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Composición Química

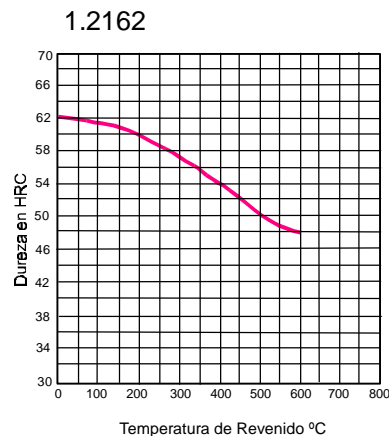
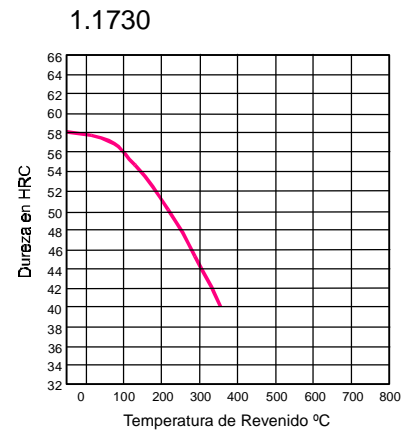
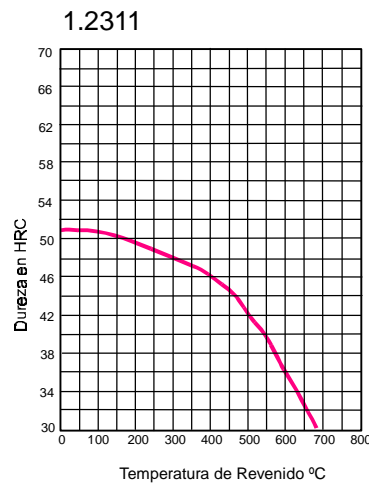
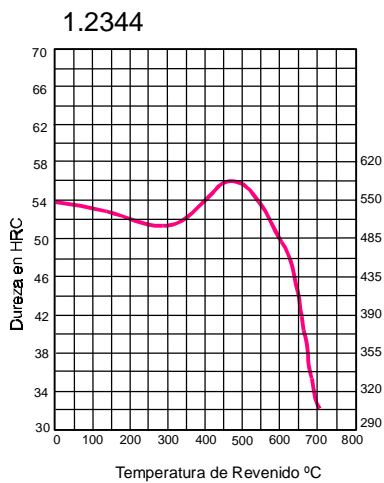
Aceros / Steels

| Material N° | C % | Mn % | Si % | Cr % | V % | Mo % | Ni % | P % |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------|
| 1.0570 | - 0,20 | - 1,60 | ≤ 0,55 | | | | | ≤ 0,035 |
| 1.1730 | 0,40 - 0,50 | 0,60 - 0,80 | 0,15 - 0,40 | | | | | ≤ 0,035 |
| 1.2162 | 0,18 - 0,24 | 1,10 - 1,40 | 0,15 - 0,35 | 1,00 - 1,30 | | | | ≤ 0,030 |
| 1.2311 | 0,35 - 0,45 | 1,30 - 1,60 | 0,20 - 0,40 | 1,80 - 2,10 | | 0,15 - 0,25 | | ≤ 0,035 |
| 1.2344 | 0,37 - 0,43 | 0,30 - 0,50 | 0,90 - 1,20 | 4,80 - 5,50 | 0,90 - 1,10 | 1,20 - 1,50 | | ≤ 0,030 |
| 1.2738 | 0,35 - 0,45 | 1,30 - 1,60 | 0,20 - 0,40 | 1,80 - 2,10 | | 0,15 - 0,25 | 0,90 - 1,20 | ≤ 0,035 |
| 1.3505 | 0,90 - 1,05 | 0,25 - 0,45 | 0,15 - 0,35 | 1,35 - 1,5 | | | ≤ 0,30 | ≤ 0,030 |
| 1.7264 | 0,18 - 0,23 | 0,90 - 1,20 | 0,15 - 0,35 | 1,10 - 1,40 | | 0,20 - 0,30 | | ≤ 0,030 |
| 1.7242 | 0,13 - 0,20 | 0,50 - 0,80 | 0,15 - 0,35 | 0,90 - 1,20 | | 0,20 - 0,30 | ≤ 0,40 | ≤ 0,035 |

Aluminio / Aluminium

| Material N° | Fe % | Mn % | Si % | Cr % | Zn % | Mg % | Cu % | Ti % |
|-------------|-----------|------------|------------|-------------|-----------|-----------|-----------|-------------|
| 3.4365 | 0,1 - 0,3 | 0,01 - 0,1 | 0,05 - 0,2 | 0,18 - 0,28 | 5,1 - 6,1 | 2,1 - 2,9 | 1,2 - 2,0 | 0,01 - 0,05 |

