



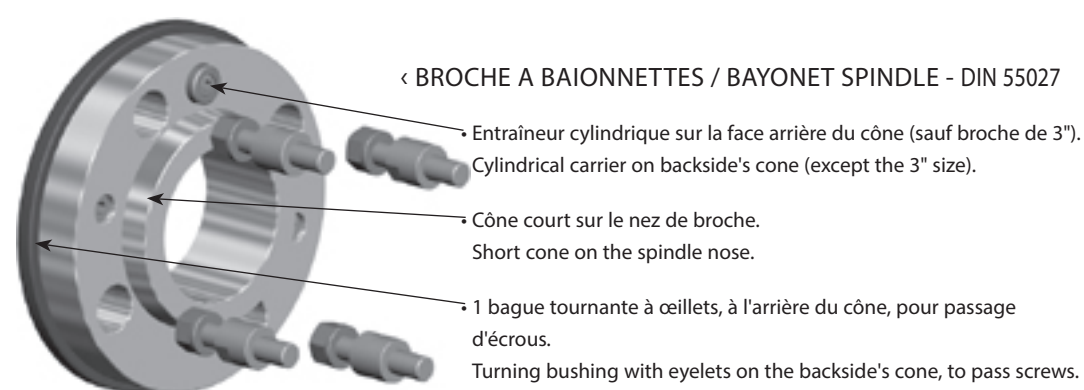
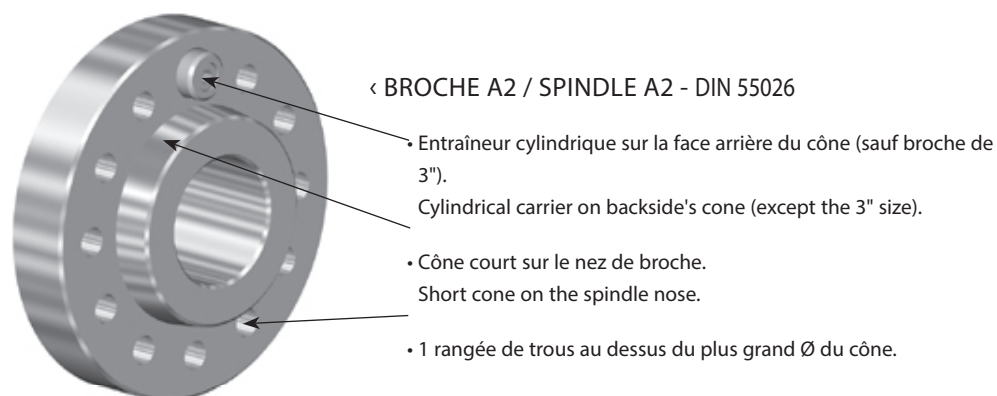
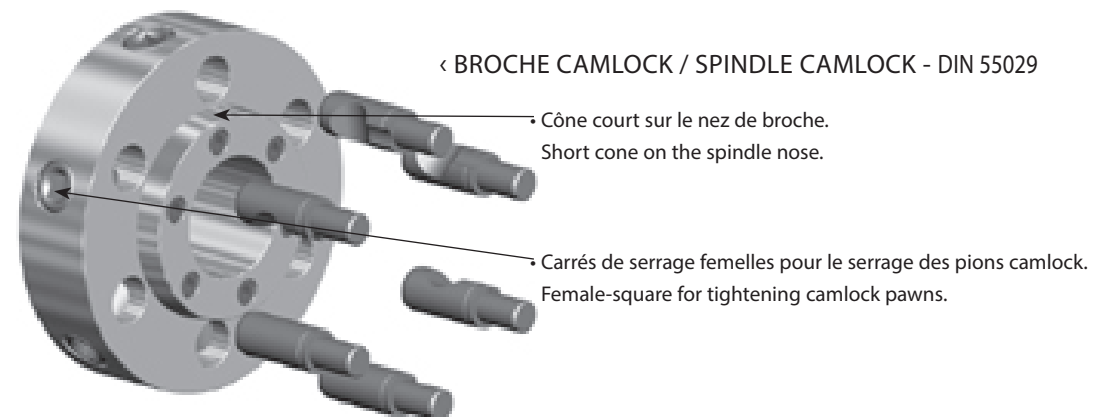
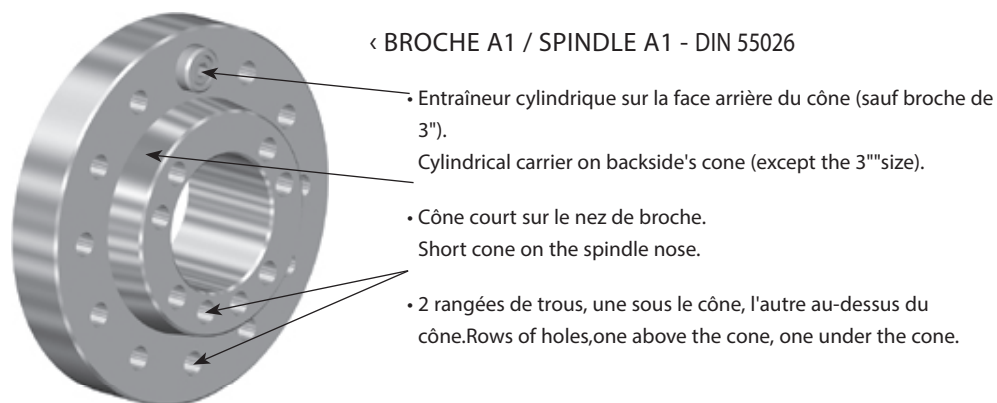
LADNER®

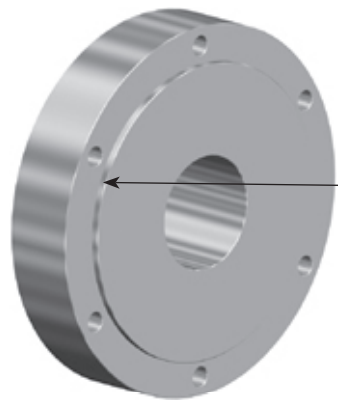


CATALOGUE  
MANDRINS  
CHUCKS  
CATALOGUE

|         |                                                     |
|---------|-----------------------------------------------------|
| P.2/3   | BROCHES COURANTES                                   |
| P.4     | CAPACITE DE SERRAGE EN MORS MONOBLOC                |
| P.5     | CAPACITE DE SERRAGE EN MORS REVERSIBLE ISO          |
| P.6     | VUE ECLATEE PRECILAD                                |
| P.7     | VUE ECLATEE MANDRIN                                 |
| P.8     | AVANTAGES PRECILAD                                  |
| P.9     | REFERENCES ET DONNEES SUR PRECILAD                  |
| P.10/17 | MANDRINS A SERRAGE CONCENTRIQUE                     |
| p.10/11 | à montage sur contre plateau, DIN 6351(A.C.P.)      |
| p.12/13 | à montage direct sur broche DIN 55026 (type A1-A2)  |
| p.14/15 | à montage direct sur broche DIN 55027 (Baïonnettes) |
| p.16/17 | à montage direct sur broche DIN 55029 (Camlock)     |
| P.18    | MANDRINS A REGLAGE DE CONCENTRICITE                 |
| P.19    | MANDRINS A COURONNE MOLETEE ET A LEVIER             |
| P.19    | MANDRINS POUR FORETS                                |
| P.20/22 | MANDRINS A COMBINAISONS                             |
| p.20    | à montage sur contre plateau, DIN 6351(A.C.P.)      |
| p.21    | à montage direct sur broche DIN 55026 (type A1-A2)  |
| p.21    | à montage direct sur broche DIN 55027 (Baïonnettes) |
| p.22    | à montage direct sur broche DIN 55029 (Camlock)     |
| P.23    | MANDRINS ETANCHES COPEAUX, COURSES LIMITEE          |
| p.23    | à montage sur contre plateau, DIN 6351(A.C.P.)      |
| p.23    | à montage direct sur broche DIN 55026 (type A1-A2)  |
| P.24/27 | PLATEAUX 4 MORS INDEPENDANTS                        |
| p.24    | à montage sur contre plateau, DIN 6351(A.C.P.)      |
| p.25    | à montage direct sur broche DIN 55026 (type A1-A2)  |
| p.26    | à montage direct sur broche DIN 55027 (Baïonnettes) |
| p.27    | à montage direct sur broche DIN 55029 (Camlock)     |
| P.28    | PLATEAUX A TROUS                                    |
| P.28    | PLATEAUX A RAINURES                                 |
| P.29    | FLASQUES D'ADAPTATION MANDRINS SUR BROCHE           |
| P.30/31 | PIECES DETACHEES POUR MANDRINS                      |
| P.32    | CARTERS - TOCS - POINTES TOURNANTES & DIVERS        |

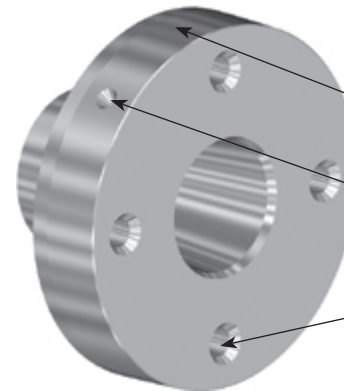
|                                                          |
|----------------------------------------------------------|
| CURRENT SPINDLES                                         |
| Ø CAPACITY TO TIGHT WITH MONOBLOC JAWS                   |
| Ø CAPACITY TO TIGHT WITH REVERSIBLE ISO JAWS             |
| EXPLODED VIEW PRECILAD                                   |
| EXPLODED VIEW CHUCK                                      |
| ADVANTAGES WITH PRECILAD                                 |
| DATA AND REFERENCES ON PRECILAD                          |
| CONCENTRIC-CHUCKS                                        |
| with flange (DIN 6351)                                   |
| direct assembly on spindle nose DIN 55026 (type A1-A2)   |
| direct assembly on spindle nose DIN 55027 (bayonets)     |
| direct assembly on spindle nose DIN 55029 (Camlock)      |
| CONCENTRIC-CHUCK WITH ADJUSTABLE CONCENTRICITY           |
| CONCENTRIC-CHUCK WITH LEVER                              |
| CONCENTRIC-CHUCK FOR TWIST DRILL                         |
| CONCENTRIC-CHUCK AND COMBINAISONS JAWS                   |
| with flange (DIN 6351)                                   |
| direct assembly on spindle nose DIN 55026 (type A1-A2)   |
| direct assembly on spindle nose DIN 55027 (bayonets)     |
| direct assembly on spindle nose DIN 55029 (Camlock)      |
| TIGHT CHUCKS WITH LIMITED REMOVAL JAWS                   |
| with flange (DIN 6351)                                   |
| direct assembly on spindle nose DIN 55026 (type A1-A2)   |
| 4 INDEPENDANT JAWS PLATES                                |
| with flange (DIN 6351)                                   |
| direct assembly on spindle nose DIN 55026 (type A1-A2)   |
| direct assembly on spindle nose DIN 55027 (bayonets)     |
| direct assembly on spindle nose DIN 55029 (Camlock)      |
| PLATES WITH HOLES                                        |
| PLATES WITH SLOTES                                       |
| FLANGES TO FIXE CHUCKS ON SPINDLE NOSE                   |
| PIECES FOR CHUCKS                                        |
| SAFETY PROTECTION CHUCK - BACK CENTER - SAFETY LATHE DOG |





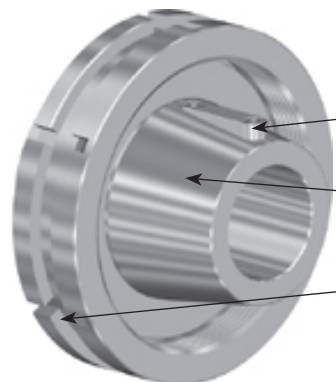
◁ BROCHE A CENTRAGE CYLINDRIQUE / SPINDLE  
CYLINDRICAL CENTERING - DIN 6350

- Un centrage cylindrique mâle sur la face de la broche.  
One male cylindrical centering on the face of the spindle.



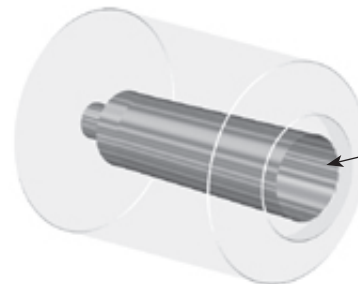
◁ BROCHE CAZENEUVE / SPINDLE CAZENEUVE

- Cône court sur le nez de broche.  
Short cone on the spindle nose.
- 3 logements conçus pour vis pointeau, sur le cône de la broche;  
3 cone positions for set screws on the spindle cone.
- 4 trous de fixation sur la face avant du nez de broche.  
4 holes for passage of fixing screws on the front cone.



◁ BROCHE TYPE L / SPINDLE TYPE L - ASA B 5.9

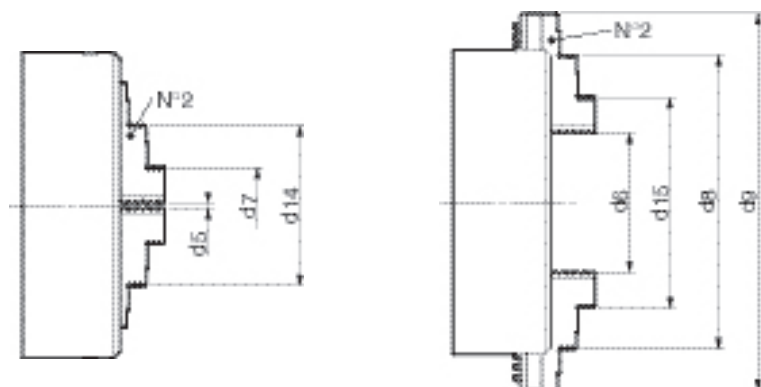
- Une clavette d'entraînement.  
Pin feeding.
- Cône mâle long.  
Long male cone.
- 1 bague tournante filetée assurant la fixation des mandrins.  
Turning bushing, for tightening chuck.



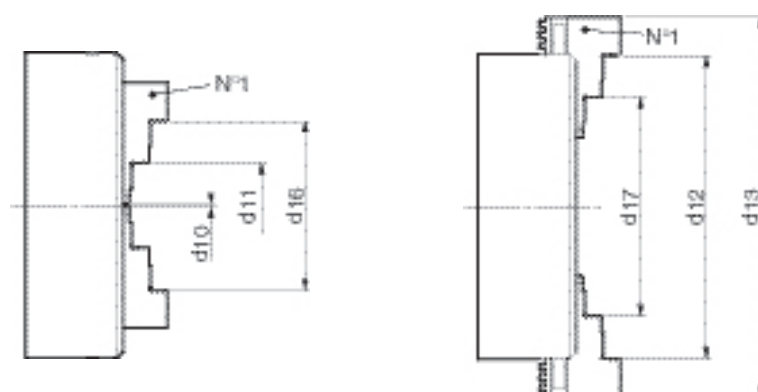
◁ BROCHE A CONE MORSE / MORSE TAPER-SPINDLE

- Cône femelle long à environ 5 %.  
Long female cone (5 %).

CARACTERISTIQUES (CHARACTERISTICS)



CARACTERISTIQUES (CHARACTERISTICS)

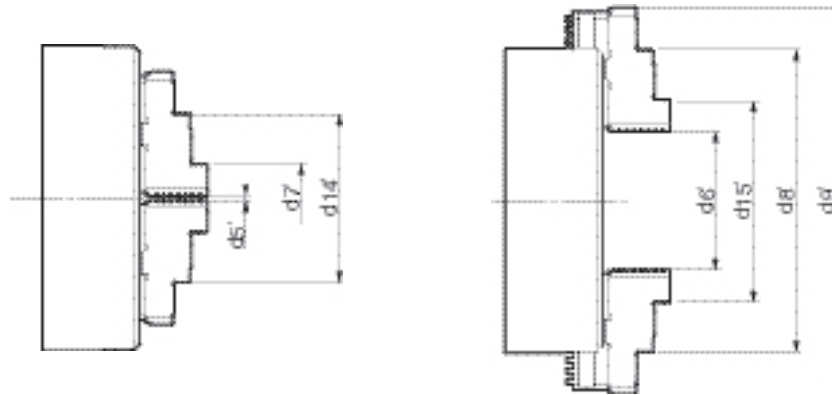


| mm     | Ø 80 | Ø 100 | Ø 125 | Ø 160 | Ø 200 | Ø 215 | Ø 250 | Ø 315 | Ø 350 | Ø 400 | Ø 500 | Ø 630 |
|--------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| d9/d13 | 100  | 128   | 159   | 200   | 253   | 268   | 315   | 393   | 437   | 487   | 608   | 750   |
| d5     | 1    | 2     | 2     | 3     | 4     | 4     | 5     | 10    | 10    | 12    | 20    | 20    |
| d7     | 25   | 28    | 36    | 43    | 54    | 54    | 65    | 86    | 86    | 88    | 120   | 120   |
| d14    | 43   | 58    | 70    | 83    | 114   | 114   | 133   | 166   | 178   | 180   | 232   | 250   |
| d6     | 40   | 42    | 57    | 78    | 93    | 108   | 119   | 157   | 177   | 227   | 284   | 390   |
| d15    | 64   | 68    | 91    | 118   | 143   | 158   | 179   | 233   | 253   | 303   | 384   | 490   |
| d8     | 82   | 98    | 125   | 158   | 203   | 218   | 247   | 313   | 345   | 395   | 496   | 620   |
| d10    | 1    | 2     | 2     | 3     | 4     | 4     | 5     | 10    | 10    | 12    | 20    | 20    |
| d11    | 19   | 32    | 36    | 45    | 60    | 60    | 73    | 86    | 102   | 104   | 132   | 150   |
| d16    | 37   | 62    | 70    | 85    | 116   | 116   | 141   | 166   | 194   | 196   | 244   | 280   |
| d17    | 58   | 72    | 91    | 120   | 149   | 164   | 187   | 233   | 269   | 319   | 396   | 520   |
| d12    | 76   | 102   | 125   | 160   | 205   | 220   | 255   | 313   | 361   | 411   | 508   | 650   |

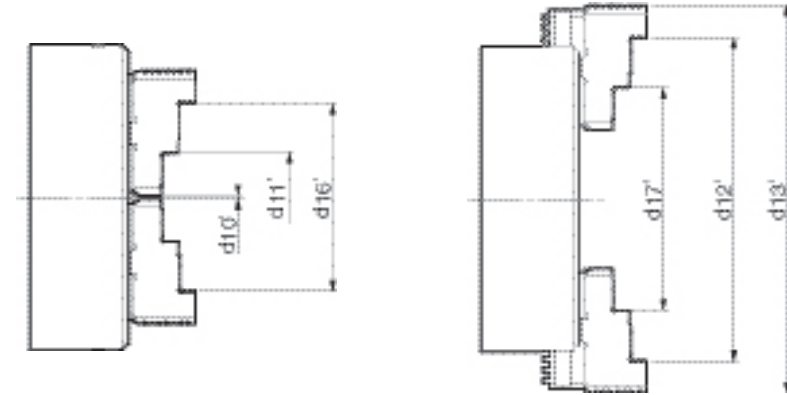
# CAPACITE DE SERRAGE DES MANDRINS A SERRAGE CONCENTRIQUE EN MORS REVERSIBLE ISO

