



**LIMAS, ESCOFINAS, BOTADORES Y GRANETES / FILES, RASPS & PUNCHES / LIMES, RAPES, POINTEAUX ET CHASSES GOUPILLES / FEILEN, RASPELN, DURCHSCHLÄGER UND KÖRNER / LIMA, RASPE E PUNZONI / LIMAS, GROSAS E PUNÇÕES / НАПИЛЬНИКИ, РАШПИЛИ, МЕТЧИКИ**

# LIMAS Y ESCOFINAS

## FILES & RASPS

### LIMES ET RAPES

La gama completa de limas y escofinas super-profesionales EGA Master ofrece soluciones a todas las necesidades de acabado.

EGA Master super-professional file and rasp range offers solutions to all finishing needs.

La gamme complète de limes et de râpes super professionnelles EGA Master donne une solution à tous les problèmes.

|   |                                   | Debaste<br>Roughing<br>Bâtarde | Limado medio<br>Medium filing<br>Demi-douce | Afilado o limado fino<br>Sharpening or smooth filing<br>Douce |
|---|-----------------------------------|--------------------------------|---|---|
| Picado sencillo<br>Single cut<br>Une taille |                                   |                                | ● ●   | ● ●   |
| Picado doble<br>Double cut<br>Doble coupe   | Basto<br>Bastard<br>Bâtard        | ● ●                            | ●   |   |
|   | Entrefino<br>Medium<br>Demi douce |                                | ● ●   | ●   |
|   | Fino<br>Smooth<br>Douce           |                                | ● ●   | ● ●   |
| Escofina<br>Rasp<br>Râpe                    |                                   | ● ●                            |   |   |



**1.** Acero alto en cromo y carbono.  
High chrome and carbon steel.  
Acier en haute teneur en chrome et carbone.

**2.** Templados hasta los 65HRC.  
Tempered up to 65HRC.  
Trempe jusqu'à 65HRC.

**3.** Mango Bi-componente ergonómico y antideslizante BIMAT® de gran atractivo.

Highly attractive BIMAT® ergonomic and anti-slippery handle.  
Manche bi-matière, ergonomique et anti-dérapant très attrayant.

**4.** Protección antioxidante.  
Rust-proof treatment.  
Protection anti-oxydation.

|   |                                   | Fundición<br>Casting<br>Fonte | Acero sin templar<br>Non Templed alloy<br>Acier | Acero de alta aleación<br>High Alloy steel<br>Alliage d'acier | Latón bronce<br>Brass Bronze<br>Laiton bronze | Aluminio<br>Aluminium<br>Aluminium | Madera, Plásticos...<br>Wood, plastic...<br>Bois, plastique... |
|---|-----------------------------------|-------------------------------|---|---|---|------------------------------------|--|
| Picado sencillo<br>Single cut<br>Une taille |                                   |                               | ● ●   | ● ●   |   |                                    |  |
| Picado doble<br>Double cut<br>Doble coupe   | Basto<br>Bastard<br>Bâtard        | ● ●                           | ● ●   | ●   | ● ●   | ● ●                                | ●  |
|   | Entrefino<br>Medium<br>Demi douce | ● ●                           | ● ●   | ● ●   | ● ●   | ● ●                                |  |
|   | Fino<br>Smooth<br>Douce           | ●                             | ● ●   | ● ●   | ●   |                                    |  |
| Escofina<br>Rasp<br>Râpe                    |                                   |                               |   |   |   |                                    | ● ●  |

● Aceptable / Acceptable / Acceptable

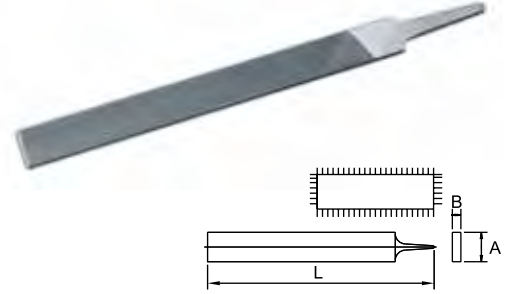
● ● Adecuado / Appropriate / Idéal

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LIMAS, ESCOFINAS, BOTADORES Y GRANETES / FILES, RASPS & PUNCHES / LIMES, RAPES, POINTEAUX ET CHASSES GOUPILLES / FEILEN, RASPELN, DURCHSCHLÄGER UND KÖRNER / LIMA, RASPE E PUNZONI / LIMAS, GROSAS E PUNÇÕES / НАПИЛЬНИКИ, РАШПИЛИ, МЕТЧИКИ

LIMAS PLANAS PARALELAS / HAND FILES / LIMES PLATES PARALLELES / FLACHSTUMPF / LIMA PIATTA PARALLELA / LIMAS PARALELAS / РУЧНЫЕ НАПИЛЬНИКИ

| COD   | L   | W/cm | Gr | A  | B   | Gr  | Gr |    |    |
|-------|-----|------|----|----|-----|-----|----|----|----|
| 63473 | 4"  | 1    | 14 | 12 | 2,5 | 40  | 20 |    |    |
| 63474 |     | 2    | 22 |    |     |     |    |    |    |
| 63475 |     | 3    | 28 |    |     |     |    |    |    |
| 63476 | 6"  | 1    | 11 | 16 | 4,0 | 80  |    | 20 |    |
| 63477 |     | 2    | 18 |    |     |     |    |    |    |
| 63478 |     | 3    | 22 |    |     |     |    |    |    |
| 63479 | 8"  | 1    | 10 | 20 | 5,0 | 185 |    |    | 20 |
| 63480 |     | 2    | 16 |    |     |     |    |    |    |
| 63481 |     | 3    | 20 |    |     |     |    |    |    |
| 63482 | 10" | 1    | 9  | 35 | 6,0 | 280 | 12 |    |    |
| 63483 |     | 2    | 12 |    |     |     |    |    |    |
| 63484 |     | 3    | 18 |    |     |     |    |    |    |
| 63485 | 12" | 1    | 8  | 30 | 6,5 | 400 |    | 12 |    |
| 63486 |     | 2    | 11 |    |     |     |    |    |    |
| 63487 |     | 3    | 16 |    |     |     |    |    |    |
| 63488 | 14" | 1    | 7  | 35 | 7,5 | 620 |    |    | 12 |
| 63489 |     | 2    | 10 |    |     |     |    |    |    |
| 63490 |     | 3    | 14 |    |     |     |    |    |    |

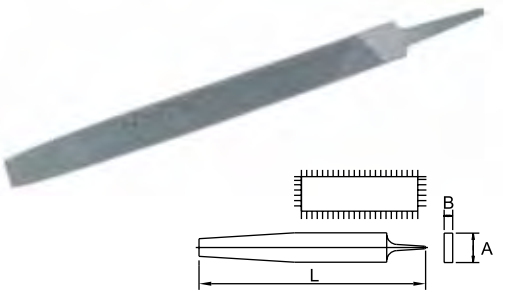


| COD   | L   | W/cm | Gr | A  | B   | Gr  | Gr |   |   |
|-------|-----|------|----|----|-----|-----|----|---|---|
| 63491 | 4"  | 1    | 14 | 12 | 2,5 | 45  | 5  |   |   |
| 63492 |     | 2    | 22 |    |     |     |    |   |   |
| 63493 |     | 3    | 28 |    |     |     |    |   |   |
| 63494 | 6"  | 1    | 11 | 16 | 4,0 | 90  |    | 5 |   |
| 63495 |     | 2    | 18 |    |     |     |    |   |   |
| 63496 |     | 3    | 22 |    |     |     |    |   |   |
| 63497 | 8"  | 1    | 10 | 20 | 5,0 | 200 |    |   | 5 |
| 63498 |     | 2    | 16 |    |     |     |    |   |   |
| 63499 |     | 3    | 20 |    |     |     |    |   |   |
| 63500 | 10" | 1    | 9  | 35 | 6,0 | 310 | 5  |   |   |
| 63501 |     | 2    | 12 |    |     |     |    |   |   |
| 63502 |     | 3    | 18 |    |     |     |    |   |   |
| 63503 | 12" | 1    | 8  | 30 | 6,5 | 410 |    | 5 |   |
| 63504 |     | 2    | 11 |    |     |     |    |   |   |
| 63505 |     | 3    | 16 |    |     |     |    |   |   |
| 63506 | 14" | 1    | 7  | 35 | 7,5 | 650 |    |   | 5 |
| 63507 |     | 2    | 10 |    |     |     |    |   |   |
| 63508 |     | 3    | 14 |    |     |     |    |   |   |