Gráficos de revenido



2020

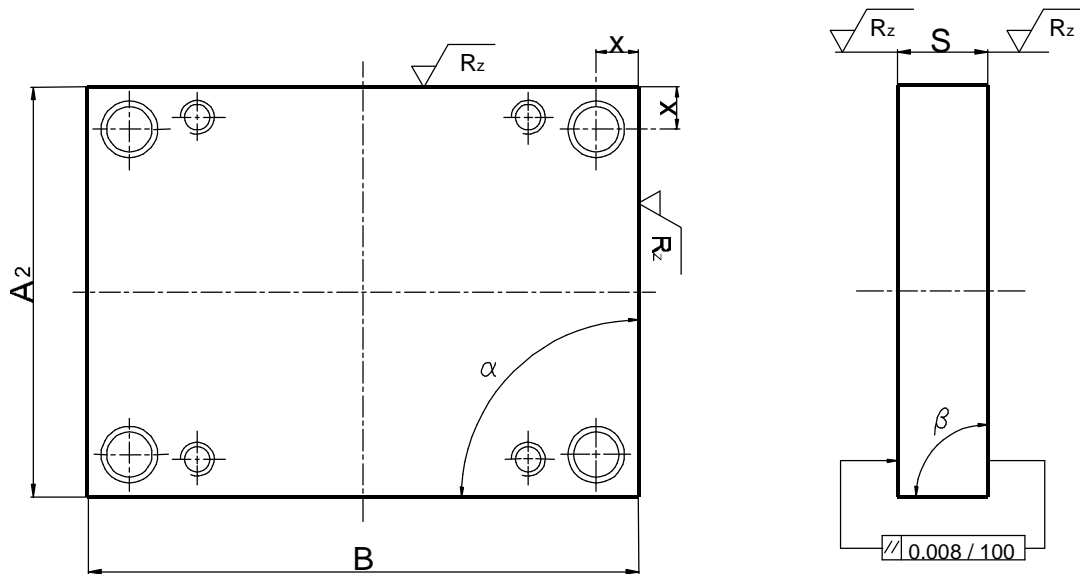
ESPECIFICACIONES DE MATERIAL / MATERIAL SPECIFICATIONS

| Características Characteristics | Aplicaciones Applications | Plásticos Plastics |
|--|--|---|
| 1.1730 Arranque fácil de viruta, alta tenacidad, temple superficial. | No templado : Para la construcción de moldes y herramientas, para piezas de grandes estructuras, placas soporte, guías, etc. Templado: Moldes de soplado. | Bastidores de moldes y herramientas sometidos a escasas cargas. Moldes de soplado. |
| 1.2162 Acero para moldes con una dureza superficial de 60 HRc y resistencia del núcleo de 1000 a 1200 N/mm ² después del temple por cementación. | Moldes para la inyección sometidos a elevadas presiones y simultáneamente a esfuerzos superficiales. | Plásticos termoestables con aditivos. |
| 1.2311 Buena mecanización, gran tenacidad, facilidad de pulido, nitrurable, buen comportamiento al ataque químico. | Matrices para moldes de compresión e inyección hasta una sección bonificada de 400mm. | Termoplásticos, grandes piezas moldeadas de ABS. Plásticos termoestables. |
| 1.2738 Características como 1.2311, aunque tiene mejores propiedades de bonificación, incluso en grandes superficies. | Matrices para moldes de compresión e inyección sin limitación de dimensiones. | Termoplásticos, grandes piezas moldeadas de ABS. Plásticos termoestables. |
| 1.2344 Acero nitrurable para trabajo en caliente, para máximas solicitaciones, desgaste y torsión a altas temperaturas. | Moldes para plásticos sometidos a altas solicitaciones, piezas auxiliares para moldes. | Plásticos termoestables y materiales compuestos, termoplásticos. |
| 3.4365 Muy buen mecanizado, buena estabilidad dimensional, anonzado duro, resistencia a la corrosión. | Moldes termoconformados muy grandes series, de inyección series de 50.000 a 100.000, soplado grandes series y caucho | Polipropileno, Polietilenos, ABS, SAN y Poliamidas |

Tabla de equivalencias y características mecánicas.

| Material Nº | DIN Simb. | ISO | UNE | AISI | Resistencia | |
|-------------|-------------------------|---------|------------------|------|-------------------|--------------------|
| | | | | | N/mm ² | Kg/mm ² |
| 1.0570 | S355J2G3 | FE510 | - | - | aprox. 440 | 45 |
| 1.1730 | C45W | - | F114 | - | aprox. 590 | 60 |
| 1.2162 | 21MnCr5 | - | - | - | 610 - 710 | 70 |
| 1.2311 | G40CrMnMo7 | - | F5303 | P20 | 900 - 1080 | 110 |
| 1.2738 | 40CrMnNiMo8 | - | - | - | aprox. 1100 | 112 |
| 1.2344 | X40CrMoV5-1 | 4957 | F5318 | H13 | aprox. 780 | 80 |
| 1.3505 | 100Cr6 | 683T.17 | - | - | aprox. 690 | 70 |
| 1.7264 | 20CrMo5 | - | F1559 | - | aprox. 735 | 75 |
| 1.7242 | 18CrMo4 | - | F1550 | - | aprox. 780 | 49 |
| 3.4365 | EN AW Al Zn 5,5 MgCu | - | 38371 (L3710) | - | 510 - 580 | 52 - 59 |

TOLERANCIAS PARA PLACAS DE ACERO TOLERANCES FOR STEEL PLATES



| α | β |
|-------------|-------------|
| Para 100 mm | Para 100 mm |
| $\pm 0,004$ | $\pm 0,008$ |

| R_z |
|--------------|
| - 10 μ m |

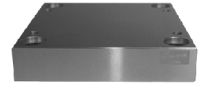
| A ₂ -B (mm.) | >100-200 | >200-350 | >350-475 | >475-700 | >700 |
|---------------------------|-------------|-------------|-------------|-------------|-------------|
| Tolerancia (mm.) | $\pm 0,010$ | $\pm 0,012$ | $\pm 0,015$ | $\pm 0,030$ | $\pm 0,040$ |

| A ₂ -B (mm.) | >100-200 | >200-350 | >350-475 | >475-700 | >700 |
|---------------------------|-------------|-------------|-------------|------------|------------|
| x (mm.) | $\pm 0,010$ | $\pm 0,012$ | $\pm 0,015$ | $\pm 0,02$ | $\pm 0,03$ |

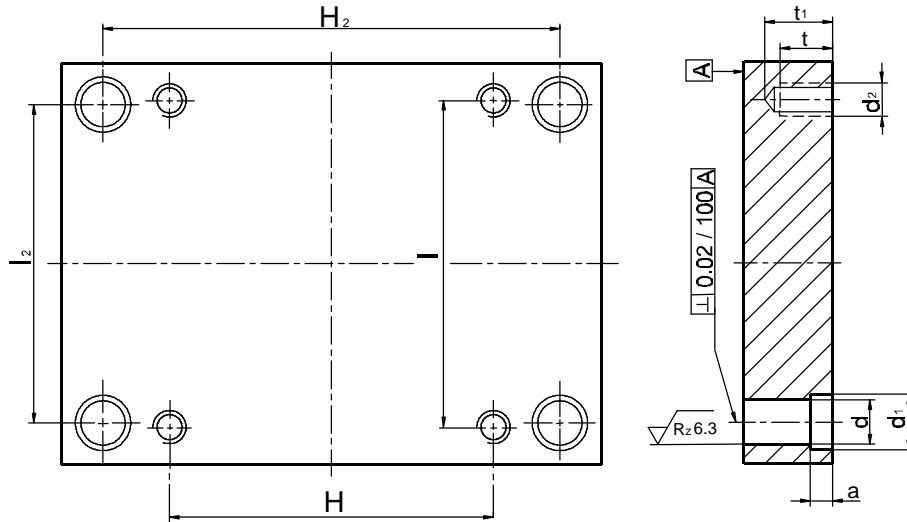
| S | >22-200 |
|------------|-----------------|
| Tolerancia | + 0.05 / + 0.15 |

