

IX. OUTIL DE DECOUPE SPECIAL / SPECIAL CUTTING TOOLS

A. RONDELLES / WASHERS

| Référence | Diamètre Extérieur | X | Diamètre Intérieur | Référence | Diamètre Extérieur | X | Diamètre Intérieur |
|-----------|--------------------|---|--------------------|-----------|--------------------|---|--------------------|
| 10000 | 1.05 | X | 0.50 | 10240 | 2.70 | X | 1.27 |
| 10010 | 1.10 | X | 0.50 | 10250 | 2.75 | X | 2.20 |
| 10020 | 1.20 | X | 0.50 | 10255 | 2.80 | X | 1.78 |
| 10030 | 1.20 | X | 0.60 | 10260 | 2.85 | X | 1.95 |
| 10040 | 1.20 | X | 0.80 | 10270 | 2.90 | X | 2.40 |
| 10050 | 1.27 | X | 0.50 | 10280 | 2.95 | X | 2.52 |
| 10055 | 1.30 | X | 0.55 | 10290 | 3.00 | X | 1.60 |
| 10060 | 1.30 | X | 0.90 | 10300 | 3.00 | X | 2.10 |
| 10070 | 1.35 | X | 0.70 | 10310 | 3.00 | X | 2.25 |
| 10080 | 1.50 | X | 0.60 | 10320 | 3.10 | X | 1.20 |
| 10090 | 1.50 | X | 0.80 | 10330 | 3.10 | X | 2.60 |
| 10100 | 1.55 | X | 0.85 | 10340 | 3.16 | X | 1.50 |
| 10110 | 1.60 | X | 0.40 | 10345 | 3.18 | X | 1.15 |
| 10120 | 1.60 | X | 1.05 | 10350 | 3.18 | X | 2.54 |
| 10125 | 1.90 | X | 1.00 | 10360 | 3.20 | X | 1.80 |
| 10130 | 1.90 | X | 1.30 | 10370 | 3.20 | X | 2.40 |
| 10140 | 1.93 | X | 1.53 | 10380 | 3.25 | X | 2.77 |
| 10150 | 2.00 | X | 0.80 | 10390 | 3.28 | X | 2.80 |
| 10155 | 2.00 | X | 1.30 | 10400 | 3.40 | X | 2.54 |
| 10160 | 2.03 | X | 1.14 *** | 10410 | 3.40 | X | 2.60 *** |
| 10170 | 2.30 | X | 1.00 | 10420 | 3.50 | X | 1.80 |
| 10175 | 2.30 | X | 1.05 | 10430 | 3.50 | X | 2.90 |
| 10180 | 2.30 | X | 1.60 | 10440 | 3.50 | X | 3.00 |
| 10185 | 2.30 | X | 1.65 | 10450 | 3.55 | X | 2.05 |
| 10190 | 2.30 | X | 1.80 | 10460 | 3.70 | X | 1.60 |
| 10200 | 2.40 | X | 1.40 | 10465 | 3.70 | X | 3.05 |
| 10205 | 2.45 | X | 1.05 | 10470 | 3.75 | X | 2.95 |
| 10210 | 2.45 | X | 1.75 *** | 10480 | 3.80 | X | 1.20 |
| 10220 | 2.50 | X | 1.60 | 10490 | 3.80 | X | 1.40 |
| 10230 | 2.54 | X | 2.03 | 10500 | 3.80 | X | 1.60 |

* Dernière mise à jour le 24/06/08

** Interchangeable **MODELE DE PIECE**

Unité / Unity : mm

SKETCH OF THE PART

L'épaisseur maximum des rondelles ne doit pas être supérieure à celle de la toile. Calcul de la toile :

à Extérieur - à Intérieur Exemple : $1,20 - 0,50 = 0,70 / 2 = 0,35$

The washer's thickness cannot be superior to those of the plate. See above how to calculate the plate.

| Référence | Diamètre Extérieur | X | Diamètre Intérieur | Référence | Diamètre Extérieur | X | Diamètre Intérieur |
|-----------|--------------------|---|--------------------|-----------|--------------------|---|--------------------|
| 10510 | 3.90 | X | 3.30 | 10740 | 6.00 | X | 5.00 |
| 10520 | 3.95 | X | 2.90 | 10750 | 6.10 | X | 4.70 |
| 10530 | 4.00 | X | 2.00 ** | 10760 | 6.50 | X | 5.45 |
| 10540 | 4.00 | X | 2.70 | 10765 | 6.60 | X | 5.00 |
| 10545 | 4.00 | X | 3.20 | 10770 | 6.60 | X | 5.10 |
| 10550 | 4.25 | X | 3.35 | 10780 | 7.00 | X | 5.02 |
| 10560 | 4.25 | X | 3.75 | 10790 | 7.00 | X | 5.80 |
| 10570 | 4.30 | X | 1.00 ** | 10800 | 7.10 | X | 5.80 ** |
| 10580 | 4.40 | X | 3.30 | 10810 | 7.30 | X | 4.00 |
| 10590 | 4.45 | X | 2.05 ** | 10820 | 7.41 | X | 5.85 |
| 10600 | 4.50 | X | 2.60 | 10830 | 7.50 | X | 3.00 |
| 10610 | 4.50 | X | 3.00 | 10840 | 7.50 | X | 3.50 |
| 10620 | 4.50 | X | 3.25 ** | 10841 | 7.50 | X | 4.50 |
| 10625 | 4.50 | X | 3.50 | 10845 | 7.50 | X | 6,70 |
| 10630 | 4.62 | X | 3.21 | 10850 | 8.00 | X | 6.05 ** |
| 10640 | 4.85 | X | 3.50 | 10860 | 8.00 | X | 6.20 |
| 10650 | 5.00 | X | 3.00 | 10870 | 8.90 | X | 3.00 |
| 10660 | 5.00 | X | 4.00 | 10880 | 9.00 | X | 6.00 ** |
| 10670 | 5.20 | X | 4.20 | 10890 | 9.10 | X | 6.50 |
| 10680 | 5.28 | X | 3.45 | 10900 | 10.00 | X | 6.50 |
| 10690 | 5.32 | X | 3.00 | 10910 | 10.00 | X | 7.00 |
| 10700 | 5.35 | X | 2.85 | 10920 | 10.40 | X | 5.10 |
| 10710 | 5.50 | X | 3.80 ** | 10930 | 11.00 | X | 8.00 |
| 10715 | 5.55 | X | 3.85 | 10940 | 12.00 | X | 2.50 |
| 10720 | 5.83 | X | 3.53 | 10950 | 12.00 | X | 4.50 |
| 10725 | 5.96 | X | 3.56 | 10960 | 12.00 | X | 9.00 |
| 10730 | 6.00 | X | 4.00 | 10970 | 12.50 | X | 11.40 |