## Ø CAPACITY TO TIGHT WITH REVERSIBLE ISO JAWS

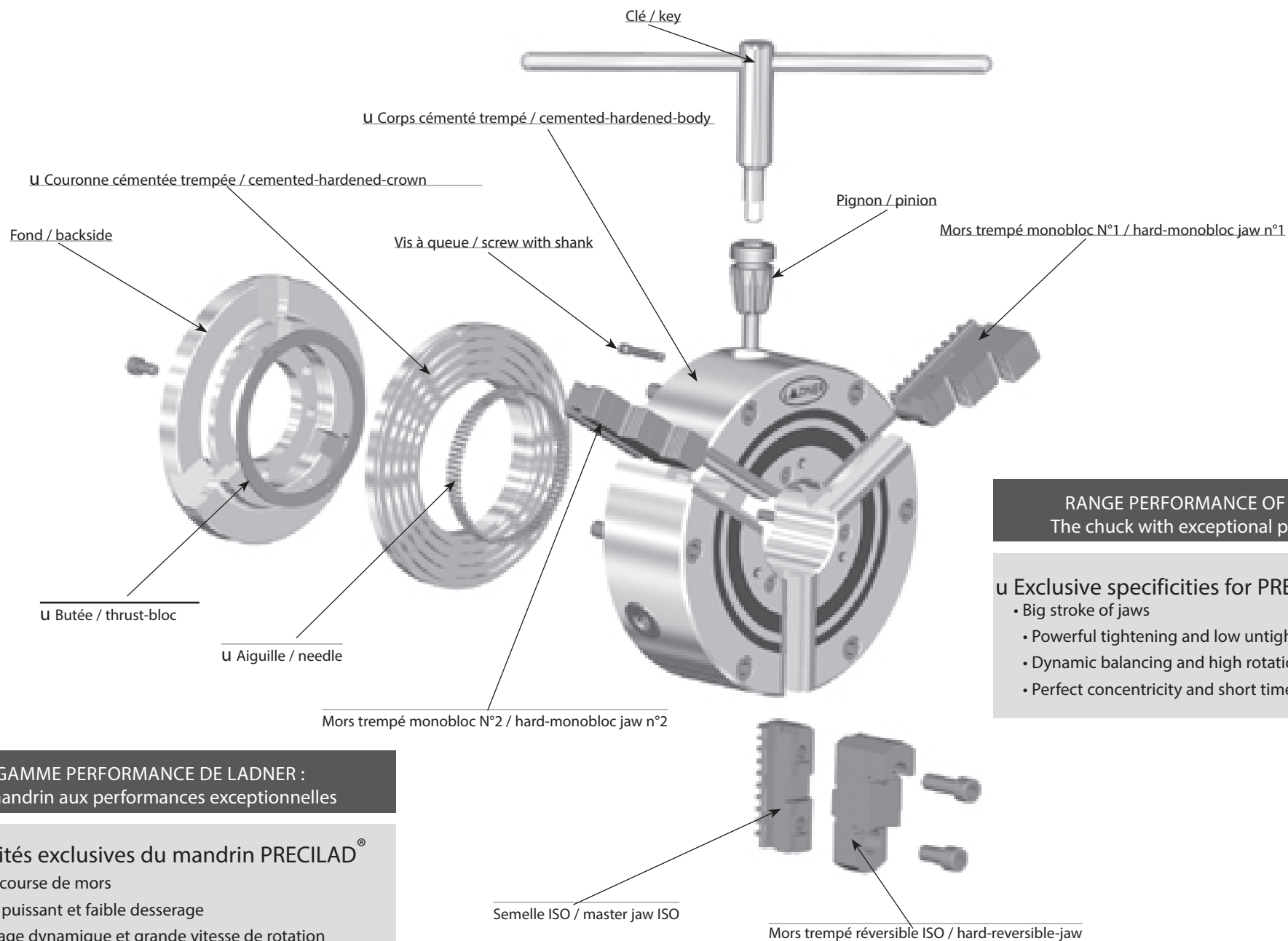
CARACTERISTIQUES (CHARACTERISTICS)



CARACTERISTIQUES (CHARACTERISTICS)



| mm      | Ø 80 | Ø 100 | Ø 125 | Ø 160 | Ø 200 | Ø 215 | Ø 250 | Ø 315 | Ø 350 | Ø 400 | Ø 500 | Ø 630 |
|---------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| d9'd13' | -    | -     | 160   | 204   | 259   | 274   | 318   | 394   | 443   | 493   | 593   | 723   |
| d5'     | -    | -     | 3     | 3     | 4     | 4     | 8     | 15    | 20    | 20    | 40    | 80    |
| d7'     | -    | -     | 35    | 40    | 48    | 48    | 60    | 79    | 120   | 120   | 146   | 186   |
| d14'    | -    | -     | 69    | 88    | 112   | 112   | 140   | 167   | 200   | 200   | 218   | 258   |
| d6'     | -    | -     | 56    | 71    | 83    | 98    | 114   | 158   | 165   | 215   | 313   | 443   |
| d15'    | -    | -     | 88    | 108   | 127   | 142   | 166   | 222   | 265   | 315   | 419   | 549   |
| d8'     | -    | -     | 122   | 156   | 191   | 206   | 246   | 310   | 345   | 395   | 491   | 621   |
| d10'    | -    | -     | 3     | 3     | 4     | 4     | 8     | 15    | 20    | 20    | 40    | 80    |
| d11'    | -    | -     | 41    | 51    | 72    | 72    | 80    | 99    | 118   | 118   | 142   | 182   |
| d16'    | -    | -     | 75    | 99    | 136   | 136   | 160   | 187   | 198   | 198   | 214   | 254   |
| d17'    | -    | -     | 94    | 119   | 151   | 166   | 186   | 242   | 263   | 313   | 415   | 545   |
| d12'    | -    | -     | 128   | 167   | 215   | 230   | 266   | 330   | 343   | 393   | 487   | 617   |



GAMME PERFORMANCE DE LADNER :  
Le mandrin aux performances exceptionnelles

u Spécificités exclusives du mandrin PRECILAD®

- Grande course de mors
- Serrage puissant et faible desserage
- Equilibrage dynamique et grande vitesse de rotation
- Grande concentricité et mors rapidement réusinables

RANGE PERFORMANCE OF LADNER :  
The chuck with exceptional performance

u Exclusive specificities for PRECILAD® chuck

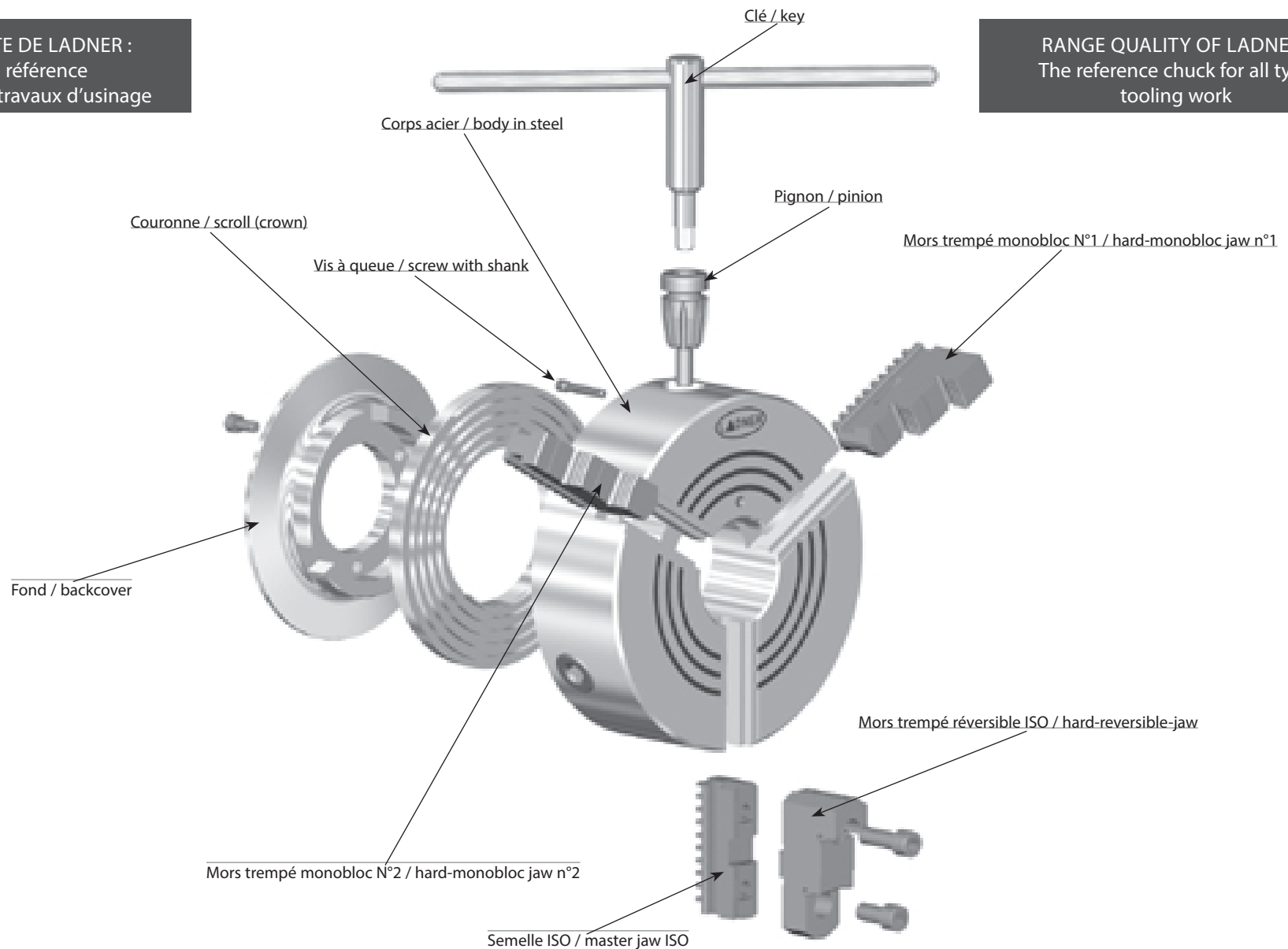
- Big stroke of jaws
- Powerful tightening and low untightening
- Dynamic balancing and high rotation speed
- Perfect concentricity and short time to tool the jaws

# MANDRIN A SERRAGE CONCENTRIQUE / VUE ECLATEE

## CONCENTRIC CHUCKS / EXPLODED VIEW

GAMME QUALITE DE LADNER :  
Le mandrin référence  
pour tout type de travaux d'usinage

RANGE QUALITY OF LADNER :  
The reference chuck for all type  
tooling work





Mors n°2

Precilad a été conçu pour répondre aux besoins de clients qui recherchent une efficacité :

- dans les temps de démarrage de leurs fabrications (suppression des réglages),
- dans les précisions d'exécution des pièces (0,01 mm),
- dans la totale exploitation de leur machine (rotation élevée),
- dans la réduction des outillages à utiliser.

Precilad has been studied for customers who want:

get good times for start all manufacturing,  
 get a higher precision (0,01 mm),  
 get a complete utilizing of their machine with a speed rotation higher,  
 get a reducing of accessories for manufacturing with a horizontal lathe.



Mors n°1

#### CONCENTRICITE PARFAITE

- Concentricité supérieure aux mandrins existant.
- Un seul mandrin pour tous vos travaux précis.

#### VITESSE DE ROTATION ELEVÉE

- Précilad tourne à la vitesse maxi de votre broche.

#### EQUILIBRAGE DYNAMIQUE PRECIS

- Equicentrage des mors (® Ladner), et de la couronne.
- Suppression possible des rectifications.

#### PUISSANCE DE SERRAGE EXCEPTIONNELLE

- 1) Spirale spéciale avec montage spécial.
- 2) Taille des mors optimisés entre raideur et poids.
- 3) Forces de desserrage plus faibles.

#### CONSTANCE DES QUALITES DU PRECILAD

- Corps, couronne et mors en acier cémenté trempé.
- Couronne sans jeu, sans frottement, (® Ladner).

#### PERFECT CONCENTRICITY

- Very high concentricity on Precilad  $\leq 0,01$ mm.
- Precilad realise all kind of precise manufacturing on horizontal-lathe.

#### HIGH ROTATION SPEED

- Precilad turn at the maxi rotation-speed of your spindle horizontal-lathe.

#### HIGH LEVEL OF DYNAMIC BALANCING

- Equicentered jaws, (® Ladner), and crown.
- Possible to avoid many grinding machine operations.

#### EXCEPTIONAL TIGHTENING POWER

- 1) Special spiral with special assembly.
- 2) Design jaws to get the best balancing between mass and tightness.
- 3) Weak untightening strength.

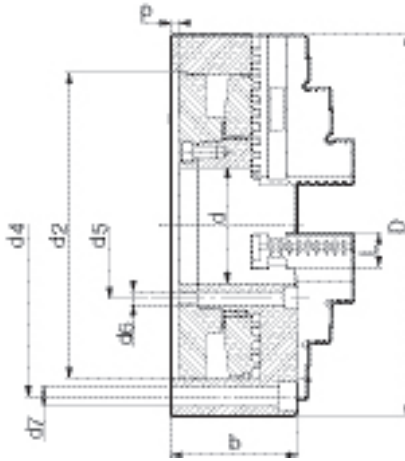
#### LONG-LASTING QUALITY PRECILAD

- Body, crown and jaws are made with cemented-hardened steel.
- Assembly crown without slight, without friction, (® Ladner).

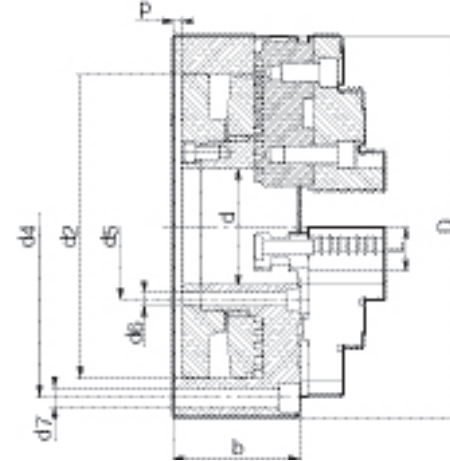


Mors ISO

CARACTERISTIQUES (CHARACTERISTICS)



Equipé de 3 mors durs monoblocs



Equipé de 3 mors durs réversibles ISO

| Ø MANDRINS (ø chucks)                                    | D | 160   | 200   | 250   | 315   |
|----------------------------------------------------------|---|-------|-------|-------|-------|
| Epaisseur mandrin (thickness-chuck) . . . . . b          |   | 70,5  | 80,5  | 83,0  | 93,0  |
| Largeur mors (width-jaw) . . . . . L                     |   | 20,0  | 23,0  | 25,0  | 33,0  |
| Passage de barre (internal-passag-Ø) . . . . . d         |   | 40,5  | 55,0  | 76,0  | 105,0 |
| Profondeur centrage (depth-concentric centering) p       |   | 4,6   | 4,6   | 5,6   | 5,6   |
| Concentricité en mm (concentric-fault mm) . . . . .      |   | 0,01  | 0,01  | 0,01  | 0,01  |
| Centrage cylindrique (cylindrical-centering) . . . d2/H6 |   | 125   | 160   | 200   | 260   |
| Ø Fixation (fixing-Ø) . . . . . d4                       |   | 140   | 176   | 224   | 286   |
| Ø Fixation (fixing-Ø) . . . . . d5                       |   | 54    | 70    | 95    | 133,4 |
| Vis CHc (screws CHc) . . . . . d6                        |   | 3*M6  | 3*M6  | 3*M8  | 6*M12 |
| Vis CHc (screws CHc) . . . . . d7                        |   | 6*M10 | 6*M10 | 6*M12 | 6*M12 |

Mandrin équipé de mors monoblocs (monobloc-hard-jaws equipment)

|                                           | D     | 160           | 200           | 250           | 315           |
|-------------------------------------------|-------|---------------|---------------|---------------|---------------|
| ‰ 3 mors durs Mono (3 monobloc-hard-jaws) | Réf.  | 014623EQ13E00 | 014631EQ13E00 | 014641EQ13E00 | 014654EQ13E00 |
| Poids mandrin (weight)                    | kg    | 9,2           | 16,0          | 26,3          | 46,3          |
| Vitesse maxi (maxi-speed)                 | tr/mn | 9000          | 6500          | 4500          | 3500          |

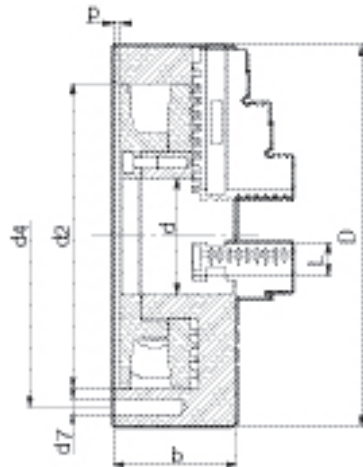
Mandrin équipé de mors réversibles ISO (reversible-hard-ISO-jaws equipment)

|                                              | D     | 160           | 200           | 250           | 315           |
|----------------------------------------------|-------|---------------|---------------|---------------|---------------|
| 3 mors durs ISO (3 reversible-hard-ISO-jaws) | Réf.  | 014623EQ43E00 | 014631EQ43E00 | 014641EQ43E00 | 014654EQ43E00 |
| Poids mandrin (weight)                       | kg    | 9,8           | 17,1          | 27,8          | 47,6          |
| Vitesse maxi (maxi-speed)                    | tr/mn | 6000          | 4500          | 3500          | 2500          |

‰ Réf. standard en stock (standard ref. in stock)

\* Consulter pour demande spéciale ou pour d'autres équipements en mors rapportés (\* Call Ladner for special manufacturing and other jaws equipments)

Mandrin standard 3 mors

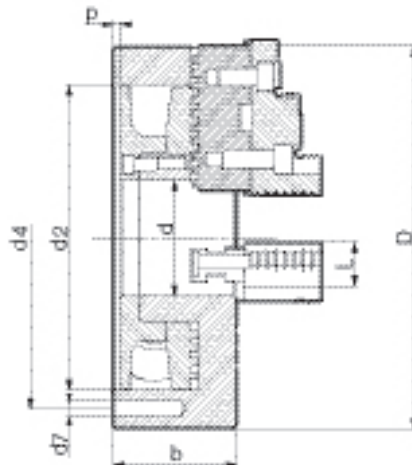


Equipé de  
mors durs



Mors n°1

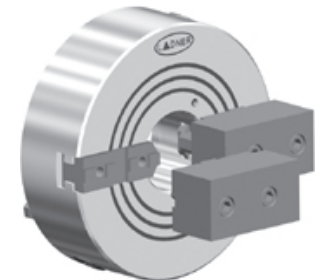
Mors n°2



Equipé de semelles  
et de mors durs réversibles ISO

Mandrin 2, 4, ou 6 mors

Equipé de mors durs monoblocs  
ou de mors durs réversibles ISO



N'existe qu'en 2 mors doux ISO



4 mors



6 mors

# MANDRINS ACIER A SERRAGE CONCENTRIQUE / concentric-chucks, body in steel

## MONTAGE SUR CONTRE-PLATEAU / adapted on spindle nose with flange

DIN 6351

| Ø MANDRINS (chucks)                                      | D | 80   | 100  | 125  | 160   | 200   | 250   | 315   | 350   | 400   | 500   | 630   |
|----------------------------------------------------------|---|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| Epaisseur mandrin (thickness-chuck)..... b               |   | 44,0 | 48,5 | 56,0 | 64,5  | 74,5  | 81,0  | 93,0  | 102,5 | 106,0 | 110,0 | 132,0 |
| Largeur mors (width-jaw) ..... L                         |   | 12   | 14   | 18   | 20    | 23    | 25    | 33    | 37    | 37    | 48    | 48    |
| Passage de barre (internal-passagge-Ø)..... d            |   | 16,0 | 22,0 | 32,0 | 40,5  | 55,0  | 76,0  | 100,0 | 110,0 | 130,0 | 190,0 | 240,0 |
| Profondeur centrage (depth-concentric centering) ..... p |   | 3,0  | 3,5  | 4,0  | 4,0   | 4,0   | 5,0   | 5,0   | 6,0   | 6,0   | 6,5   | 7,0   |
| Concentricité en mm (concentric-fault mm) ..... p        |   | 0,04 | 0,04 | 0,04 | 0,04  | 0,05  | 0,05  | 0,06  | 0,06  | 0,06  | 0,07  | 0,07  |
| Centrage cylindrique (cylindrical-centering) ..... d2/H6 |   | 56   | 70   | 95   | 125   | 160   | 200   | 260   | 290   | 330   | 420   | 545   |
| Ø Fixation (fixing-Ø) ..... d4                           |   | 67   | 83   | 108  | 140   | 176   | 224   | 286   | 320   | 362   | 458   | 586   |
| Vis H (screws H)..... d7                                 |   | 3*M6 | 3*M8 | 3*M8 | 3*M10 | 3*M10 | 3*M12 | 6*M12 | 3*M14 | 6*M16 | 6*M16 | 6*M16 |