2020

TOLERANCIAS PARA PLACAS DE ACERO TOLERANCES FOR STEEL PLATES



Tolerancias de distancias entre centros y roscas



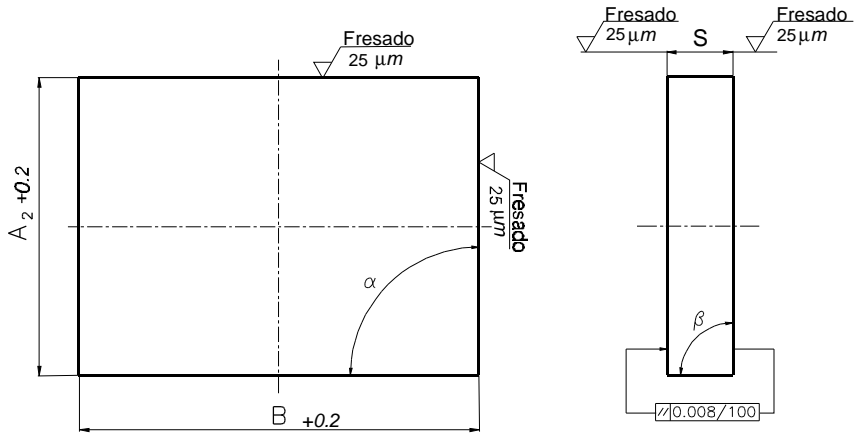
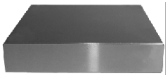
Cast

| | d | | | | d ₁ | a |
|----|-----------|-----------|-----------|-----------|----------------|----------|
| mm | > 10 - 18 | > 18 - 30 | > 30 - 50 | > 50 - 80 | >10 - 80 | > 3 - 30 |
| mm | +0.018 | +0.021 | +0.025 | +0.030 | +0.500 | +0.200 |

| | l ₂ / H ₂ | | | | |
|-----|---------------------------------|----------|----------|----------|------|
| mm | >100-200 | >200-350 | >350-500 | >500-700 | >700 |
| μ m | ±10 | ±12 | ±15 | ±18 | ±20 |

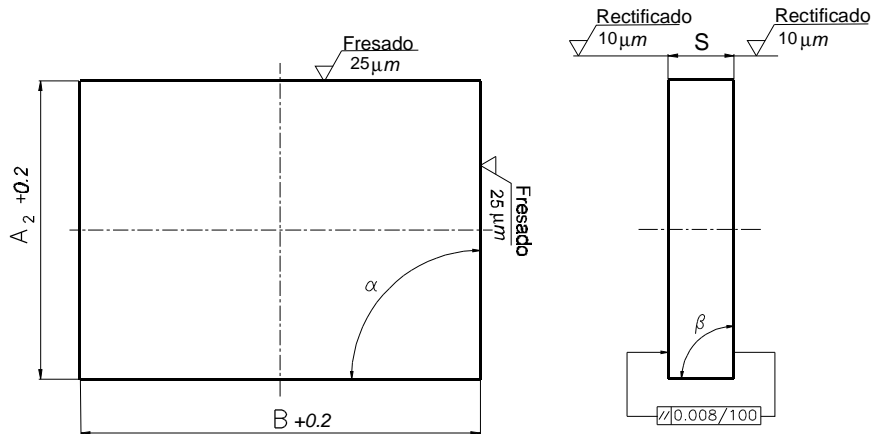
| d ₂ | M | M4 | M6 | M8 | M10 | M12 | M16 | M20 |
|----------------|----------|------|------|------|------|------|------|------|
| ∅ mm | | 4 | 6 | 8 | 10 | 12 | 16 | 20 |
| t ₁ | Tol. mm | ±0.2 | ±0.2 | ±0.3 | ±0.3 | ±0.4 | ±0.4 | ±0.4 |
| t (min). | mm | | | 14 | 15 | 18 | 26 | 32 |
| H / l | <140 | ±130 | | ±250 | | ±400 | | |
| | >140-315 | ±160 | | ±300 | | ±450 | | |
| | >315-500 | ±190 | | ±350 | | ±500 | | |
| | >500-710 | ±220 | | ±400 | | ±550 | | |
| | >710 | ±250 | | ±450 | | ±600 | | |

Material: DIN 1.1730,1.2311, Aluminio 3.4365 -PLACAS PREMECANIZADAS / BLANK PLATES- Tipo: PAS (placas acabadas de fresa)Material: DIN



Material: DIN 1.1730,1.2311

Tipo: PAS1 (placas acabadas de fresa y rectificadas de planos)



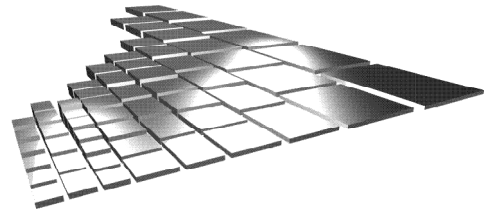
CON LAS MEDIDAS DEL MOLDE SP

| | | | | | |
|-------------------------|----------|----------|----------|----------|-------|
| A ₂ -B (mm.) | >100-200 | >200-350 | >350-475 | >475-700 | >700 |
| Tolerancia (mm.) | ±0,08 | ±0,10 | ±0,12 | ±0,15 | ±0,20 |

| | |
|------------|-----------------|
| S | >22-200 |
| Tolerancia | + 0.2 / +0.3 mm |

| | |
|-------------|-------------|
| α | β |
| Para 100 mm | Para 100 mm |
| ±0,02 | ±0,02 |

Material: DIN 1.1730,1.2311, Aluminio 3.4365 -PLACAS PREMECANIZADAS / BLANK PLATES- Tipo: PAS (placas acabadas de fresa)



| A ₂ x B | S | | | | | | | | | | |
|--------------------|----|----|----|----|----|----|----|----|-----|-----|-----|
| | 22 | 27 | 36 | 46 | 56 | 66 | 76 | 96 | 116 | 136 | 156 |
| 130x145 | | | | | | | | | | | |
| 145x195 | | | | | | | | | | | |
| 175x260 | | | | | | | | | | | |
| 175x360 | | | | | | | | | | | |
| 196x196 | | | | | | | | | | | |
| 196x296 | | | | | | | | | | | |
| 196x346 | | | | | | | | | | | |
| 215x215 | | | | | | | | | | | |
| 215x295 | | | | | | | | | | | |
| 245x360 | | | | | | | | | | | |
| 246x246 | | | | | | | | | | | |
| 246x296 | | | | | | | | | | | |
| 246x346 | | | | | | | | | | | |
| 296x296 | | | | | | | | | | | |
| 296x346 | | | | | | | | | | | |
| 296x396 | | | | | | | | | | | |
| 296x446 | | | | | | | | | | | |
| 346x346 | | | | | | | | | | | |
| 346x396 | | | | | | | | | | | |
| 346x546 | | | | | | | | | | | |
| 396x396 | | | | | | | | | | | |
| 446x446 | | | | | | | | | | | |
| 496x496 | | | | | | | | | | | |
| 496x596 | | | | | | | | | | | |

