160 | M65x150 gauche    |            |        |        | 2    |
|                         |           | Pince       |    |      |     |                   | 7 - 46     | 8 - 41 | 8 - 34 |      |





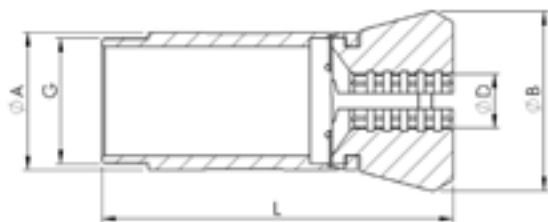
## INDEX

| Type | Référence | Désignation | A    | B    | L   | G              | Capacité D           | Fig. |
|------|-----------|-------------|------|------|-----|----------------|----------------------|------|
| MS16 | SG16BZ    | Corps       |      |      | 71  | M32x100 gauche |                      | 3    |
|      | SK16BZ    | Pince       |      |      |     |                | 4 - 16 7 - 13 7 - 11 |      |
| MS22 | SG9022ZW  | Corps       | 32.8 | 44.3 | 103 | M29x100 gauche |                      | 2    |
|      | SK9022ZW  | Pince       |      |      |     |                | 4 - 22 - -           |      |
| MS25 | SG9039BZ  | Corps       | 46   | 60.3 | 120 | M40x150 gauche |                      | 1    |
|      | SK9039BZ  | Pince       |      |      |     |                | 4 - 26 7 - 22 7 - 18 |      |
| MS25 | SG9039ZW  | Corps       | 46   | 60.3 | 120 | M40x150 gauche |                      | 2    |
|      | SK9039ZW  | Pince       |      |      |     |                | 5 - 32 7 - 27 7 - 21 |      |
| MS32 | SG32ZW    | Corps       | 46   | 61   | 120 | M42x100 gauche |                      | 3    |
|      | SK32ZW    | Pince       |      |      |     |                | 5 - 32 7 - 27 7 - 21 |      |
| MS42 | 10180     | Corps       | 59   | 79.3 | 149 | M52x150 gauche |                      | 3    |
|      | TOP40     | Pince       |      |      |     |                | 4 - 42 7 - 36 7 - 30 |      |
| MS52 | 1105      | Corps       | 69   | 99.5 | 157 | M62x150 gauche |                      | 3    |
|      | SK65BZ    | Pince       |      |      |     |                | 7 - 52 8 - 52 7 - 46 |      |



## SCHÜTTE

| Type                   | Référence | Désignation | A  | B    | L   | G              | Capacité D           | Fig. |
|------------------------|-----------|-------------|----|------|-----|----------------|----------------------|------|
| SG18/20<br>AG20        | SG9007ZW  | Corps       | 32 | 41.5 | 84  | M28x100 gauche |                      | 2    |
|                        | SK9007ZW  | Pince       |    |      |     |                | 4 - 18 7 - 15 7 - 13 |      |
| SE25/SF25<br>AF26/SF26 | SG9039BZ  | Corps       | 46 | 60.3 | 120 | M40x150 gauche |                      | 1    |
|                        | SK9039BZ  | Pince       |    |      |     |                | 4 - 26 7 - 22 7 - 18 |      |
| AF32<br>SF32<br>S32PC  | SG9070BZ  | Corps       | 53 | 69.7 | 136 | M47x150 gauche |                      | 1    |
|                        | SK9070BZ  | Pince       |    |      |     |                | 6 - 32 7 - 28 7 - 22 |      |
| S36PC                  | 1105      | Corps       | 56 | 72.2 | 139 | M52x150 gauche |                      | 3    |
|                        | SB.K0096  | Pince       |    |      |     |                | 4 - 36 7 - 31 7 - 25 |      |
| AD40/SF40<br>AF42/SF42 | SG9112BZ  | Corps       | 63 | 78.8 | 157 | M56x100 gauche |                      | 1    |
|                        | SK9112BZ  | Pince       |    |      |     |                | 5 - 42 7 - 36 7 - 30 |      |
| SD50<br>AF51/SF51      | SK9139BZ  | Corps       | 75 | 98.2 | 187 | M58x150 gauche |                      | 1    |
|                        | SK9139BZ  | Pince       |    |      |     |                | 9 - 50 9 - 41 9 - 34 |      |

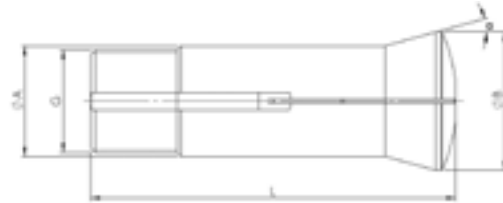


# TORNOS

| Type              | Référence     | Désignation | A  | B    | L      | G              | Capacité D |        |        | Fig. |
|-------------------|---------------|-------------|----|------|--------|----------------|------------|--------|--------|------|
| MULTIDECO<br>26/6 | <b>SG32ZW</b> | Corps       | 46 | 60.3 | 120    | M40x150 gauche |            |        |        | 3    |
|                   | <b>SK32ZW</b> | Pince       |    |      | 5 - 32 | 7 - 27         | 7 - 21     | 7 - 13 | 7 - 11 |      |

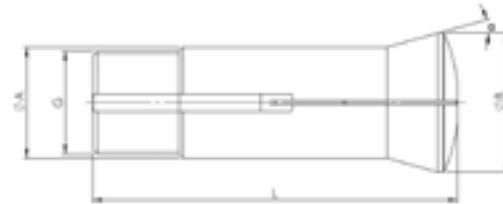
## 9 - PINCES TIRÉES

## TYPES B



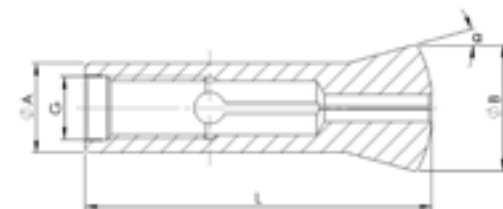
| Type | Référence | A  | B    | L    | α   | G          | Capacité |
|------|-----------|----|------|------|-----|------------|----------|
| B6   | 304E      | 6  | 10.5 | 31.3 | 20° | 5x36f"     | 0.3 - 6  |
| B8   | 302E      | 8  | 13   | 35.5 | 20° | 6.82x0.625 | 0.3 - 10 |
| B15  | 324E      | 15 | 21   | 55   | 20° | M13x100    | 0.3 - 15 |
| B32  | 3713E     | 32 | 40   | 106  | 15° | 29.7x15f"  | 0.3 - 32 |
| B45  | B45       | 45 | 53   | 115  | 15° | M42x150    | 1 - 45   |