* Dernière mise à jour le 24/06/08

** Interchangeable **MODELE DE PIECE**



Unité / Unity : mm

SKETCH OF THE PART

L'épaisseur maximum des rondelles ne doit pas être supérieure à celle de la toile. Calcul de la toile :

à Extérieur - à Intérieur Exemple : $1,20 - 0,50 = 0,70 / 2 = 0,35$

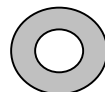
The washer's thickness cannot be superior to those of the plate. See above how to calculate the plate.

| Référence | Diamètre Extérieur | X | Diamètre Intérieur | Référence | Diamètre Extérieur | X | Diamètre Intérieur |
|-----------|--------------------|---|--------------------|-----------|--------------------|---|--------------------|
| 10980 | 12.71 | X | 10.10 | 11180 | 31.50 | X | 28.50 |
| 10985 | 12.80 | X | 10.50 | 11190 | 32.00 | X | 27.00 |
| 10990 | 14.00 | X | 4.00 | 11200 | 32.00 | X | 28.00 |
| 11000 | 14.00 | X | 9.45 | 11210 | 32.70 | X | 29.70 |
| 11010 | 15.35 | X | 13.30 | 11220 | 33.30 | X | 29.20 |
| 11020 | 15.40 | X | 10.40 | 11230 | 35.30 | X | 34.10 |
| 11021 | 16 | | 10 | 11240 | 39.00 | X | 36.10 |
| 11025 | 16.35 | X | 14.30 | 11250 | 41.00 | X | 36.50 |
| 11030 | 16.50 | X | 13.50 | 11260 | 41.50 | X | 36.10 |
| 11040 | 17.00 | X | 13.50 | 11270 | 45.30 | X | 41.00 |
| 11045 | 18.35 | X | 16.30 | 11280 | 47.00 | X | 41.00 |
| 11050 | 20.00 | X | 12.20 | 11290 | 48.50 | X | 47.10 |
| 11060 | 20.00 | X | 16.40 | 11295 | 50.50 | X | 44.00 |
| 11070 | 20.30 | X | 19.10 | 11300 | 51.00 | X | 46.00 |
| 11080 | 22.10 | X | 10.18 | 11310 | 58.50 | X | 43.50 |
| 11090 | 24.00 | X | 21.00 | 11320 | 60.17 | X | 55.44 |
| 11100 | 24.00 | X | 22.20 | 11330 | 62.00 | X | 55.40 |
| 11110 | 26.00 | X | 20.00 | 11340 | 63.00 | X | 55.00 |
| 11115 | 26.00 | X | 23.00 | 11350 | 65.00 | X | 57.50 |
| 11120 | 26.20 | X | 25.00 | 11360 | 65.00 | X | 59.00 |
| 11130 | 26.60 | X | 23.80 | 11370 | 66.60 | X | 59.50 |
| 11140 | 27.30 | X | 25.60 | 11380 | 66.50 | X | 61.50 * |
| 11150 | 27.55 | X | 25.60 | 11385 | 91.00 | X | 85.00 |
| 11155 | 30 | X | 15.30 | 11390 | 106.00 | X | 98.00 |
| 11160 | 30.70 | X | 29.50 | 11400 | 128.00 | X | 121.00 |
| 11170 | 31.50 | X | 27.40 | | | | |

* Dernière mise à jour le 24/06/08

Unité / Unity : mm

MODELE DE PIECE



SKETCH OF THE PART

L'épaisseur maximum des rondelles ne doit pas être supérieure à celle de la toile. Calcul de la toile :
à Extérieur - à Intérieur Exemple : $1,20 - 0,50 = 0,70 / 2 = 0,35$
The washer's thickness cannot be superior to those of the plate. See above how to calculate the plate.