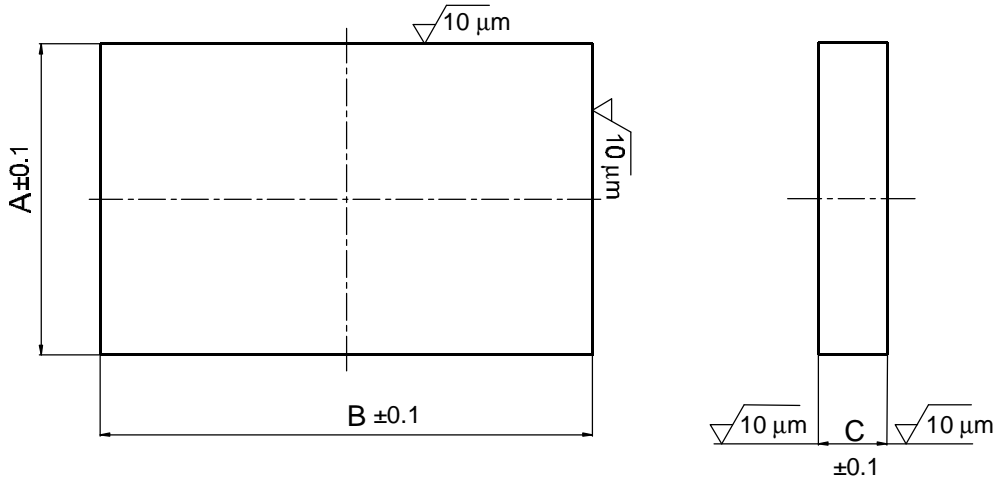
Forma de pedido: PAS / Tipo x S x Mat. - **Ejemplo:** PAS / 296 x 296 x 96 x 1.1730.

Order: PAS / Type x S x Mat. - **Example:** PAS / 296 x 296 x 1.1730.

Auftransform: PAS / Type x S x Mat. - **Beispiel:** PAS / 296 x 296 x 96 x 1.1730.

Disponibles otras medidas bajo pedido

Material: DIN 1.2162, 1.2311, 1.2738, 1.2344



Material: DIN 1.2311, 1.2344, 1.2738

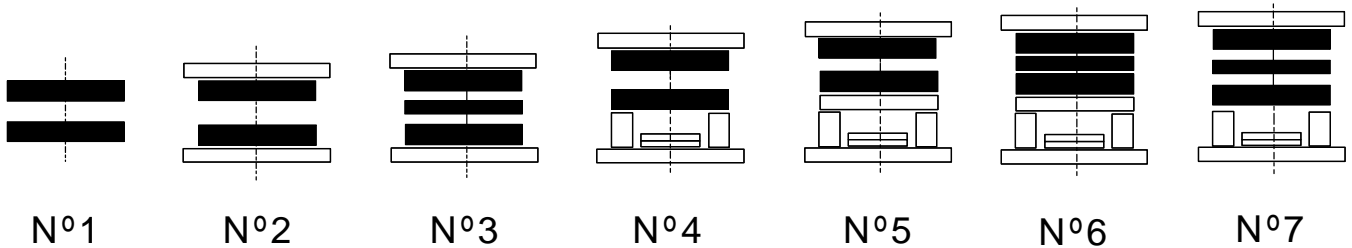
| A ₂ /B | 90 | 96 | 106 | 116 | 120 | 146 | 156 | 170 | 186 | 230 |
|-------------------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|
| 60 | | | | | | | | | | |
| 76 | | | | | | | | | | |
| 86 | | | | | | | | | | |
| 96 | | | | | | | | | | |
| 100 | | | | | | | | | | |
| 116 | | | | | | | | | | |
| 120 | | | | | | | | | | |
| 156 | | | | | | | | | | |

Forma de pedido: Postizo PZ / A x B x C x Mat. - Ejemplo: PZ / 60 x 106 x 36 x 1.2311.

Order: Insert PZ / A x B x C x Mat. - Example: PZ / 60 x 106 x 36 x 1.2311.

Auftransform: Einsatz PZ / A x B x C x Mat. - Beispiel: PZ / 60 x 106 x 36 x 1.2311.

Otras medidas, bajo pedido



Material : DIN 1.2162, 1.2311, 1.2738, 1.2344

Elección del número de placas para la composición del montaje.

Selection of the number of plates for the mould assembly.

Wahl der Anzahl von platten für die zusammenstellung des gestells.

| A ₂ /B | 145 | 175 | 195 | 196 | 215 | 245 | 246 | 260 | 295 | 296 | 346 | 360 | 396 | 446 | 450 | 496 | 546 | 550 | 596 | |
|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| 130 | | | | | | | | | | | | | | | | | | | | |
| 145 | | | | | | | | | | | | | | | | | | | | |
| 175 | | ✓ | | | | | | | | | | | | | | | | | | |
| 196 | | | | | | | | | | | | | | | | | | | | |
| 215 | | | | | | | | | | | | | | | | | | | | |
| 245 | | | | | | ✓ | | | | | | ✓ | | | | | | | | |
| 246 | | | | | | | | | | | | | | | | | | | | |
| 295 | | | | | | | | | | | | | | | | | | | | |
| 296 | | | | | | | | | | | | | | | | | | | | |
| 345 | | | | | | | | | | | | | | | | | | | | |
| 346 | | | | | | | | | | | | | | | | | | | | |
| 396 | | | | | | | | | | | | | | | | | | | | |
| 446 | | | | | | | | | | | | | | | | | | | | |
| 496 | | | | | | | | | | | | | | | | | | | | |

4 Medidas a suprimir

Forma de pedido: Montaje VAP - SP - nº ...Tipo D · N · E · Mat. / C · P · G · FxR · Mat.

Ejemplo: VAP - SP - nº 6 / 196x196x56x27x76x1.2162 / 22x27x22x76x38x1.1730

Order: Assembly VAP - SP - nº ...Type D · N · E · Mat. / C · P · G · FxR · Mat.