## TYPE L



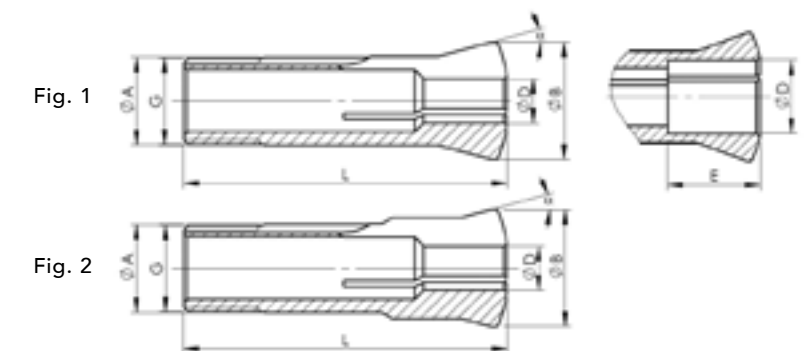
| Type | Référence | A  | B  | L   | α      | G      | Capacité |
|------|-----------|----|----|-----|--------|--------|----------|
| L20  | 355E      | 20 | 28 | 122 | 17°30' | 19.7x2 | 0.3 - 22 |

## TYPES P



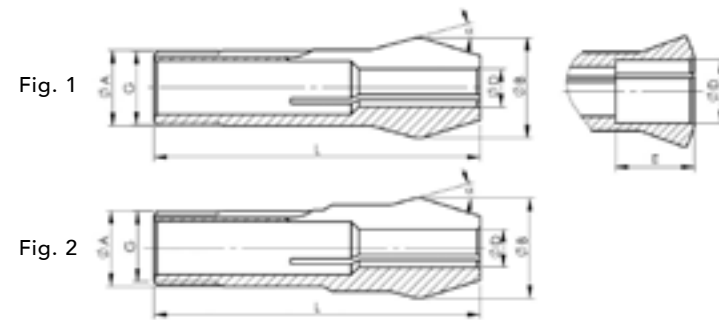
| Type   | Référence | A  | B    | L    | α   | G     | Capacité  |
|--------|-----------|----|------|------|-----|-------|-----------|
| P4.50  | 3011E     | 4. | 6.75 | 22.9 | 15° | M3.35 | 0.3 - 4.5 |
| P5     | 3017E     | 5  | 7    | 22.9 | 15° | 3.5   | 0.3 - 5.0 |
| P6/155 | 3023E     | 5  | 8.5  | 24.1 | 20° | 4     | 0.3 - 6.0 |
| P6/150 | 3026E     | 6  | 8.5  | 27.2 | 15° | 4     | 0.3 - 6.0 |
| P9     | 3080E     | 6  | 13.2 | 39.3 | 15° | 6     | 0.3 - 9.0 |
| P10    | 3105E     | 9  | 14   | 39   | 15° | 7     | 0.3 - 10  |

## TYPES W



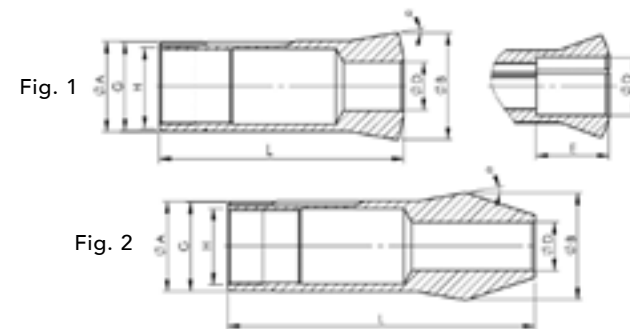
| Type | Référence | A  | B    | L    | G                     | α   | ●             | ◆          | ■          | E   | Fig. |
|------|-----------|----|------|------|-----------------------|-----|---------------|------------|------------|-----|------|
| W12  | 318E      | 12 | 16   | 46   | Ø11.75x1.25<br>45°/5° | 15° | 0.30 - 8.00   | -          | -          | -   | 1    |
|      |           |    |      |      |                       |     | 8.01 - 10.00  | -          | -          | 17  |      |
|      |           |    |      |      |                       |     | 10.01 - 10.50 | -          | -          | 6   |      |
|      |           |    |      |      |                       |     | 10.51 - 11.00 | -          | -          | 5   |      |
|      |           |    |      |      |                       |     | 11.01 - 11.50 | -          | -          | 4   |      |
|      |           |    |      |      |                       |     | 11.51 - 12.00 | -          | -          | 3   |      |
| W15  | 3213E     | 15 | 20.2 | 58.3 | Ø14.75x1.25<br>45°/5° | 15° | 12.01 - 13.00 | -          | -          | 2   | 1    |
|      |           |    |      |      |                       |     | 0.3 - 10.70   | 2.0 - 9.0  | 2.0 - 7.0  | -   |      |
|      |           |    |      |      |                       |     | 10.71 - 12.70 | -          | -          | 22  |      |
|      |           |    |      |      |                       |     | 12.71 - 13.00 | -          | -          | 9.5 |      |
|      |           |    |      |      |                       |     | 13.01 - 13.50 | -          | -          | 8.5 |      |
|      |           |    |      |      |                       |     | 13.51 - 14.00 | -          | -          | 7.5 |      |
|      |           |    |      |      |                       |     | 14.01 - 14.50 | -          | -          | 6.5 |      |
|      |           |    |      |      |                       |     | 14.51 - 15.00 | -          | -          | 5.5 |      |
| W20  | 349E      | 20 | 26.3 | 73   | Ø19.7x1.666<br>45°/5° | 15° | 15.01 - 15.50 | -          | -          | 4.5 | 1    |
|      |           |    |      |      |                       |     | 15.51 - 16.00 | -          | -          | 3.5 |      |
|      |           |    |      |      |                       |     | 0.30 - 14.50  | 2.0 - 12.0 | 2.0 - 10.0 | -   |      |
| W25  | 364E      | 25 | 33.7 | 97.6 | Ø24.7x1.693<br>45°/5° | 15° | 14.50 - 16.00 | -          | -          | 28  | 2    |
|      |           |    |      |      |                       |     | 16.01 - 20.50 | -          | -          | 24  |      |
|      |           |    |      |      |                       |     | 0.30 - 19.00  | 2.0 - 16.0 | 2.0 - 13.0 | -   |      |
| W25  | 364E      | 25 | 33.7 | 97.6 | Ø24.7x1.693<br>45°/5° | 15° | 19.01 - 21.00 | -          | -          | 34  | 1    |
|      |           |    |      |      |                       |     | 21.01 - 25.40 | -          | -          | 32  |      |
|      |           |    |      |      |                       |     |               |            |            | 2   |      |