B. CADRES / FRAMES

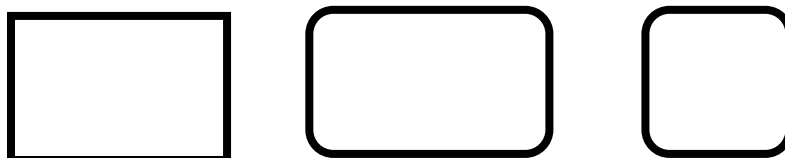
OUTILS DISPONIBLES POUR LES RECTANGLES TOOLS AVAILABLE FOR RECTANGLES

Unité / Unity : mm

| Référence | EXTERIEUR / OUSIDE | | | INTERIEUR / INSIDE | | | Rangées |
|-----------|--------------------|---|---------|--------------------|---|---------|---------|
| | Longueur | | Largeur | Longueur | | Largeur | |
| 20.000 | 2,90 | x | 2,40 | 1,65 | x | 1,55 | 8 |
| 20.005 | 6 | X | 5 | 3 | X | 2 | 8 |
| 10.010 | 6,22 | X | 4,19 | 5,08 | X | 3,17 | 8 |
| 20.015 | 6,80 | X | 6,80 | 6 | X | 6 | 8 |
| 20.020 | 8 | X | 3 | 5,20 | X | 1,80 | 8 |
| 20.030 | 8,89 | X | 7,35 | 7,37 | X | 4,80 | 8 |
| 20.040 | 10,52 | X | 8,19 | 9,12 | X | 6,79 | 8 |
| 20.050 | 10,60 | X | 10,60 | 8,60 | X | 8,60 | 8 |
| 20.060 | 11,17 | X | 10,90 | 9,77 | X | 9,50 | 8 |
| 20.070 | 11,70 | x | 10,90 | 9,50 | X | 7,50 | 8 |
| 20.080 | 12,50 | X | 12,50 | 10 | X | 10 | 9 |
| 20.090 | 13 | X | 9,80 | 11 | X | 7,84 | 9 |
| 20.100 | 13,65 | X | 13,65 | 11,25 | X | 11,25 | 9 |
| 20.110 | 15,90 | X | 15,90 | 14,40 | X | 14,40 | 9 |
| 20.120 | 17,40 | X | 13,50 | 14,60 | X | 10,70 | 9 |
| 20.130 | 18,92 | X | 18,92 | 17,02 | X | 17,02 | 9 |
| 20.140 | 20,70 | X | 12,52 | 18,80 | X | 10,65 | 9 |
| 20.150 | 25,40 | X | 25,40 | 20,84 | X | 20,84 | 10 |
| 20.160 | 29,60 | X | 23,10 | 25,55 | X | 19,05 | 10 |
| 20.170 | 29,85 | X | 29,85 | 27,95 | X | 27,95 | 10 |
| 20.180 | 29,86 | X | 29,86 | 27,92 | X | 27,92 | 10 |
| 20.190 | 32,38 | X | 28,48 | 30,95 | X | 27,02 | 10 |
| 20.200 | 36,80 | X | 20,95 | 33,50 | X | 17,50 | 11 |
| 20.210 | 43,10 | X | 34,90 | 40,50 | X | 32,33 | 11 |
| 20.220 | 43,43 | X | 30,73 | 41,53 | X | 28,83 | 11 |
| 20.230 | 55,75 | X | 29,34 | 53,34 | X | 26,92 | 11 |

Dernière mise à jour le 24/06/08

MODELE DE PIECES SKETCHES OF THE PARTS AVAILABLE

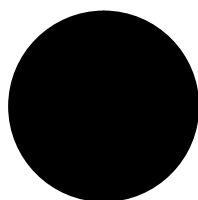


C. DISQUES / DISCS**OUTILS DISPONIBLES POUR LES DISQUES
TOOLS AVAILABLE FOR DISCS**

Unité / Unity : mm

| Référence | Diamètre | Référence | Diamètre | Référence | Diamètre |
|-----------|----------|-----------|----------|-----------|----------|
| 30000 | 0,30 | 30110 | 1.80 | 30230 | 5.00 |
| 30005 | 0.40 | 30120 | 1.90 | 30240 | 5.60 |
| 30010 | 0.50 | 30130 | 2.00 | 30250 | 8.05 |
| 30015 | 0.60 | 30140 | 2.10 | 30260 | 10.00 |
| 30020 | 0.70 | 30150 | 2.75 | 30265 | 10.50 |
| 30030 | 0.76 | 30160 | 2.80 | 30270 | 18.00 |
| 30040 | 0.80 | 30170 | 3.00 | 30280 | 23.00 |
| 30050 | 0.90 | 30180 | 3.20 | 30290 | 24.65 |
| 30060 | 1.00 | 30190 | 3.60 | 30300 | 70.00 |
| 30070 | 1.20 | 30200 | 4.20 | 30310 | 75.00 |
| 30080 | 1.30 | 30210 | 4.50 | 30320 | 150.00* |
| 30090 | 1.50 | 30220 | 4.80 | | |
| 30100 | 1.70 | | | | |

* Outil manuel pour découpe IN
Dernière mise à jour le 23/07/08

**MODELE DE PIECES
SKETCHES OF THE PART AVAILABLE**

D. RECTANGLES / RECTANGLES

OUTILS DISPONIBLES POUR LES RECTANGLES TOOLS AVAILABLE FOR RECTANGLES

Unité / Unity : mm

| REFERENCE | LONGUEUR | | LARGEUR |
|-----------|----------|---|---------|
| 40000 | 1.00 | X | 0.50 |
| 40010 | 1.50 | X | 1.00 |
| 40020 | 1.80 | X | 1.40 |
| 40030 | 2.00 | X | 1.00 |
| 40035 | **3.07 | X | 1.17 |
| 40040 | 3.50 | X | 1.50 |
| 40045 | **3.55 | X | 2.80 |
| 40050 | 5.50 | X | 0.70 |
| 40060 | 5.50 | X | 1.50 |
| 40070 | *6.00 | X | 5.55 |
| 40075 | 6.50 | X | 2.75 |
| 40080 | 8.10 | X | 5.80 |
| 40085 | 9.52 | X | 6.35 |
| 40090 | **10.00 | X | 8.00 |
| 40100 | 12.70 | X | 10.16 |
| 40110 | 13.90 | X | 7.40 |
| 40115 | 16.80 | X | 8.65 |
| 40120 | 18.15 | X | 14.10 |
| 40130 | 25.30 | X | 12.60 |
| 40135 | 41.00 | X | 31.00 |
| 40140 | 52.00 | X | 1.20 |
| 40150 | 120.00 | X | 71.00 |

Dernière mise à jour le 24/06/08

** Interchangeable

*: Un outil à 30 poinçons.