| Mandrin équipé de (chuck equipped with)                 |                                                | MORS MONOBLOCS<br>(monobloc-jaws equipment)  |               |               |               |               |               |               |               |               |               |               |               |  |
|---------------------------------------------------------|------------------------------------------------|----------------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|
|                                                         |                                                | D                                            | 80            | 100           | 125           | 160           | 200           | 250           | 315           | 350           | 400           | 500           | 630           |  |
|                                                         | % 3 mors durs Mono (3 monobloc-hard-jaws)      | Réf.                                         | 010007EQ13E00 | 010011EQ13E00 | 010016EQ13E00 | 010023EQ13E00 | 010031EQ13E00 | 010041EQ13E00 | 010054EQ13E00 | 010061EQ13E00 | 010071EQ13E00 | 010073EQ13E00 | 010075EQ13E00 |  |
|                                                         | Poids mandrin (weight)                         | kg                                           | 1,4           | 2,0           | 4,2           | 7,0           | 13,5          | 24,0          | 42,5          | 56,0          | 76,0          | 125,0         | 232,0         |  |
|                                                         | Vitesse maxi (maxi-speed)                      | tr/mn                                        | 7900          | 6300          | 5050          | 3950          | 3150          | 2500          | 2000          | 1800          | 1500          | 1250          | 1000          |  |
|                                                         | 4 mors durs Mono (4 monobloc-hard-jaws)        | Réf.                                         | -             | 010011EQ14E00 | 010016EQ14E00 | 010023EQ14E00 | 010031EQ14E00 | 010041EQ14E00 | 010054EQ14E00 | -             | 010071EQ14E00 | 010073EQ14E00 | 010075EQ14E00 |  |
|                                                         | Poids mandrin (weight)                         | kg                                           | -             | 2,3           | 4,7           | 7,5           | 14,0          | 24,8          | 43,3          | -             | 77,5          | 127,0         | 234,0         |  |
|                                                         | Vitesse maxi (maxi-speed)                      | tr/mn                                        | -             | 5500          | 4400          | 3400          | 2700          | 2200          | 1700          | -             | 1300          | 1100          | 900           |  |
|                                                         | 6 mors durs Mono (6 monobloc-hard-jaws)        | Réf.                                         | -             | 010011EQ16E00 | 010016EQ16E00 | 010023EQ16E00 | 010031EQ16E00 | 010041EQ16E00 | 010054EQ16E00 | -             | 010071EQ16E00 | 010073EQ16E00 | 010075EQ16E00 |  |
|                                                         | Poids mandrin (weight)                         | kg                                           | -             | 2,5           | 5,1           | 8,1           | 14,6          | 25,6          | 45,0          | -             | 80,0          | 132,0         | 242,0         |  |
|                                                         | Vitesse maxi (maxi-speed)                      | tr/mn                                        | -             | 4500          | 3600          | 2800          | 2200          | 1800          | 1400          | -             | 1100          | 900           | 700           |  |
|                                                         |                                                |                                              |               |               |               |               |               |               |               |               |               |               |               |  |
| MORS REVERSIBLES ISO<br>(reversible-ISO-jaws equipment) |                                                | D 80 100 125 160 200 250 315 350 400 500 630 |               |               |               |               |               |               |               |               |               |               |               |  |
|                                                         |                                                | D                                            | 80            | 100           | 125           | 160           | 200           | 250           | 315           | 350           | 400           | 500           | 630           |  |
|                                                         | % 3 mors durs ISO (3 reversible-hard-ISO-jaws) | Réf.                                         | -             | -             | 010016EQ43E00 | 010023EQ43E00 | 010031EQ43E00 | 010041EQ43E00 | 010054EQ43E00 | 010061EQ43E00 | 010071EQ43E00 | 010073EQ43E00 | 010075EQ43E00 |  |
|                                                         | Poids mandrin (weight)                         | kg                                           | -             | -             | 5,0           | 7,5           | 14,3          | 25,0          | 43,4          | 59,0          | 79,0          | 127,5         | 232,0         |  |
|                                                         | Vitesse maxi (maxi-speed)                      | tr/mn                                        | -             | -             | 5050          | 3950          | 3150          | 2500          | 2000          | 1800          | 1500          | 1300          | 1000          |  |
|                                                         | 2 mors doux ISO (2 reversible-soft-ISO-jaws)   | Réf.                                         | -             | -             | 010016EQ42E00 | 010023EQ42E00 | 010031EQ42E00 | 010041EQ42E00 | 010054EQ42E00 | -             | 010071EQ42E00 | 010073EQ42E00 | 010075EQ42E00 |  |
|                                                         | Poids mandrin (weight)                         | kg                                           | -             | -             | 5,0           | 7,5           | 14,3          | 25,0          | 43,4          | -             | 79,0          | 127,5         | 232,0         |  |
|                                                         | Vitesse maxi (maxi-speed)                      | tr/mn                                        | -             | -             | 5000          | 4000          | 3200          | 2500          | 2000          | -             | 1500          | 1300          | 1000          |  |
|                                                         | 4 mors durs ISO (4 reversible-hard-ISO-jaws)   | Réf.                                         | -             | -             | 010016EQ44E00 | 010023EQ44E00 | 010031EQ44E00 | 010041EQ44E00 | 010054EQ44E00 | -             | 010071EQ44E00 | 010073EQ44E00 | 010075EQ44E00 |  |
|                                                         | Poids mandrin (weight)                         | kg                                           | -             | -             | 5,3           | 8,0           | 14,8          | 26,0          | 44,0          | -             | 82,0          | 131,5         | 236,0         |  |
|                                                         | Vitesse maxi (maxi-speed)                      | tr/mn                                        | -             | -             | 4400          | 3400          | 2700          | 2200          | 1700          | -             | 1300          | 1100          | 900           |  |
|                                                         | 6 mors durs ISO (6 reversible-hard-ISO-jaws)   | Réf.                                         | -             | -             | 010016EQ46E00 | 010023EQ46E00 | 010031EQ46E00 | 010041EQ46E00 | 010054EQ46E00 | -             | 010071EQ46E00 | 010073EQ46E00 | 010075EQ46E00 |  |
|                                                         | Poids mandrin (weight)                         | kg                                           | -             | -             | 5,8           | 8,9           | 16,7          | 28,2          | 48,8          | -             | 88,0          | 144,6         | 244,0         |  |
|                                                         | Vitesse maxi (maxi-speed)                      | tr/mn                                        | -             | -             | 3600          | 2800          | 2200          | 1800          | 1400          | -             | 1100          | 900           | 700           |  |

% Réf. standard en stock (standard ref. in stock)

\* Consulter pour demande spéciale ou pour d'autres équipements en mors rapportés (\* Call Ladner for special manufacturing and other jaws equipments)

Mandrin standard 3 mors

Equipé de mors durs monoblocs



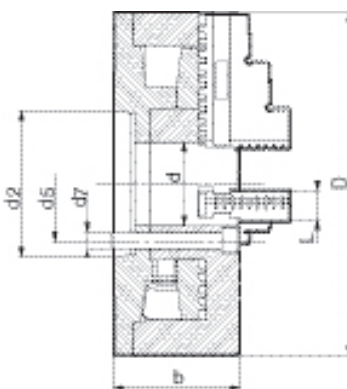
Mors n°2



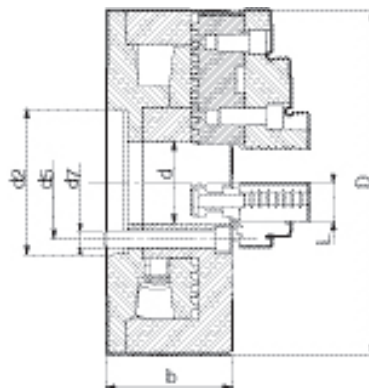
Mors n°1



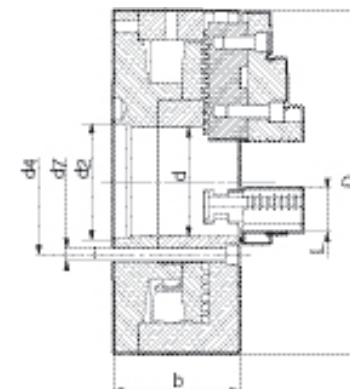
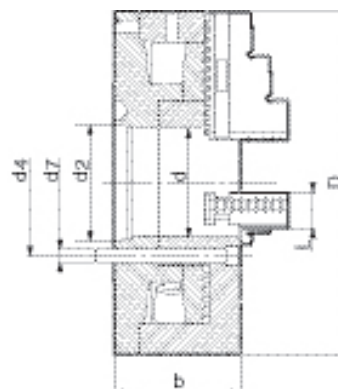
Equipé de semelles  
et de mors durs réversibles ISO



Fixation A1



Fixation A2



Mandrin 4 mors



mors n°2 monoblocs



mors n°1 monoblocs



mors réversibles ISO

# MANDRINS ACIER A SERRAGE CONCENTRIQUE / concentric-chucks, body in steel

## MONTAGE DIRECT SUR BROCHE A1-A2 / direct assembly on spindle nose A1-A2

DIN 55026

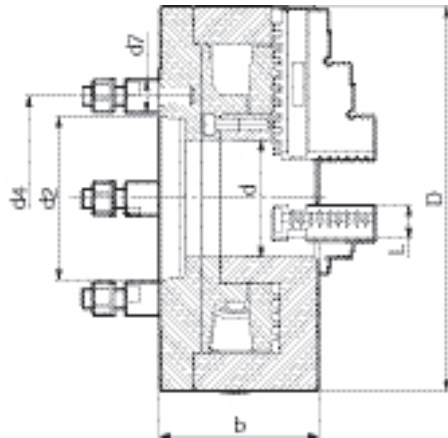
| BROCHE (spindle nose)<br>Ø MANDRINS (Ø chucks)         | D | 4"    | 5"    | 4"    | 5"    | 6"     | 6"     | 8"     | 6"     | 8"     | 6"     | 8"     | 11"            | 8"     | 11"            | 8"     | 11"            | 15"            |
|--------------------------------------------------------|---|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|----------------|--------|----------------|--------|----------------|----------------|
|                                                        |   | 160   | 160   | 200   | 200   | 215    | 250    | 250    | 315    | 315    | 400    | 400    | 400            | 500    | 500            | 630    | 630            | 630            |
| Epaisseur mandrin (thickness-chuck) . . . . . b        |   | 75,0  | 75,0  | 83,0  | 83,0  | 85,0   | 92,0   | 92,0   | 116,0  | 116,0  | 129,0  | 129,0  | 129,0          | 137,0  | 137,0          | 164,0  | 164,0          | 164,0          |
| Largeur mors (width-jaw) . . . . . L                   |   | 20    | 20    | 23    | 23    | 23     | 25     | 25     | 33     | 33     | 37     | 37     | 37             | 48     | 48             | 48     | 48             | 48             |
| Passage de barre (internal-passage-Ø) . . . . . d      |   | 32,0  | 40,5  | 55,0  | 40,5  | 60,5   | 60,5   | 76,0   | 100,0  | 80,0   | 100,0  | 130,0  | 130,0          | 130,0  | 190,0          | 130,0  | 190,0          | 190,0          |
| Concentricité en mm (concentric-fault mm) . . . . .    |   | 0,04  | 0,04  | 0,05  | 0,05  | 0,05   | 0,05   | 0,05   | 0,06   | 0,06   | 0,06   | 0,06   | 0,06           | 0,07   | 0,07           | 0,075  | 0,075          | 0,075          |
| Centrage conique (conical-centering) . . . . . d2      |   | 63,52 | 82,57 | 63,52 | 82,57 | 106,38 | 106,38 | 139,72 | 106,38 | 139,72 | 106,38 | 139,72 | 196,88         | 139,72 | 196,87         | 139,72 | 196,87         | 285,80         |
| Ø Fixation A2 (fixing A2-Ø) . . . . . d4               |   | -     | -     | 82,6  | -     | -      | -      | -      | 133,4  | -      | 133,4  | 171,4  | -              | 171,4  | 235            | 171,4  | 235            | -              |
| Ø Fixation A1 (fixing A1-Ø) . . . . . d5               |   | 47,6  | 61,9  | -     | 61,9  | 82,6   | 82,6   | 111,1  | -      | 111,1  | -      | -      | 165,1          | -      | -              | -      | -              | 247,6          |
| Passage vis fixation (passage for screws) . . . . . d7 |   | 3*M9  | 3*M10 | 3*M10 | 3*M10 | 3*M12  | 6*M12  | 3*M16  | 6*M12  | 6*M16  | 6*M12  | 6*M16  | 6*M18<br>6*M20 | 6*M16  | 6*M18<br>6*M20 | 6*M16  | 6*M18<br>6*M20 | 6*M22<br>6*M24 |

| Mandrin équipé de (chuck equipped with) | MORS MONOBLOCS<br>(monobloc-jaws equipment)             |                                                | D     | 160 / 4"      | 160 / 5"      | 200 / 4"      | 200 / 5"      | 215 / 6"      | 250 / 6"      | 250 / 8"      | 315 / 6"      | 315 / 8"      |
|-----------------------------------------|---------------------------------------------------------|------------------------------------------------|-------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
|                                         |                                                         | % 3 mors durs Mono (3 monobloc-hard-jaws)      | Réf.  | 010023AB13E00 | 010023AC13E00 | 010031BB13E00 | 010031AC13E00 | 010034AD13E00 | 010041AD13E00 | 010041AE13E00 | 010054BD13E00 | 010054AE13E00 |
|                                         |                                                         | Poids mandrin (weight)                         | kg    | 8,5           | 8,0           | 14,0          | 14,5          | 18,0          | 28,0          | 28,0          | 53,7          | 54,0          |
|                                         |                                                         | Vitesse maxi (maxi-speed)                      | tr/mn | 3950          | 3950          | 3150          | 3150          | 2900          | 2500          | 2500          | 2000          | 2000          |
|                                         |                                                         | 4 mors durs Mono (4 monobloc-hard-jaws)        | Réf.  | -             | -             | -             | 010031AC14E00 | -             | 010041AD14E00 | -             | 010054BD14E00 | 010054AE14E00 |
|                                         |                                                         | Poids mandrin (weight)                         | kg    | -             | -             | -             | 15,0          | -             | 28,8          | -             | 55,2          | 55,5          |
|                                         |                                                         | Vitesse maxi (maxi-speed)                      | tr/mn | -             | -             | -             | 2700          | -             | 2200          | -             | 1700          | 1700          |
|                                         |                                                         |                                                | D     | 400 / 6"      | 400 / 8"      | 400 / 11"     | 500 / 8"      | 500 / 11"     | 630 / 8"      | 630 / 11"     | 630 / 15"     |               |
|                                         |                                                         | % 3 mors durs Mono (3 monobloc-hard-jaws)      | Réf.  | 010071BD13E00 | 010071BE13E00 | 010071AF13E00 | 010073BE13E00 | 010073BF13E00 | 010075BE13E00 | 010075BF13E00 | 010075AG13E00 |               |
|                                         |                                                         | Poids mandrin (weight)                         | kg    | 88,0          | 86,0          | 85,0          | 156,0         | 154,0         | 301,3         | 301,3         | 299,3         |               |
|                                         |                                                         | Vitesse maxi (maxi-speed)                      | tr/mn | 1500          | 1500          | 1500          | 1250          | 1250          | 1000          | 1000          | 1000          |               |
|                                         | MORS REVERSIBLES ISO<br>(reversible-ISO-jaws equipment) | 4 mors durs Mono (4 monobloc-hard-jaws)        | Réf.  | -             | -             | -             | -             | -             | -             | -             | -             | -             |
|                                         |                                                         | Poids mandrin (weight)                         | kg    | -             | -             | -             | -             | -             | -             | -             | -             | -             |
|                                         |                                                         | Vitesse maxi (maxi-speed)                      | tr/mn | -             | -             | -             | -             | -             | -             | -             | -             | -             |
|                                         |                                                         |                                                | D     | 160 / 4"      | 160 / 5"      | 200 / 4"      | 200 / 5"      | 215 / 6"      | 250 / 6"      | 250 / 8"      | 315 / 6"      | 315 / 8"      |
|                                         |                                                         | % 3 mors durs ISO (3 reversible-hard-ISO-jaws) | Réf.  | 010023AB43E00 | 010023AC43E00 | 010031BB43E00 | 010031AC43E00 | 010034AD43E00 | 010041AD43E00 | 010041AE43E00 | 010054BD43E00 | 010054AE43E00 |
|                                         |                                                         | Poids mandrin (weight)                         | kg    | 9,0           | 8,5           | 14,9          | 15,4          | 18,9          | 28,7          | 28,7          | 54,8          | 55,1          |
|                                         |                                                         | Vitesse maxi (maxi-speed)                      | tr/mn | 3200          | 3200          | 2550          | 2550          | 2350          | 2050          | 2050          | 1800          | 1800          |
|                                         |                                                         | 4 mors durs ISO (4 reversible-hard-ISO-jaws)   | Réf.  | -             | -             | -             | 010031AC44E00 | -             | 010041AD44E00 | -             | 010054BD44E00 | 010054AE44E00 |
|                                         |                                                         | Poids mandrin (weight)                         | kg    | -             | -             | -             | 16,2          | -             | 29,8          | -             | 56,7          | 57,0          |
|                                         |                                                         | Vitesse maxi (maxi-speed)                      | tr/mn | -             | -             | -             | 2225          | -             | 1785          | -             | 1540          | 1540          |
|                                         |                                                         |                                                | D     | 400 / 6"      | 400 / 8"      | 400 / 11"     | 500 / 8"      | 500 / 11"     | 630 / 8"      | 630 / 11"     | 630 / 15"     |               |
|                                         |                                                         | % 3 mors durs ISO (3 reversible-hard-ISO-jaws) | Réf.  | 010071BD43E00 | 010071BE43E00 | 010071AF43E00 | 010073BE43E00 | 010073BF43E00 | 010075BE43E00 | 010075BF43E00 | -             |               |
|                                         |                                                         | Poids mandrin (weight)                         | kg    | 91,1          | 89,1          | 88,1          | 157,9         | 155,9         | 303,0         | 303,0         | -             |               |
|                                         |                                                         | Vitesse maxi (maxi-speed)                      | tr/mn | 1250          | 1250          | 1250          | 1150          | 1150          | 900           | 900           | -             |               |
|                                         |                                                         | 4 mors durs ISO (4 reversible-hard-ISO-jaws)   | Réf.  | -             | -             | -             | -             | -             | -             | -             | -             |               |
|                                         |                                                         | Poids mandrin (weight)                         | kg    | -             | -             | -             | -             | -             | -             | -             | -             |               |
|                                         |                                                         | Vitesse maxi (maxi-speed)                      | tr/mn | -             | -             | -             | -             | -             | -             | -             | -             |               |

% Réf. standard en stock (standard ref. in stock)

\* Consulter pour demande spéciale ou pour d'autres équipements en mors rapportés (\* Call Ladner for special manufacturing and other jaws equipments)