## TYPES W NEZ LONG



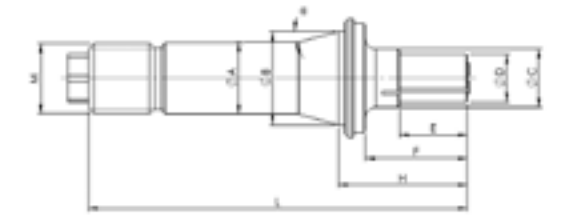
| Type  | Référence | A  | B    | L     | G                                         | $\alpha$ |               |            |            | E  | Fig. |
|-------|-----------|----|------|-------|-------------------------------------------|----------|---------------|------------|------------|----|------|
| W12NL | 318EBEC   | 12 | 16   | 52    | $\varnothing 11.75 \times 1.25$<br>45°/5° | 15°      | 0.30 - 8.00   | -          | -          | -  | 1    |
|       |           |    |      |       |                                           |          | 8.01 - 10.00  | -          | -          | 24 |      |
| W15NL | 3213EBEC  | 15 | 20.2 | 67    | $\varnothing 14.75 \times 1.25$<br>45°/5° | 15°      | 0.3 - 10.20   | 2.0 - 9.0  | 2.0 - 7.0  | -  | 1    |
|       |           |    |      |       |                                           |          | 10.21 - 12.70 | -          | -          | 32 |      |
| W20NL | 349EBEC   | 20 | 26.3 | 85    | $\varnothing 19.7 \times 1.666$<br>45°/5° | 15°      | 0.30 - 14.00  | 2.0 - 12.0 | 2.0 - 10.0 | -  | 1    |
|       |           |    |      |       |                                           |          | 14.01 - 16.00 | -          | -          | 41 |      |
|       |           |    |      |       |                                           |          | 16.01 - 20.50 | -          | -          | 37 | 2    |
| W25NL | 364EBEC   | 25 | 33.7 | 112.2 | $\varnothing 24.7 \times 1.693$<br>45°/5° | 15°      | 0.30 - 19.00  | 2.0 - 16.0 | 2.0 - 13.0 | -  | 1    |
|       |           |    |      |       |                                           |          | 19.01 - 21.00 | -          | -          | 50 |      |
|       |           |    |      |       |                                           |          | 21.01 - 25.40 | -          | -          | 47 | 2    |

## TYPES C



| Type             | Référence | A     | B    | L     | G                               | H                                | $\alpha$ |               |              |              | E  | Fig. |
|------------------|-----------|-------|------|-------|---------------------------------|----------------------------------|----------|---------------|--------------|--------------|----|------|
| 5C<br>(W31.75)   | 385E      | 31.75 | 37.4 | 87    | $\varnothing 31.4 \times 20f''$ | $\varnothing 26.4 \times 24f''$  | 10°      | 0.50 - 26.20  | 2.00 - 21.00 | 2.00 - 17.00 | -  | 1    |
|                  |           |       |      |       |                                 |                                  |          | 26.21 - 27.99 | -            | -            | 40 |      |
|                  |           |       |      |       |                                 |                                  |          | 28.00 - 28.99 | -            | -            | 10 |      |
|                  |           |       |      |       |                                 |                                  |          | 29.00 - 29.99 | -            | -            | 7  |      |
|                  |           |       |      |       |                                 |                                  |          | 30.00 - 31.00 | -            | -            | 4  |      |
| 5C<br>(W31.75NL) | 385ENL    | 31.75 | 37.4 | 108.7 | $\varnothing 31.4 \times 20f''$ | $\varnothing 26.4 \times 24f''$  | 10°      | 0.30 - 14.00  | 0.50 - 26.20 | 2.00 - 21.00 | -  | 2    |
|                  |           |       |      |       |                                 |                                  |          | -             | -            | -            | 40 |      |
| 16C              | 16C       | 48    | 57.5 | 115.5 | M47.5x1.75                      | $\varnothing 42.86 \times 20f''$ | 10°      | 2.00 - 41.00  | 2.00 - 35.00 | 2.00 - 28.00 | -  | 1    |
| 20C              | 20C       | 60.4  | 73.1 | 163.2 | M60x150                         | M53x100                          | 10°      | 2.00 - 51.50  | 2.00 - 44.00 | 2.00 - 36.00 | -  | 1    |
| 25C              | 25C       | 74.4  | 88.1 | 161.6 | M73x150                         |                                  | 10°      | 2.00 - 65.00  | 2.00 - 56.00 | 2.00 - 44.00 | -  | 1    |

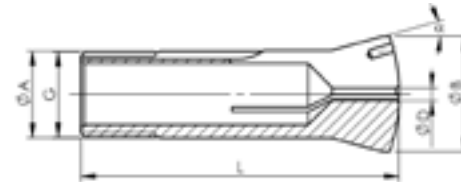
## TASSEaux EXPANSIBLES TYPE W



| Type | Référence | A  | B    | L   | M                               | $\alpha$ | E  | F  | H  | d          |
|------|-----------|----|------|-----|---------------------------------|----------|----|----|----|------------|
| 20W  | 349TX     | 20 | 26.3 | 103 | $\varnothing 19.7 \times 1.666$ | 15°      | 12 | 24 | 32 | 4 - 5      |
|      |           |    |      | 104 |                                 |          | 15 | 25 | 33 | 5.01 - 6   |
|      |           |    |      | 114 |                                 |          | 15 | 25 | 33 | 6.01 - 8   |
|      |           |    |      | 104 |                                 |          | 15 | 25 | 33 | 8.01 - 10  |
|      |           |    |      | 109 |                                 |          | 20 | 30 | 38 | 10.01 - 13 |
|      |           |    |      | 114 |                                 |          | 25 | 35 | 43 | 13.01 - 17 |
|      |           |    |      | 114 |                                 |          | 25 | 35 | 43 | 17.01 - 21 |
|      |           |    |      | 124 |                                 |          | 35 | 45 | 53 | 21.01 - 25 |
|      |           |    |      | 124 |                                 |          | 45 | -  | 53 | 25.01 - 31 |