MODELE DE PIECES SKETCHES OF THE PARTS AVAILABLE



- Toutes les dimensions (Long et larg) comprises entre 0,50 à 100 mm sont réalisables.
We can produce any sizes between 0,50 and 100 mm.
- Pour les épaisseurs, nous consulter.
Contact us to discuss the thickness of the part.

E. CARRES / SQUARES

OUTILS DISPONIBLES POUR LES CARRES TOOLS AVAILABLE FOR SQUARES

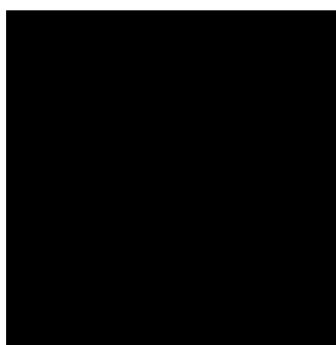
Unité / Unity : mm

| NOMBRE | REFERENCES | DIMENSIONS |
|---------------|-------------------|---------------------------|
| 1 | 41010 | 1.80 |
| 1 | 41020 | 4.31 |
| 1 | 41030 | 5.40 |
| 1 | 41040 | 6.55 |
| 1 | 41050 | 8.00 |
| 1 | 41060 | 9.00 |
| 1 | 41070 | 12.50 |
| 3 | 41080 | 16 x 16 (Ep : +/- 0,05) * |

Dernière mise à jour le 24/06/08





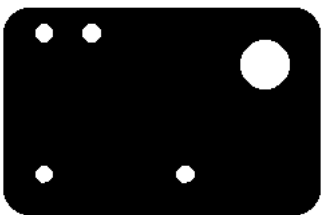


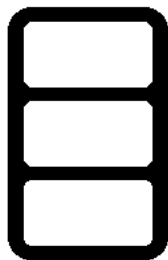
*: Outil spécial pour l'indium

MODELE DE PIECES SKETCH OF THE PART AVAILABLE


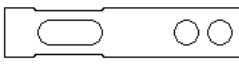



- Toutes les dimensions comprises entre 1 à 100 mm sont réalisables.
We can produce any size between 1 and 100 mm.
- Pour les épaisseurs, nous consulter.
Contact us to discuss the thickness of the part.

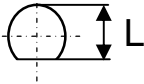
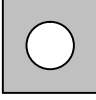
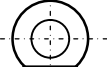

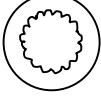
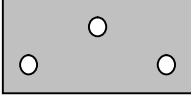

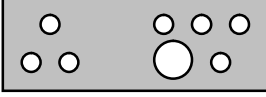
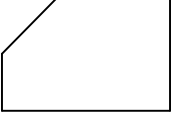

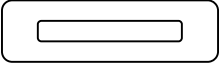

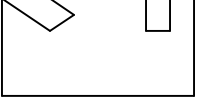

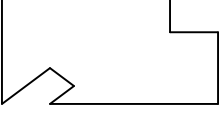


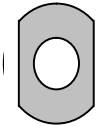

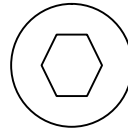
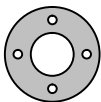
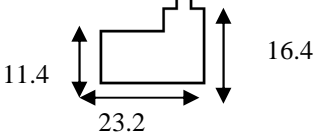
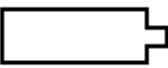
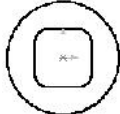
F. Exemples de formes réalisables / Other examples of shapes we can produce

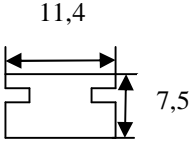
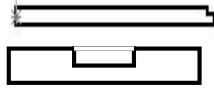
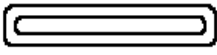

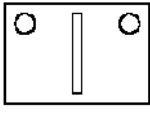

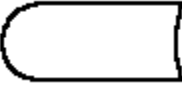
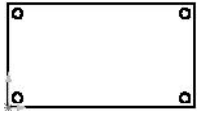
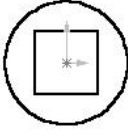
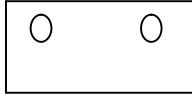
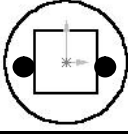
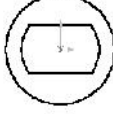
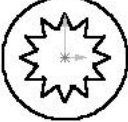
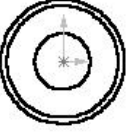
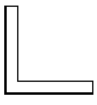
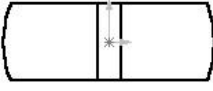
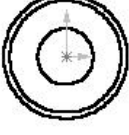

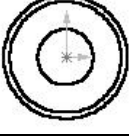

| <u>DECOUPE LASER</u> | | | |
|-----------------------------|---|--------------|---|
| 50100 |  | 50500 |  |
| 50200 |  | 50600 |  |
| 50300 |  | 50700 |  |
| 50400 |  | 50800 |  |

Possibilité de faire d'autres préformes suivant plan.