Example: VAP - SP - nº 6 / 196x196x56x27x76x1.2162 / 22x27x22x76x38x1.1730

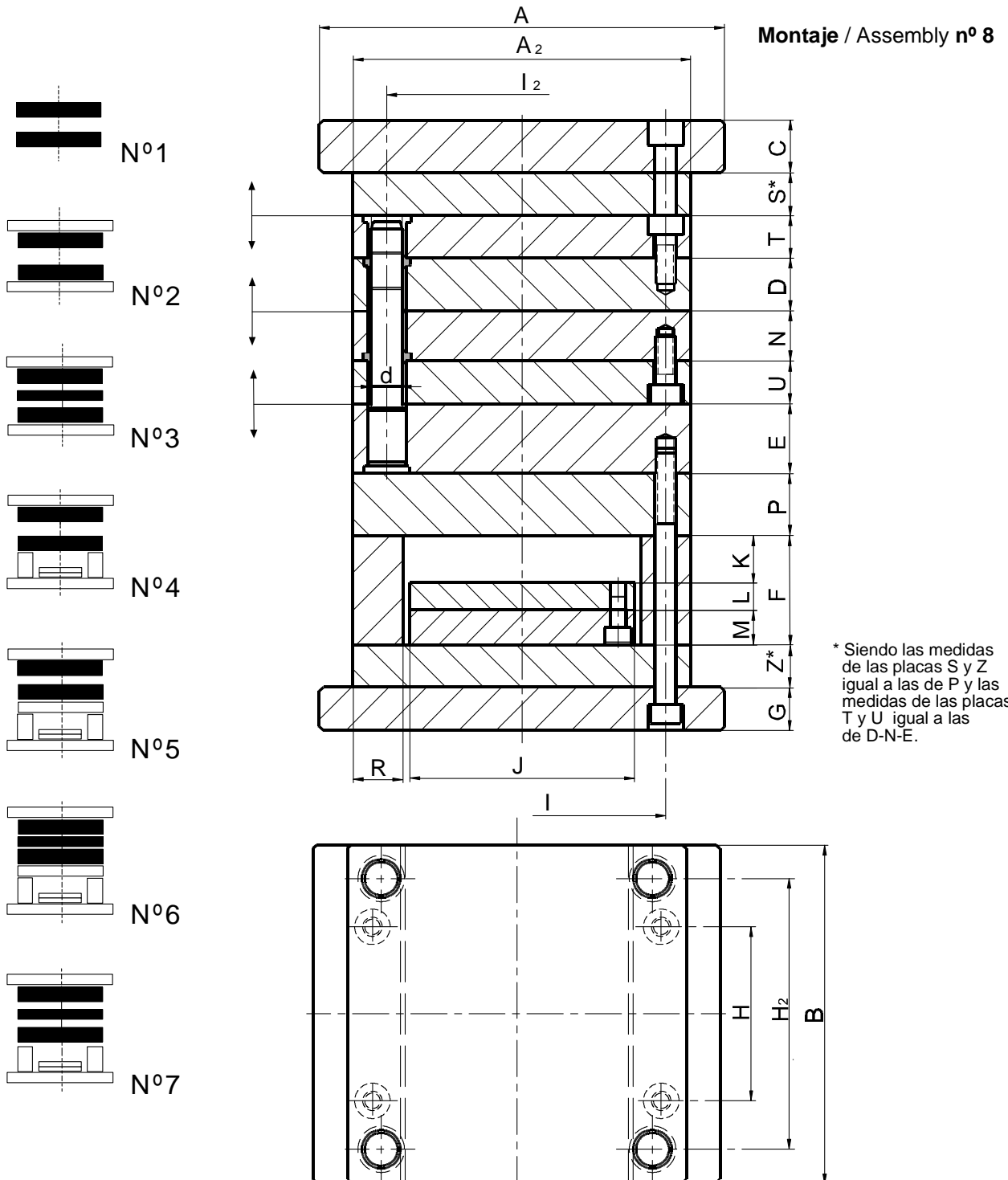
Auftragsform: Gestell VAP - SP - nº ...Type D · N · E · Mat. / C · P · G · FxR · Mat.

Beispiel: VAP - SP - nº 6 / 196x196x56x27x76x1.2162 / 22x27x22x76x38x1.1730

| TIPO | A | A ₂ | B | C | D-N-E | F | G | H | H ₂ | I | I ₂ | J | K | L | M | P | R | d |
|----------|-----|----------------|-----|----------------|--------------------------------|-----------------|----------------|-----|----------------|-----|----------------|------------|----------------|----|----|----------------|----------|----|
| 130x145 | 160 | 130 | 145 | 18 27 | 22-27-36 46-56 | 50 60 70 | 18 27 | 79 | 119 | 104 | 104 | 75 | 24 34 44 | 12 | 14 | 18 27 | 26 | 12 |
| 145x195 | 175 | 145 | 195 | 22 27 | 22-27-36 46-56-66-76 | 50 60 70 | 22 27 | 117 | 165 | 119 | 115 | 90 | 22 32 42 | 12 | 16 | 22 27 | 26 | 16 |
| 175x175* | 210 | 175 | 175 | 22 27 | 22-27-36 46-56-76-96 | 50 70 90 | 22 27 | 90 | 140 | 149 | 140 | 120 100 | 20 40 60 | 12 | 18 | 22 27 | 26 36 | 16 |
| 175x260 | 210 | 175 | 260 | 22 32 | 22-27-36 46-56-66 76-96 | 50 70 90 | 22 32 | 176 | 225 | 149 | 140 | 122 102 | 20 40 60 | 12 | 18 | 22 32 | 26 36 | 16 |
| 175x360 | 210 | 175 | 360 | 22 32 | 22-27-36 46-56-66-76 | 60 70 90 | 22 32 | 264 | 320 | 149 | 135 | 122 102 | 30 40 60 | 12 | 18 | 22 32 | 26 36 | 18 |
| 196x196 | 246 | 196 | 196 | 22 27 | 22-27-36 46-56-66 76-96 | 46 56 76 | 22 27 | 100 | 152 | 154 | 154 | 118 | 17 27 47 | 12 | 17 | 27 36 | 38 | 18 |
| 196x296 | 246 | 196 | 296 | 27 36 | 22-27-36 46-56-66 76-96 | 56 76 96 | 27 36 | 186 | 244 | 150 | 150 | 108 | 27 47 67 | 12 | 17 | 36 | 43 | 22 |
| 196x346 | 246 | 196 | 346 | 27 36 | 22-27-36 46-56-66 76-96 | 56 76 96 | 27 36 | 236 | 294 | 150 | 150 | 108 | 27 47 67 | 12 | 17 | 36 | 43 | 22 |
| 215x215 | 250 | 215 | 215 | 22 32 | 22-27-36 46-56-66 76-96 | 50 70 90 | 22 32 | 130 | 180 | 183 | 180 | 148 128 | 20 40 60 | 12 | 18 | 22 32 | 32 42 | 16 |
| 215x295 | 250 | 215 | 295 | 22 32 | 22-27-36 46-56-66 76-96 | 60 70 90 | 22 32 | 202 | 255 | 183 | 175 | 148 128 | 30 40 60 | 12 | 18 | 22 32 | 32 42 | 18 |
| 245x245* | 280 | 245 | 245 | 22 32 | 27-36-46 56-76-96-116 | 60 70 90 | 22 32 | 148 | 203 | 209 | 203 | 170 150 | 30 40 60 | 12 | 18 | 22 32 | 36 46 | 18 |
| 245x360* | 280 | 245 | 360 | 22 32 | 27-36-46 56-76-96-116 | 60 70 90 | 22 32 | 260 | 318 | 209 | 203 | 170 150 | 30 40 60 | 12 | 18 | 22 32 | 36 46 | 18 |
| 246x246 | 296 | 246 | 246 | 27 36 | 27-36 46-56-66 76-96-116 | 56 76 96 | 27 36 | 130 | 200 | 200 | 200 | 158 | 27 47 67 | 12 | 17 | 36 | 43 | 22 |
| 246x296 | 296 | 246 | 296 | 27 36 | 27-36 46-56-66 76-96-116 | 56 76 96 | 27 36 | 186 | 244 | 200 | 200 | 158 | 27 47 67 | 12 | 17 | 36 | 43 | 22 |
| 246x346 | 296 | 246 | 346 | 27 36 | 27-36 46-56-66 76-96-116 | 56 76 96 | 27 36 | 224 | 294 | 194 | 194 | 158 | 17 37 57 | 17 | 22 | 36 46 | 43 | 22 |
| 295x450* | 340 | 295 | 450 | 27 42 | 27-36-46 56-76-96-116 | 70 90 110 | 27 42 | 320 | 395 | 259 | 240 | 220 196 | 30 50 70 | 18 | 22 | 27 42 | 36 48 | 22 |
| 296x296 | 346 | 296 | 296 | 27 36 | 27-36 46-56-66 76-96-116 | 56 76 96 | 27 36 | 186 | 244 | 250 | 250 | 208 | 27 47 67 | 12 | 17 | 27 36 46 | 43 | 22 |
| 296x346 | 346 | 296 | 346 | 27 36 | 27-36 46-56-66 76-96-116 | 56 76 96 | 27 36 | 224 | 294 | 244 | 244 | 208 | 17 37 57 | 17 | 22 | 27 36 46 | 43 | 22 |
| 296x396 | 346 | 296 | 396 | 27 36 | 27-36 46-56-66 76-96-116 | 56 76 96 | 27 36 | 284 | 340 | 248 | 248 | 200 | 17 37 57 | 17 | 22 | 27 36 46 | 47 | 22 |
| 296x446 | 346 | 296 | 446 | 36 | 36-46 56-66-76 96-116 | 56 76 96 | 36 | 324 | 394 | 244 | 244 | 208 | 17 37 57 | 17 | 22 | 36 46 | 43 | 22 |
| 345x550* | 395 | 345 | 550 | 32 42 | 36-46-56 76-96-116 | 70 90 110 | 32 42 | 405 | 485 | 299 | 280 | 248 208 | 25 45 65 | 18 | 27 | 32 42 | 46 66 | 30 |
| 346x346 | 396 | 346 | 346 | 27 36 | 36-46 56-66-76 96-116 | 56 76 96 | 27 36 | 224 | 294 | 294 | 294 | 258 | 17 37 57 | 17 | 22 | 27 36 46 | 43 | 22 |
| 346x396 | 396 | 346 | 396 | 27 36 46 | 36-46 56-66-76 96-116 | 56 76 96 | 27 36 46 | 230 | 316 | 274 | 274 | 218 | 17 37 57 | 17 | 22 | 27 36 46 | 62 | 30 |
| 346x546 | 396 | 346 | 546 | 36 46 | 36-46 56-66-76 96-116 | 56 76 96 | 36 46 | 380 | 474 | 274 | 274 | 218 | 27 47 67 | 22 | 27 | 36 46 | 62 | 30 |