LIMAS PLANAS DE PUNTA / FLAT FILES / LIMES PLATES DE BOUT / FLACHSPITZ / LIMA PIATTA A PUNTA / LIMAS CHATAS / ПЛОСКИЕ НАПИЛЬНИКИ

| COD   | L   | W/cm | Gr | A  | B   | Gr  | Gr |    |    |
|-------|-----|------|----|----|-----|-----|----|----|----|
| 63509 | 4"  | 1    | 14 | 12 | 2,5 | 36  | 20 |    |    |
| 63510 |     | 2    | 22 |    |     |     |    |    |    |
| 63511 |     | 3    | 28 |    |     |     |    |    |    |
| 63512 | 6"  | 1    | 11 | 16 | 4,0 | 70  |    | 20 |    |
| 63513 |     | 2    | 18 |    |     |     |    |    |    |
| 63514 |     | 3    | 22 |    |     |     |    |    |    |
| 63515 | 8"  | 1    | 10 | 20 | 5,0 | 165 |    |    | 20 |
| 63516 |     | 2    | 16 |    |     |     |    |    |    |
| 63517 |     | 3    | 20 |    |     |     |    |    |    |
| 63518 | 10" | 1    | 9  | 35 | 6,0 | 250 | 12 |    |    |
| 63519 |     | 2    | 12 |    |     |     |    |    |    |
| 63520 |     | 3    | 18 |    |     |     |    |    |    |
| 63521 | 12" | 1    | 8  | 30 | 6,5 | 360 |    | 12 |    |
| 63522 |     | 2    | 11 |    |     |     |    |    |    |
| 63523 |     | 3    | 16 |    |     |     |    |    |    |
| 63524 | 14" | 1    | 7  | 35 | 7,5 | 550 |    |    | 12 |
| 63525 |     | 2    | 10 |    |     |     |    |    |    |
| 63526 |     | 3    | 14 |    |     |     |    |    |    |



| COD   | L   | W/cm | Gr | A  | B   | Gr  | Gr |   |   |
|-------|-----|------|----|----|-----|-----|----|---|---|
| 63527 | 4"  | 1    | 14 | 12 | 2,5 | 40  | 5  |   |   |
| 63528 |     | 2    | 22 |    |     |     |    |   |   |
| 63529 |     | 3    | 28 |    |     |     |    |   |   |
| 63530 | 6"  | 1    | 11 | 16 | 4,0 | 80  |    | 5 |   |
| 63531 |     | 2    | 18 |    |     |     |    |   |   |
| 63532 |     | 3    | 22 |    |     |     |    |   |   |
| 63533 | 8"  | 1    | 10 | 20 | 5,0 | 180 |    |   | 5 |
| 63534 |     | 2    | 16 |    |     |     |    |   |   |
| 63535 |     | 3    | 20 |    |     |     |    |   |   |
| 63536 | 10" | 1    | 9  | 35 | 6,0 | 270 | 5  |   |   |
| 63537 |     | 2    | 12 |    |     |     |    |   |   |
| 63538 |     | 3    | 18 |    |     |     |    |   |   |
| 63539 | 12" | 1    | 8  | 30 | 6,5 | 370 |    | 5 |   |
| 63540 |     | 2    | 11 |    |     |     |    |   |   |
| 63541 |     | 3    | 16 |    |     |     |    |   |   |
| 63542 | 14" | 1    | 7  | 35 | 7,5 | 600 |    |   | 5 |
| 63543 |     | 2    | 10 |    |     |     |    |   |   |
| 63544 |     | 3    | 14 |    |     |     |    |   |   |



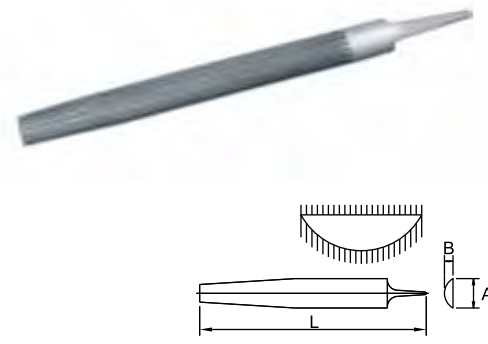
- 1 Basta / Bastard / Batarde / Bastard / Bastarda / Bastardo / ГРУБЫЕ
- 2 Entrefina/Medium/Demi douce/Halbschlicht/Media /Meio murço/ СРЕДНИЕ
- 3 Fina / Smooth / Douce / Schlicht / Fine / Murço / МЕЛКИЕ

NATO Commercial and Government Entity (NCAGE) Code / Código (NCAGE) OTAN: 8552B

**LIMAS, ESCOFINAS, BOTADORES Y GRANETES / FILES, RASPS & PUNCHES / LIMES, RAPES, POINTEAUX ET CHASSES GOUPILLES / FEILEN, RASPELN, DURCHSCHLÄGER UND KÖRNER / LIMA, RASPE E PUNZONI / LIMAS, GROSAS E PUNÇÕES / НАПИЛЬНИКИ, РАШПИЛИ, МЕТЧИКИ**

LIMAS MEDIA CAÑA / HALF ROUND FILES / LIMES DEMI-RONDES / HALBRUND-FEILEN, SPITZE FORM / LIMA MEZZATONDA / LIMAS MEIA CANA / ПОЛУКРУГЛЫЕ НАПИЛЬНИКИ

| COD   | L   | MM/cm |    | A     | B  | gr. |     |
|-------|-----|-------|----|-------|----|-----|-----|
| 63545 | 4"  | 1     | 14 | 81820 | 10 | 3,0 | 19  |
| 63546 |     | 2     | 22 |       |    |     |     |
| 63547 |     | 3     | 28 |       |    |     |     |
| 63548 | 6"  | 1     | 11 | 81880 | 16 | 4,5 | 65  |
| 63549 |     | 2     | 18 |       |    |     |     |
| 63550 |     | 3     | 22 |       |    |     |     |
| 63551 | 8"  | 1     | 10 | 81880 | 20 | 6,0 | 140 |
| 63552 |     | 2     | 16 |       |    |     |     |
| 63553 |     | 3     | 20 |       |    |     |     |
| 63554 | 10" | 1     | 9  | 81881 | 25 | 7,0 | 240 |
| 63555 |     | 2     | 12 |       |    |     |     |
| 63556 |     | 3     | 18 |       |    |     |     |
| 63557 | 12" | 1     | 8  | 81885 | 30 | 8,5 | 350 |
| 63558 |     | 2     | 11 |       |    |     |     |
| 63559 |     | 3     | 16 |       |    |     |     |
| 63560 | 14" | 1     | 7  | 81885 | 35 | 10  | 650 |
| 63561 |     | 2     | 10 |       |    |     |     |
| 63562 |     | 3     | 14 |       |    |     |     |

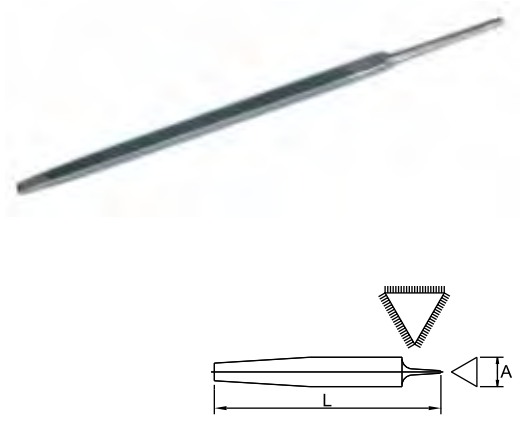


| COD   | L   | MM/cm |     | A   | B    | gr. |     |
|-------|-----|-------|-----|-----|------|-----|-----|
| 63563 | 4"  | 1     | 14  | 85  | 10,5 | 3,0 | 24  |
| 63564 |     | 2     | 22  |     |      |     |     |
| 63565 |     | 3     | 28  |     |      |     |     |
| 63566 | 6"  | 1     | 11  | 114 | 16   | 4,5 | 70  |
| 63567 |     | 2     | 18  |     |      |     |     |
| 63568 |     | 3     | 22  |     |      |     |     |
| 63569 | 8"  | 1     | 10  | 114 | 20   | 6,0 | 150 |
| 63570 |     | 2     | 16  |     |      |     |     |
| 63571 |     | 3     | 20  |     |      |     |     |
| 63572 | 10" | 1     | 9   | 135 | 25   | 7,0 | 260 |
| 63573 |     | 2     | 12  |     |      |     |     |
| 63574 |     | 3     | 18  |     |      |     |     |
| 63575 | 12" | 1     | 8   | 135 | 30   | 8,5 | 370 |
| 63576 |     | 2     | 11  |     |      |     |     |
| 63577 |     | 3     | 16  |     |      |     |     |
| 63578 | 14" | 1     | 7,0 | 135 | 35   | 10  | 650 |
| 63579 |     | 2     | 10  |     |      |     |     |
| 63580 |     | 3     | 14  |     |      |     |     |