| OUTILS FUSIBLES | | |
|------------------------|--|-------------|
| 60020 |  | 20 A |
| 60025 |  | 25 A |
| 60032 |  | 32 A |

Dernière mise à jour le 11/07/08

| | | | | | |
|-------------------------|---|-------------------------------------|----------------------------------|---|--|
| 60030 |  | Ø 8 L:7 | 61250 |  | 7,6 x 7,6 Ø 2,5 |
| 60060 | | Ø 12 x 9.5 | | | |
| 60150 |  | Ø 17 x 12,8 | 61320 61340 61360 61380 |  | 12.7 x 6.35 12.7 x 8.4 16.93 x 8.46 25.4 x 6.35 |
| 60250 |  | Øext 10,95 | 61430 61460 |  | 12,7 x 6,35 25.4 x 6.35 |
| 60350 |  | Ø 5 x 3,25 | 61550 |  | 21,80 x 9,90 |
| 60430 60450 60470 |  | 4,2 x 4,8 4,8 x 5,7 7,8 x 9,6 | 61630 |  | 34 x 20,15 |
| 60550 |  | 19,8 x 11,4 | 61850 |  | 6 x 3,5 |
| 60650 |  | 14,35 x 15,35 | 61950 |  | L:15,5 I : 9.20-I:6.50 |
| 60750 |  | 17,90 x 9,65 | 62030 62070 |  | Ø 7 x 4 Ø 11 x 7.5 |
| 60850 |  | 19,6 x 3,35 | 62160 |  | Ø 2.54 Ø 1.75 |
| 60950 |  | 4,8 x 1, 80 R = 1,3 | 62240 62250 62260 |  | Ø 4,5 x 2,5 (6 pans) Ø 3,50 x 1,9 (6 pans) Ø 3,50 x 1,9 (8 pans) |
| 61150 |  | Ø 10,50 | 62350 |  | |
| 62450 |  | 21.10 x 7,6 | 63350 |  | Ext :3,74 Int : 1,7 x 1,7 Ep :0,6 ou 0,9 |

| | | | | | |
|-------------------------|---|---|----------------|---|--|
| 62360 |  | Découpe Indium | 63550 63560 |  | Ø 0,5 l : 3,25 Ø 0,5 l : 8,5 |
| 62530 52540 62560 |  | 40,5 x 6,9 37,10 x 9,95 27,4 x 6,90 | 63750 |  | Øint : 0,52 L : 4,50 |
| 62750 |  | 14,6 x 10 | 63850 |  | Ø 12 x 4,45 |
| 62850 |  | Ø 1,1 L : 2,65 | 63950 |  | 20 x 11,1 (Indium) |
| 62950 ↓ |  | Ø 5.5 CARRE : 2,85 | 63960 |  | 11,1 x 4 (Indium) |
| 62950 Bis |  | Outillages encoches | 63050 |  | Ø 7 x Ø 5 |
| 63970 | Outil Diamant pour usinage de bagues collecteurs | | 63150 |  | Ø 5,5 x 3,6 Ep : 0,80 |
| 64000 |  | Composé d'1 Formage : Réf AM 9191-2 | 63250 |  | Coupe + Pliage l : 3,5 L : 3,5 ou 6,5 |
| 63450 |  | Ø 9 l : 3,25 | 64010 |  | Composé de 2 outils : - rondelle : Réf 1114 + - formage : Réf AM9346-00c |
| 63965 ↓ |  | 23.45 x 3,1 (9 trous Ø 2.25) | 64020 |  | Composé de 2 outils : - rondelle : Réf 64030 + - formage : Réf AM9342-00C |
| 63965 Bis |  | Même outil que ci-dessus En découpe manuelle | | | |

G. COUTEAUX / INDUSTRIAL KNIFE**OUTILS DISPONIBLES POUR LA FABRICATION DES COUTEAUX
TOOLS AVAILABLE FOR INDUSTRIAL KNIFE**

Unité / Unity : mm

| Référence | largeur | Référence | Largeur (Suite) | Référence | Larger (Suite) |
|---------------------|---------|---------------------|--------------------|-----------|-------------------|
| 70000* | 0,50 | 70230* | 4,50 | 70460* | 16,00 |
| 70010* | 0,60 | 70240* | 4,80 | 70470* | 17,00 |
| 70020* | 0,76 | 70250* | 5,00 | 70480* | 18,00 |
| 70030* | 0,80 | 70260* | 5,40 | 70490* | 19,00 |
| 70040* | 0,90 | 70270* | 5,60 | 70500* | 20,00 |
| 70050* | 1,00 | 70280* [*] | 5,80 | 70510* | 20,50 |
| 70060* | 1,10 | 70290* | 5,90 | 70520* | 20,95 |
| 70070* | 1,20 | 70300* | 6,00 | 70530* | 22,00 |
| 70080* | 1,30 | 70310* | 6,70 | 70540* | 22,50 |
| 70090* | 1,40 | 70320* [*] | 7,00 | 70550* | 25,00 |
| 70100* | 1,50 | 70330* | 7,45 | 70560* | 25,40 |
| 70110* | 1,60 | 70340* | 7,50 | 70570* | 30,00 |
| 70120* | 1,70 | 70350* | 8,00 | 70580* | 32,00 |
| 70130* | 1,80 | 70360* | 9,00 | 70590* | 35,00 |
| 70140* | 1,90 | 70370* | 9,50 | 70600* | 40,00 |
| 70150* [*] | 2,00 | 70380* [*] | 10,00 | 70610* | 50,00 |
| 70160* | 2,40 | 70390* | 11,00 | 70620* | 60,00 |
| 70170* | 2,50 | 70400* | 12,00 | 70630* | 75,00 |
| 70180* [*] | 3,00 | 70410* | 12,70 | 70640* | 80,00 |
| 70190* | 3,17 | 70420* | 13,00 | 70650* | 90,00 |
| 70200* | 3,50 | 70430* | 13,65 | 70660* | 100,00 |
| 70210* | 3,96 | 70440* | 14,00 | | |
| 70220* [*] | 4,00 | 70450* | 15,00 | | |