| TIPO | A | A ₂ | B | C | D-N-E | F | G | H | H ₂ | I | I ₂ | J | K | L | M | P | R | d | |
|---------|-----|----------------|-----|----|-------------|-----|----|-----|----------------|-----|----------------|-----|----|----|----|----|----|----|----|
| 396x396 | 446 | 396 | 396 | 36 | 36-46 | 56 | 36 | 230 | 324 | 324 | 324 | 268 | 17 | 17 | 22 | 36 | 62 | 30 | |
| | | | | 46 | 56-66-76 | 76 | | | | | | | 37 | | | | | | |
| | | | | | 96-116 | 96 | | | | | | | 57 | | | | | | |
| 446x446 | 546 | 446 | 446 | 36 | 36-46 | 56 | 36 | 280 | 374 | 374 | 374 | 318 | 12 | 17 | 27 | 36 | 62 | 30 | |
| | | | | 46 | 56-66-76 | 76 | | | | | | | 32 | | | | | | |
| | | | | | 96-116 | 96 | | | | | | | 52 | | | | | | |
| 496x496 | 596 | 496 | 496 | 36 | 36-46 | 76 | 36 | 330 | 424 | 424 | 424 | 368 | 13 | 27 | 36 | 46 | 62 | 30 | |
| | | | | 46 | 56-66-76-96 | 96 | | | | | | | 33 | | | | | | |
| | | | | 56 | 116-136-156 | 116 | | | | | | | 53 | | | | | | |
| 496x596 | 596 | 496 | 596 | 36 | 36-46 | 76 | 36 | 430 | 524 | 424 | 424 | 368 | 13 | 22 | 27 | 36 | 36 | 62 | 30 |
| | | | | 46 | 56-66-76-96 | 96 | | | | | | | 33 | | | | | | |
| | | | | 56 | 116-136-156 | 116 | | | | | | | 53 | | | | | | |
| | | | | | | 136 | | | | | | | 73 | | | | | | |

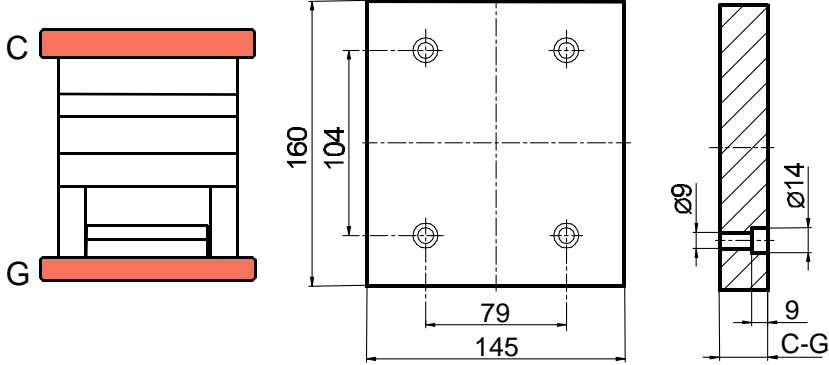
* Medidas a suprimir



* Siendo las medidas de las placas S y Z igual a las de P y las medidas de las placas T y U igual a las de D-N-E.