LIMAS TRIANGULARES / TRIANGULAR FILES / LIMES TRIANGULAIRES / DREIKANTFEILEN / LIMA TRIANGOLARE / LIMATÕES TRIANGULARES / ТРЕУГОЛЬНЫЕ НАПИЛЬНИКИ

| COD   | L   | MM/cm |     | A     | gr. |     |
|-------|-----|-------|-----|-------|-----|-----|
| 63581 | 4"  | 1     | 14  | 81820 | 8,0 | 22  |
| 63582 |     | 2     | 22  |       |     |     |
| 63583 |     | 3     | 28  |       |     |     |
| 63584 | 6"  | 1     | 11  | 81880 | 11  | 64  |
| 63585 |     | 2     | 18  |       |     |     |
| 63586 |     | 3     | 22  |       |     |     |
| 63587 | 8"  | 1     | 10  | 81880 | 15  | 140 |
| 63588 |     | 2     | 16  |       |     |     |
| 63589 |     | 3     | 20  |       |     |     |
| 63590 | 10" | 1     | 9   | 81881 | 17  | 200 |
| 63591 |     | 2     | 12  |       |     |     |
| 63592 |     | 3     | 18  |       |     |     |
| 63593 | 12" | 1     | 8,0 | 81885 | 20  | 320 |
| 63594 |     | 2     | 11  |       |     |     |
| 63595 |     | 3     | 16  |       |     |     |
| 63596 | 14" | 1     | 7   | 81885 | 24  | 600 |
| 63597 |     | 2     | 10  |       |     |     |
| 63598 |     | 3     | 14  |       |     |     |



| COD   | L   | MM/cm |     | A   | gr. |     |
|-------|-----|-------|-----|-----|-----|-----|
| 63599 | 4"  | 1     | 14  | 85  | 8,0 | 27  |
| 63600 |     | 2     | 22  |     |     |     |
| 63601 |     | 3     | 28  |     |     |     |
| 63602 | 6"  | 1     | 11  | 114 | 11  | 70  |
| 63603 |     | 2     | 18  |     |     |     |
| 63604 |     | 3     | 22  |     |     |     |
| 63605 | 8"  | 1     | 10  | 114 | 15  | 150 |
| 63606 |     | 2     | 16  |     |     |     |
| 63607 |     | 3     | 20  |     |     |     |
| 63608 | 10" | 1     | 9   | 135 | 17  | 205 |
| 63609 |     | 2     | 12  |     |     |     |
| 63610 |     | 3     | 18  |     |     |     |
| 63611 | 12" | 1     | 8,0 | 135 | 20  | 340 |
| 63612 |     | 2     | 11  |     |     |     |
| 63613 |     | 3     | 16  |     |     |     |
| 63614 | 14" | 1     | 7   | 135 | 24  | 600 |
| 63615 |     | 2     | 10  |     |     |     |
| 63616 |     | 3     | 14  |     |     |     |



- 1 Basta / Bastard / Batarde / Bastard / Bastarda / Bastardo / ГРУБЫЕ
- 2 Entrefina/Medium/Demi douce/Halbschlicht/Media /Meio murço/ СРЕДНИЕ
- 3 Fina / Smooth / Douce / Schlicht / Fine / Murço / МЕЛКИЕ

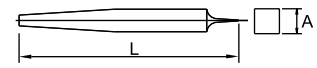


# 12

## LIMAS, ESCOFINAS, BOTADORES Y GRANETES / FILES, RASPS & PUNCHES / LIMES, RAPES, POINTEAUX ET CHASSES GOUPILLES / FEILEN, RASPELN, DURCHSCHLÄGER UND KÖRNER / LIMA, RASPE E PUNZONI / LIMAS, GROSAS E PUNÇÕES / НАПИЛЬНИКИ, РАШПИЛИ, МЕТЧИКИ

### LIMAS CUADRADAS / SQUARE FILES / LIMES CARREES / VIERKANTFEILEN / LIMA QUADRA / LIMATÕES QUADRADOS / КВАДРАТНЫЕ НАПИЛЬНИКИ

| COD   | L   | MM/cm | gr. | A     | gr. |
|-------|-----|-------|-----|-------|-----|
| 63617 | 4"  | 1     | 14  | 81819 | 4,0 |
| 63618 |     | 2     | 22  |       |     |
| 63619 |     | 3     | 28  |       |     |
| 63620 | 6"  | 1     | 11  | 81819 | 6,0 |
| 63621 |     | 2     | 18  |       |     |
| 63622 |     | 3     | 22  |       |     |
| 63623 | 8"  | 1     | 10  | 81878 | 8,0 |
| 63624 |     | 2     | 16  |       |     |
| 63625 |     | 3     | 20  |       |     |
| 63626 | 10" | 1     | 9   | 81878 | 10  |
| 63627 |     | 2     | 12  |       |     |
| 63628 |     | 3     | 18  |       |     |
| 63629 | 12" | 1     | 8   | 81938 | 12  |
| 63630 |     | 2     | 11  |       |     |
| 63631 |     | 3     | 16  |       |     |
| 63632 | 14" | 1     | 7   | 81938 | 15  |
| 63633 |     | 2     | 10  |       |     |
| 63634 |     | 3     | 14  |       |     |

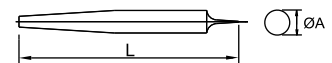


| COD   | L   | MM/cm | gr. | A   | gr. |
|-------|-----|-------|-----|-----|-----|
| 63635 | 4"  | 1     | 14  | 85  | 4,0 |
| 63636 |     | 2     | 22  |     |     |
| 63637 |     | 3     | 28  |     |     |
| 63638 | 6"  | 1     | 11  | 85  | 6,0 |
| 63639 |     | 2     | 18  |     |     |
| 63640 |     | 3     | 22  |     |     |
| 63641 | 8"  | 1     | 10  | 114 | 8,0 |
| 63642 |     | 2     | 16  |     |     |
| 63643 |     | 3     | 20  |     |     |
| 63644 | 10" | 1     | 9   | 114 | 10  |
| 63645 |     | 2     | 12  |     |     |
| 63646 |     | 3     | 18  |     |     |
| 63647 | 12" | 1     | 8   | 135 | 12  |
| 63648 |     | 2     | 11  |     |     |
| 63649 |     | 3     | 16  |     |     |
| 63650 | 14" | 1     | 7   | 135 | 15  |
| 63651 |     | 2     | 10  |     |     |
| 63652 |     | 3     | 14  |     |     |



### LIMAS REDONDAS / ROUND FILES / LIMES RONDES / RUNDFEILEN / LIMA TONDA / LIMATÕES REDONDOS / КРУГЛЫЕ НАПИЛЬНИКИ

| COD   | L   | MM/cm | gr. | A     | gr. |
|-------|-----|-------|-----|-------|-----|
| 63653 | 4"  | 1     | 13  | 81819 | 4,0 |
| 63654 |     | 2     | 16  |       |     |
| 63655 |     | 3     | 19  |       |     |
| 63656 | 6"  | 1     | 11  | 81819 | 6,0 |
| 63657 |     | 2     | 14  |       |     |
| 63658 |     | 3     | 17  |       |     |
| 63659 | 8"  | 1     | 10  | 81879 | 7,5 |
| 63660 |     | 2     | 13  |       |     |
| 63661 |     | 3     | 16  |       |     |
| 63662 | 10" | 1     | 9   | 81879 | 9,5 |
| 63663 |     | 2     | 12  |       |     |
| 63664 |     | 3     | 15  |       |     |
| 63665 | 12" | 1     | 8   | 81938 | 12  |
| 63666 |     | 2     | 11  |       |     |
| 63667 |     | 3     | 14  |       |     |
| 63668 | 14" | 1     | 7   | 81938 | 15  |
| 63669 |     | 2     | 10  |       |     |
| 63670 |     | 3     | 13  |       |     |



| COD   | L   | MM/cm | gr. | A   | gr. |
|-------|-----|-------|-----|-----|-----|
| 63671 | 4"  | 1     | 13  | 85  | 4,0 |
| 63672 |     | 2     | 16  |     |     |
| 63673 |     | 3     | 19  |     |     |
| 63674 | 6"  | 1     | 11  | 85  | 6,0 |
| 63675 |     | 2     | 14  |     |     |
| 63676 |     | 3     | 17  |     |     |
| 63677 | 8"  | 1     | 10  | 114 | 7,5 |
| 63678 |     | 2     | 13  |     |     |
| 63679 |     | 3     | 16  |     |     |
| 63680 | 10" | 1     | 9   | 114 | 9,5 |
| 63681 |     | 2     | 12  |     |     |
| 63682 |     | 3     | 15  |     |     |
| 63683 | 12" | 1     | 8   | 135 | 12  |
| 63684 |     | 2     | 11  |     |     |
| 63685 |     | 3     | 14  |     |     |
| 63686 | 14" | 1     | 7   | 135 | 15  |
| 63687 |     | 2     | 10  |     |     |
| 63688 |     | 3     | 13  |     |     |