Mandrin standard 3 mors



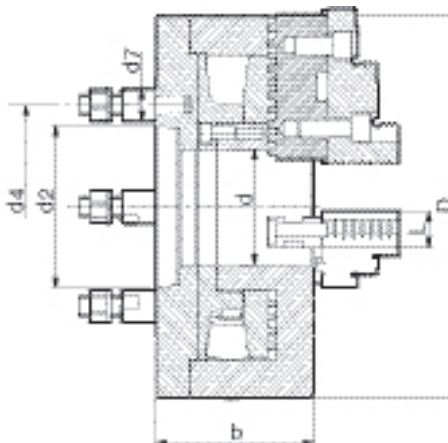
Equipé de mors durs monoblocs



Mors n°2



Mors n°1



Equipé de semelles  
et de mors durs réversibles ISO



Mandrin 4 mors



mors n°2 monoblocs



mors n°1 monoblocs



mors réversibles ISO

# MANDRINS ACIER A SERRAGE CONCENTRIQUE / concentric-chucks, body in steel

## MONTAGE DIRECT SUR BROCHE A BAIONNETTES / direct assembly on spindle nose bayonets

DIN 55027

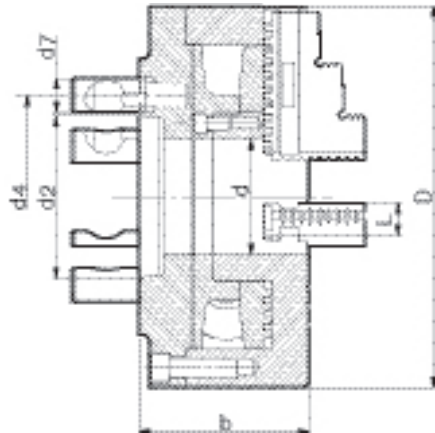
| BROCHE (spindle nose)<br>Ø MANDRINS (Ø chucks)      | D | 4"     | 5"     | 5"     | 6"     | 6"     | 8"     | 6"     | 8"     | 11"    | 8"     | 11"    | 8"     | 11"    | 11"    | 15"    |
|-----------------------------------------------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                                     |   | 160    | 160    | 200    | 215    | 250    | 250    | 315    | 315    | 315    | 400    | 400    | 500    | 500    | 630    | 630    |
| Epaisseur mandrin (thickness-chuck) . . . . . b     |   | 78,5   | 80,0   | 82,0   | 85,0   | 106,0  | 106,0  | 115,0  | 115,0  | 115,0  | 128,0  | 145,0  | 137,0  | 137,0  | 162,0  | 162,0  |
| Largeur mors (width-jaw) . . . . . L                |   | 20,0   | 20,0   | 23,0   | 23,0   | 25,0   | 25,0   | 33,0   | 33,0   | 33,0   | 37,0   | 37,0   | 48,0   | 48,0   | 48,0   | 48,0   |
| Passage de barre (internal-passag-e-Ø) . . . . . d  |   | 40,5   | 40,5   | 55,0   | 60,5   | 76,0   | 76,0   | 100,0  | 100,0  | 100,0  | 130,0  | 130,0  | 130,0  | 190,0  | 190,0  | 240,0  |
| Concentricité en mm (concentric-fault mm) . . . . . |   | 0,04   | 0,04   | 0,05   | 0,05   | 0,05   | 0,05   | 0,06   | 0,06   | 0,06   | 0,06   | 0,06   | 0,07   | 0,07   | 0,075  | 0,075  |
| Centrage conique (conical-centering) . . . . . d2   |   | 63,52  | 82,57  | 82,57  | 106,38 | 106,38 | 139,72 | 106,38 | 139,72 | 196,87 | 139,72 | 196,87 | 139,72 | 196,87 | 196,87 | 285,80 |
| Ø Fixation (fixing-Ø) . . . . . d4                  |   | 85,0   | 104,8  | 104,8  | 133,4  | 133,4  | 171,4  | 133,4  | 171,4  | 235,0  | 171,4  | 235,0  | 171,4  | 235,0  | 235,0  | 330,2  |
| Goujons Din (stud-bolt Din) . . . . . d7            |   | 3*19,5 | 4*19,5 | 4*19,5 | 4*21,5 | 4*21,5 | 4*27   | 4*21,5 | 4*27   | 6*34   | 4*27   | 6*34   | 4*27   | 6*34   | 6*34   | 6*41   |

| Mandrin équipé de (chuck equipped with) | MORS MONOBLOCS<br>(monobloc-jaws equipment)             |                                                | D     | 160 / 4"      | 160 / 5"      | 200 / 5"      | 215 / 6"      | 250 / 6"      | 250 / 8"      | 315 / 6"      | 315 / 8"      | 315 / 11"     |
|-----------------------------------------|---------------------------------------------------------|------------------------------------------------|-------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
|                                         |                                                         | % 3 mors durs Mono (3 monobloc-hard-jaws)      | Réf.  | 010023DB13E00 | 010023DC13E00 | 010031DC13E00 | 010034DD13E00 | 010041DD13E00 | 010041DE13E00 | 010054DD13E00 | 010054DE13E00 | 010054DF13E00 |
|                                         |                                                         | Poids mandrin (weight)                         | kg    | 8,5           | 8,0           | 14,5          | 18,0          | 28,0          | 28,0          | 53,7          | 54,0          | 54,0          |
|                                         |                                                         | Vitesse maxi (maxi-speed)                      | tr/mn | 3950          | 3950          | 3150          | 2900          | 2500          | 2500          | 2000          | 2000          | 2000          |
|                                         |                                                         | 4 mors durs Mono (4 monobloc-hard-jaws)        | Réf.  | 010023DB14E00 | 010023DC14E00 | 010031DC14E00 | -             | 010041DD14E00 | 010041DE14E00 | 010054DD14E00 | 010054DE14E00 | 010054DF14E00 |
|                                         |                                                         | Poids mandrin (weight)                         | kg    | 8,8           | 8,3           | 15,0          | -             | 28,8          | 28,8          | 55,2          | 55,5          | 55,5          |
|                                         |                                                         | Vitesse maxi (maxi-speed)                      | tr/mn | 3400          | 3400          | 2700          | -             | 2200          | 2200          | 1700          | 1700          | 1700          |
|                                         |                                                         |                                                | D     | 400 / 8"      | 400 / 11"     | 500 / 8"      | 500 / 11"     | 630 / 11"     | 630 / 15"     |               |               |               |
|                                         |                                                         | % 3 mors durs Mono (3 monobloc-hard-jaws)      | Réf.  | 010071DE13E00 | 010071DF13E00 | 010073DE13E00 | 010073DF13E00 | 010075DF13E00 | 010075DG13E00 |               |               |               |
|                                         |                                                         | Poids mandrin (weight)                         | kg    | 86,0          | 85,0          | 156,0         | 154,0         | 301,3         | 299,3         |               |               |               |
|                                         |                                                         | Vitesse maxi (maxi-speed)                      | tr/mn | 1500          | 1500          | 1250          | 1250          | 1000          | 1000          |               |               |               |
|                                         | MORS REVERSIBLES ISO<br>(reversible-ISO-jaws equipment) | 4 mors durs Mono (4 monobloc-hard-jaws)        | Réf.  | 010071DE14E00 | 010071DF14E00 | 010073DE14E00 | 010073DF14E00 | 010075DF14E00 | 010075DG14E00 |               |               |               |
|                                         |                                                         | Poids mandrin (weight)                         | kg    | 88,0          | 87,0          | 159,5         | 157,5         | 306,3         | 304,3         |               |               |               |
|                                         |                                                         | Vitesse maxi (maxi-speed)                      | tr/mn | 1300          | 1300          | 1100          | 1100          | 900           | 900           |               |               |               |
|                                         |                                                         |                                                | D     | 160 / 4"      | 160 / 5"      | 200 / 5"      | 215 / 6"      | 250 / 6"      | 250 / 8"      | 315 / 6"      | 315 / 8"      | 315 / 11"     |
|                                         |                                                         | % 3 mors durs ISO (3 reversible-hard-ISO-jaws) | Réf.  | 010023DB43E00 | 010023DC43E00 | 010031DC43E00 | 010034DD43E00 | 010041DD43E00 | 010041DE43E00 | 010054DD43E00 | 010054DE43E00 | 010054DF43E00 |
|                                         |                                                         | Poids mandrin (weight)                         | kg    | 9,0           | 8,5           | 15,4          | 18,9          | 28,7          | 28,7          | 54,8          | 55,1          | 55,1          |
|                                         |                                                         | Vitesse maxi (maxi-speed)                      | tr/mn | 3200          | 3200          | 2550          | 2350          | 2050          | 2050          | 1800          | 1800          | 1800          |
|                                         |                                                         | 4 mors durs ISO (4 reversible-hard-ISO-jaws)   | Réf.  | 010023DB44E00 | 010023DC44E00 | 010031DC44E00 | -             | 010041DD44E00 | 010041DE44E00 | 010054DD44E00 | 010054DE44E00 | 010054DF44E00 |
|                                         |                                                         | Poids mandrin (weight)                         | kg    | 9,4           | 8,9           | 16,2          | -             | 29,8          | 29,8          | 56,7          | 57,0          | 57,0          |
|                                         |                                                         | Vitesse maxi (maxi-speed)                      | tr/mn | 2800          | 2800          | 2250          | -             | 1800          | 1800          | 1550          | 1550          | 1550          |
|                                         |                                                         |                                                | D     | 400 / 8"      | 400 / 11"     | 500 / 8"      | 500 / 11"     | 630 / 11"     | 630 / 15"     |               |               |               |
|                                         |                                                         | % 3 mors durs ISO (3 reversible-hard-ISO-jaws) | Réf.  | 010071DE43E00 | 010071DF43E00 | 010073DE43E00 | 010073DF43E00 | 010075DF43E00 | 010075DG43E00 |               |               |               |
|                                         |                                                         | Poids mandrin (weight)                         | kg    | 89,1          | 88,1          | 157,9         | 155,9         | 303,0         | 301,0         |               |               |               |
|                                         |                                                         | Vitesse maxi (maxi-speed)                      | tr/mn | 1250          | 12540         | 1150          | 1150          | 900           | 900           |               |               |               |
|                                         |                                                         | 4 mors durs ISO (4 reversible-hard-ISO-jaws)   | Réf.  | 010071DE44E00 | 010071DF44E00 | 010073DE44E00 | 010073DF44E00 | 010075DF44E00 | 010075DG44E00 |               |               |               |
|                                         |                                                         | Poids mandrin (weight)                         | kg    | 92,2          | 91,2          | 162,0         | 160,0         | 308,8         | 306,8         |               |               |               |
|                                         |                                                         | Vitesse maxi (maxi-speed)                      | tr/mn | 1100          | 1100          | 1000          | 1000          | 800           | 800           |               |               |               |
|                                         |                                                         |                                                |       |               |               |               |               |               |               |               |               |               |

% Réf. standard en stock (standard ref. in stock)

\* Consulter pour demande spéciale ou pour d'autres équipements en mors rapportés (\* Call Ladner for special manufacturing and other jaws equipments)

Mandrin standard 3 mors



Equipé de mors durs  
monoblocs

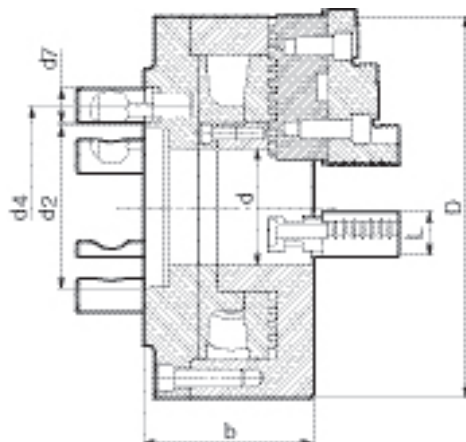


Mors n°2



Mors n°1

Equipé de semelles  
et de mors durs réversibles ISO



Mandrin 4 mors



mors n°2 monoblocs



mors n°1 monoblocs



mors réversibles ISO

# MANDRINS ACIER A SERRAGE CONCENTRIQUE / concentric-chucks, body in steel

## MONTAGE DIRECT SUR BROCHE CAMLOCK / direct assembly on spindle nose camlock

DIN 55029

| Ø MANDRINS (chucks) / BROCHE (spindle nose)       | D | 125 / 3" | 125 / 4" | 160 / 3" | 160 / 4" | 160 / 5" | 200 / 4" | 200 / 5" | 215 / 6" | 250 / 6" | 250 / 8" |
|---------------------------------------------------|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Epaisseur mandrin (thickness-chuck) ..... b       |   | 67,0     | 67,0     | 78,5     | 78,5     | 83,5     | 92,0     | 92,0     | 85,0     | 106,0    | 106,0    |
| Largeur mors (width-jaw) ..... L                  |   | 18,0     | 18,0     | 20,0     | 20,0     | 20,0     | 23,0     | 23,0     | 23,0     | 25,0     | 25,0     |
| Passage de barre (internal-passage-Ø) ..... d     |   | 32,0     | 32,0     | 40,5     | 40,5     | 40,5     | 55,0     | 55,0     | 60,5     | 76,0     | 76,0     |
| Concentricité en mm (concentric-fault mm) ..... d |   | 0,04     | 0,04     | 0,04     | 0,04     | 0,04     | 0,05     | 0,05     | 0,05     | 0,05     | 0,05     |
| Centrage conique (conical-centering) ..... d2     |   | 53,98    | 63,52    | 53,98    | 63,52    | 82,57    | 63,52    | 82,57    | 106,38   | 106,38   | 139,72   |
| Ø Fixation (fixing-Ø) ..... d4                    |   | 70,6     | 82,6     | 70,6     | 82,6     | 104,8    | 82,6     | 104,8    | 133,4    | 133,4    | 171,4    |
| Tirants camlock (tie-rod camlock) ..... d7        |   | 3*14,3   | 3*15,8   | 3*14,3   | 3*15,8   | 6*19     | 3*15,8   | 6*19     | 6*22,2   | 6*22,2   | 6*25,4   |

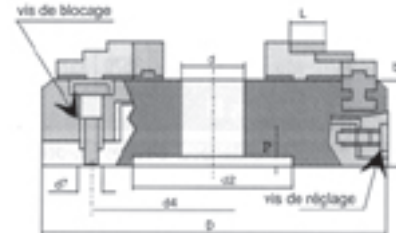
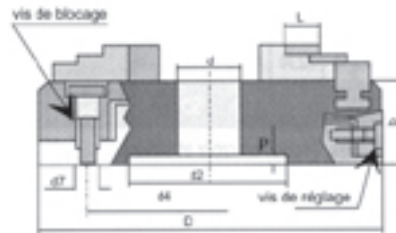
| Ø MANDRINS (chucks) / BROCHE (spindle nose)       | D | 315 / 6" | 315 / 8" | 315 / 11" | 400 / 6" | 400 / 8" | 400 / 11" | 500 / 8" | 500 / 11" | 630 / 8" | 630 / 11" |
|---------------------------------------------------|---|----------|----------|-----------|----------|----------|-----------|----------|-----------|----------|-----------|
| Epaisseur mandrin (thickness-chuck) ..... b       |   | 115,0    | 123,0    | 123,0     | 128,0    | 145,0    | 137,0     | 137,0    | 164,0     | 164,0    | 164,0     |
| Largeur mors (width-jaw) ..... L                  |   | 33,0     | 33,0     | 33,0      | 37,0     | 37,0     | 37,0      | 48,0     | 48,0      | 48,0     | 48,0      |
| Passage de barre (internal-passage-Ø) ..... d     |   | 100,0    | 100,0    | 100,0     | 100,0    | 130,0    | 130,0     | 130,0    | 190,0     | 130,0    | 190,0     |
| Concentricité en mm (concentric-fault mm) ..... d |   | 0,06     | 0,06     | 0,06      | 0,06     | 0,06     | 0,06      | 0,07     | 0,07      | 0,075    | 0,075     |
| Centrage conique (conical-centering) ..... d2     |   | 106,38   | 139,72   | 196,88    | 106,38   | 139,72   | 196,88    | 139,72   | 196,88    | 139,72   | 196,88    |
| Ø Fixation (fixing-Ø) ..... d4                    |   | 133,4    | 171,4    | 235       | 133,4    | 171,4    | 235,0     | 171,4    | 235       | 171,4    | 235       |
| Tirants camlock (tie-rod camlock) ..... d7        |   | 6*22,2   | 6*25,4   | 6*30,1    | 6*22,2   | 6*25,4   | 6*30,1    | 6*25,4   | 6*30,1    | 6*25,4   | 6*30,1    |

| Mandrin équipé de (chuck equipped with) | MORS MONOBLOCS<br>(monobloc-jaws equipment)    | D                         | Réf.  | 125 / 3"      | 125 / 4"      | 160 / 3"      | 160 / 4"      | 160 / 5"      | 200 / 4"      | 200 / 5"      | 215 / 6"      | 250 / 6"      | 250 / 8"      |
|-----------------------------------------|------------------------------------------------|---------------------------|-------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
|                                         |                                                |                           |       | 010016CA13E00 | 010016CB13E00 | 010023CA13E00 | 010023CB13E00 | 010023CC13E00 | 010031CB13E00 | 010031CC13E00 | 010034CD13E00 | 010041CD13E00 | 010041CE13E00 |
|                                         | % 3 mors durs Mono (3 monobloc-hard-jaws)      | Poids mandrin (weight)    | kg    | 5,6           | 5,5           | 8,5           | 8,5           | 8,0           | 14,0          | 14,5          | 18,0          | 28,0          | 28,0          |
|                                         |                                                | Vitesse maxi (maxi-speed) | tr/mn | 5050          | 5050          | 3950          | 3950          | 3950          | 3150          | 3150          | 2900          | 2500          | 2500          |
|                                         |                                                |                           |       |               |               |               |               |               |               |               |               |               |               |
|                                         | 4 mors durs Mono (4 monobloc-hard-jaws)        | Poids mandrin (weight)    | kg    | 5,78          | 5,68          | 8,8           | 8,8           | 8,3           | 14,5          | 15,0          | -             | 28,8          | 28,8          |
|                                         |                                                | Vitesse maxi (maxi-speed) | tr/mn | 4400          | 4400          | 3400          | 3400          | 3400          | 2750          | 2750          | -             | 2200          | 2200          |
|                                         |                                                |                           |       |               |               |               |               |               |               |               |               |               |               |
|                                         | % 3 mors durs Mono (3 monobloc-hard-jaws)      | Poids mandrin (weight)    | kg    | 53,7          | 54,0          | 70,0          | 88,0          | 86,0          | 85,0          | 156,0         | 154           | 301,3         | 301,3         |
|                                         |                                                | Vitesse maxi (maxi-speed) | tr/mn | 2000          | 2000          | 1550          | 1515          | 1515          | 1515          | 1260          | 1260          | 1000          | 1000          |
|                                         |                                                |                           |       |               |               |               |               |               |               |               |               |               |               |
|                                         | 4 mors durs Mono (4 monobloc-hard-jaws)        | Poids mandrin (weight)    | kg    | 55,2          | 55,5          | 73,5          | 90,0          | 88,0          | 87,0          | 159,5         | 157,5         | 306,3         | 306,3         |
|                                         |                                                | Vitesse maxi (maxi-speed) | tr/mn | 1750          | 1750          | 1500          | 1300          | 1300          | 1300          | 1100          | 1100          | 850           | 850           |
|                                         |                                                |                           |       |               |               |               |               |               |               |               |               |               |               |
|                                         | % 3 mors durs ISO (3 reversible-hard-ISO-jaws) | Poids mandrin (weight)    | kg    | 5,6           | 5,5           | 8,5           | 8,5           | 8,5           | 14,5          | 15,3          | 18,8          | 28,0          | 28,0          |
|                                         |                                                | Vitesse maxi (maxi-speed) | tr/mn | 5050          | 5050          | 3950          | 3950          | 3950          | 3150          | 3150          | 2350          | 2050          | 2050          |
|                                         |                                                |                           |       |               |               |               |               |               |               |               |               |               |               |
|                                         | 4 mors durs ISO (4 reversible-hard-ISO-jaws)   | Poids mandrin (weight)    | kg    | 5,78          | 5,68          | 8,8           | 8,8           | 8,3           | 15,0          | 15,8          | -             | 29,1          | 29,1          |
|                                         |                                                | Vitesse maxi (maxi-speed) | tr/mn | 4350          | 4350          | 3400          | 3400          | 3400          | 2350          | 2350          | -             | 1800          | 1800          |
|                                         |                                                |                           |       |               |               |               |               |               |               |               |               |               |               |
|                                         | % 3 mors durs ISO (3 reversible-hard-ISO-jaws) | Poids mandrin (weight)    | kg    | 54,5          | 55,0          | 72,0          | 91,0          | 89,0          | 105,0         | 158,5         | 156,5         | 306           | 304           |
|                                         |                                                | Vitesse maxi (maxi-speed) | tr/mn | 1800          | 1800          | 1350          | 1250          | 1250          | 1250          | 1150          | 1150          | 900           | 900           |
|                                         |                                                |                           |       |               |               |               |               |               |               |               |               |               |               |
|                                         | 4 mors durs ISO (4 reversible-hard-ISO-jaws)   | Poids mandrin (weight)    | kg    | 56,3          | 56,8          | 73,8          | 94,0          | 92,0          | 108,0         | 162,6         | 160,6         | 311,8         | 309,8         |
|                                         |                                                | Vitesse maxi (maxi-speed) | tr/mn | 1550          | 1550          | 1350          | 1100          | 1100          | 1100          | 1000          | 1000          | 800           | 800           |
|                                         |                                                |                           |       |               |               |               |               |               |               |               |               |               |               |