* Couteaux simples

* Couteaux multiples

Dernière mise à jour le 24/06/08

- Cette liste peut être complétée par un outillage fabriqué spécialement pour vous.
If required, we can produce additional tools by making special tools for the job
- Pour les dimensions < 0,50 nous consulter (fil écrasé).
Contact us for dimension < 0,50
- Les épaisseurs varient selon les largeurs demandées. Nous consulter sur la faisabilité
Thickness may vary depending on the width required. Contact us to discuss.

H. FILIERES POUR FILAGE / THREADER FOR EXTRUSION



Date de mise à jour : 07/03/2011

| Réf | Diamètres |
|-------|-----------|
| 80025 | 0,025 |
| 8030 | 0,30 |
| 8035 | 0,35 |
| 8040 | 0,40 |
| 8050 | 0,50 |
| 8052 | 0,52 |
| 8055 | 0,55 |
| 8056 | 0,56 |
| 8060 | 0,6 |
| 8070 | 0,70 |
| 8075 | 0,75 |
| 8080 | 0,80 |
| 8090 | 0,90 |
| 8095 | 0,95 |

| Réf | Diamètres |
|------|-----------|
| 8300 | 3,00 |
| 8305 | 3,05 |
| 8310 | 3,10 |

| Réf | Diamètres |
|------|-----------|
| 8505 | 5,05 |

| Réf | Diamètres |
|-------|-----------|
| 81100 | 10 |
| 81400 | 14 |
| 81800 | 18 |

| | |
|------|------|
| 8100 | 1 |
| 8120 | 1,20 |
| 8130 | 1,30 |
| 8140 | 1,40 |
| 8145 | 1,45 |
| 8153 | 1,53 |
| 8160 | 1,60 |
| 8180 | 1,80 |
| 8190 | 1,90 |

| | |
|------|------|
| 8200 | 2,00 |
| 8250 | 2,50 |

I. FILIERES POUR TREFILAGE / THREADER FOR WIRE-DRAWING

| Réf | Diamètres | Nb |
|--------------|-----------|-----------|
| 9100 | 0,100 | 3 |
| 9105 | 0,105 | 2 |
| 9110 | 0,110 | 3 |
| 9115 | 0,115 | 2 |
| 9120 | 0,120 | 3 |
| 9125 | 0,125 | 2 |
| 9130 | 0,130 | 3 |
| 9132 | 0,132 | 1 |
| 9135 | 0,135 | 2 |
| 9138 | 0,138 | 1 |
| 9140 | 0,140 | 2 |
| 9142 | 0,142 | 1 |
| 9145 | 0,145 | 3 |
| 9148 | 0,148 | 1 |
| 9152 | 0,152 | 2 |
| 9155 | 0,155 | 2 |
| 9159 | 0,159 | 1 |
| 9160 | 0,160 | 3 |
| 9164 | 0,164 | 1 |
| 9165 | 0,165 | 2 |
| 9170 | 0,170 | 3 |
| 9175 | 0,175 | 2 |
| 9180 | 0,180 | 2 |
| 9182 | 0,182 | 1 |
| 9185 | 0,185 | 2 |
| 9190 | 0,190 | 1 |
| 9195 | 0,195 | 2 |
| TOTAL | | 53 |

| Réf | Diamètres | Nb |
|--------------|-----------|-----------|
| 9200 | 0,200 | 6 |
| 9204 | 0,204 | 1 |
| 9210 | 0,210 | 2 |
| 9214 | 0,214 | 1 |
| 9219 | 0,219 | 1 |
| 9220 | 0,220 | 3 |
| 9225 | 0,225 | 1 |
| 9230 | 0,230 | 4 |
| 9235 | 0,235 | 1 |
| 9240 | 0,240 | 2 |
| 9250 | 0,250 | 2 |
| 9254 | 0,254 | 1 |
| 9260 | 0,260 | 2 |
| 9267 | 0,267 | 1 |
| 9270 | 0,270 | 3 |
| 9272 | 0,272 | 1 |
| 9280 | 0,280 | 2 |
| 9282 | 0,282 | 1 |
| 9290 | 0,290 | 3 |
| 9292 | 0,292 | 1 |
| TOTAL | | 39 |

| Réf | Diamètres | Nb |
|--------------|-----------|-----------|
| 9300 | 0,300 | 6 |
| 9310 | 0,310 | 1 |
| 9320 | 0,320 | 3 |
| 9322 | 0,322 | 1 |
| 9326 | 0,326 | 1 |
| 9330 | 0,330 | 4 |
| 9340 | 0,340 | 5 |
| 9350 | 0,350 | 6 |
| 9360 | 0,360 | 5 |
| 9370 | 0,370 | 3 |
| 9375 | 0,375 | 1 |
| 9380 | 0,380 | 4 |
| 9390 | 0,390 | 4 |
| TOTAL | | 44 |