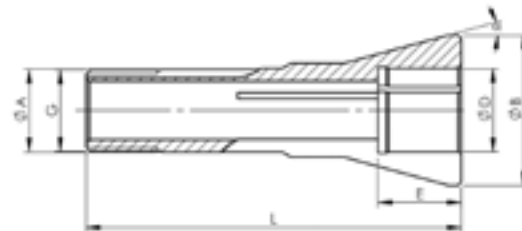
| Type | Référence | A  | B    | L   | M                               | $\alpha$ | E  | F  | H  | d          |
|------|-----------|----|------|-----|---------------------------------|----------|----|----|----|------------|
| 25W  | 364TX     | 25 | 33.7 | 126 | $\varnothing 24.7 \times 1.693$ | 15°      | 12 | 24 | 34 | 4 - 5      |
|      |           |    |      | 127 |                                 |          | 15 | 25 | 35 | 5.01 - 6   |
|      |           |    |      | 127 |                                 |          | 15 | 25 | 35 | 6.01 - 8   |
|      |           |    |      | 127 |                                 |          | 15 | 25 | 35 | 8.01 - 10  |
|      |           |    |      | 132 |                                 |          | 20 | 30 | 40 | 10.01 - 13 |
|      |           |    |      | 137 |                                 |          | 25 | 35 | 45 | 13.01 - 17 |
|      |           |    |      | 142 |                                 |          | 30 | 40 | 50 | 17.01 - 21 |
|      |           |    |      | 147 |                                 |          | 35 | 45 | 55 | 21.01 - 25 |
|      |           |    |      | 152 |                                 |          | 40 | 50 | 60 | 25.01 - 29 |
|      |           |    |      | 152 |                                 |          | 45 | 50 | 60 | 29.01 - 33 |
|      |           |    |      | 153 |                                 |          | 50 | -  | 61 | 33.01 - 39 |
|      |           |    |      | 153 |                                 |          | 50 | -  | 61 | 39.01 - 41 |

## TYPES W DÉPANNAGE



| Type         | Référence  | A     | B    | L    | G                     | α  | D   |
|--------------|------------|-------|------|------|-----------------------|----|-----|
| W12          | 318EDEPAN  | 12    | 16   | 46   | Ø11.75x1.25<br>45°/5° | 15 | 1.5 |
| W15          | 3213EDEPAN | 15    | 20.2 | 58.3 | Ø14.75x1.25<br>45°/5° | 15 | 2   |
| W20          | 349EDEPAN  | 20    | 26.3 | 73   | Ø19.7x1.666<br>45°/5° | 15 | 2   |
| W25          | 364EDEPAN  | 25    | 33.7 | 97.6 | Ø24.7x1.693<br>45°/5° | 15 | 2   |
| W31.75<br>5C | 385EDEPAN  | 31.75 | 37.4 | 87   | Ø31.4x20f"            | 10 | 2   |

## TYPE W ENTONNOIRS FINIES



| Type   | Référence | A  | B  | L  | G                     | α   | D             | E  | D  | E  |
|--------|-----------|----|----|----|-----------------------|-----|---------------|----|----|----|
| W20GR1 | 349F1     | 20 | 36 | 90 | Ø19.7x1.666<br>45°/5° | 15° | 21.00 - 21.99 | 20 | 17 | 23 |
|        |           |    |    |    |                       |     | 22.00 - 22.99 | 18 | 18 | 20 |
|        |           |    |    |    |                       |     | 23.00 - 23.99 | 16 | 19 | 20 |
|        |           |    |    |    |                       |     | 24.00 - 23.99 | 14 | 20 | 16 |
|        |           |    |    |    |                       |     | 25.00 - 25.99 | 12 | 21 | 14 |
|        |           |    |    |    |                       |     | 26.00 - 26.99 | 10 | 22 | 12 |
|        |           |    |    |    |                       |     | 27.00 - 27.99 | 8  | 23 | 10 |
|        |           |    |    |    |                       |     | 28.00 - 28.99 | 6  | 24 | 8  |
|        |           |    |    |    |                       |     | 29.00 - 30.00 | 4  | 25 | 6  |

## PINCES ENTONNOIRS ÉBAUCHÉES



Fig. 1

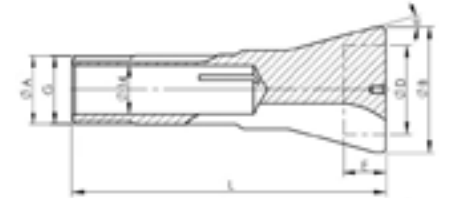
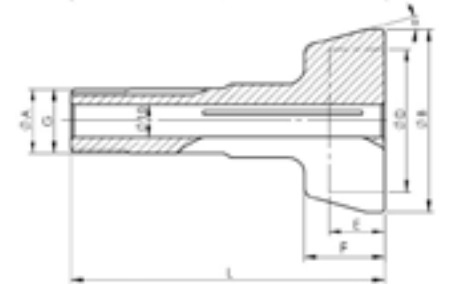


Fig. 2



| Type | Référence | A  | B   | L   | G                     | α   | F    | D   | E  | Fig. |
|------|-----------|----|-----|-----|-----------------------|-----|------|-----|----|------|
| W12  | 318G1     | 12 | 33  | 59  | Ø11.75x1.25<br>45°/5° | 15° | 12   | 23  | 9  | 2    |
|      | 318G2     |    | 49  |     |                       |     |      | 39  |    |      |
|      | 318G3     |    | 65  |     |                       |     |      | 55  |    |      |
|      | 318G4     |    | 81  |     |                       |     |      | 71  |    |      |
| W20  | 349G1     | 20 | 36  | 90  | Ø19.7x1.666<br>45°/5° | 15° | -    | 25  | 13 | 1    |
|      | 349G11    |    | 36  | 110 |                       |     | -    | 28  | 24 | 1    |
|      | 349G2     |    | 56  | 96  |                       |     | 24.5 | 40  | 20 | 2    |
|      | 349G21    |    | 56  | 116 |                       |     | 44.5 | 48  | 26 |      |
|      | 349G3     |    | 77  | 96  |                       |     | 24.5 | 62  | 20 |      |
|      | 349G31    |    | 77  | 116 |                       |     | 44.5 | 68  | 26 |      |
|      | 349G4     |    | 98  | 96  |                       |     | 24.5 | 82  | 20 |      |
|      | 349G5     |    | 120 | 96  |                       |     | 24.5 | 104 | 20 |      |
| W25  | 364G1     | 25 | 59  | 12  | Ø24.7x1.693<br>45°/5° | 15° | 24.5 | 40  | 20 | 2    |
|      | 364G11    |    | 59  | 140 |                       |     | 44.5 | 48  | 26 |      |
|      | 364G2     |    | 88  | 120 |                       |     | 24.5 | 72  | 20 |      |
|      | 364G21    |    | 88  | 140 |                       |     | 44.5 | 80  | 26 |      |
|      | 364G3     |    | 120 | 120 |                       |     | 27   | 104 | 22 |      |

## TYPES W TASSEaux ÉBAUCHÉES



Fig. 1

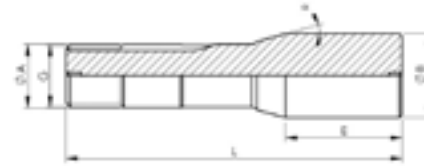
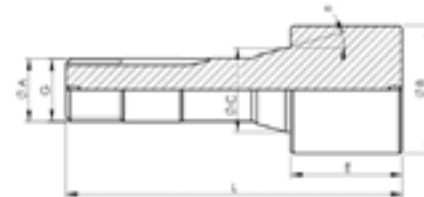