- 1 Basta / Bastard / Batarde / Bastard / Bastarda / Bastardo / ГРУБЫЕ
- 2 Entrefina/Medium/Demi douce/Halbschlicht/Media /Meio murço/ СРЕДНИЕ
- 3 Fina / Smooth / Douce / Schlicht / Fine / Murço / МЕЛКИЕ

NATO Commercial and Government Entity (NCAGE) Code / Código (NCAGE) OTAN: 8552B

**12****LIMAS, ESCOFINAS, BOTADORES Y GRANETES / FILES, RASPS & PUNCHES / LIMES, RAPES, POINTEAUX ET CHASSES GOUPILLES / FEILEN, RASPELN, DURCHSCHLÄGER UND KÖRNER / LIMA, RASPE E PUNZONI / LIMAS, GROSAS E PUNÇÕES / НАПИЛЬНИКИ, РАШПИЛИ, МЕТЧИКИ****JUEGOS / SETS****JUEGO DE 5 LIMAS DE 10" BASTA / 10" BASTARD FILE SET 5 PCS / JEU DE 5 LIMES BATADES 10" / SET BASTARD FEILEN 5 STÜCK / KIT 5 LIME BASTARDE 10" / JOGO DE 5 LIMAS DE 10" BASTARDAS / 10" ГРУБЫЕ НАПИЛЬНИКИ НАБОР ИЗ 5 ШТ**

| <b>COD</b>   | <b>←L→</b> | <b>Composición / Composition</b> |  |
|--------------|------------|----------------------------------|--|
| <b>63760</b> | 10"        | 63536                            | Lima plana punta basta<br>Bastard flat file      |
|              |            | 63572                            | Lima media caña basta<br>Bastard half round file |
|              |            | 63608                            | Lima triangular basta<br>Bastard triangular file |
|              |            | 63644                            | Lima cuadrada basta<br>Bastard square file       |
|              |            | 63680                            | Lima redonda basta<br>Bastard round file         |

**JUEGO DE 5 LIMAS DE 10" ENTREFINA / 10" MEDIUM FILE SET 5 PCS / JEU DE 5 LIMES DEMI-DOUCES 10" / SET MEDIUM FEILEN 5 STÜCK / KIT 5 LIME EXTRA FINE 10" / JOGO DE 5 LIMAS 10" MEIO MURÇO / 10" СРЕДНИЕ НАПИЛЬНИКИ НАБОР ИЗ 5 ШТ**

| <b>COD</b>   | <b>←L→</b> | <b>Composición / Composition</b> |   |
|--------------|------------|----------------------------------|---|
| <b>63762</b> | 10"        | 63537                            | Lima plana punta entrefina<br>Medium flat file      |
|              |            | 63573                            | Lima media caña entrefina<br>Medium half round file |
|              |            | 63609                            | Lima triangular entrefina<br>Medium triangular file |
|              |            | 63645                            | Lima cuadrada entrefina<br>Medium square file       |
|              |            | 63681                            | Lima redonda entrefina<br>Medium round file         |

**JUEGO DE 5 LIMAS DE 10" FINA / 10" SMOOTH FILE SET 5 PCS / JEU DE 5 LIMES DOUCES 10" / SET SCHLICHT FEILEN 5 STÜCK / KIT 5 LIME FINE 10" / JOGO DE 5 LIMAS 10" MURÇO / 10" МЕЛКИЕ НАПИЛЬНИКИ НАБОР ИЗ 5 ШТ**

| <b>COD</b>   | <b>←L→</b> | <b>Composición / Composition</b> |  |
|--------------|------------|----------------------------------|--|
| <b>63767</b> | 10"        | 63538                            | Lima plana punta fina<br>Smooth flat file      |
|              |            | 63574                            | Lima media caña fina<br>Smooth half round file |
|              |            | 63610                            | Lima triangular fina<br>Smooth triangular file |
|              |            | 63646                            | Lima cuadrada fina<br>Smooth square file       |
|              |            | 63682                            | Lima redonda fina<br>Smooth round file         |

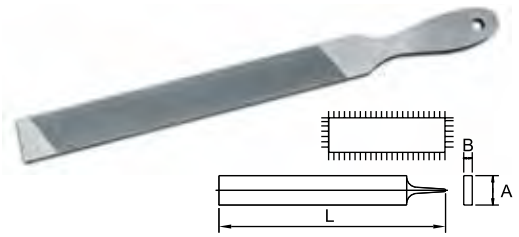


# 12

## LIMAS, ESCOFINAS, BOTADORES Y GRANETES / FILES, RASPS & PUNCHES / LIMES, RAPES, POINTEAUX ET CHASSES GOUPILLES / FEILEN, RASPELN, DURCHSCHLÄGER UND KÖRNER / LIMA, RASPE E PUNZONI / LIMAS, GROSAS E PUNÇÕES / НАПИЛЬНИКИ, РАШПИЛИ, МЕТЧИКИ

LIMA PLANA / FARMER'S OWN / LIME PLATE / FLACHFEILEN / LIMA PIATTA / LIMA PLANA / ФЕРМЕРСКИЙ НАПИЛЬНИК

| COD   | L  | z | /cm | A  | B   | gr. |    |
|-------|----|---|-----|----|-----|-----|----|
| 63689 | 8" | 2 | 16  | 25 | 5,0 | 230 | 10 |



LIMAS AFILADO / SHARPENING FILES / LIMES AIGUILLES / PRÄZISIONSNADELFEILEN DÜNN / LIMA AFFILATA / LIMAS DE AFIAR, DE AGRICULTOR / ЗАТАЧИВАЮЩИЕ НАПИЛЬНИКИ

LIMA TRIANGULAR DELGADA / SLIM TAPER SAW / LIME TRIANGULAIRE ETROITE / PRÄZISIONSNADELFEILEN DÜNN / LIMA TRIANGOLARE / LIMAS TRIANGULARES FINAS / ТРЕУГОЛЬНЫЙ НАПИЛЬНИК

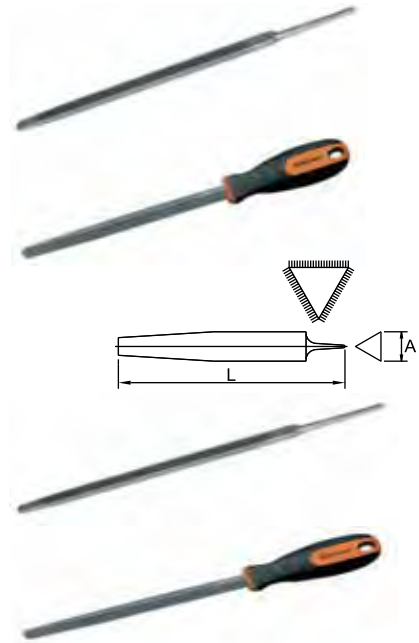
| COD   | L  | z | A   | gr. |    |
|-------|----|---|-----|-----|----|
| 63690 | 4" | 4 | 4,5 | 7,5 | 20 |
| 63691 | 5" |   | 6,0 | 17  |    |

| COD   | L  | z | A   | gr. |   |
|-------|----|---|-----|-----|---|
| 63692 | 4" | 4 | 4,5 | 10  | 5 |
| 63693 | 5" |   | 6,0 | 25  |   |

LIMA TRIANGULAR EXTRA-DELGADA / EXTRA REGULAR TAPER SAW / LIME EXTRA FINE / DREIKANTFEILEN / LIMA TRIANGOLARE EXTRA-SOTTILE / LIMAS TRIANGULARES EXTRA-FINAS / МЕЛКИЙ ТРЕУГОЛЬНЫЙ НАПИЛЬНИК

| COD   | L  | z | A   | gr. |    |
|-------|----|---|-----|-----|----|
| 63694 | 4" | 4 | 4,0 | 7,0 | 20 |
| 63695 | 5" |   | 5,0 | 12  |    |

| COD   | L  | z | A   | gr. |   |
|-------|----|---|-----|-----|---|
| 63696 | 4" | 4 | 4,0 | 10  | 5 |
| 63697 | 5" |   | 5,0 | 20  |   |