% Réf. standard en stock (standard ref. in stock)

\* Consulter pour demande spéciale ou pour d'autres équipements en mors rapportés (\* Call Ladner for special manufacturing and other jaws equipments)

CARACTERISTIQUES (CHARACTERISTICS)



| Ø MANDRINS (ø chucks)                                  | D     | 80   | 100  | 125  | 160   | 200   | 250   | 315   |
|--------------------------------------------------------|-------|------|------|------|-------|-------|-------|-------|
| Epaisseur mandrin (thickness-chuck) . . . . .          | b     | 54,0 | 60,5 | 70,0 | 78,5  | 88,5  | 95,0  | 116   |
| Largeur mors (width-jaw) . . . . .                     | L     | 12,0 | 14,0 | 18,0 | 20,0  | 23,0  | 25,0  | 33    |
| Passage de barre (internal-passage-Ø) . . . . .        | d     | 16,0 | 22,0 | 32,0 | 40,5  | 55,0  | 76,0  | 100   |
| Profondeur centrage (depth-concentric centering) . .   | p     | 3,0  | 3,5  | 4,0  | 4,0   | 4,0   | 5,0   | 5,0   |
| Concentricité en mm (concentric-fault mm) . . . . .    |       | 0,04 | 0,04 | 0,04 | 0,04  | 0,05  | 0,05  | 0,06  |
| Centrage cylindrique (cylindrical-centering) . . . . . | d2/H6 | 56   | 70   | 95   | 125   | 160   | 200   | 260   |
| Ø Fixation (fixing-Ø) . . . . .                        | d4    | 67   | 83   | 108  | 140   | 176   | 224   | 286   |
| Vis H (screws H) . . . . .                             | d7    | 3*M6 | 3*M8 | 3*M8 | 3*M10 | 3*M10 | 3*M12 | 6*M12 |

Mandrin équipé de mors monoblocs (monobloc-jaws equipment)

|                                           | D     | 80            | 100           | 125           | 160           | 200           | 250           | 315           |
|-------------------------------------------|-------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| % 3 mors durs Mono (3 monobloc-hard-jaws) | Réf.  | 010207EQ13E00 | 010211EQ13E00 | 010216EQ13E00 | 010223EQ13E00 | 010231EQ13E00 | 010241EQ13E00 | 010254EQ13E00 |
| Poids mandrin (weight)                    | kg    | 2             | 3,3           | 5,7           | 9             | 16            | 27,5          | 52            |
| Vitesse maxi (maxi-speed)                 | tr/mn | 7900          | 6300          | 5050          | 3950          | 3150          | 2500          | 2000          |

Mandrin équipé de mors réversibles ISO (reversible-ISO-jaws equipment)

|                                                | D     | 80 | 100 | 125           | 160           | 200           | 250           | 315           |
|------------------------------------------------|-------|----|-----|---------------|---------------|---------------|---------------|---------------|
| % 3 mors durs ISO (3 reversible-hard-ISO-jaws) | Réf.  | -  | -   | 010216EQ43E00 | 010223EQ43E00 | 010231EQ43E00 | 010241EQ43E00 | 010254EQ43E00 |
| Poids mandrin (weight)                         | kg    | -  | -   | 6,2           | 9,8           | 17,5          | 29,3          | 53            |
| Vitesse maxi (maxi-speed)                      | tr/mn | -  | -   | 4650          | 3650          | 2900          | 2400          | 2000          |

% Réf. standard en stock (standard ref. in stock)

\* Consulter pour demande spéciale ou pour d'autres équipements en mors rapportés (\* Call Ladner for special manufacturing and other jaws equipments)

# MANDRINS ACIER A COURONNE MOLETEE ET A LEVIER / concentric-chucks with lever, body in steel

## MONTAGE SUR CONTRE-PLATEAU / adapted on spindle nose with flange

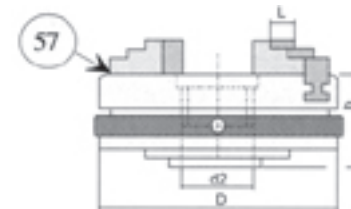
DIN 6351

| Ø MANDRINS (ø chucks)                                      | D     | 57   | 97    |
|------------------------------------------------------------|-------|------|-------|
| Epaisseur mandrin (thickness-chuck) . . . . .              | b     | 27,0 | 35,0  |
| Largeur mors (width-jaw) . . . . .                         | L     | 9,0  | 14,0  |
| Passage de barre (internal-passag-Ø) . . . . .             | d     | -    | 22,0  |
| Profondeur centrage (depth-concentric centering) . . . . . | p     | -    | 3,0   |
| Concentricité en mm (concentric-fault mm) . . . . .        |       | 0,04 | 0,04  |
| Centrage cylindrique (cylindrical-centering) . . . . .     | d2/H6 | M14  | 70,00 |
| Ø Fixation (fixing-Ø) . . . . .                            | d4    | -    | 83    |
| Vis H (screws H) . . . . .                                 | d7    | -    | 3*M8  |

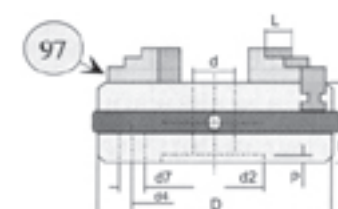
### Mandrin équipé de mors monoblocs (monobloc-jaws equipment)

|                                           | D     | 57            | 97            |
|-------------------------------------------|-------|---------------|---------------|
| % 3 mors durs Mono (3 monobloc-hard-jaws) | Réf.  | 010102EQ13E00 | 010110EQ13E00 |
| Poids mandrin (weight)                    | kg    | 0,4           | 1,7           |
| Vitesse maxi (maxi-speed)                 | tr/mn | 8000          | 6500          |

### CARACTERISTIQUES (CHARACTERISTICS)



Livré avec 1 jeu de mors durs mono-blocs



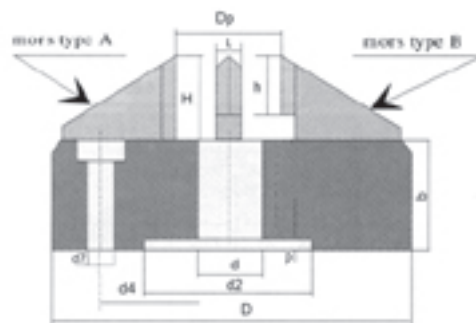
Livré avec 2 jeux de mors durs mono-blocs

# MANDRINS ACIER POUR FORETS / concentric chucks for twist drill

## MONTAGE SUR CONTRE-PLATEAU / adapted on spindle with flange

DIN 6351

### CARACTERISTIQUES (CHARACTERISTICS)



Chaque mandrin est doté d'un jeu de mors type A et type B  
(Every chuck is equipped with one set of A jaws and one set of B jaws)

| Ø MANDRINS (ø chucks)                                      | D     | 100  | 125  |
|------------------------------------------------------------|-------|------|------|
| Epaisseur mandrin (thickness-chuck) . . . . .              | b     | 48,5 | 55,0 |
| Largeur mors (width-jaw) . . . . .                         | L     | 12,0 | 14,0 |
| Passage de barre (internal-passag-Ø) . . . . .             | d     | 24   | 35   |
| Profondeur centrage (depth-concentric centering) . . . . . | p     | 3,5  | 4,0  |
| Concentricité en mm (concentric-fault mm) . . . . .        |       | 0,04 | 0,04 |
| Centrage cylindrique (cylindrical-centering) . . . . .     | d2/H6 | 70   | 95   |
| Ø Fixation (fixing-Ø) . . . . .                            | d4    | 83   | 108  |
| Vis H (screws H) . . . . .                                 | d7    | 3*M6 | 3*M8 |
| Hauteur mors type A (height of jaws A) . . . . .           | H     | 64   | 60   |
| Hauteur mors type B (height of jaws B) . . . . .           | h     | 34   | 34   |

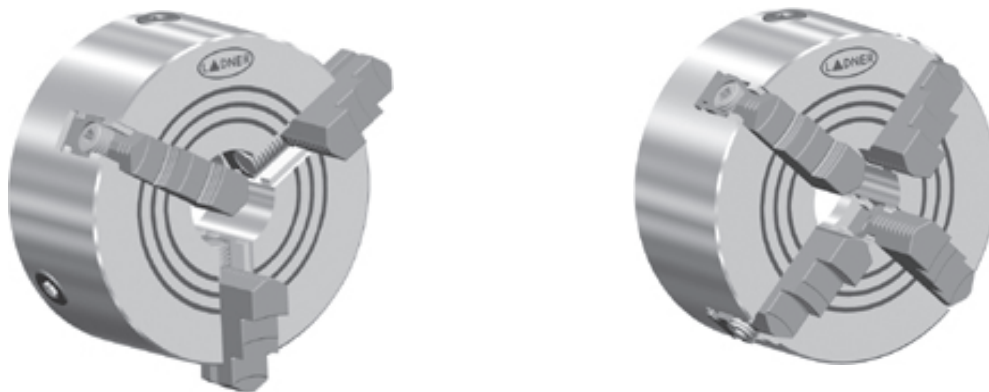
|                                           | D    | 100           | 125           |
|-------------------------------------------|------|---------------|---------------|
| % 6 mors durs Mono (6 monobloc-hard-jaws) | Réf. | 010311EQ96E00 | 010316EQ96E00 |
| Poids mandrin (weight)                    | kg   | 2,8           | 4,3           |

% Réf. standard en stock (standard ref. in stock)

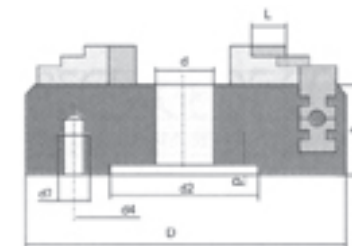
\* Consulter pour demande spéciale ou pour d'autres équipements en mors rapportés (\* Call Ladner for special manufacturing and other jaws equipments)

n MONTAGE SUR CONTRE-PLATEAU / adapted on spindle nose with flange

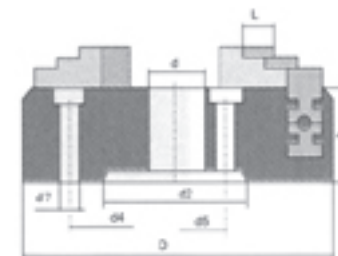
## CARACTERISTIQUES (CHARACTERISTICS)



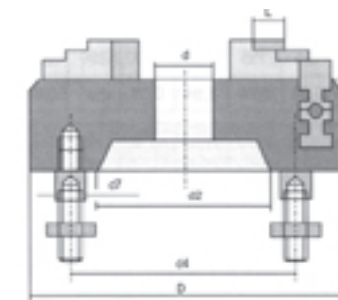
Montage direct sur contre-plateau



Montage sur broches A1-A2



Montage baïonnettes



| Ø MANDRINS (ø chucks)                                  | D     | 160   | 200   | 250   | 315   | 400   |
|--------------------------------------------------------|-------|-------|-------|-------|-------|-------|
| Epaisseur mandrin (thickness-chuck) . . . . .          | b     | 90,0  | 97,0  | 114,0 | 122,5 | 136,0 |
| Largeur mors (width-jaw) . . . . .                     | L     | 24,0  | 24,0  | 32,0  | 32,0  | 38,0  |
| Passage de barre (internal-passag-Ø) . . . . .         | d     | 40,5  | 55,0  | 76,0  | 100,0 | 130,0 |
| Profondeur centrage (depth-concentric centering) . .   | p     | 4,0   | 4,0   | 5,0   | 5,0   | 6,0   |
| Concentricité en mm (concentric-fault mm) . . . . .    |       | 0,04  | 0,05  | 0,05  | 0,06  | 0,06  |
| Centrage cylindrique (cylindrical-centering) . . . . . | d2/H6 | 125   | 160   | 200   | 260   | 330   |
| Ø Fixation (fixing-Ø) . . . . .                        | d4    | 140   | 176   | 224   | 286   | 362   |
| Vis H (screws H) . . . . .                             | d7    | 3*M10 | 3*M10 | 3*M12 | 6*M12 | 6*M16 |

### Mandrin équipé de mors durs combi (combinaison-hard-jaws)

|                                               | D    | 160            | 200           | 250           | 315           | 400           |
|-----------------------------------------------|------|----------------|---------------|---------------|---------------|---------------|
| % 3 mors durs combi (3 combinaison-hard-jaws) | Réf. | 0010423EQ73E00 | 010431EQ73E00 | 010441EQ73E00 | 010454EQ73E00 | 010471EQ73E00 |
| Poids mandrin (weight)                        | kg   | 12             | 20            | 38            | 67            | 113           |
| 4 mors durs combi (4 combinaison-hard-jaws)   | Réf. | 010423EQ74E00  | 010431EQ74E00 | 010441EQ74E00 | 010454EQ74E00 | 010471EQ74E00 |
| Poids mandrin (weight)                        | kg   | 12,4           | 20,5          | 39            | 68,5          | 115           |

% Réf. standard en stock (standard ref. in stock)

\* Consulter pour demande spéciale ou pour d'autres équipements en mors rapportés (\* Call Ladner for special manufacturing and other jaws equipments)

| Ø MANDRINS (chucks) / BROCHE (spindle nose)         | D  | 160 / 4" | 160 / 5" | 200 / 4" | 200 / 5" | 215 / 6" | 250 / 6" | 315 / 6" | 315 / 8" | 400 / 8" |
|-----------------------------------------------------|----|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Epaisseur mandrin (thickness-chuck) . . . . .       | b  | 99,5     | 99,5     | 105,6    | 105,6    | 108,0    | 125,6    | 145,5    | 145,5    | 159,0    |
| Largeur mors (width-jaw) . . . . .                  | L  | 24       | 24       | 24       | 24       | 24       | 32       | 32       | 32       | 38       |
| Passage de barre (internal-passage-Ø) . . . . .     | d  | 32       | 40,5     | 55       | 40,5     | 60,5     | 60,5     | 100      | 80       | 130      |
| Concentricité en mm (concentric-fault mm) . . . . . |    | 0,04     | 0,04     | 0,05     | 0,05     | 0,05     | 0,05     | 0,06     | 0,06     | 0,06     |
| Centrage conique (conical-centering) . . . . .      | d2 | 63,52    | 82,57    | 63,52    | 82,57    | 106,38   | 106,38   | 106,38   | 139,72   | 139,72   |
| Ø Fixation A1(fixing-A1 Ø) . . . . .                | d5 | 47,6     | 61,90    | -        | 61,90    | 82,6     | 82,6     | -        | 111,11   | -        |
| Ø Fixation A2(fixing-A2 Ø) . . . . .                | d4 | -        | -        | 82,6     | -        | -        | -        | 133,4    | -        | 171,4    |

## Mandrin équipé de mors durs combi (combinaison-hard-jaws)

|                                               | D    | 160 / 4"      | 160 / 5"      | 200 / 4"      | 200 / 5"      | 215 / 6"      | 250 / 6"      | 315 / 6"      | 315 / 8"      | 400 / 8"      |
|-----------------------------------------------|------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| % 3 mors durs combi (3 combinaison-hard-jaws) | Réf. | 010423AB73E00 | 010423AC73E00 | 010431BB73E00 | 010431AC73E00 | 010434AD73E00 | 010441AD73E00 | 010454BD73E00 | 010454AE73E00 | 010471BE73E00 |
| Poids mandrin (weight)                        | kg   | 14,0          | 14,0          | 22,0          | 23,0          | 25,0          | 40,0          | 70,0          | 70,0          | 99,0          |
| 4 mors durs combi (4 combinaison-hard-jaws)   | Réf. | -             | 010423AC74E00 | 010431BB74E00 | 010431AC74E00 | 010434AD74E00 | 010441AD74E00 | 010454BD74E00 | 010454AE74E00 | 010471BE74E00 |
| Poids mandrin (weight)                        | kg   | -             | 14,4          | 22,5          | 23,5          | 26,1          | 41,1          | 76,4          | 76,4          | 101,0         |

## n MONTAGE DIRECT SUR BROCHE A BAIONNETTES / direct assembly on spindle nose bayonets

| Ø MANDRINS / BROCHE                             | D  | 160 / 3" | 160 / 4" | 160 / 5" | 200 / 4" | 200 / 5" | 215 / 6" | 250 / 6" | 250 / 8" | 315 / 6" | 315 / 8" | 315 / 11" | 400 / 8" | 400 / 11" |
|-------------------------------------------------|----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|----------|-----------|
| Epaisseur mandrin (thickness-chuck) . . . . .   | b  | 105,0    | 99,5     | 99,5     | 105,6    | 105,6    | 108,0    | 125,6    | 125,6    | 145,5    | 145,5    | 154,0     | 159,0    | 176,0     |
| Largeur mors (width-jaw) . . . . .              | L  | 24,0     | 24,0     | 24,0     | 24,0     | 24,0     | 24,0     | 32,0     | 32,0     | 32,0     | 32,0     | 32,0      | 38,0     | 38,0      |
| Passage de barre (internal-passage-Ø) . . . . . | d  | 40,5     | 40,5     | 40,5     | 55,0     | 55,0     | 60,5     | 76,0     | 76,0     | 100,0    | 100,0    | 100,0     | 130,0    | 130,0     |
| Concentricité en mm (concentric-fault mm) ..    |    | 0,04     | 0,04     | 0,04     | 0,05     | 0,05     | 0,05     | 0,05     | 0,05     | 0,06     | 0,06     | 0,06      | 0,06     | 0,06      |
| Centrage conique (conical-centering) . . . . .  | d2 | 53,98    | 63,52    | 82,57    | 63,52    | 82,57    | 106,38   | 106,38   | 139,72   | 106,38   | 139,72   | 196,88    | 139,72   | 196,88    |
| Ø Fixation (fixing-Ø) . . . . .                 | d4 | 75       | 85       | 104,8    | 85       | 104,8    | 133,4    | 133,4    | 171,4    | 133,4    | 171,4    | 235,0     | 171,4    | 235,0     |
| Goujons Din (stud-bolt Din) . . . . .           | d7 | 3*19,5   | 3*19,5   | 4*19,5   | 3*19,5   | 4*19,5   | 4*21,5   | 4*21,5   | 4*27     | 4*21,5   | 4*27     | 6*34      | 4*27     | 6*34      |

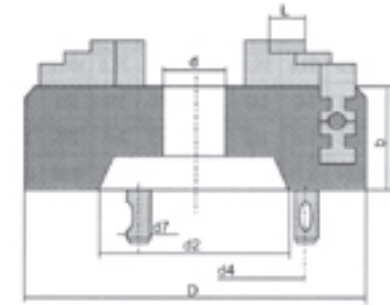
## Mandrin équipé de mors durs combi (combinaison-hard-jaws)

|                                                   | D  | 160 / 3"      | 160 / 4"      | 160 / 5"      | 200 / 4"      | 200 / 5"      | 215 / 6"      | 250 / 6"      | 250 / 8"      | 315 / 6"      | 315 / 8"      | 315 / 11"     | 400 / 8"      | 400 / 11" |
|---------------------------------------------------|----|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------|
| % 3 mors durs combi (3 combinaison-hard-jaws)Réf. | -  | 010423DB73E00 | 010423DC73E00 | 010431DB73E00 | 010431DC73E00 | 010434DD73E00 | 010441DD73E00 | 010441DE73E00 | 010454DD73E00 | 010454DE73E00 | 010454DF73E00 | 010471DE73E00 | 010471DF73E00 |           |
| Poids mandrin (weight)                            | kg | -             | 14,0          | 14,0          | 22,0          | 23,0          | 25,0          | 40,0          | 40,0          | 70,0          | 70,0          | 70,0          | 102,0         | 112,0     |
| 4 mors durs combi (4 combinaison-hard-jaws)Réf.   | -  | 010423DB74E00 | 010423DC74E00 | 010431DB74E00 | 010431DC74E00 | 010434DD74E00 | 010441DD74E00 | 010441DE74E00 | 010454DD74E00 | 010454DE74E00 | 010454DF74E00 | 010471DE74E00 | 010471DF74E00 |           |
| Poids mandrin (weight)                            | kg | -             | 14,1          | 14,1          | 22,0          | 23,0          | 25,5          | 40,5          | 40,5          | 70,3          | 70,3          | 70,3          | 102,1         | 112,1     |