Fig. 2

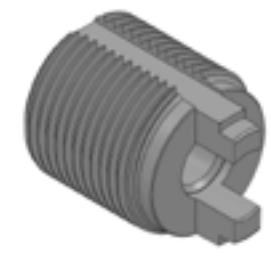


| Type         | Référence | A     | B    | L     | E   | C    | G                     | α   | Fig. |
|--------------|-----------|-------|------|-------|-----|------|-----------------------|-----|------|
| W12          | 318E1     | 12    | 16.2 | 84.3  | 40  | -    | Ø11.75x1.25<br>45°/5° | 15° | 1    |
|              | 318E3     |       | 20   |       |     | 16   |                       |     | 2    |
|              | 318E7     |       | 30   |       |     | 16   |                       |     | 2    |
|              | 318E9     |       | 40   |       |     | 16   |                       |     | 2    |
| W20          | 349E00    | 20    | 26.3 | 90.6  | 20  | -    | Ø19.7x1.666<br>45°/5° | 15° | 1    |
|              | 349E01    |       | 26.3 | 120.6 | 50  | -    |                       |     | 1    |
|              | 349E3     |       | 26.3 | 170.6 | 100 | -    |                       |     | 1    |
|              | 349E02    |       | 30   | 120.6 | 20  | 26.3 |                       |     | 2    |
|              | 349E03    |       | 35   |       |     |      |                       |     |      |
|              | 349E04    |       | 40   |       |     |      |                       |     |      |
|              | 349E05    |       | 50   |       |     |      |                       |     |      |
|              | 349E06    |       | 60   |       |     |      |                       |     |      |
|              | 349E07    |       | 80   |       |     |      |                       |     |      |
|              | 349E08    |       | 100  |       |     |      |                       |     |      |
| W25          | 364E1     | 25    | 33.9 | 144.3 | 50  | -    | Ø24.7x1.693<br>45°/5° | 15° | 1    |
|              | 364E11    |       | 33.9 | 194.3 | 100 | -    |                       |     |      |
|              | 364E2     | 25    | 40   | 144.3 | 50  | 33.7 | Ø24.7x1.693<br>45°/5° | 15° | 2    |
|              | 364E3     |       | 40   | 194.3 | 100 |      |                       |     |      |
|              | 364E4     |       | 50   | 144.3 | 50  |      |                       |     |      |
|              | 364E5     |       | 60   | 144.3 | 50  |      |                       |     |      |
|              | 364E6     |       | 60   | 194.3 | 100 |      |                       |     |      |
|              | 364E7     |       | 70   | 194.3 | 100 |      |                       |     |      |
|              | 364E8     |       | 80   | 194.3 | 100 |      |                       |     |      |
|              | 364E9     |       | 100  | 194.3 | 100 |      |                       |     |      |
| W31.75<br>5C | 385E03    | 31.75 | 37.4 | 125   | 40  | -    | Ø31.4x20f"            | 10° | 1    |
|              | 385E05    |       | 50   | 115   | 30  | 37.4 |                       |     | 2    |
|              | 385E02    |       | 60   | 145   | 60  | 37.4 |                       |     | 2    |

## PIÈCES DÉTACHÉES TASSEaux EXPANSIBLES TYPE W



Écrou



Tirant n°2



Tige n°3



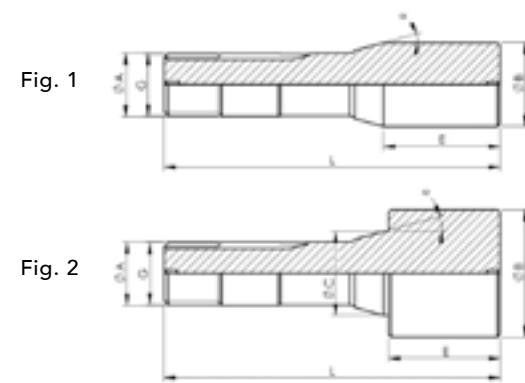
Vis n°4

| PIÈCES DÉTACHÉES |               |                  |         |         |         |
|------------------|---------------|------------------|---------|---------|---------|
| Type             | D             | N°1              | N°2     | N°3     | N°4     |
| W20              | 4.00 - 5.00   | 8451500-EC<br>M8 | 8451500 | 8451501 | 8451502 |
|                  | 5.01 - 6.00   |                  |         | 8451503 | 8451504 |
|                  | 6.01 - 8.00   |                  |         | 8451505 | 8410503 |
|                  | 8.01 - 10.00  |                  |         | 8451506 | 8410505 |
|                  | 10.01 - 13.00 |                  |         | 8451507 | 8451508 |
|                  | 13.01 - 17.00 |                  |         | -       | 8451509 |
|                  | 17.01 - 21.00 |                  |         | -       | 8451510 |
|                  | 21.01 - 25.00 |                  |         | -       | 8451511 |
|                  | 25.01 - 31.00 |                  |         | -       | 8451512 |

| PIÈCES DÉTACHÉES |               |                            |         |         |         |
|------------------|---------------|----------------------------|---------|---------|---------|
| Type             | D             | N°1                        | N°2     | N°3     | N°4     |
| W25              | 4.00 - 5.00   | 8452500-EC<br>ECROU<br>M10 | 8452500 |         |         |
|                  | 5.01 - 6.00   |                            |         | 8452501 | 8451504 |
|                  | 6.01 - 8.00   |                            |         | 8452502 | 8410503 |
|                  | 8.01 - 10.00  |                            |         | 8452503 | 8410505 |
|                  | 10.01 - 13.00 |                            |         | 8452504 | 8410507 |
|                  | 13.01 - 17.00 |                            |         | 8452504 | 8410508 |
|                  | 17.01 - 21.00 |                            |         | -       | 8452505 |
|                  | 21.01 - 25.00 |                            |         | -       | 8452506 |
|                  | 25.01 - 29.00 |                            |         | -       | 8452507 |
|                  | 29.01 - 33.00 |                            |         | -       | 8452508 |
|                  | 33.00 - 39.00 |                            |         | -       | 8452509 |
|                  | 39.01 - 41.00 |                            |         | -       | 8452510 |