ESCOFINAS / RASPS / RAPES / SCHABER / RASPA / GROSAS / РАШПИЛИ

ESCOFINAS PLANAS PARALELAS / HAND WOOD RASPS / RAPES PLATES PARALLELES / FLACH RAPS / RASPA PIATTA PARALLELA / GROSAS PARALELAS / РУЧНЫЕ РАШПИЛИ ПО ДЕРЕВУ

| COD   | L   | z  | /cm | A  | B   | gr. |    |
|-------|-----|----|-----|----|-----|-----|----|
| 63698 | 10" | 10 | 3   | 24 | 7,0 | 125 | 20 |
| 63699 | 12" |    |     | 28 | 8,0 | 220 |    |

| COD   | L   | z  | /cm | A   | B  | gr. |     |   |   |
|-------|-----|----|-----|-----|----|-----|-----|---|---|
| 63700 | 10" | 10 | 3   | 115 | 24 | 7,0 | 125 | 5 | 1 |
| 63701 | 12" |    |     | 135 | 28 | 8,0 | 220 |   |   |



- 1 Basta / Bastard / Batarde / Bastard / Bastarda / Bastardo / ГРУБЫЕ
- 2 Entrefina / Medium / Demi douce / Halbschlicht / Media / Meio murço / СРЕДНИЕ
- 3 Fina / Smooth / Douce / Schlicht / Fine / Murço / МЕЛКИЕ
- 4 Extrafina / Very smooth / Extrafine / Doppelschlicht / Extrafine / Muito murço / ОЧЕНЬ МЕЛКИЙ

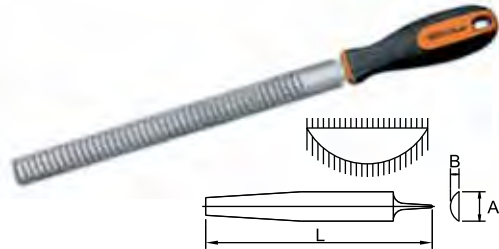
**LIMAS, ESCOFINAS, BOTADORES Y GRANETES / FILES, RASPS & PUNCHES / LIMES, RAPES, POINTEAUX ET CHASSES GOUPILLES / FEILEN, RASPELN, DURCHSCHLÄGER UND KÖRNER / LIMA, RASPE E PUNZONI / LIMAS, GROSAS E PUNÇÕES / НАПИЛЬНИКИ, РАШПИЛИ, МЕТЧИКИ**

**ESCOFINAS MEDIA CAÑA / HALF ROUND RASPS / RAPES DEMI-ROND / HALBRUND RAPS / RASPA MEZZOTANDA / GROSAS MEIA CANA / ПОЛУКРУГЛЫЙ РАШПИЛЬ**

| COD   | L   | z  | cm | A     | B  | gr. |     |
|-------|-----|----|----|-------|----|-----|-----|
| 63702 | 6"  | 10 | 3  | 81820 | 16 | 4,0 | 80  |
| 63703 | 8"  |    |    | 81880 | 20 | 5,5 | 140 |
| 63704 | 10" |    |    | 81881 | 24 | 7,0 | 240 |
| 63705 | 12" |    |    | 81885 | 28 | 8,0 | 370 |



| COD   | L   | z  | cm | A   | B  | gr. |     |
|-------|-----|----|----|-----|----|-----|-----|
| 63706 | 6"  | 10 | 3  | 85  | 16 | 4,0 | 80  |
| 63707 | 8"  |    |    | 114 | 20 | 5,5 | 140 |
| 63708 | 10" |    |    | 135 | 24 | 7,0 | 240 |
| 63709 | 12" |    |    | 135 | 28 | 8,0 | 370 |



**ESCOFINAS REDONDAS / ROUND RASPS / RAPES RONDES / RUNDE RAPS / RASPA TONDA / GROSAS REDONDAS / КРУГЛЫЕ РАШПИЛИ**

| COD   | L   | z  | cm | A     | gr. |    |
|-------|-----|----|----|-------|-----|----|
| 63710 | 8"  | 10 | 3  | 81879 | 9,5 | 60 |
| 63711 | 10" |    |    | 11    | 125 | 20 |



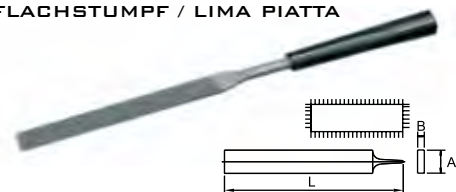
| COD   | L   | z  | cm | A   | gr. |    |
|-------|-----|----|----|-----|-----|----|
| 63712 | 8"  | 10 | 3  | 114 | 9,5 | 60 |
| 63713 | 10" |    |    | 11  | 125 | 5  |



**LIMAS DE AGUJA / NEEDLE FILES / LIMES AIGUILLES / NADELFEILEN / LIMA A PUNTA / LIMAS DE CALADO / НАДФИЛИ**

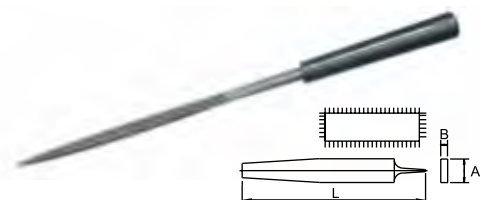
**LIMAS PLANAS PARALELAS / HAND FILES / LIMES PLATES PARALLELES / FLACHSTUMPF / LIMA PIATTA PARALLELA / LIMAS PARALELAS / РУЧНОЙ НАДФИЛЬ**

| COD   | L  | cm | A  | B  | gr. |    |    |   |
|-------|----|----|----|----|-----|----|----|---|
| 63714 | 6" | 2  | 25 | 16 | 3,3 | 70 | 24 | 1 |



**LIMAS PLANAS DE PUNTA / FLAT FILES / LIMES PLATES DE BOUT / NADELFLACHSTUMPF / LIMA PIATTA A PUNTA / LIMAS CHATAS / ПЛОСКИЙ НАДФИЛЬ**

| COD   | L  | cm | A  | B  | gr. |    |    |   |
|-------|----|----|----|----|-----|----|----|---|
| 63715 | 6" | 2  | 25 | 16 | 3,3 | 65 | 24 | 1 |



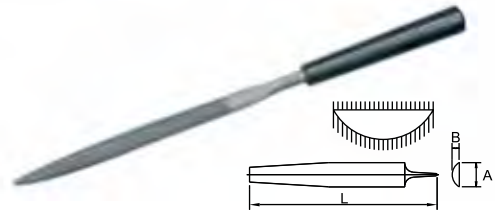


# 12

## LIMAS, ESCOFINAS, BOTADORES Y GRANETES / FILES, RASPS & PUNCHES / LIMES, RAPES, POINTEAUX ET CHASSES GOUPILLES / FEILEN, RASPELN, DURCHSCHLÄGER UND KÖRNER / LIMA, RASPE E PUNZONI / LIMAS, GROSAS E PUNÇÕES / НАПИЛЬНИКИ, РАШПИЛИ, МЕТЧИКИ

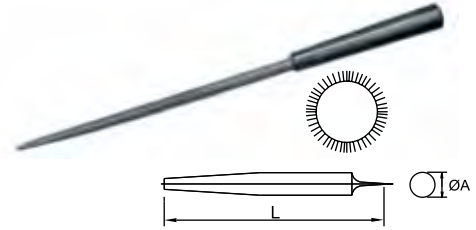
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| COD   | L  |   | mm/cm | A  | B   | gr. |    |   |
|-------|----|---|-------|----|-----|-----|----|---|
| 63716 | 6" | 2 | 25    | 16 | 4,2 | 65  | 24 | 1 |



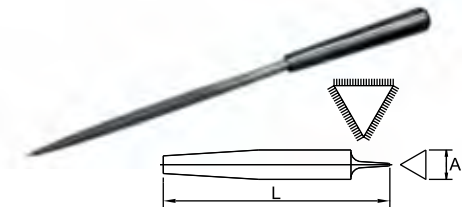
LIMAS REDONDAS / ROUND FILES / LIMES RONDES / RUNDFEILEN / LIMA TONDA / LIMATÕES REDONDOS / КРУГЛЫЙ НАДФИЛЬ

| COD   | L  |   | mm/cm | A   |  | gr. |    |   |
|-------|----|---|-------|-----|--|-----|----|---|
| 63717 | 6" | 2 | 25    | 5,5 |  | 30  | 24 | 1 |