| Réf | Diamètres | Nb |
|--------------|-----------|-----------|
| 9400 | 0,400 | 7 |
| 9410 | 0,410 | 2 |
| 9420 | 0,420 | 3 |
| 9430 | 0,430 | 2 |
| 9436 | 0,436 | 1 |
| 9440 | 0,440 | 1 |
| 9450 | 0,450 | 5 |
| 9460 | 0,460 | 3 |
| 9470 | 0,470 | 2 |
| 9471 | 0,471 | 1 |
| 9480 | 0,480 | 1 |
| 9490 | 0,490 | 2 |
| 9497 | 0,497 | 1 |
| TOTAL | | 31 |

| Réf | Diamètres | Nb |
|--------------|-----------|-----------|
| 9500 | 0,500 | 5 |
| 9509 | 0,509 | 1 |
| 9520 | 0,520 | 1 |
| 9530 | 0,530 | 1 |
| 9540 | 0,540 | 2 |
| 9543 | 0,543 | 1 |
| 9550 | 0,550 | 4 |
| 9557 | 0,557 | 1 |
| 9560 | 0,560 | 2 |
| 9570 | 0,570 | 1 |
| 9580 | 0,580 | 2 |
| 9590 | 0,590 | 2 |
| TOTAL | | 23 |

| Réf | Diamètres | Nb |
|--------------|-----------|-----------|
| 9600 | 0,600 | 5 |
| 9620 | 0,620 | 1 |
| 9640 | 0,640 | 1 |
| 9650 | 0,650 | 2 |
| 9655 | 0,655 | 1 |
| 9696 | 0,696 | 1 |
| TOTAL | | 11 |

| Réf | Diamètres | Nb |
|------|--------------|-----------|
| 9700 | 0,700 | 6 |
| 9720 | 0,720 | 1 |
| 9740 | 0,740 | 1 |
| 9750 | 0,750 | 3 |
| 9756 | 0,756 | 1 |
| 9776 | 0,776 | 1 |
| | TOTAL | 13 |

| Réf | Diamètres | Nb |
|------|--------------|-----------|
| 9800 | 0,800 | 6 |
| 9823 | 0,823 | 1 |
| 9846 | 0,846 | 1 |
| 9850 | 0,850 | 4 |
| 9870 | 0,870 | 1 |
| | TOTAL | 14 |

| Réf | Diamètres | Nb |
|------|--------------|-----------|
| 9900 | 0,900 | 7 |
| 9914 | 0,914 | 1 |
| 9950 | 0,950 | 7 |
| 9968 | 0,968 | 1 |
| | TOTAL | 16 |

| Réf | Diamètres | Nb |
|--------|-----------|----|
| 90100 | 1,00 | 8 |
| 90102 | 1,02 | 1 |
| 90103 | 1,03 | 1 |
| 90104 | 1,04 | 1 |
| 90105 | 1,05 | 2 |
| 901053 | 1,053 | 1 |
| 90106 | 1,06 | 1 |
| 90108 | 1,08 | 1 |
| 90110 | 1,10 | 7 |
| 90114 | 1,14 | 3 |
| 90115 | 1,15 | 2 |
| 90116 | 1,16 | 1 |
| 90118 | 1,18 | 2 |
| 90120 | 1,20 | 6 |
| 90121 | 1,21 | 1 |
| 90122 | 1,22 | 2 |
| 90123 | 1,23 | 1 |
| 90124 | 1,24 | 4 |
| 90125 | 1,25 | 2 |
| 901275 | 1,275 | 1 |
| 90128 | 1,28 | 1 |
| 90129 | 1,29 | 1 |
| 90130 | 1,30 | 4 |
| 90132 | 1,32 | 2 |

| Réf | Diamètres | Nb |
|--------|-----------|----|
| 90134 | 1,34 | 1 |
| 90135 | 1,35 | 6 |
| 90136 | 1,36 | 1 |
| 90138 | 1,38 | 1 |
| 90139 | 1,39 | 1 |
| 90140 | 1,40 | 3 |
| 90142 | 1,42 | 2 |
| 90144 | 1,44 | 2 |
| 90145 | 1,45 | 4 |
| 901455 | 1,455 | 1 |
| 90146 | 1,46 | 2 |
| 90148 | 1,48 | 1 |
| 90150 | 1,50 | 5 |
| 90151 | 1,51 | 1 |
| 90152 | 1,52 | 1 |
| 90154 | 1,54 | 1 |
| 90155 | 1,55 | 4 |
| 90156 | 1,56 | 2 |
| 90159 | 1,59 | 2 |
| 90160 | 1,60 | 5 |
| 90163 | 1,63 | 1 |
| 90165 | 1,65 | 1 |
| 90168 | 1,68 | 1 |

| Réf | Diamètres | Nb |
|-------|--------------|------------|
| 90170 | 1,70 | 6 |
| 90173 | 1,73 | 2 |
| 90175 | 1,75 | 1 |
| 90176 | 1,76 | 1 |
| 90178 | 1,78 | 1 |
| 90180 | 1,80 | 3 |
| 90182 | 1,82 | 1 |
| 90184 | 1,84 | 3 |
| 90185 | 1,85 | 2 |
| 90187 | 1,87 | 1 |
| 90188 | 1,88 | 3 |
| 90190 | 1,90 | 2 |
| 90191 | 1,91 | 1 |
| 90192 | 1,92 | 1 |
| 90194 | 1,94 | 1 |
| 90195 | 1,95 | 1 |
| 90196 | 1,96 | 1 |
| | TOTAL | 136 |