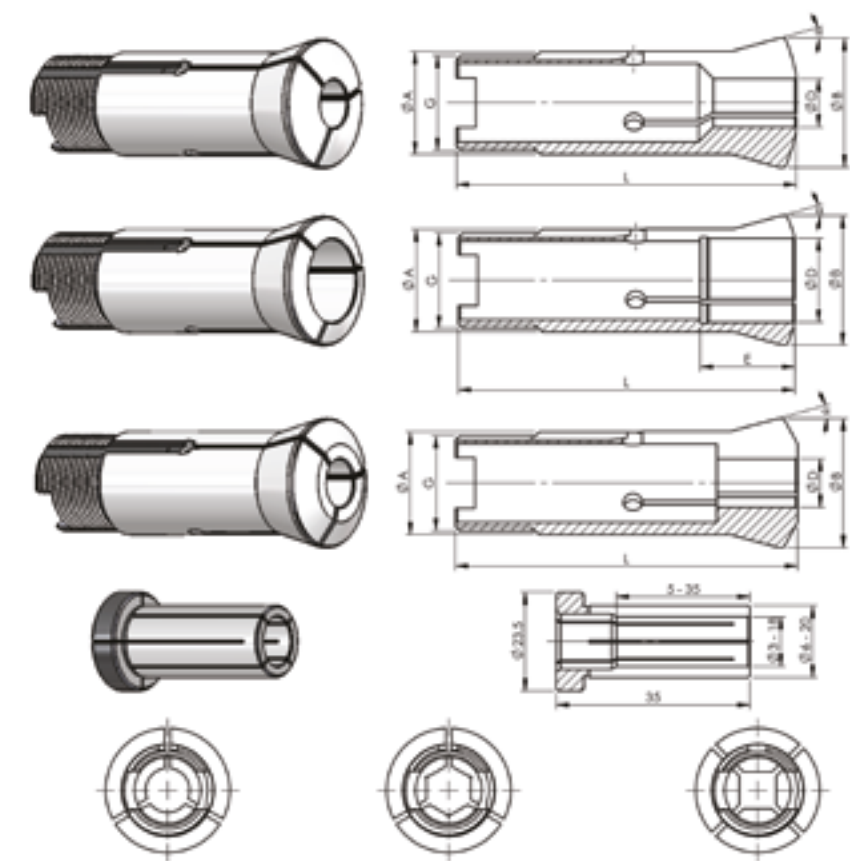


## TYPES W PINCES ÉBAUCHÉES



| Type | Référence | A  | B    | L     | E  | C    | G                                     | $\alpha$ | Fig. |
|------|-----------|----|------|-------|----|------|---------------------------------------|----------|------|
| W20  | 349P1     | 20 | 26.3 | 86.6  | 16 | -    | $\text{Ø}19.7 \times 1.666$<br>45°/5° | 15°      | 1    |
|      | 349P2     |    | 26.3 | 96.6  | 26 | -    |                                       |          |      |
|      | 349P3     |    | 26.3 | 120.6 | 50 | -    |                                       |          |      |
|      | 349P4     |    | 30   | 120.6 | 50 | 26.3 | $\text{Ø}19.7 \times 1.666$<br>45°/5° | 15°      | 2    |
|      | 349P5     |    | 40   |       |    |      |                                       |          |      |
|      | 349P6     |    | 50   |       |    |      |                                       |          |      |

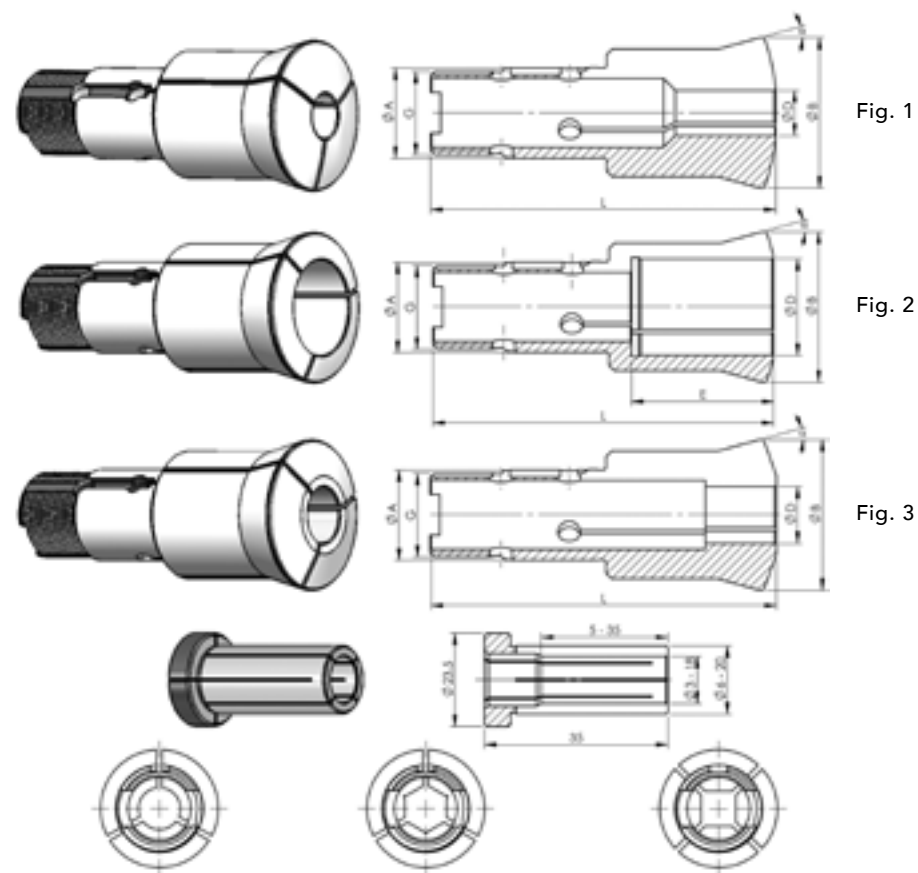
## TYPES W HYDROMAT



| Type | Référence | A  | B    | L  | G                                     | $\alpha$ | Fig. | E  | Capacité D      |
|------|-----------|----|------|----|---------------------------------------|----------|------|----|-----------------|
| HW25 | HW25      | 25 | 33.7 | 97 | $\text{Ø}24.7 \times 1.693$<br>45°/5° | 15°      | 1    | -  | ● 2.00 - 17.80  |
|      |           |    |      |    |                                       |          |      | -  | ● 2.00 - 15.00  |
|      |           |    |      |    |                                       |          |      | -  | ■ 2.00 - 12.00  |
|      | HW25      | 25 | 33.7 | 97 | $\text{Ø}24.7 \times 1.693$<br>45°/5° | 15°      | 2    | 31 | ● 17.81 - 25.40 |
|      |           |    |      |    |                                       |          |      | 31 | ● 15.51 - 21.50 |
|      |           |    |      |    |                                       |          |      | 31 | ● 12.51 - 17.50 |
|      | HW25      | 25 | 33.7 | 97 | $\text{Ø}24.7 \times 1.693$<br>45°/5° | 15°      | 3    | -  | ● 5.00 - 15.00  |