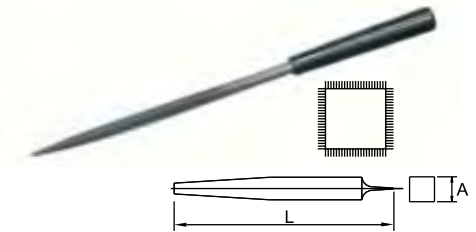
LIMAS TRIANGULARES / TRIANGULAR FILES / LIMES TRIANGULAIRES / DREIKANTFEILEN / LIMA TRIANGOLARE / LIMAS TRIANGULARES / ТРЕУГОЛЬНЫЙ НАДФИЛЬ

| COD   | L  |   | mm/cm | A  |  | gr. |    |   |
|-------|----|---|-------|----|--|-----|----|---|
| 63718 | 6" | 2 | 25    | 11 |  | 60  | 24 | 1 |



LIMAS CUADRADAS / SQUARE FILES / LIMES CARREES / VIERKANTFEILEN / LIMA QUADRA / LIMATÕES QUADRADOS / КВАДРАТНЫЙ НАДФИЛЬ

| COD   | L  |   | mm/cm | A   |  | gr. |    |   |
|-------|----|---|-------|-----|--|-----|----|---|
| 63719 | 6" | 2 | 25    | 5,0 |  | 35  | 24 | 1 |



- 1 Basta / Bastard / Batarde / Bastard / Bastarda / Bastardo / ГРУБЫЕ
- 2 Entrefina / Medium / Demi douce / Halbschlicht / Media / Meio murço / СРЕДНИЕ
- 3 Fina / Smooth / Douce / Schlicht / Fine / Murço / МЕЛКИЕ

SET

| COD   |       | L  |
|-------|-------|----|
| 63768 | 63714 | 6" |
|       | 63715 |    |
|       | 63716 |    |
|       | 63717 |    |
|       | 63718 |    |
|       | 63719 |    |

**NEW**



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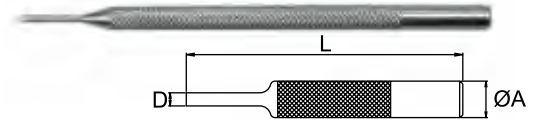
**LIMAS, ESCOFINAS, BOTADORES Y GRANETES / FILES, RASPS & PUNCHES / LIMES, RAPES, POINTEAUX ET CHASSES GOUPILLES / FEILEN, RASPELN, DURCHSCHLÄGER UND KÖRNER / LIMA, RASPE E PUNZONI / LIMAS, GROSAS E PUNÇÕES / НАПИЛЬНИКИ, РАШПИЛИ, МЕТЧИКИ**

**BOTADORES CILÍNDRICOS / PIN PUNCHES / CHASSES GOUPILLES / DURCHSCHLÄGER PUNZONE CILINDRICO / PUNÇÕES CILÍNDRICOS / ПРОБОЙНИКИ**

**CILÍNDRICOS Y MOLETEADOS / CYLINDRICAL AND KNURLED / CYLINDRIQUE ET MOLETE / ZYLINDERFÖRMIG UND GERÄNDELT / CILINDRICO E ZIGRINATO / CILINDRICOS E RECARILHADOS / ЦИЛИНДРИЧЕСКИЕ С НАСЕЧКОЙ**

| COD   | D    | L   | A  | gr. |    |
|-------|------|-----|----|-----|----|
| 63380 | 2mm  | 125 | 8  | 40  | 25 |
| 63381 | 3mm  |     |    | 41  |    |
| 63382 | 4mm  |     |    | 43  |    |
| 63383 | 5mm  |     | 10 | 65  |    |
| 63384 | 6mm  |     |    | 90  |    |
| 63385 | 8mm  |     |    | 12  |    |
| 63386 | 10mm |     |    | 14  |    |

Cr-V DIN 6450



SET

| SET   | COD   | D     |
|-------|-------|-------|
| 68590 | 63380 | 2,0mm |
|       | 63381 | 3,0mm |
|       | 63382 | 4,0mm |
|       | 63383 | 5,0mm |
|       | 63384 | 6,0mm |
|       | 63385 | 8,0mm |
|       | 63386 | 10mm  |

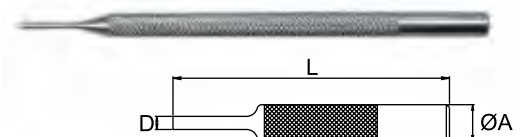
NEW



**CILINDRÍCOS Y MOLETEADOS LARGOS / LONG CILINDRICAL AND KNURLED / CYLINDRIQUE LONGUE ET MOLETTE / LANG ZYLINDERFÖRMIG UND GERÄNDELT / CILINDRICO E ZIGRINATO LARGO / CILINDRICOS E RECARILHADOS LONGOS / ДЛИННЫЕ ЦИЛИНДРИЧЕСКИЕ И С НАСЕЧКОЙ**

| COD   | D    | L   | A  | gr. |    |
|-------|------|-----|----|-----|----|
| 63387 | 2mm  | 150 | 8  | 49  | 25 |
| 63388 | 3mm  |     |    | 50  |    |
| 63389 | 4mm  |     |    | 55  |    |
| 63390 | 5mm  |     | 10 | 75  |    |
| 63391 | 6mm  |     |    | 80  |    |
| 63392 | 8mm  |     |    | 115 |    |
| 63393 | 10mm |     |    | 14  |    |

Cr-V DIN 6450



SET

| SET   | COD   | D     |
|-------|-------|-------|
| 68591 | 63387 | 2,0mm |
|       | 63388 | 3,0mm |
|       | 63389 | 4,0mm |
|       | 63390 | 5,0mm |
|       | 63391 | 6,0mm |
|       | 63392 | 8,0mm |
|       | 63393 | 10mm  |

NEW



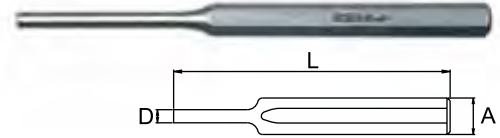
12

LIMAS, ESCOFINAS, BOTADORES Y GRANETES / FILES, RASPS & PUNCHES / LIMES, RAPES, POINTEAUX ET CHASSES GOUPILLES / FEILEN, RASPELN, DURCHSCHLÄGER UND KÖRNER / LIMA, RASPE E PUNZONI / LIMAS, GROSAS E PUNÇÕES / НАПИЛЬНИКИ, РАШПИЛИ, МЕТЧИКИ



HEXAGONALES / HEXAGONAL / A SIX PANS / HEXAGONAL / ESAGONALI / HEXAGONAIS / ШЕСТИГРАННАЯ

| COD   | D    | L   | A   | gr. |    |
|-------|------|-----|-----|-----|----|
| 63394 | 2mm  | 150 | 8,0 | 28  | 25 |
| 63395 | 3mm  |     |     | 40  |    |
| 63396 | 4mm  |     |     | 42  |    |
| 63397 | 5mm  |     | 10  | 65  |    |
| 63398 | 6mm  |     |     | 70  |    |
| 63399 | 8mm  |     |     | 90  |    |
| 63400 | 10mm |     |     | 95  |    |



DIN 6450

SET

| COD   | D     |       |
|-------|-------|-------|
| 63763 | 63394 | 2,0mm |
|       | 63395 | 3,0mm |
|       | 63396 | 4,0mm |
|       | 63397 | 5,0mm |
|       | 63398 | 6,0mm |
|       | 63399 | 8,0mm |
|       | 63400 | 10mm  |



OCTOGONAL / OCTOGONAL / OKTOGONAL / OCTOGONAL / OTTAGONALE / OCTOGONAIS / ВОСЬМИГРАННЫЕ

| COD   | D    | L   | A  | gr. |    |     |
|-------|------|-----|----|-----|----|-----|
| 63401 | 2mm  | 150 | 10 | 65  | 25 |     |
| 63402 | 3mm  |     |    |     |    |     |
| 63403 | 4mm  |     |    |     |    |     |
| 63404 | 5mm  |     | 12 |     |    | 70  |
| 63405 | 6mm  |     |    |     |    | 105 |
| 63406 | 8mm  | 120 |    |     |    |     |
| 63407 | 10mm |     |    |     |    |     |



Cr-V DIN 6450

NEW

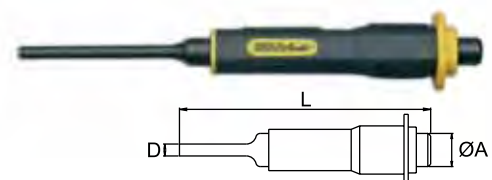
SET

| COD   | D     |       |
|-------|-------|-------|
| 68592 | 63401 | 2,0mm |
|       | 63402 | 3,0mm |
|       | 63403 | 4,0mm |
|       | 63404 | 5,0mm |
|       | 63405 | 6,0mm |
|       | 63406 | 8,0mm |
|       | 63407 | 10mm  |