130 x 145

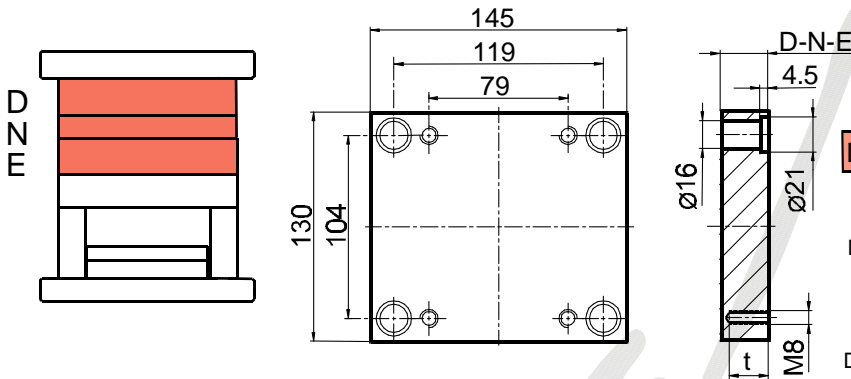
Placas de fijación / Clamping plate / Aufspannplatte



| | | |
|-----|----|----|
| C-G | 18 | 27 |
|-----|----|----|

Material:
DIN 1.0570, 1.1730

Placas alojamiento cavidad / Cavity plate / Formplatte

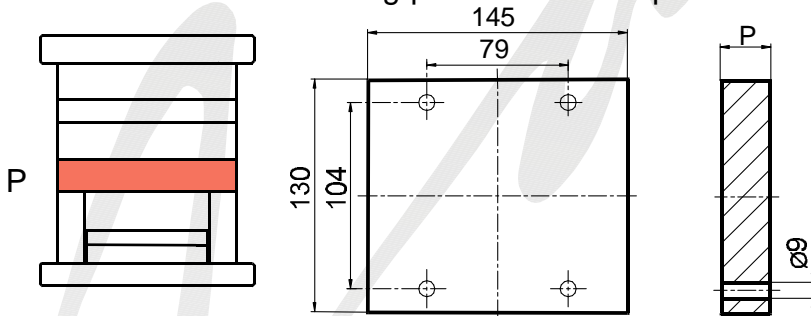


| | | | | | |
|-------|----|----|----|----|----|
| D-N-E | 22 | 27 | 36 | 46 | 56 |
|-------|----|----|----|----|----|

Material:
DIN 1.2162, 1.2311, 1.2738, 1.2344

D-N-E ≥ 22 t=25

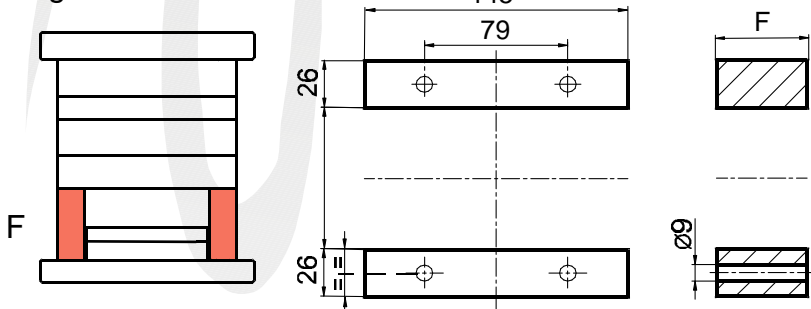
Placa intermedia / Backing plate / Zwischenplatte



| | | |
|---|----|----|
| P | 18 | 27 |
|---|----|----|

Material:
DIN 1.0570, 1.1730

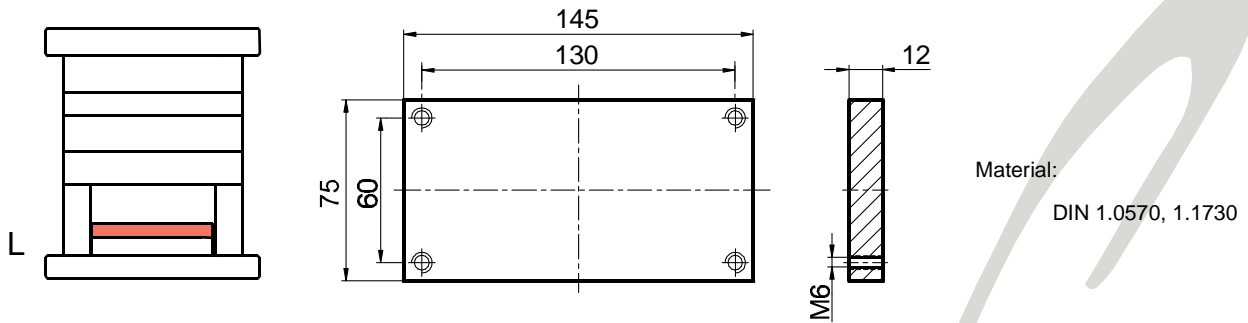
Regletas / Risers / Leisten



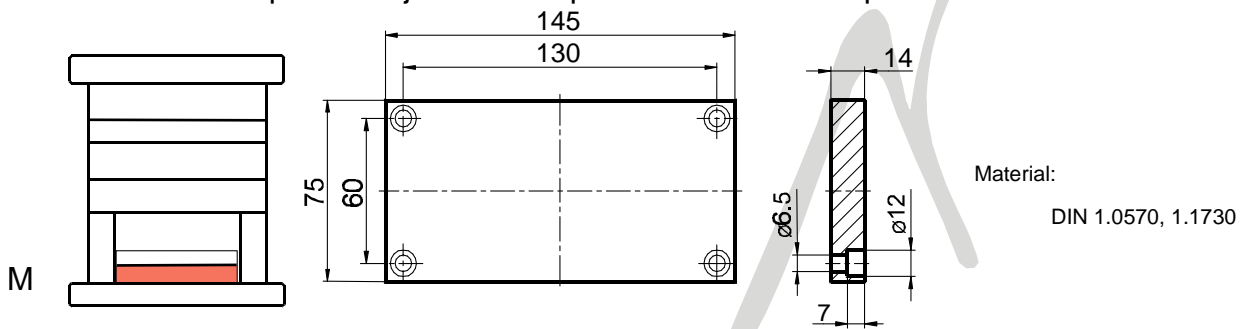
| | | | |
|---|----|----|----|
| F | 50 | 60 | 70 |
|---|----|----|----|

Material:
DIN 1.0570, 1.1730

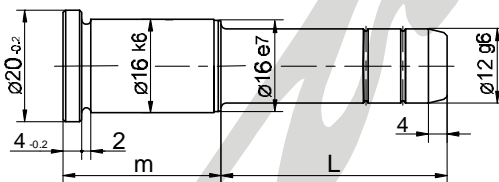
Placa soporte del expulsor / Ejector retainer plate / Auswerferplatte



Placa base del expulsor / Ejector base plate / Auswerferplatte



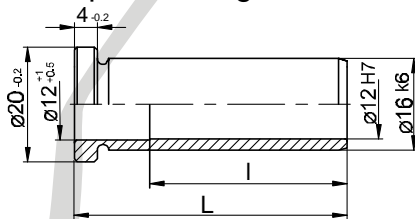
Guia para casquillo GC / Shoulder leader pin GC



| m | L | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|-----|-----|
| | 18 | 26 | 36 | 45 | 50 | 65 | 70 | 90 | 100 | 125 |
| 17 | | | | | | | | | | |
| 21 | | | | | | | | | | |
| 26 | | | | | | | | | | |
| 34 | | | | | | | | | | |
| 44 | | | | | | | | | | |
| 54 | | | | | | | | | | |