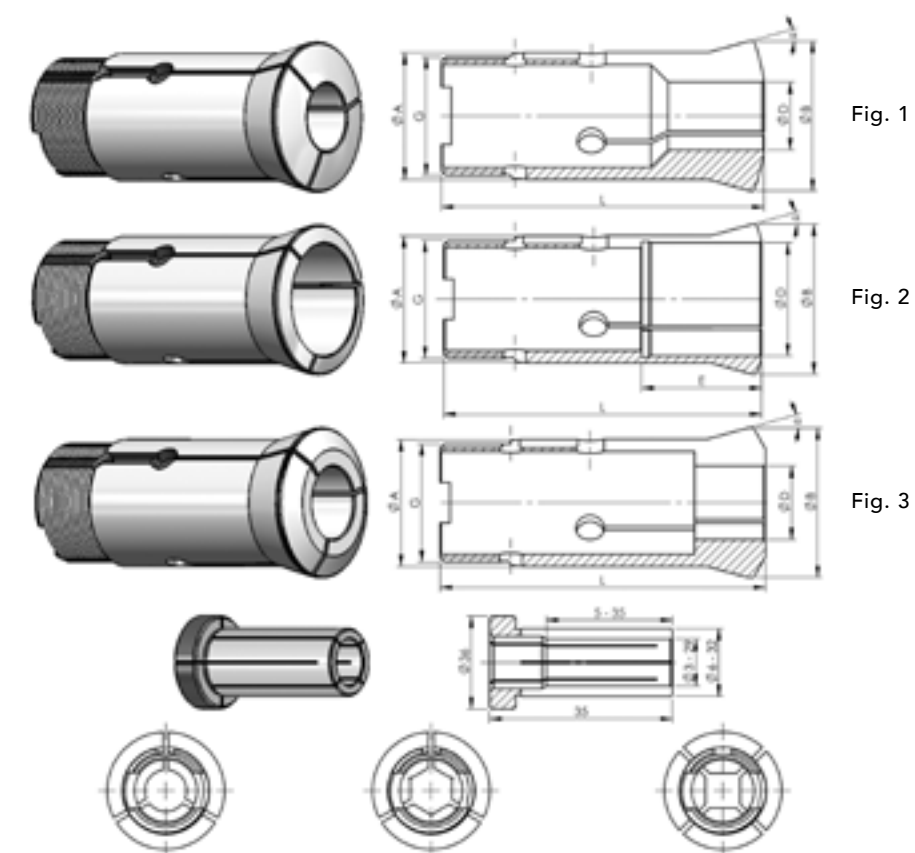


## TYPES W HYDROMAT

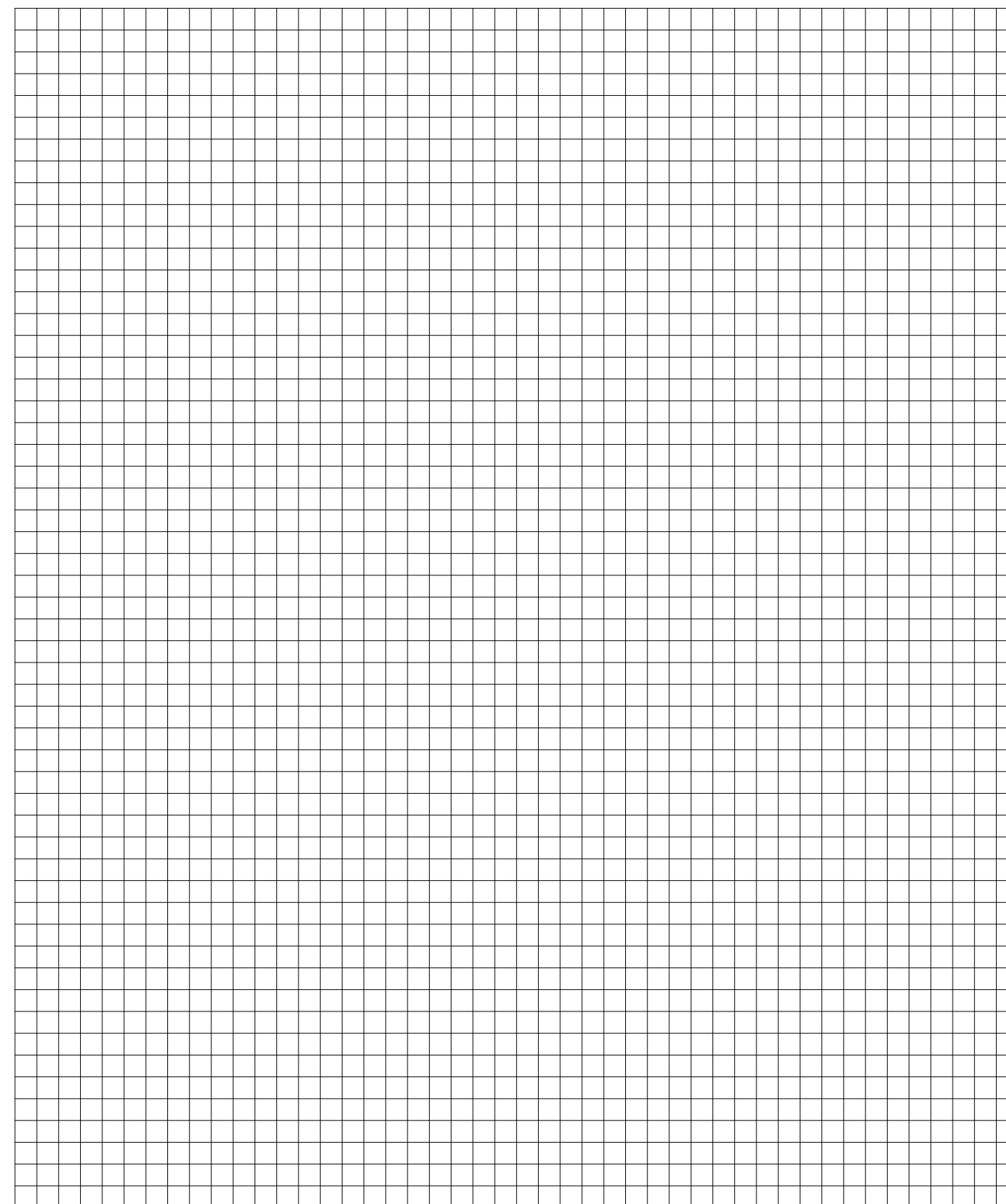
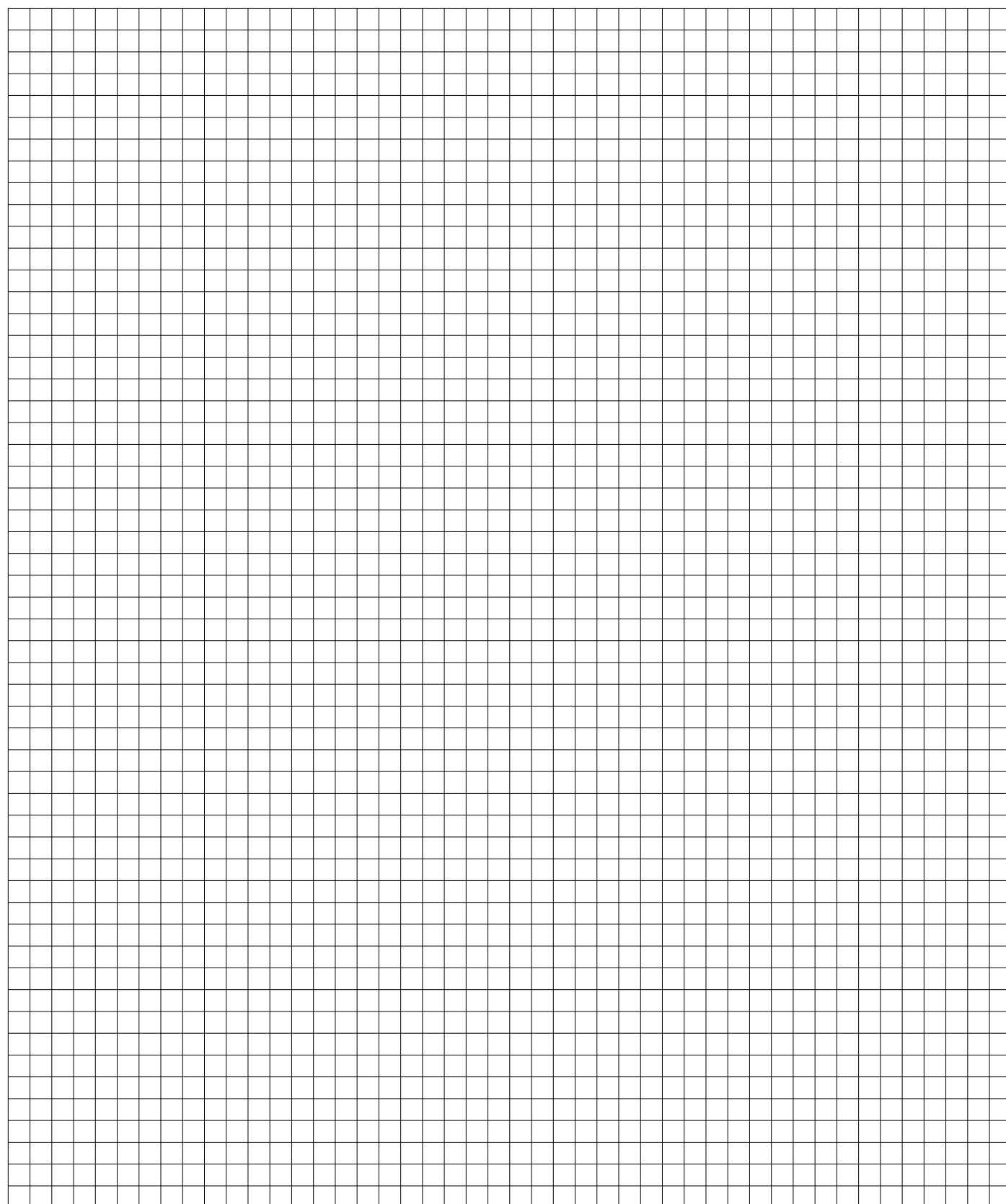