CON MANGO / WITH HANDLE / AVEC MANCHE / MIT GRIFF / CON MANICO / COM CABO / С РУКОЯТКОЙ

| COD   | D    | L   | A   | gr. |    |
|-------|------|-----|-----|-----|----|
| 63447 | 2mm  | 165 | 8   | 65  | 10 |
| 63448 | 3mm  | 175 |     |     |    |
| 63449 | 4mm  | 185 | 10  | 100 |    |
| 63450 | 5mm  | 200 |     | 110 |    |
| 63451 | 6mm  |     | 210 | 12  |    |
| 63452 | 7mm  | 160 |     |     |    |
| 63453 | 8mm  | 220 | 14  | 170 |    |
| 63454 | 9mm  |     |     | 230 |    |
| 63455 | 10mm | 230 | 16  | 240 |    |
| 63456 | 12mm |     |     | 330 |    |
| 63457 | 14mm | 240 | 18  | 430 |    |
| 63458 | 16mm |     |     | 500 |    |



Cr-V DIN 6450

NATO Commercial and Government Entity (NCAGE) Code / Código (NCAGE) OTAN: 8552B



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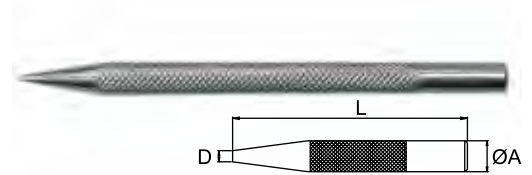
LIMAS, ESCOFINAS, BOTADORES Y GRANETES / FILES, RASPS & PUNCHES / LIMES, RAPES, POINTEAUX ET CHASSES GOUPILLES / FEILEN, RASPELN, DURCHSCHLÄGER UND KÖRNER / LIMA, RASPE E PUNZONI / LIMAS, GROSAS E PUNÇÕES / НАПИЛЬНИКИ, РАШПИЛИ, МЕТЧИКИ

**BOTADORES CÓNICOS / TAPER PUNCHES / CHASSE GOUPILLE / KÖRNER / PUNZONE CONICO / PUNÇÕES CÓNICOS / КОНИЧЕСКИЕ ПРОБОЙНИКИ**

CÓNICOS Y MOLETEADOS / CONICAL AND KNURLED / CONIQUE ET MOLETE / KONISCH UND GERÄNDELT / CONICO E ZIGRINATO / CONICOS E RECARILHADOS / КОНИЧЕСКИЕ С НАСЕЧКОЙ

| COD   | D    | L   | A  | gr. |    |
|-------|------|-----|----|-----|----|
| 63408 | 2mm  | 125 | 8  | 44  | 25 |
| 63409 | 3mm  |     |    | 45  |    |
| 63410 | 4mm  |     |    | 47  |    |
| 63411 | 5mm  |     | 10 | 70  |    |
| 63412 | 6mm  |     |    | 100 |    |
| 63413 | 8mm  |     |    | 12  |    |
| 63414 | 10mm |     |    | 14  |    |

Cr-V DIN 6458



SET

| COD   | D     |       |
|-------|-------|-------|
| 68593 | 63408 | 2,0mm |
|       | 63409 | 3,0mm |
|       | 63410 | 4,0mm |
|       | 63411 | 5,0mm |
|       | 63412 | 6,0mm |
|       | 63413 | 8,0mm |
|       | 63414 | 10mm  |

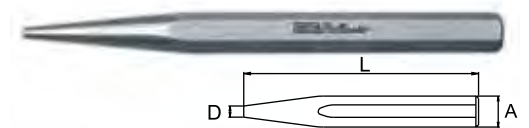
NEW



**HEXAGONALES / HEXAGONAL / A SIX PANS / HEXAGONAL / ESAGONALI / HEXAGONAIS / ШЕСТИГРАННАЯ**

| COD   | D    | L   | A  | gr. |    |
|-------|------|-----|----|-----|----|
| 63415 | 2mm  | 125 | 10 | 60  | 25 |
| 63416 | 3mm  |     |    | 65  |    |
| 63417 | 4mm  |     |    | 70  |    |
| 63418 | 5mm  |     |    | 110 |    |
| 63419 | 6mm  |     |    | 120 |    |
| 63420 | 8mm  | 150 | 12 | 110 |    |
| 63421 | 10mm |     |    | 120 |    |

DIN 6458



SET

| COD   | D     |       |
|-------|-------|-------|
| 63764 | 63415 | 2,0mm |
|       | 63416 | 3,0mm |
|       | 63417 | 4,0mm |
|       | 63418 | 5,0mm |
|       | 63419 | 6,0mm |
|       | 63420 | 8,0mm |
|       | 63421 | 10mm  |





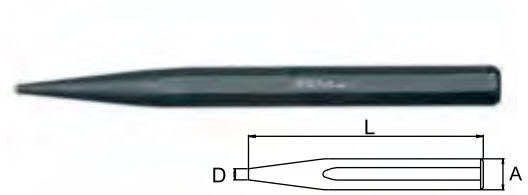
12

**LIMAS, ESCOFINAS, BOTADORES Y GRANETES / FILES, RASPS & PUNCHES / LIMES, RAPES, POINTEAUX ET CHASSES GOUPILLES / FEILEN, RASPELN, DURCHSCHLÄGER UND KÖRNER / LIMA, RASPE E PUNZONI / LIMAS, GROSAS E PUNÇÕES / НАПИЛЬНИКИ, РАШПИЛИ, МЕТЧИКИ**

OCTOGONAL / OCTOGONAL / ОКТОГОНАЛ / OCTOGONAL / OTTAGONALE / OCTOGONAIS / ВОСЬМИГРАННЫЕ

| COD   | D    | L   | A  | gr. |    |
|-------|------|-----|----|-----|----|
| 63422 | 2mm  | 120 | 10 | 60  | 25 |
| 63423 | 3mm  |     |    | 65  |    |
| 63424 | 4mm  |     |    | 75  |    |
| 63425 | 5mm  | 150 | 12 | 80  |    |
| 63426 | 6mm  |     |    | 120 |    |
| 63427 | 8mm  |     |    | 135 |    |
| 63428 | 10mm |     |    | 135 |    |

Cr-V DIN 6458



SET

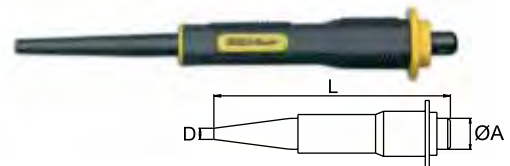
| COD   | D     |       |
|-------|-------|-------|
| 68594 | 63422 | 2,0mm |
|       | 63423 | 3,0mm |
|       | 63424 | 4,0mm |
|       | 63425 | 5,0mm |
|       | 63426 | 6,0mm |
|       | 63427 | 8,0mm |
|       | 63428 | 10mm  |



CON MANGO / WITH HANDLE / AVEC MANCHE / MIT GRIFF / CON MANICO / COM CABO / С РУКОЯТКОЙ

| COD   | D    | L   | A  | gr. |    |
|-------|------|-----|----|-----|----|
| 63459 | 2mm  | 165 | 8  | 75  | 10 |
| 63460 | 3mm  | 175 |    | 80  |    |
| 63461 | 4mm  | 185 | 10 | 110 |    |
| 63462 | 5mm  |     |    | 115 |    |
| 63463 | 6mm  |     |    | 120 |    |
| 63464 | 8mm  | 12  | 12 | 170 |    |
| 63465 | 10mm |     |    | 200 |    |

Cr-V DIN 6458

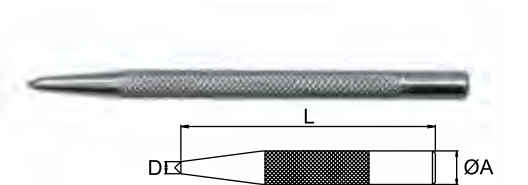


GRANETES / CENTER PUNCHES / POINTEAUX / KÖRNER / PUNZONI / PUNÇÕES / МЕТЧИКИ

CILÍNDRICOS Y MOLETEADOS / CYLINDRICAL AND KNURLED / CYLINDRIQUE ET MOLETE / ZYLINDERFÖRMIG UND GERÄNDELT / CILINDRICO E ZIGRINATO / BICO CILINDRICOS E RECARTILHADOS / ЦИЛИНДРИЧЕСКИЕ С НАСЕЧКОЙ

| COD   | D     | L   | A   | gr. |    |
|-------|-------|-----|-----|-----|----|
| 63429 | 2,5mm | 125 | 8   | 42  | 25 |
| 63430 | 3mm   |     |     | 43  |    |
| 63431 | 4mm   |     | 45  |     |    |
| 63432 | 6mm   |     | 70  |     |    |
| 63433 | 8mm   |     | 100 |     |    |
| 63434 | 10mm  |     | 130 |     |    |