% Réf. standard en stock (standard ref. in stock)

\* Consulter pour demande spéciale ou pour d'autres équipements en mors rapportés (\* Call Ladner for special manufacturing and other jaws equipments)

CARACTERISTIQUES (CHARACTERISTICS)



| Ø MANDRINS / BROCHE                           | D | 160 / 3" | 160 / 4" | 160 / 5" | 200 / 4" | 200 / 5" | 215 / 6" | 250 / 6" | 250 / 8" | 315 / 6" | 315 / 8" | 315 / 11" | 400 / 8" | 400 / 11" |
|-----------------------------------------------|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|----------|-----------|
| Epaisseur mandrin (thickness-chuck) ..... b   |   | 104,00   | 99,50    | 99,50    | 105,60   | 105,60   | 108,00   | 125,60   | 125,60   | 145,50   | 145,50   | 154,00    | 159,00   | 176,00    |
| Largeur mors (width-jaw) ..... L              |   | 24,00    | 24,00    | 24,00    | 24,00    | 24,00    | 24,00    | 32,00    | 32,00    | 32,00    | 32,00    | 32,00     | 38,00    | 38,00     |
| Passage de barre (internal-passage-Ø) ..... d |   | 40,50    | 40,50    | 40,50    | 55,00    | 55,00    | 60,50    | 76,00    | 76,00    | 100,00   | 100,00   | 100,00    | 130,00   | 130,00    |
| Concentricité en mm (concentric-fault mm) ... |   | 0,04     | 0,04     | 0,04     | 0,05     | 0,05     | 0,05     | 0,05     | 0,05     | 0,06     | 0,06     | 0,06      | 0,06     | 0,06      |
| Centrage conique (conical-centering) ..... d2 |   | 53,98    | 63,52    | 82,57    | 63,52    | 82,57    | 106,38   | 106,38   | 139,72   | 106,38   | 139,72   | 196,88    | 139,72   | 196,88    |
| Ø Fixation (fixing-Ø) ..... d4                |   | 70,60    | 82,60    | 104,80   | 82,60    | 104,80   | 133,40   | 133,40   | 171,40   | 133,40   | 171,40   | 235,00    | 171,40   | 235,00    |
| Tirants camlock (tie-rod camlock) ..... d7    |   | 3*14,3   | 3*15,8   | 6*19     | 3*15,8   | 6*19     | 6*22,2   | 6*22,2   | 6*25,4   | 6*22,2   | 6*25,4   | 6*30,1    | 6*25,4   | 6*30,1    |

Mandrin équipé de mors durs combi (combinaison-hard-jaws)

|                                                    | D | 160           | 160           | 200           | 200           | 215           | 250           | 250           | 315           | 315           | 315           | 400           | 400           |
|----------------------------------------------------|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| % 3 mors durs combi (3 combinaison-hard-jaws) Réf. | - | 010423CB73E00 | 010423CC73E00 | 010431CB73E00 | 010431CC73E00 | 010434CD73E00 | 010441CD73E00 | 010441CE73E00 | 010454CD73E00 | 010454CE73E00 | 010454CF73E00 | 010471CE73E00 | 010471CF73E00 |
| Poids mandrin (weight) kg                          | - | 14            | 14            | 22            | 23            | 25            | 40            | 40            | 70            | 70            | 70            | 102           | 112           |
| 4 mors durs combi (4 combinaison-hard-jaws) Réf.   | - | 010423CB74E00 | 010423CC74E00 | 010431CB74E00 | 010431CC74E00 | 010434CD74E00 | 010441CD74E00 | 010441CE74E00 | 010454CD74E00 | 010454CE74E00 | 010454CF74E00 | 010471CE74E00 | 010471CF74E00 |
| Poids mandrin (weight) kg                          | - | 14,1          | 14,1          | 22            | 23            | 25,5          | 40,5          | 40,5          | 70,3          | 70,3          | 70,3          | 102,1         | 112,1         |

% Réf. standard en stock (standard ref. in stock)

\* Consulter pour demande spéciale ou pour d'autres équipements en mors rapportés (\* Call Ladner for special manufacturing and other jaws equipments)

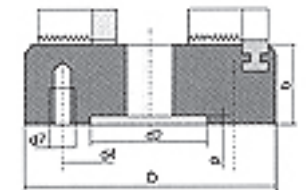
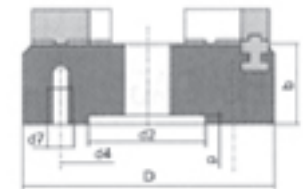
# MANDRINS ETANCHES COPEAUX, COURSE LIMITEE / tight chucks with limited removal jaws

## n MONTAGE SUR CONTRE-PLATEAU / adapted on spindle nose with flange

| Ø MANDRINS (ø chucks)                                        | D | 200   | 250   | 315   | 400   |
|--------------------------------------------------------------|---|-------|-------|-------|-------|
| Epaisseur mandrin (thickness-chuck) . . . . . b              |   | 73,5  | 80,0  | 92,0  | 105,0 |
| Profondeur centrage (depth-concentric centering) . . . . . p |   | 4,0   | 5,0   | 5,0   | 6,0   |
| Course des semelles (removal base jaws) . . . . .            |   | 20,0  | 25,0  | 30,0  | 30,0  |
| Concentricité en mm (concentric-fault mm) . . . . .          |   | 0,05  | 0,05  | 0,06  | 0,06  |
| Centrage cylindrique (cylindrical-centering) . . . . . d2    |   | 160   | 200   | 260   | 330   |
| Ø Fixation (fixing-Ø) . . . . . d4                           |   | 176   | 224   | 286   | 362   |
| Vis H (screws H) . . . . . d7                                |   | 3*M10 | 3*M12 | 6*M12 | 6*M16 |



DIN 6351



### Mandrin équipé de mors réversibles (chuck equipped with reversible jaws)

|                                              | D    | 200           | 250           | 315           | 400           |
|----------------------------------------------|------|---------------|---------------|---------------|---------------|
| % 3 mors doux striés (3 soft-chequered-jaws) | Réf. | 010531EQ53E00 | 010541EQ53E00 | 010554EQ53E00 | 010571EQ53E00 |
| 3 mors doux ISO (3 soft ISO jaws)            | Réf. | 010531EQ43E00 | 010541EQ43E00 | 010554EQ43E00 | 010571EQ43E00 |
| Poids mandrin (weight)                       | kg   | 13,5          | 24,0          | 42,5          | 76,0          |

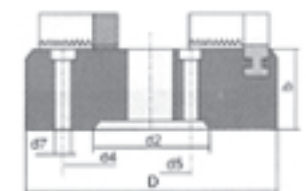
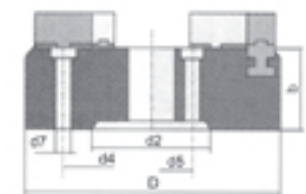
## n MONTAGE DIRECT SUR BROCHE A1-A2 / direct assembly on spindle nose A1-A2

| Ø MANDRINS (chucks) / BROCHE (spindle nose)            | D | 200 / 5" | 215 / 6" | 250 / 6" | 315 / 6" | 315 / 8" | 400 / 8" |
|--------------------------------------------------------|---|----------|----------|----------|----------|----------|----------|
| Epaisseur mandrin (thickness-chuck) . . . . . b        |   | 82,0     | 85,0     | 91,0     | 115,0    | 115,0    | 128,0    |
| Course des semelles (removal base jaws) . . . . .      |   | 20,0     | 20,0     | 25,0     | 30,0     | 30,0     | 30,0     |
| Concentricité en mm (concentric-fault mm) . . . . .    |   | 0,05     | 0,05     | 0,05     | 0,06     | 0,06     | 0,06     |
| Centrage conique (conical-centering) . . . . . d2      |   | 82,6     | 106,38   | 106,38   | 106,38   | 139,73   | 139,73   |
| Ø Fixation A2 (fixing A2-Ø) . . . . . d4               |   | -        | -        | -        | 133,4    | -        | 171,4    |
| Ø Fixation A1 (fixing A1-Ø) . . . . . d5               |   | 61,9     | 82,5     | 82,5     | -        | 111,1    | -        |
| Passage vis fixation (passage for screws) . . . . . d7 |   | 3*M10    | 3*M12    | 6*M12    | 6*M12    | 6*M16    | 6*M16    |

### Mandrin équipé de mors réversibles (chuck equipped with reversible jaws)

|                                              | D    | 200           | 215           | 250           | 315           | 315           | 400           |
|----------------------------------------------|------|---------------|---------------|---------------|---------------|---------------|---------------|
| % 3 mors doux striés (3 soft-chequered-jaws) | Réf. | 010531AC53E00 | 010534AD53E00 | 010541AD53E00 | 010554BD53E00 | 010554AE53E00 | 010571BE53E00 |
| 3 mors doux ISO (3 soft ISO jaws)            | Réf. | 010531AC43E00 | 010534AD43E00 | 010541AD43E00 | 010554BD43E00 | 010554AE43E00 | 010571BE43E00 |
| Poids mandrin (weight)                       | kg   | 15,0          | 18,0          | 28,0          | 53,7          | 54,0          | 86,0          |

DIN 55026

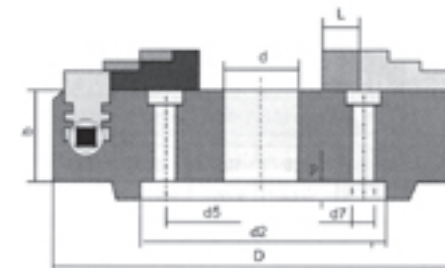
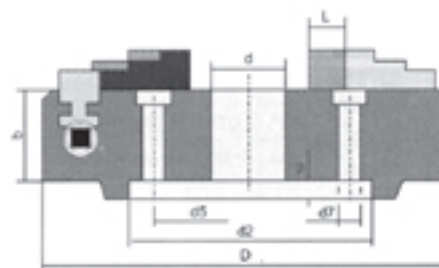


% Réf. standard en stock (standard ref. in stock)

\* Consulter pour demande spéciale ou pour d'autres équipements en mors rapportés (\* Call Ladner for special manufacturing and other jaws equipments)

n MONTAGE A CONTRE-PLATEAU / adapted on spindle nose with flange

### CARACTERISTIQUES (CHARACTERISTICS)



### Simple guidage (simple guide)

| Ø PLATEAUX (ø plates)                                    | D | 150    | 200    | 260  | 310  | 350  | 400   | 500   | 600   | 710   | 800   |
|----------------------------------------------------------|---|--------|--------|------|------|------|-------|-------|-------|-------|-------|
| Epaisseur plateaux (thickness plates) ..... b            |   | 56,0   | 62,0   | 67,0 | 70,0 | 78,0 | 105,0 | 105,0 | 125,0 | 135,0 | 145,0 |
| Passage de barre (internal-passage-Ø)..... d             |   | 56,0   | 62,0   | 67,0 | 70,0 | 78,0 | 105,0 | 105,0 | 125,0 | 135,0 | 145,0 |
| Profondeur centrage (depth-concentric centering) ..... p |   | 5,0    | 5,0    | 5,0  | 5,0  | 7,0  | 18,0  | 18,0  | 18,0  | 18,0  | 18,0  |
| Centrage cylindrique (cylindrical-centering) ..... d2    |   | 120,65 | 120,65 | 130  | 130  | 165  | 210   | 260   | 260   | 260   | 370   |
| Ø Fixation (fixing-Ø) ..... d5                           |   | 37,5   | 41,3   | 52,4 | 52,4 | 66,7 | 87,5  | 87,5  | 110   | 110   | 165   |

|                             |      |               |               |               |               |               |               |               |               |               |               |
|-----------------------------|------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| % 4 mors durs (4 hard-jaws) | Réf. | 025021EQ84Q00 | 025031EQ84Q00 | 025043EQ84Q00 | 025053EQ84Q00 | 025061EQ84Q00 | 025071EQ84Q00 | 025073EQ84Q00 | 025075EQ84Q00 | 025077EQ84Q00 | 025079EQ84Q00 |
| Poids mandrin (weight)      | kg   | 5,0           | 8,5           | 20,0          | 26,0          | 39            | 52            | 91            | 132           | 190           | 290           |

### Double guidage (double guide)

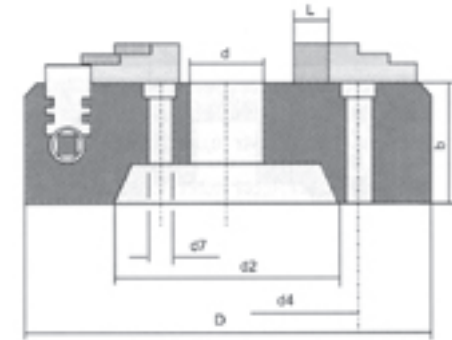
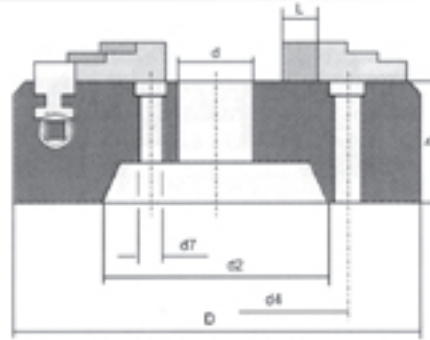
| Ø PLATEAUX (ø plates)                                    | D | 900   | 1000  | 1200  | 1500  |
|----------------------------------------------------------|---|-------|-------|-------|-------|
| Epaisseur plateaux (thickness plates) ..... b            |   | 150,0 | 180,0 | 180,0 | 180,0 |
| Passage de barre (internal-passage-Ø)..... d             |   | 155,0 | 155,0 | 190,0 | 190,0 |
| Profondeur centrage (depth-concentric centering) ..... p |   | 10,0  | 10,0  | SD    | SD    |

|                             |      |               |               |               |               |
|-----------------------------|------|---------------|---------------|---------------|---------------|
| % 4 mors durs (4 hard-jaws) | Réf. | 020881EQ84Q00 | 020883EQ84Q00 | 020885EQ84Q00 | 020888EQ84Q00 |
| Poids mandrin (weight)      | kg   | 340           | 510           | 730           | 1200          |

% Réf. standard en stock (standard ref. in stock)

\* Consulter pour demande spéciale ou pour d'autres équipements en mors rapportés (\* Call Ladner for special manufacturing and other jaws equipments)

## CARACTERISTIQUES (CHARACTERISTICS)



## Simple guidage (simple guide)

| Ø PLATEAUX (plates) / BROCHE (spindle nose)       | D | 200 / 4" | 200 / 5" | 260 / 4" | 260 / 5" | 310 / 5" | 310 / 6" | 350 / 5" | 350 / 6" | 350 / 8" | 400 / 6" |
|---------------------------------------------------|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Epaisseur plateaux (thickness-chuck)..... b       |   | 62,0     | 62,0     | 52,0     | 67,0     | 70,0     | 70,0     | 78,0     | 78,0     | 78,0     | 95,0     |
| Passage de barre (internal-passage-Ø)..... d      |   | 50,0     | 50,0     | 55,0     | 55,0     | 65,0     | 65,0     | 75,0     | 75,0     | 75,0     | 80,0     |
| Centrage conique (conical-centering) ..... d2     |   | 63,52    | 82,56    | 63,52    | 82,56    | 82,56    | 106,38   | 82,56    | 106,38   | 139,72   | 106,38   |
| Ø Fixation A2 (fixing A2-Ø)..... d4               |   | 82,6     | 104,8    | 82,6     | 104,8    | 104,8    | 133,4    | 104,8    | 133,4    | 171,4    | 133,4    |
| Passage vis fixation (passage for screws)..... d7 |   | M10      | M10      | M10      | M10      | M10      | M12      | M10      | M12      | M16      | M12      |

|                             |      |               |               |               |               |               |               |               |               |               |               |
|-----------------------------|------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| % 4 mors durs (4 hard-jaws) | Réf. | 025031BB84Q00 | 025031BC84Q00 | 025043BB84Q00 | 025043BC84Q00 | 025053BC84Q00 | 025053BD84Q00 | 025061BC84Q00 | 025061BD84Q00 | 025061BE84Q00 | 025071BD84Q00 |
| Poids mandrin (weight)      | kg   | 8,5           | 8,5           | 13            | 20            | 26            | 26            | 39            | 39            | 39            | 49            |

| Ø PLATEAUX (plates) / BROCHE (spindle nose)       | D | 400 / 8" | 500 / 6" | 500 / 8" | 500 / 11" | 600 / 8" | 600 / 11" | 710 / 8" | 710 / 11" | 800 / 8" | 800 / 11" |
|---------------------------------------------------|---|----------|----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|
| Epaisseur plateaux (thickness-chuck)..... b       |   | 95,0     | 115,0    | 115,0    | 115,0     | 120,0    | 120,0     | 140,0    | 140,0     | 145,0    | 145,0     |
| Passage de barre (internal-passage-Ø)..... d      |   | 80,0     | 90,0     | 90,0     | 90,0      | 120,0    | 120,0     | -        | -         | 155,0    | 155,0     |
| Centrage conique (conical-centering) ..... d2     |   | 139,72   | 106,38   | 139,72   | 196,87    | 139,72   | 196,87    | 139,72   | 196,87    | 139,72   | 196,87    |
| Ø Fixation A2 (fixing A2-Ø)..... d4               |   | 171,4    | 133,4    | 171,4    | 235       | 171,4    | 235       | 171,4    | 235       | 171,4    | 235       |
| Passage vis fixation (passage for screws)..... d7 |   | M16      | M12      | M16      | M18/M20   | M16      | M18/M20   | M16      | M18/M20   | M16      | M18/M20   |

|                             |      |               |               |               |               |               |               |               |               |               |               |
|-----------------------------|------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| % 4 mors durs (4 hard-jaws) | Réf. | 025071BE84Q00 | 025073BD84Q00 | 025073BE84Q00 | 025073BF84Q00 | 025075BE84Q00 | 025075BF84Q00 | 025077BE84Q00 | 025077BF84Q00 | 025079BE84Q00 | 025079BF84Q00 |
| Poids mandrin (weight)      | kg   | 49            | 78            | 78            | 78            | 120           | 120           | 210           | 210           | 260           | 260           |

## Double guidage (double guide)

| Ø PLATEAUX (plates) / BROCHE (spindle nose)       | D | 900 / 8" | 900 / 11" | 1000 / 11" | 1000 / 15" | 1200 / 11" | 1200 / 15" | 1500 / 11" | 1500 / 15" |
|---------------------------------------------------|---|----------|-----------|------------|------------|------------|------------|------------|------------|
| Epaisseur plateaux (thickness-chuck)..... b       |   | 150,0    | 150,0     | 180,0      | 180,0      | 180,0      | 180,0      | 180,0      | 180,0      |
| Passage de barre (internal-passage-Ø)..... d      |   | 155,0    | 155,0     | 155,0      | 155,0      | 190,0      | 190,0      | 190,0      | 190,0      |
| Centrage conique (conical-centering) ..... d2     |   | 139,72   | 196,87    | 196,87     | 285,77     | 196,87     | 285,77     | 196,87     | 285,77     |
| Ø Fixation A2 (fixing A2-Ø)..... d4               |   | 171,4    | 235,0     | 235,0      | 330,20     | 235,0      | 330,20     | 235,0      | 330,20     |
| Passage vis fixation (passage for screws)..... d7 |   | M16      | M18/M20   | M18/M20    | M22        | M18/M20    | M22        | M18/M20    | M22        |

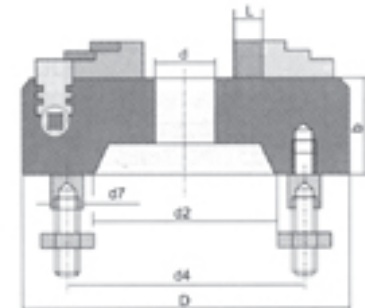
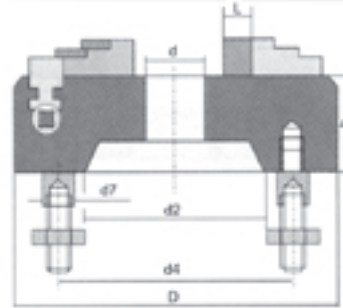
|                             |      |               |               |               |               |               |               |               |               |
|-----------------------------|------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| % 4 mors durs (4 hard-jaws) | Réf. | 020881BE84Q00 | 020881BF84Q00 | 020883BF84Q00 | 020883BG84Q00 | 020885BF84Q00 | 020885BG84Q00 | 020888BF84Q00 | 020888BG84Q00 |
| Poids mandrin (weight)      | kg   | 340           | 340           | 510           | 510           | 650           | 650           | 1000          | 1000          |