| Réf | Diamètres | Nb |
|-------|--------------|-----------|
| 90200 | 2,00 | 7 |
| 90210 | 2,10 | 1 |
| 90215 | 2,15 | 2 |
| 90220 | 2,20 | 6 |
| 90225 | 2,25 | 1 |
| 90230 | 2,30 | 2 |
| 90235 | 2,35 | 2 |
| 90240 | 2,40 | 5 |
| 90250 | 2,50 | 1 |
| 90255 | 2,55 | 1 |
| 90260 | 2,60 | 2 |
| 90264 | 2,64 | 1 |
| 90265 | 2,65 | 1 |
| 90270 | 2,70 | 1 |
| 90275 | 2,75 | 1 |
| 90280 | 2,80 | 3 |
| 90290 | 2,90 | 1 |
| 90295 | 2,95 | 1 |
| | TOTAL | 39 |

| Réf | Diamètres | Nb |
|-------|--------------|-----------|
| 90300 | 3,00 | 3 |
| 90310 | 3,10 | 1 |
| 90320 | 3,20 | 1 |
| 90330 | 3,30 | 1 |
| 90340 | 3,40 | 2 |
| 90350 | 3,50 | 1 |
| 90360 | 3,60 | 2 |
| 90370 | 3,70 | 1 |
| 90380 | 3,80 | 2 |
| 90390 | 3,90 | 1 |
| | TOTAL | 15 |

| Réf | Diamètres | Nb |
|-------|--------------|-----------|
| 90400 | 4,00 | 2 |
| 90410 | 4,10 | 1 |
| 90420 | 4,20 | 2 |
| 90430 | 4,30 | 1 |
| 90440 | 4,40 | 1 |
| 90450 | 4,50 | 1 |
| 90460 | 4,60 | 1 |
| 90470 | 4,70 | 1 |
| 90480 | 4,80 | 1 |
| 90490 | 4,90 | 1 |
| | TOTAL | 12 |

| Réf | Diamètres | Nb |
|-------|--------------|-----------|
| 90500 | 5,00 | 1 |
| 90510 | 5,10 | 1 |
| 90520 | 5,20 | 1 |
| 90530 | 5,30 | 1 |
| 90540 | 5,40 | 1 |
| 90550 | 5,50 | 1 |
| 90560 | 5,60 | 1 |
| 90570 | 5,70 | 1 |
| 90580 | 5,80 | 1 |
| 90590 | 5,90 | 1 |
| | TOTAL | 10 |

| Réf | Diamètres | Nb |
|-------|--------------|----------|
| 90600 | 6,00 | 1 |
| 90610 | 6,10 | 1 |
| 90620 | 6,20 | 1 |
| 90630 | 6,30 | 1 |
| 90640 | 6,40 | 1 |
| 90650 | 6,50 | 1 |
| 90670 | 6,70 | 1 |
| 90680 | 6,80 | 1 |
| 90690 | 6,90 | 1 |
| | TOTAL | 9 |

J. FILIERES D'ETIRAGE / THREADER FOR STRETCHING

| Réf | Diamètres (mm) | Nombres | |
|-------|----------------|---------|---|
| 90700 | 7,00 | 1 | 5 |
| 90720 | 7,20 | 1 | |
| 90740 | 7,40 | 1 | |
| 90760 | 7,60 | 1 | |
| 90780 | 7,80 | 1 | |
| 90800 | 8,00 | 1 | 8 |
| 90820 | 8,20 | 1 | |
| 90830 | 8,30 | 1 | |
| 90840 | 8,40 | 1 | |
| 90850 | 8,50 | 1 | |
| 90860 | 8,60 | 1 | |
| 90880 | 8,80 | 1 | |
| 90890 | 8,90 | 1 | |
| 90900 | 9,00 | 1 | 6 |
| 90920 | 9,20 | 1 | |
| 90940 | 9,40 | 2 | |
| 90960 | 9,60 | 1 | |
| 90980 | 9,80 | 1 | |
| 91000 | 10,00 | 1 | 5 |
| 91020 | 10,20 | 1 | |
| 91040 | 10,40 | 1 | |
| 91060 | 10,60 | 1 | |
| 91080 | 10,80 | 1 | |
| 91100 | 11,00 | 1 | 5 |
| 91120 | 11,20 | 1 | |
| 91140 | 11,40 | 1 | |
| 91160 | 11,60 | 1 | |
| 91180 | 11,80 | 1 | |

| | | | |
|--------------|-------|-----------|---|
| 91200 | 12,00 | 1 | 5 |
| 91220 | 12,20 | 1 | |
| 91240 | 12,40 | 1 | |
| 91260 | 12,60 | 1 | |
| 91280 | 12,80 | 1 | |
| 91300 | 13,00 | 1 | 5 |
| 91320 | 13,20 | 1 | |
| 91340 | 13,40 | 1 | |
| 91360 | 13,60 | 1 | |
| 91380 | 13,80 | 1 | |
| 91400 | 14,00 | 1 | 5 |
| 91420 | 14,20 | 1 | |
| 91440 | 14,40 | 1 | |
| 91460 | 14,60 | 1 | |
| 91480 | 14,80 | 1 | |
| 91500 | 15,00 | 1 | 2 |
| 91550 | 15,50 | 1 | |
| 91600 | 16,00 | 1 | 1 |
| 91650 | 16,50 | 1 | |
| 91700 | 17,00 | 1 | |
| 91800 | 18,00 | 1 | |
| 91900 | 19,00 | 1 | |
| 91200 | 20,00 | 1 | |
| 92100 | 21,00 | 1 | |
| 92200 | 22,00 | 1 | |
| 92300 | 23,00 | 1 | |
| 92400 | 24,00 | 1 | |
| 92500 | 25,00 | 1 | |
| TOTAL | | 57 | |