Cr-V DIN 7250



SET

| COD   | D     |       |
|-------|-------|-------|
| 68595 | 63429 | 2,5mm |
|       | 63430 | 3,0mm |
|       | 63431 | 4,0mm |
|       | 63432 | 6,0mm |
|       | 63433 | 8,0mm |
|       | 63434 | 10mm  |



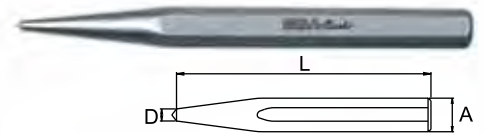
12

**LIMAS, ESCOFINAS, BOTADORES Y GRANETES / FILES, RASPS & PUNCHES / LIMES, RAPES, POINTEAUX ET CHASSES GOUPILLES / FEILEN, RASPELN, DURCHSCHLÄGER UND KÖRNER LIMA, RASPE E PUNZONI / LIMAS, GROSAS E PUNÇÕES / НАПИЛЬНИКИ, РАШПИЛИ, МЕТЧИКИ**

HEXAGONALES / HEXAGONAL / A SIX PANS / HEXAGONAL / ESAGONALI / HEXAGONAIS / ШЕСТИГРАННАЯ

| COD   | D     | L   | A | gr. |    |
|-------|-------|-----|---|-----|----|
| 63435 | 2,5mm | 100 | 8 | 35  | 25 |
| 63436 | 3mm   |     |   |     |    |
| 63437 | 4mm   |     |   |     |    |
| 63438 | 6mm   |     |   |     |    |
| 63439 | 8mm   |     |   |     |    |
| 63440 | 10mm  |     |   |     |    |

DIN 7250



SET

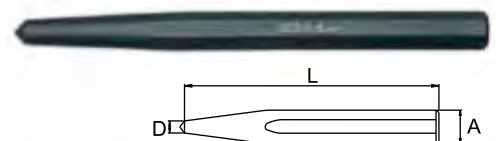
| COD   | D     |       |
|-------|-------|-------|
| 63765 | 63435 | 2,5mm |
|       | 63436 | 3,0mm |
|       | 63437 | 4,0mm |
|       | 63438 | 6,0mm |
|       | 63439 | 8,0mm |
|       | 63440 | 10mm  |



OCTOGONAL / OCTOGONAL / OKTOGONAL / OCTOGONAL / OTTAGONALE / OCTOGONAIS / ВОСЬМИГРАННЫЕ

| COD   | D     | L   | A  | gr. |    |
|-------|-------|-----|----|-----|----|
| 63441 | 2,5mm | 120 | 10 | 60  | 25 |
| 63442 | 3mm   |     |    |     |    |
| 63443 | 4mm   |     |    |     |    |
| 63444 | 6mm   |     |    |     |    |
| 63445 | 8mm   |     |    |     |    |
| 63446 | 10mm  |     |    |     |    |

Cr-V DIN 7250



SET

| COD   | D     |       |
|-------|-------|-------|
| 68596 | 63441 | 2,5mm |
|       | 63442 | 3,0mm |
|       | 63443 | 4,0mm |
|       | 63444 | 6,0mm |
|       | 63445 | 8,0mm |
|       | 63446 | 10mm  |

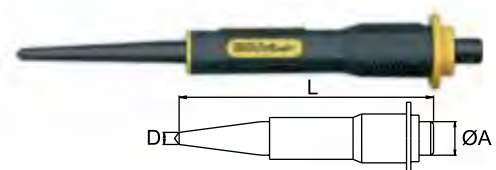
NEW



CON MANGO / WITH HANDLE / AVEC MANCHE / MIT GRIFF / CON MANICO / COM CABO / С РУКОЯТКОЙ

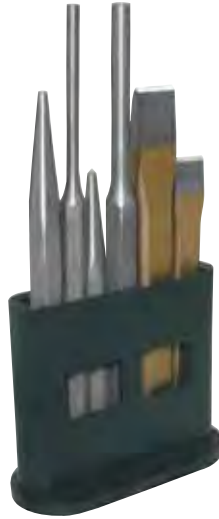
| COD   | D    | L   | A | gr. |    |
|-------|------|-----|---|-----|----|
| 63466 | 2mm  | 165 | 8 | 75  | 10 |
| 63467 | 3mm  |     |   |     |    |
| 63468 | 4mm  |     |   |     |    |
| 63469 | 6mm  |     |   |     |    |
| 63470 | 8mm  |     |   |     |    |
| 63471 | 10mm |     |   |     |    |

Cr-V DIN 7250



## SETS

CINCELES, BOTADORES Y GRANETES / CHISELS AND PUNCHES / BURINS, CHASSE-GOUPILLES ET POINTEAUX / MEISSEL UND DURCHSCHLÄGE / SCALPELLI E PUNZONI / ESCOPROS, SACA-TROÇOS E PUNÇÕES / ДОЛОТА И ПРОБОЙНИКИ



| COD   | Composición / Composition |  | gr. |
|-------|---------------------------|--|-----|
| 69953 | 62847                     | Cinzel mecánico / Cold chisel: 12x11x100mm | 700 |
|       | 62848                     | Cinzel mecánico / Cold chisel: 15x14x125mm |     |
|       | 63398                     | Botador cilíndrico / Pin punch: 6x10x150mm |     |
|       | 63396                     | Botador cilíndrico / Pin punch: 4x8x150mm  |     |
|       | 63416                     | Botador cónico / Taper punch: 3x10x125mm   |     |
|       | 63436                     | Granete / Center punch: 3x8x100mm          |     |



| COD   | Composición / Composition |  | gr. |
|-------|---------------------------|--|-----|
| 69954 | 62847                     | Cinzel mecánico / Cold chisel: 12x11x100mm | 700 |
|       | 62848                     | Cinzel mecánico / Cold chisel: 15x14x125mm |     |
|       | 62871                     | Buril plano / Crosscut chisel: 5x14x125    |     |
|       | 63396                     | Botador cilíndrico / Pin punch: 4x8x150mm  |     |
|       | 63416                     | Botador cónico / Taper punch: 3x10x125mm   |     |
|       | 63436                     | Granete / Center punch: 3x8x100mm          |     |

# 12

**LIMAS, ESCOFINAS, BOTADORES Y GRANETES / FILES, RASPS & PUNCHES / LIMES, RAPES, POINTEAUX ET CHASSES GOUPILLES / FEILEN, RASPELN, DURCHSCHLÄGER UND KÖRNER / LIMA, RASPE E PUNZONI / LIMAS, GROSAS E PUNÇÕES / НАПИЛЬНИКИ, РАШПИЛИ, МЕТЧИКИ**

## SETS

**BOTADORES CILÍNDRICOS / PIN PUNCHES / CHASSE GOUPILLES / RUNDDURCHSCHLÄGER / PUNZONE CILINDRICO / PUNÇÕES CILÍNDRICOS / ПРОБОЙНИКИ**



| COD   |       | Composición / Composition | gr.        |     |     |
|-------|-------|---------------------------|------------|-----|-----|
| A     | B     |                           | A          | B   |     |
| 69957 | 69958 | 63394                     | 2x8x100mm  | 500 | 700 |
|       |       | 63395                     | 3x8x150mm  |     |     |
|       |       | 63396                     | 4x8x150mm  |     |     |
|       |       | 63397                     | 5x10x150mm |     |     |
|       |       | 63398                     | 6x10x150mm |     |     |
|       |       | 63399                     | 8x12x150mm |     |     |

**BOTADORES Y GRANETES / PUNCHES / POINTEAUX / DURCHSCHLÄGE / PUNZONI / SACA-TROÇOS E PUNÇÕES / ПРОБОЙНИКИ**



| COD   |       | Composición / Composition | gr.                                      |     |     |
|-------|-------|---------------------------|--|-----|-----|
| A     | B     |                           | A  | B   |     |
| 69955 | 69956 | 63415                     | Botador cónico / Taper punch: 2x10x125mm | 700 | 750 |
|       |       | 63416                     | Botador cónico / Taper punch: 3x10x125mm |     |     |
|       |       | 63417                     | Botador cónico / Taper punch: 4x10x125mm |     |     |
|       |       | 63418                     | Botador cónico / Taper punch: 5x10x125mm |     |     |
|       |       | 63419                     | Botador cónico / Taper punch: 5x10x125mm |     |     |
|       |       | 63437                     | Granete / Center punch: 4x8x115mm        |     |     |