% Réf. standard en stock (standard ref. in stock)

\* Consulter pour demande spéciale ou pour d'autres équipements en mors rapportés (\* Call Ladner for special manufacturing and other jaws equipments)

n MONTAGE DIRECT SUR BROCHE BAÏONNETTES / direct assembly on spindle nose bayonets

## CARACTERISTIQUES (CHARACTERISTICS)



### Simple guidage (simple guide)

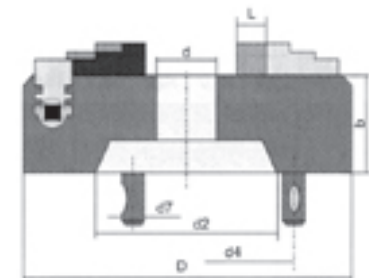
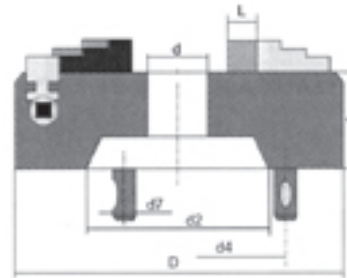
| Ø PLATEAUX (plates) / BROCHE (spindle nose)   | D    | 200 / 4"      | 200 / 5"      | 250 / 4"      | 250 / 5"      | 300 / 5"      | 300 / 6"      | 350 / 5"      | 350 / 6"      | 350 / 8"      | 400 / 6"      |
|-----------------------------------------------|------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Epaisseur plateaux (thickness-chuck)..... b   |      | 62,0          | 62,0          | 52,0          | 67,0          | 70,0          | 70,0          | 78,0          | 78,0          | 78,0          | 95,0          |
| Passage de barre (internal-passage-Ø)..... d  |      | 50,0          | 50,0          | 55,0          | 55,0          | 65,0          | 65,0          | 75,0          | 75,0          | 75,0          | 80,0          |
| Centrage conique (conical-centering) ..... d2 |      | 63,52         | 82,56         | 63,52         | 82,56         | 82,56         | 106,38        | 82,56         | 106,38        | 139,72        | 106,38        |
| Ø Fixation (fixing-Ø) ..... d4                |      | 85,0          | 104,8         | 85,0          | 104,8         | 104,8         | 133,4         | 104,8         | 133,4         | 171,4         | 133,4         |
| Goujons Din (stud-bolt Din) ..... d7          |      | 3*19,5        | 4*19,5        | 3*19,5        | 4*19,5        | 4*19,5        | 4*21,5        | 4*19,5        | 4*21,5        | 4*27          | 4*21,5        |
| % 4 mors durs (4 hard-jaws)                   | Réf. | 025031DB84Q00 | 025031DC84Q00 | 025041DB84Q00 | 025041DC84Q00 | 025051DC84Q00 | 025051DD84Q00 | 025061DC84Q00 | 025061DD84Q00 | 025061DE84Q00 | 025071DD84Q00 |
| Poids mandrin (weight)                        | kg   | 8,5           | 8,5           | 13            | 20            | 26            | 26            | 39            | 39            | 39            | 49            |

| Ø PLATEAUX (plates) / BROCHE (spindle nose)   | D    | 400 / 8"      | 500 / 6"      | 500 / 8"      | 500 / 11"     | 600 / 8"      | 600 / 11"     | 710 / 8"      | 710 / 11"     | 800 / 8"      | 800 / 11"     |
|-----------------------------------------------|------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Epaisseur plateaux (thickness-chuck)..... b   |      | 95,0          | 115,0         | 115,0         | 115,0         | 120,0         | 120,0         | 140,0         | 140,0         | 145,0         | 145,0         |
| Passage de barre (internal-passage-Ø)..... d  |      | 80,0          | 90,0          | 90,0          | 90,0          | 120,0         | 120,0         | -             | -             | 155,0         | 155,0         |
| Centrage conique (conical-centering) ..... d2 |      | 139,72        | 106,38        | 139,72        | 196,87        | 139,72        | 196,87        | 139,72        | 196,87        | 139,72        | 196,87        |
| Ø Fixation (fixing-Ø) ..... d4                |      | 171,4         | 133,4         | 171,4         | 235,0         | 171,4         | 235,0         | 171,4         | 235,0         | 171,4         | 235,0         |
| Goujons Din (stud-bolt Din) ..... d7          |      | 4*27          | 4*21,5        | 4*27          | 6*34          | 4*27          | 6*34          | 4*27          | 6*34          | 4*27          | 6*34          |
| % 4 mors durs (4 hard-jaws)                   | Réf. | 025071DE84Q00 | 025073DD84Q00 | 025073DE84Q00 | 025073DF84Q00 | 025075DE84Q00 | 025075DF84Q00 | 025077DE84Q00 | 025077DF84Q00 | 025079DE84Q00 | 025079DF84Q00 |
| Poids mandrin (weight)                        | kg   | 49            | 78            | 78            | 78            | 120           | 120           | 210           | 210           | 260           | 260           |

### Double guidage (double guide)

| Ø PLATEAUX (plates) / BROCHE (spindle nose)   | D    | 900 / 8"      | 900 / 11"     | 1000 / 11"    | 1000 / 15"    | 1200 / 11"    | 1200 / 15"    | 1500 / 11"    | 1500 / 15" |
|-----------------------------------------------|------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|------------|
| Epaisseur plateaux (thickness-chuck)..... b   |      | 150,0         | 150,0         | 180,0         | 180,0         | 180,0         | 180,0         | 180,0         | 180,0      |
| Passage de barre (internal-passage-Ø)..... d  |      | 155,0         | 155,0         | 155,0         | 155,0         | 190,0         | 190,0         | 190,0         | 190,0      |
| Centrage conique (conical-centering) ..... d2 |      | 139,72        | 196,87        | 196,87        | 285,78        | 196,87        | 285,78        | 196,87        | 285,78     |
| Ø Fixation (fixing-Ø) ..... d4                |      | 171,4         | 235,0         | 235,0         | 330,20        | 235,0         | 330,20        | 235,0         | 330,20     |
| Goujons Din (stud-bolt Din) ..... d7          |      | 4*27          | 6*34          | 6*34          | 6*41          | 6*34          | 6*41          | 6*34          | 6*41       |
| % 4 mors durs (4 hard-jaws)                   | Réf. | 020881DE84Q00 | 020881DF84Q00 | 020883DF84Q00 | 020883DG84Q00 | 020885DF84Q00 | 020885DG84Q00 | 020888DF84Q00 |            |
|                                               |      | 020888DG84Q00 |               |               |               |               |               |               |            |

## CARACTERISTIQUES (CHARACTERISTICS)



## Simple guidage (simple guide)

| Ø PLATEAUX (plates) / BROCHE (spindle nose)   | D | 200 / 3" | 200 / 4" | 200 / 5" | 250 / 4" | 250 / 5" | 300 / 5" | 300 / 6" | 350 / 5" | 350 / 6" | 350 / 8" | 400 / 6" |
|-----------------------------------------------|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Epaisseur plateaux (thickness-chuck)..... b   |   | 62,0     | 62,0     | 62,0     | 52,0     | 67,0     | 70,0     | 70,0     | 78,0     | 78,0     | 78,0     | 95,0     |
| Passage de barre (internal-passage-Ø)..... d  |   | 50,0     | 50,0     | 50,0     | 55,0     | 55,0     | 65,0     | 65,0     | 75,0     | 75,0     | 75,0     | 80,0     |
| Centrage conique (conical-centering) ..... d2 |   | 53,98    | 63,52    | 82,56    | 63,52    | 82,56    | 82,56    | 106,38   | 82,56    | 106,38   | 139,72   | 106,38   |
| Ø Fixation (fixing-Ø) ..... d4                |   | 70,6     | 82,6     | 104,8    | 82,6     | 104,8    | 104,8    | 133,4    | 104,8    | 133,4    | 171,4    | 133,4    |
| Tirants camlock (tie-rod camlock) ..... d7    |   | 14,3     | 15,8     | 19,0     | 15,8     | 19,0     | 19,0     | 22,2     | 19,0     | 22,2     | 25,4     | 22,2     |

|                             |      |               |               |               |               |               |               |               |               |               |               |               |
|-----------------------------|------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| % 4 mors durs (4 hard-jaws) | Réf. | 025031CA84Q00 | 025031CB84Q00 | 025031CC84Q00 | 025041CB84Q00 | 025041CC84Q00 | 025051CC84Q00 | 025051CD84Q00 | 025061CC84Q00 | 025061CD84Q00 | 025061CE84Q00 | 025071CD84Q00 |
| Poids mandrin (weight)      | kg   | 8,5           | 8,5           | 8,5           | 13            | 20            | 26            | 26            | 39            | 39            | 39            | 49            |

| Ø PLATEAUX (plates) / BROCHE (spindle nose)   | D | 400 / 8" | 500 / 6" | 500 / 8" | 500 / 11" | 600 / 8" | 600 / 11" | 710 / 8" | 710 / 11" | 800 / 8" | 800 / 11" |
|-----------------------------------------------|---|----------|----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|
| Epaisseur plateaux (thickness-chuck)..... b   |   | 95,0     | 115,0    | 115,0    | 115,0     | 120,0    | 120,0     | 140,0    | 140,0     | 145,0    | 145,0     |
| Passage de barre (internal-passage-Ø)..... d  |   | 80,0     | 90,0     | 90,0     | 90,0      | 120,0    | 120,0     | -        | -         | 155,0    | 155,0     |
| Centrage conique (conical-centering) ..... d2 |   | 139,72   | 106,38   | 139,72   | 196,87    | 139,72   | 196,87    | 139,72   | 196,87    | 139,72   | 196,87    |
| Ø Fixation (fixing-Ø) ..... d4                |   | 171,4    | 133,4    | 171,4    | 235,0     | 171,4    | 235,0     | 171,4    | 235,0     | 171,4    | 235,0     |
| Tirants camlock (tie-rod camlock) ..... d7    |   | 25,4     | 22,2     | 25,4     | 30,1      | 25,4     | 30,1      | 25,4     | 30,1      | 25,4     | 30,1      |

|                             |      |               |               |               |               |               |               |               |               |               |               |
|-----------------------------|------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| % 4 mors durs (4 hard-jaws) | Réf. | 025071CE84Q00 | 025073CD84Q00 | 025073CE84Q00 | 025073CF84Q00 | 025075CE84Q00 | 025075CF84Q00 | 025077CE84Q00 | 025077CF84Q00 | 025079CE84Q00 | 025079CF84Q00 |
| Poids mandrin (weight)      | kg   | 49            | 78            | 78            | 78            | 120           | 120           | 210           | 210           | 260           | 260           |

## Double guidage (double guide)

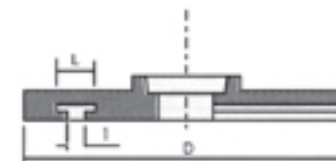
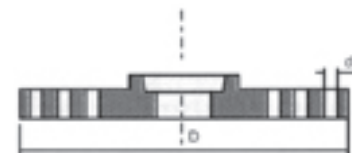
| Ø PLATEAUX (plates) / BROCHE (spindle nose)   | D | 900 / 8" | 900 / 11" | 1000 / 11" | 1000 / 15" | 1200 / 11" | 1200 / 15" | 1500 / 11" | 1500 / 15" |
|-----------------------------------------------|---|----------|-----------|------------|------------|------------|------------|------------|------------|
| Epaisseur plateaux (thickness-chuck)..... b   |   | 150,0    | 150,0     | 180,0      | 180,0      | 180,0      | 180,0      | 180,0      | 180,0      |
| Passage de barre (internal-passage-Ø)..... d  |   | 155,0    | 155,0     | 155,0      | 155,0      | 190,0      | 190,0      | 190,0      | 190,0      |
| Centrage conique (conical-centering) ..... d2 |   | 139,72   | 196,87    | 196,87     | 285,79     | 196,87     | 285,79     | 196,87     | 285,79     |
| Ø Fixation (fixing-Ø) ..... d4                |   | 171,4    | 235,0     | 235,0      | 330,20     | 235,0      | 330,20     | 235,0      | 330,20     |
| Tirants camlock (tie-rod camlock) ..... d7    |   | 25,4     | 30,1      | 30,1       | 34,9       | 30,1       | 34,9       | 30,1       | 34,9       |

|                             |      |               |               |               |               |               |               |               |               |
|-----------------------------|------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| % 4 mors durs (4 hard-jaws) | Réf. | 020881CE84Q00 | 020881CF84Q00 | 020883CF84Q00 | 020883CG84Q00 | 020885CF84Q00 | 020885CG84Q00 | 020888CF84Q00 | 020888CG84Q00 |
| Poids mandrin (weight)      | kg   | 340           | 340           | 510           | 510           | 650           | 650           | 1000          | 1000          |

\* % Réf. standard en stock (standard ref. in stock)

\* Consulter pour demande spéciale ou pour d'autres équipements en mors rapportés (\* Call Ladner for special manufacturing and other jaws equipments)

CARACTERISTIQUES (CHARACTERISTICS)



| Ø PLATEAUX (plates) / BROCHE (spindle)     | D | 300 / 5"      | 300 / 6"      | 350 / 5"      | 350 / 6"      | 350 / 8"      | 400 / 6"      | 400 / 8"      | 500 / 6"      | 500 / 8"      | 500 / 11"     |
|--------------------------------------------|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Ø trous (Ø holes)..... d                   |   | 78,5          | 78,5          | 83,5          | 92,0          | 92,0          | 85,0          | 106,0         | 123,0         | 123,0         | 128,0         |
| Quantité de trous (quantities holes) ..... |   | 50,0          | 50,0          | 55,0          | 55,0          | 65,0          | 65,0          | 75,0          | 75,0          | 75,0          | 80,0          |
| %o Réf. DIN 55026                          |   | 021051BC00E00 | 021051BD00E00 | 021061BC00E00 | 021061BD00E00 | 021061BE00E00 | 021071BD00E00 | 021071BE00E00 | 021073BD00E00 | 021073BE00E00 | 021073BF00E00 |
| %o Réf. DIN 55027                          |   | 021051DC00E00 | 021051DD00E00 | 021061DC00E00 | 021061DD00E00 | 021061DE00E00 | 021071DD00E00 | 021071DE00E00 | 021073DD00E00 | 021073DE00E00 | 021073DF00E00 |
| %o Réf. DIN 55029                          |   | 021051CC00E00 | 021051CD00E00 | 021061CC00E00 | 021061CD00E00 | 021061CE00E00 | 021071CD00E00 | 021071CE00E00 | 021073CD00E00 | 021073CE00E00 | 021073CF00E00 |
| Rainures (slots) T .....                   | I | 16            | 16,0          | 16,0          | 16,0          | 16,0          | 18,0          | 18,0          | 18,0          | 18,0          | 18,0          |
| Rainures (slots) T .....                   | L | 26,0          | 26,0          | 26,0          | 26,0          | 26,0          | 29,0          | 29,0          | 29,0          | 29,0          | 29,0          |
| %o Réf. DIN 55026                          |   | 031151BC00E00 | 031151BD00E00 | 031161BC00E00 | 031161BD00E00 | 031161BE00E00 | 031171BD00E00 | 031171BE00E00 | 031173BD00E00 | 031173BE00E00 | 031173BF00E00 |
| %o Réf. DIN 55027                          |   | 031151DC00E00 | 031151DD00E00 | 031161DC00E00 | 031161DD00E00 | 031161DE00E00 | 031171DD00E00 | 031171DE00E00 | 031173DD00E00 | 031173DE00E00 | 031173DF00E00 |
| %o Réf. DIN 55029                          |   | 031151CC00E00 | 031151CD00E00 | 031161CC00E00 | 031161CD00E00 | 031161CE00E00 | 031171CD00E00 | 031171CE00E00 | 031173CD00E00 | 031173CE00E00 | 031173CF00E00 |

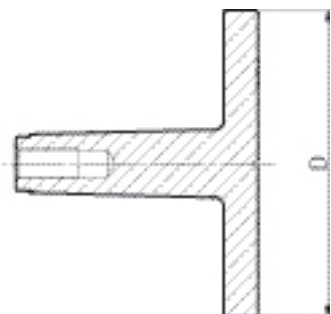
| Ø PLATEAUX (plates) / BROCHE (spindle)     | D | 630 / 6"      | 630 / 8"      | 630 / 11"     | 700 / 8"      | 700 / 11"     | 800 / 8"      | 800 / 11"     |
|--------------------------------------------|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Ø trous (Ø holes)..... d                   |   | 145,0         | 137,0         | 137,0         | 164,0         | 164,0         | 164,0         | 164,0         |
| Quantité de trous (quantities holes) ..... |   | 37            | 37            | 48            | 48            | 48            | 48            | 48            |
| %o Réf. DIN 55026                          |   | 021075BD00E00 | 021075BE00E00 | 021075BF00E00 | 021077BE00E00 | 021077BF00E00 | 021079BE00E00 | 021079BF00E00 |
| %o Réf. DIN 55027                          |   | 021075DD00E00 | 021075DE00E00 | 021075DF00E00 | 021077DE00E00 | 021077DF00E00 | 021079DE00E00 | 021079DF00E00 |
| %o Réf. DIN 55029                          |   | 021075CD00E00 | 021075CE00E00 | 021075CF00E00 | 021077CE00E00 | 021077CF00E00 | 021079CE00E00 | 021079CF00E00 |
| Rainures (slots) T .....                   | I | 22,0          | 22,0          | 22,0          | 22,0          | 22,0          | 22,0          | 22,0          |
| Rainures (slots) T .....                   | L | 38,0          | 38,0          | 38,0          | 38,0          | 38,0          | 38,0          | 38,0          |
| %o Réf. DIN 55026                          |   | 031175BD00E00 | 031175BE00E00 | 031175BF00E00 | 031177BE00E00 | 031177BF00E00 | 031179BE00E00 | 031179BF00E00 |
| %o Réf. DIN 55027                          |   | 031175DD00E00 | 031175DE00E00 | 031175DF00E00 | 031177DE00E00 | 031177DF00E00 | 031179DE00E00 | 031179DF00E00 |
| %o Réf. DIN 55029                          |   | 031175CD00E00 | 031175CE00E00 | 031175CF00E00 | 031177CE00E00 | 031177CF00E00 | 031179CE00E00 | 031179CF00E00 |

%o Réf. standard en stock (standard ref. in stock)

\* Consulter pour demande spéciale  
(\* Call Ladner for special manufacturing)

# FLASQUES D'ADAPTATION MANDRINS SUR BROCHE / flanges to fixe chucks on spindle nose

## CARACTERISTIQUES (CHARACTERISTICS)



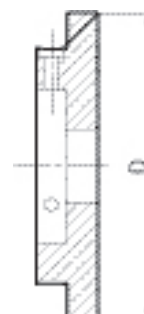
Cône morse

| N° Cône morse | Ø D | Réf. flasques (flanges) |
|---------------|-----|-------------------------|
| 2             | 80  | 030007HS00E00           |
| 2             | 100 | 030011HS00E00           |
| 3             | 80  | 030007HA00E00           |
| 3             | 100 | 030011HA00E00           |
| 3             | 125 | 030016HA00E00           |
| 3             | 160 | 030023HA00E00           |
| 4             | 100 | 030011HB00E00           |
| 4             | 125 | 030016HB00E00           |
| 4             | 160 | 030023HB00E00           |
| 4             | 200 | 030031HB00E00           |
| 5             | 160 | 030023HC00E00           |
| 5             | 200 | 030031HC00E00           |
| 5             | 250 | 030041HC00E00           |
| 6             | 250 | 030041HD00E00           |
| 6             | 315 | 030054HD00E00           |



Type L

| Type L | Réf. flasques (flanges) |               |
|--------|-------------------------|---------------|
| Ø D    | LOO                     | LO            |
| 160    | 030023FM00E00           | 030023FL00E00 |
| 200    | 030031FM00E00           | 030031FL00E00 |
| 250    | 030041FM00E00           | 030041FL00E00 |
| 315    | -                       | 030054FL00E00 |