| Type    | Référence | A  | B  | L   | G                                         | $\alpha$ | Fig. | E  | Capacité D      |
|---------|-----------|----|----|-----|-------------------------------------------|----------|------|----|-----------------|
| HB32    | HW32      | 32 | 40 | 106 | $\varnothing 29.7 \times 1.693$<br>45°/5° | 15°      | 1    | -  | ● 3.00 - 23.80  |
|         |           |    |    |     |                                           |          |      | -  | ● 3.00 - 20.00  |
|         |           |    |    |     |                                           |          |      | -  | ● 3.00 - 16.50  |
|         | HW32      | 32 | 40 | 106 | $\varnothing 29.7 \times 1.693$<br>45°/5° | 15°      | 2    | 44 | ● 23.81 - 28.00 |
|         |           |    |    |     |                                           |          |      | 12 | ● 28.01 - 30.00 |
|         |           |    |    |     |                                           |          |      | 8  | ● 30.01 - 32.00 |
| HB32/45 | HB32/45   | 32 | 53 | 122 | $\varnothing 29.7 \times 1.693$<br>45°/5° | 15°      | 1    | -  | ● 3.00 - 23.80  |
|         |           |    |    |     |                                           |          |      | -  | ● 3.00 - 20.00  |
|         |           |    |    |     |                                           |          |      | -  | ● 3.00 - 16.50  |
|         | HB32/45   | 32 | 53 | 122 | $\varnothing 29.7 \times 1.693$<br>45°/5° | 15°      | 2    | 50 | ● 23.81 - 41.00 |
|         |           |    |    |     |                                           |          |      | 14 | ● 41.01 - 42.00 |
|         |           |    |    |     |                                           |          |      | 12 | ● 42.01 - 43.00 |
|         |           |    |    |     |                                           |          |      | 10 | ● 43.01 - 44.00 |
|         |           |    |    |     |                                           |          |      | 8  | ● 44.01 - 45.00 |
|         | HB32/45   | 32 | 53 | 122 | $\varnothing 29.7 \times 1.693$<br>45°/5° | 15°      | 3    | -  | ● 6.00 - 20.00  |

## TYPES W HYDROMAT



| Type | Référence | A  | B  | L   | G       | $\alpha$ | Fig. | E  | Capacité D      |
|------|-----------|----|----|-----|---------|----------|------|----|-----------------|
| HB45 | HB45      | 45 | 53 | 115 | M42x1.5 | 15°      | 1    | -  | ● 3.00 - 36.00  |
|      |           |    |    |     |         |          |      | -  | ● 3.00 - 31.00  |
|      |           |    |    |     |         |          |      | -  | ● 3.00 - 25.40  |
|      | HB45      | 45 | 53 | 115 | M42x1.5 | 15°      | 2    | 53 | ● 36.01 - 41.00 |
|      |           |    |    |     |         |          |      | 14 | ● 41.01 - 42.00 |
|      |           |    |    |     |         |          |      | 12 | ● 42.01 - 43.00 |
|      |           |    |    |     |         |          |      | 10 | ● 43.01 - 44.00 |
|      |           |    |    |     |         |          |      | 8  | ● 44.01 - 45.00 |
|      | HB45      | 45 | 53 | 115 | M42x1.5 | 15°      | 3    | -  | ● 6.00 - 32.00  |





## NOTES