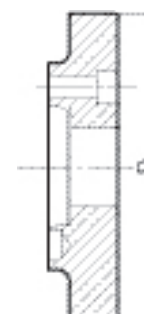


Type Cazeneuve

| Type L | Réf. flasques (flanges) |               |               |
|--------|-------------------------|---------------|---------------|
| Ø D    | L1                      | L2            | L3            |
| 200    | 030031FI00E00           | -             | -             |
| 250    | 030041FI00E00           | -             | -             |
| 315    | 030054FI00E00           | -             | -             |
| 400    | 030071FI00E00           | 030071FJ00E00 | 030071FK00E00 |
| 500    | 030073FI00E00           | 030073FJ00E00 | 030073FK00E00 |
| 630    | -                       | 030075FJ00E00 | 030075FK00E00 |

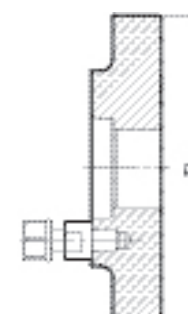
| TYPE CAZENEUVE         |                   |               |               |               |
|------------------------|-------------------|---------------|---------------|---------------|
| Ø flasques D (flanges) | Ø mandrin (chuck) | Réf. HBX      | Réf. HB rompu | Réf. HB HBY   |
| 160-300                | 160               | 030023GN00E00 | -             | -             |
| 350                    | 200               | 030031GN00E00 | -             | -             |
| 400-500                | 250               | 030041GN00E00 | 030041GP00E00 | 030041GO00E00 |
| 600-700                | 315               | 030054GN00E00 | 030054GP00E00 | 030054GO00E00 |
| 900-1000               | 315               | 030054GN00E00 | 030054GP00E00 | 030054GO00E00 |
| -                      | 350               | -             | -             | 030061GO00E00 |
| 800                    | 400               | -             | 030071GP00E00 | 030071GO00E00 |
| -                      | 500               | -             | -             | 030073GO00E00 |

DIN 55026



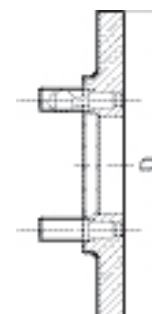
Type A2

DIN 55027



Type baïonnette

DIN 55029



Type camlock

| Ø broche (spindle) | Ø D | Réf. flasques (flanges) |               |               |
|--------------------|-----|-------------------------|---------------|---------------|
|                    |     | DIN 55026               | DIN 55027     | DIN 55029     |
| 3"                 | 100 | 030011BA00E00           | -             | -             |
| 3"                 | 125 | 030016BA00E00           | -             | 030016CA00E00 |
| 3"                 | 160 | -                       | -             | 030023CA00E00 |
| 4"                 | 125 | 030016BB00E00           | -             | 030016CB00E00 |
| 4"                 | 160 | 030023BB00E00           | -             | 030023CB00E00 |
| 4"                 | 200 | 030031BB00E00           | -             | 030031CB00E00 |
| 5"                 | 160 | 030023BC00E00           | 030023DC00E00 | 030023CC00E00 |
| 5"                 | 200 | 030031BC00E00           | 030031DC00E00 | 030031CC00E00 |
| 5"                 | 250 | 030041BC00E00           | 030041DC00E00 | 030041CC00E00 |
| 6"                 | 200 | 030031BD00E00           | 030031DD00E00 | 030031CD00E00 |
| 6"                 | 250 | 030041BD00E00           | 030041DD00E00 | 030041CD00E00 |
| 6"                 | 315 | 030054BD00E00           | 030054DD00E00 | 030054CD00E00 |
| 6"                 | 350 | 030061BD00E00           | 030061DD00E00 | 030061CD00E00 |
| 6"                 | 400 | 030071BD00E00           | 030071DD00E00 | 030071CD00E00 |
| 6"                 | 500 | 030073BD00E00           | 030073DD00E00 | 030073CD00E00 |
| 8"                 | 250 | 030041BE00E00           | 030041DE00E00 | 030041CE00E00 |
| 8"                 | 315 | 030054BE00E00           | 030054DE00E00 | 030054CE00E00 |
| 8"                 | 350 | 030061BE00E00           | 030061DE00E00 | 030061CE00E00 |
| 8"                 | 400 | 030071BE00E00           | 030071DE00E00 | 030071CE00E00 |
| 8"                 | 500 | 030073BE00E00           | 030073DE00E00 | 030073CE00E00 |
| 8"                 | 630 | 030075BE00E00           | 030075DE00E00 | 030075CE00E00 |
| 11"                | 315 | 030054BF00E00           | 030054DF00E00 | 030054CF00E00 |
| 11"                | 350 | 030061BF00E00           | 030061DF00E00 | 030061CF00E00 |
| 11"                | 400 | 030071BF00E00           | 030071DF00E00 | 030071CF00E00 |
| 11"                | 500 | 030073BF00E00           | 030073DF00E00 | 030073CF00E00 |
| 11"                | 630 | 030075BF00E00           | 030075DF00E00 | 030075CF00E00 |

% Réf. standard en stock (standard ref. in stock)

\* Consulter pour demande spéciale

(\* Call Ladner for special manufacturing)

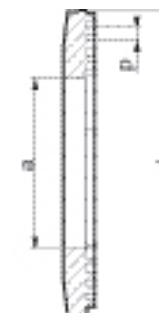
### ◀ COURONNES (crown)

| Ø MANDRIN (ø chuck)                          | D | 80            | 100           | 125           | 160           | 160 A1-5"     | 200           | 200 A2-4"     |
|----------------------------------------------|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Ø couronne (Ø crown) . . . . . d             |   | 55            | 69            | 94            | 124           | 131           | 159           | 160           |
| Alésage couronne (bore crown) . . . . . a    |   | 30            | 35            | 49            | 64            | 77            | 85            | 96            |
| Pas de la spirale (pitch spiral) . . . . . p |   | 4,5           | 5,5           | 6,5           | 7             | 7             | 9             | 9             |
| ‰ Réf. en stock .                            |   | 072007EQ00H00 | 072011EQ00H00 | 072016EQ00H00 | 072023EQ00H00 | 072023AC00H00 | 072031EQ00H00 | 072031BB00H00 |

| Ø MANDRIN (ø chuck)                          | D | 215 A1-6"     | 250           | 250 A1-8"     | 315           | 350           | 400           | 500           | 630           |
|----------------------------------------------|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Ø couronne (Ø crown) . . . . . d             |   | 176           | 199           | 199           | 258           | 288           | 328           | 418           | 543           |
| Alésage couronne (bore crown) . . . . . a    |   | 102           | 110           | 135           | 150           | 165           | 195           | 260           | 320           |
| Pas de la spirale (pitch spiral) . . . . . p |   | 9             | 9             | 9             | 9             | 10            | 10            | 12            | 12            |
| ‰ Réf. en stock                              |   | 072034AD00H00 | 072041EQ00H00 | 072041AE00H00 | 072054EQ00H00 | 072061EQ00H00 | 072071EQ00H00 | 072073EQ00H00 | 072075EQ00H00 |

### CARACTERISTIQUES (CHARACTERISTICS)

Couronne  
(crown)



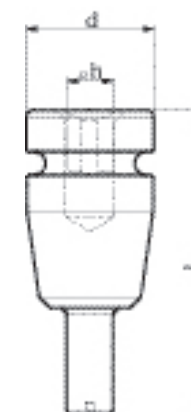
### ◀ PIGNONS (pinions)

| Ø MANDRIN (ø chuck)                           | D | 80            | 100           | 125           | 160           | 160 A1-5"     | 200-215       | 250           | 250 A1-8"     |
|-----------------------------------------------|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Ø extérieur (external Ø) . . . . . d          |   | 20            | 23            | 25            | 27            | 27            | 33            | 33            | 33            |
| Carré de manœuvre (square moving) . . . . . h |   | 6             | 8             | 9             | 10            | 10            | 12            | 12            | 12            |
| Longueur pignon (length pinion) . . . . . L   |   | 29,5          | 36,5          | 44,5          | 54            | 41            | 68            | 80            | 70            |
| ‰ Réf. en stock                               |   | 082007EQ00G00 | 082011EQ00G00 | 082016EQ00G00 | 082023EQ00G00 | 082023AC00G00 | 082031EQ00G00 | 082041EQ00G00 | 082041AE00G00 |

| Ø MANDRIN (ø chuck)                           | D | 315           | 350           | 400           | 500           | 630           |
|-----------------------------------------------|---|---------------|---------------|---------------|---------------|---------------|
| Ø extérieur (external Ø) . . . . . d          |   | 36            | 42            | 42            | 42            | 52            |
| Carré de manœuvre (square moving) . . . . . h |   | 14            | 16            | 16            | 16            | 20            |
| Longueur pignon (length pinion) . . . . . L   |   | 98            | 111           | 120           | 137           | 174           |
| ‰ Réf. en stock                               |   | 082054EQ00G00 | 082061EQ00G00 | 082071EQ00G00 | 082073EQ00G00 | 082075EQ00G00 |

### CARACTERISTIQUES (CHARACTERISTICS)

Pignon  
(pinion)



‰ Réf. standard en stock (standard ref. in stock)

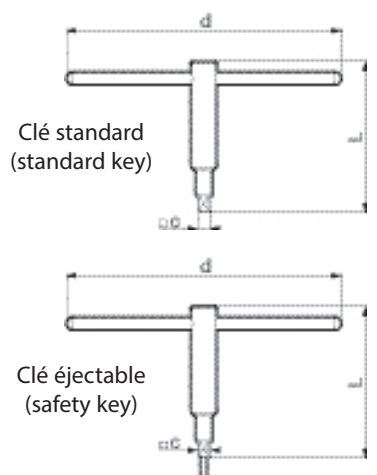
# PIECES DETACHEES POUR MANDRINS A SERRAGE CONCENTRIQUE (suite) / PIECES FOR CONCENTRIC-CHUCK

## < CLE (key)

| Ø MANDRIN (ø chuck)                      | D | 80            | 100           | 125           | 160           | 200-215       | 250           | 300-315       | 350-400       |
|------------------------------------------|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Longueur tige (length shank) ..... d     |   | 110           | 135           | 170           | 210           | 275           | 350           | 375           | 400           |
| Longueur corps (length body)..... L      |   | 60            | 72            | 80            | 115           | 135           | 135           | 125           | 125           |
| Carré de manœuvre (square moving)..... c |   | 6             | 8             | 9             | 10            | 12            | 12            | 14            | 16            |
| %o Réf. standard (standard ref.)         |   | 4720070000G00 | 4720110000G00 | 4720160000G00 | 4720230000G00 | 4720310000G00 | 4720410000G00 | 4720540000G00 | 4720710000G00 |
| %o Réf. éjectables (safety key ref.) -   |   | -             | 4720160000G01 | 4720230000G01 | 4720310000G01 | 4720410000G01 | 4720540000G01 | 4720710000G01 |               |

| Ø MANDRIN (ø chuck)                      | D | 500           | 630           |
|------------------------------------------|---|---------------|---------------|
| Longueur tige (length shank) ..... d     |   | 500           | 700           |
| Longueur corps (length body)..... L      |   | 150           | 160           |
| Carré de manœuvre (square moving)..... c |   | 16            | 20            |
| %o Réf. standard (standard ref.)         |   | 4720730000G00 | 4720750000G00 |
| %o Réf. éjectables (safety key ref.)     |   | -             | -             |

## CARACTERISTIQUES (CHARACTERISTICS)



Clé standard  
(standard key)

Clé éjectable  
(safety key)

## PIECES DETACHEES POUR MANDRINS A COMBINAISONS PIECES FOR CONCENTRIC-CHUCKS WITH COMBINAISONS JAWS

## < CLE (key)

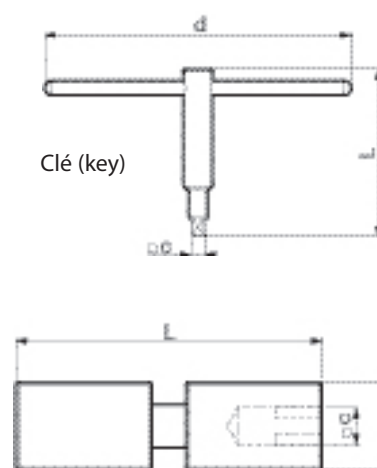
| Ø MANDRIN (ø chuck)                      | 160 ACP 4"/5" | 200 ACP 4"/5" | 215 6"        | 250 ACP 6"    | 315 ACP 6"/8" | 400 ACP 6"/8"/11" |
|------------------------------------------|---------------|---------------|---------------|---------------|---------------|-------------------|
| Longueur tige (length shank) ..... d     | 135           | 135           | 135           | 170           | 170           | 210               |
| Carré de manœuvre (square moving)..... c | 7             | 7             | 7             | 10            | 10            | 12                |
| Longueur corps (length body)..... L      | 115           | 115           | 115           | 154           | 154           | 200               |
| %o Réf. standard (standard ref.)         | 4820230000G00 | 4820230000G00 | 4820230000G00 | 4820410000G00 | 4820410000G00 | 4820710000G00     |

## < VIS pour MORS (male screw for jaws)

| Ø MANDRIN (ø chuck)                 | 160 ACP 4"/5" | 200 ACP 4"/5" | 215 6"        | 250 ACP 6"    | 315 ACP 6"/8" | 400 ACP 6"/8"/11" |
|-------------------------------------|---------------|---------------|---------------|---------------|---------------|-------------------|
| Diamètre (diameter) D               | 16            | 16            | 16            | 24            | 24            | 28                |
| Carré de manœuvre (square moving) c | 7             | 7             | 7             | 10            | 10            | 12                |
| Longueur (length) L                 | 62            | 72            | 72            | 85            | 98            | 123               |
| %o Réf. standard (standard ref.)    | 2020230000I00 | 2020310000I00 | 2020310000I00 | 2020410000I00 | 2020540000I00 | 2020710000I00     |

%o Réf. standard en stock (standard ref. in stock)

## CARACTERISTIQUES (CHARACTERISTICS)



Clé (key)

vis (screw)

## ◀ CARTERS PLEXIGLAS (protection chuck)

| TAILLE (size)                              | N° 1 | N° 2 | N° 3 | N° 4 | N° 5 |
|--------------------------------------------|------|------|------|------|------|
| Ø maxi mandrin (Ø maxi chuck)              | 215  | 250  | 315  | 400  | 630  |
| Ø ext. carter (ext. Ø safe. prot.chuck)    | 250  | 300  | 400  | 500  | 800  |
| Largeur du carter (width safe. prot.chuck) |      | 150  | 150  | 180  | 250  |
| 250                                        |      |      |      |      |      |

## ◀ CARTERS SECURITE (safety protection chuck)

| TAILLE (size)                                      | N° 1           | N° 2           | N° 3           | N° 4           | N° 5           | N° 6           |
|----------------------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Ø maxi mandrin (Ø maxi chuck)                      | 160            | 215            | 315            | 500            | 630            | 800            |
| Ø ext. carter (ext. Ø safe. prot.chuck)            | 245            | 310            | 420            | 640            | 820            | 1020           |
| Largeur du carter (width safe. prot.chuck)         | 125            | 175            | 200            | 250            | 300            | 320            |
| Entr'axe broche/fixation (distance spindle-fixing) | 200            | 200            | 275            | 325            | 445            | 550            |
| ‰ Réf. standard (standard ref.)                    | 40000000000001 | 40000000000002 | 40000000000003 | 40000000000004 | 40000000000005 | 40000000000006 |

Avec verrouillage électrique (with electrical safety)

La fermeture du carter autorise la rotation de la broche (The protection authorize the spindle rotation when it is shut)

L'ouverture du carter commande l'arrêt de la rotation de la broche (The protection cut the rotative possibility for the spindle when it is opened)

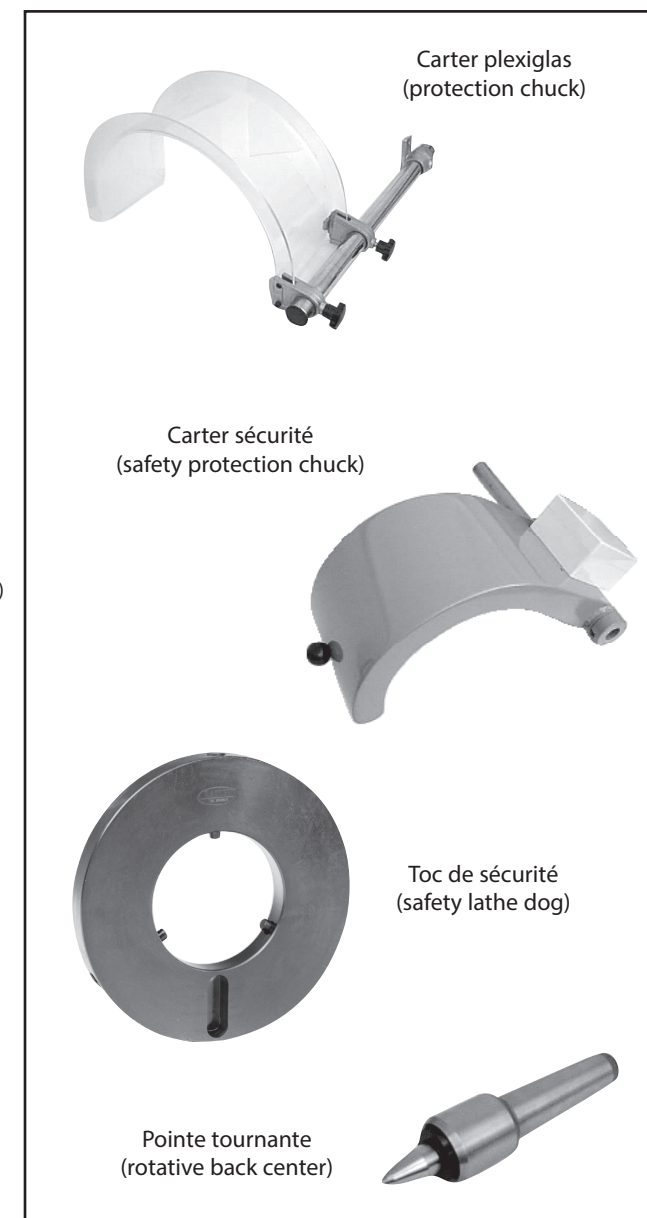
## ◀ TOCS DE SECURITE (safety lathe dog)

| TAILLE (size)                   | N° 1           | N° 2           | N° 3           | N° 4           |
|---------------------------------|----------------|----------------|----------------|----------------|
| Capacité (Capacity)             | 160            | 215            | 315            | 500            |
| Ø ext. (ext. Ø)                 | 127            | 148            | 167            | 207            |
| Ø mini pièce (Ø part mini)      | 22             | 32             | 45             | 60             |
| Ø maxi pièce (Ø part maxi)      | 55             | 62             | 72             | 92             |
| ‰ Réf. standard (standard ref.) | 39000000000001 | 39000000000002 | 39000000000003 | 39000000000004 |

## ◀ POINTES TOURNANTES (rotative back center)

| Réf. standard<br>standard ref. | Réf.allongée<br>elongated center ref. | cône morse<br>Morse taper | diam.tête<br>Ø head | charge/kg<br>load(kg) | rota. maxi<br>maxi-rotation |
|--------------------------------|---------------------------------------|---------------------------|---------------------|-----------------------|-----------------------------|
| RPT82CM2                       | RPTK82CM2                             | N° 2                      | 32                  | 200                   | 7000                        |
| RPT83CM3                       | RPTK83CM3                             | N° 3                      | 34                  | 400                   | 7000                        |
| RPT84CM4                       | RPTK84CM4                             | N° 4                      | 42                  | 800                   | 6000                        |
| RPT85CM5                       | RPTK85CM5                             | N° 5                      | 58                  | 1600                  | 4000                        |

‰ Réf. standard en stock (standard ref. in stock)



Pour un usinage performant



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Ladner S.a.S.  
42, route des andelys - BP 140 - 27201 VernOn - France  
Tel. +33 (0)2 32 64 69 64  
email: [info@ladner.fr](mailto:info@ladner.fr)  
Internet : [www.ladner.fr](http://www.ladner.fr)