Material: DIN 1.7242
Dureza: 60 - 62 HRc

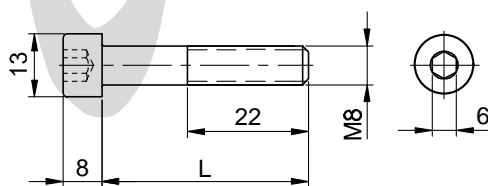
Casquillo CV / Leader pin bushing CV



| L | | | | | | | | | |
|----|----|----|----|------|------|----|----|----|--|
| 17 | 21 | 26 | 35 | 45 | 55 | 65 | 75 | 95 | |
| | | | | l=30 | l=30 | | | | |

Material: DIN 1.7242
Dureza: 60 - 62 HRc

Tornillo cilíndrico TOG / Socket cap screw TOG



| L | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 25 |
|---|----|----|-----|-----|-----|-----|-----|-----|
| | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 70 |
| | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 |

Resistencia a la tracción: 80 - 100 kg/mm²
Calidad: 8.8 (8 G)

145 x 195

Placas de fijación / Clamping plate / Aufspannplatte

| | | |
|-----|----|----|
| C-G | 22 | 27 |
|-----|----|----|

Material:
DIN 1.0570, 1.1730

Placas alojamiento cavidad / Caviti plate / Formplatte

| | | | | | |
|-------|----|----|----|----|----|
| D-N-E | 22 | 27 | 36 | 46 | 56 |
| | 66 | 76 | | | |

Material:
DIN 1.2162, 1.2311, 1.2738, 1.2344

D-N-E = 22 t=19
D-N-E > 22 t=25

Placa intermedia / Backing plate / Zwischenplatte

| | | |
|---|----|----|
| P | 22 | 27 |
|---|----|----|

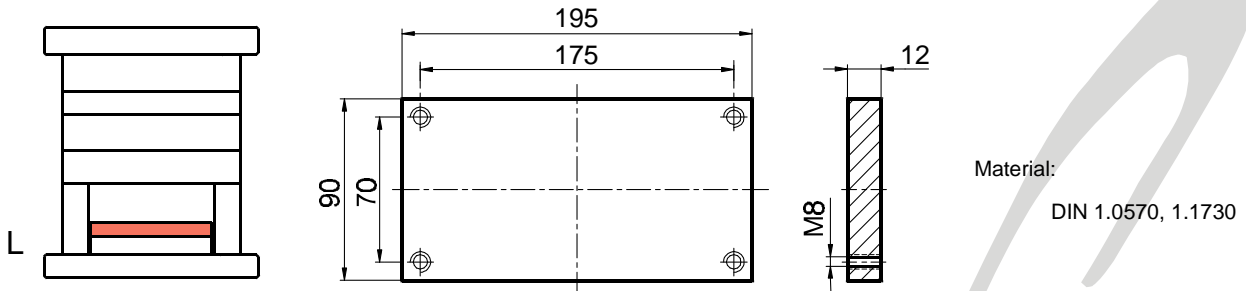
Material:
DIN 1.0570, 1.1730

Regletas / Risers / Leisten

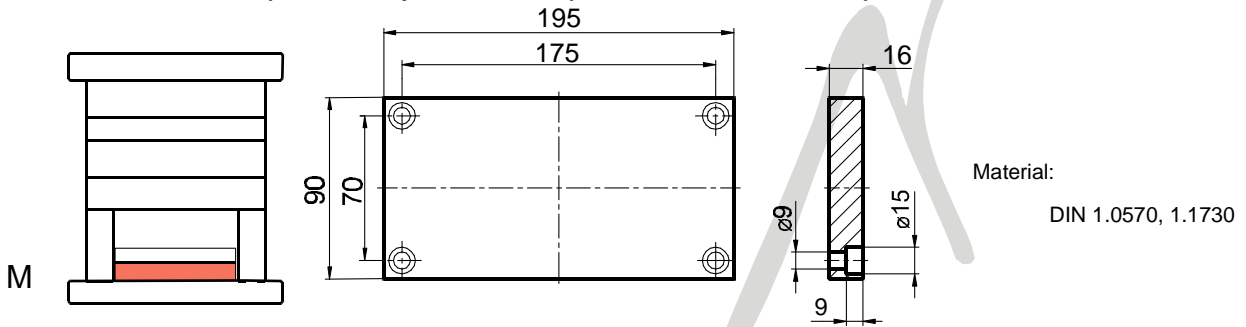
| | | | |
|---|----|----|----|
| F | 50 | 60 | 70 |
|---|----|----|----|

Material:
DIN 1.0570, 1.1730

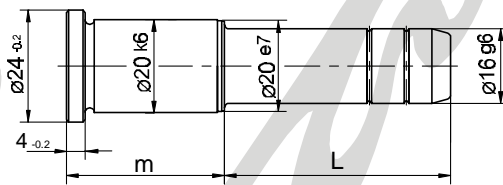
Placa soporte del expulsor / Ejector retainer plate / Auswerferplatte



Placa base del expulsor / Ejector base plate / Auswerferplatte



Guia para casquillo GC / Shoulder leader pin GC

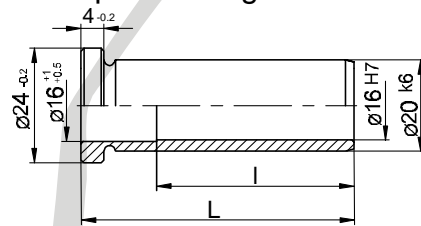


| m | L | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|-----|-----|-----|
| | 18 | 26 | 36 | 45 | 50 | 65 | 70 | 90 | 100 | 125 | 150 |
| 20 | | | | | | | | | | | |
| 26 | | | | | | | | | | | |
| 34 | | | | | | | | | | | |
| 44 | | | | | | | | | | | |
| 54 | | | | | | | | | | | |
| 64 | | | | | | | | | | | |
| 74 | | | | | | | | | | | |

Material: DIN 1.7242

Dureza: 60 - 62 HRc

Casquillo CV / Leader pin bushing CV

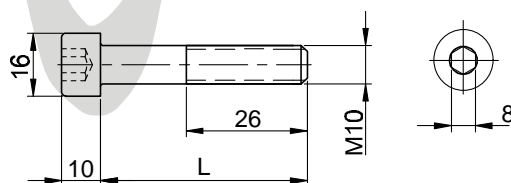


| L | | | | | | | |
|----|----|----|----|----|----|----|------|
| 17 | 21 | 26 | 35 | 45 | 55 | 65 | 75 |
| | | | | | | | l=45 |

Material: DIN 1.7242

Dureza: 60 - 62 HRc

Tornillo cilíndrico TOG / Socket cap screw TOG



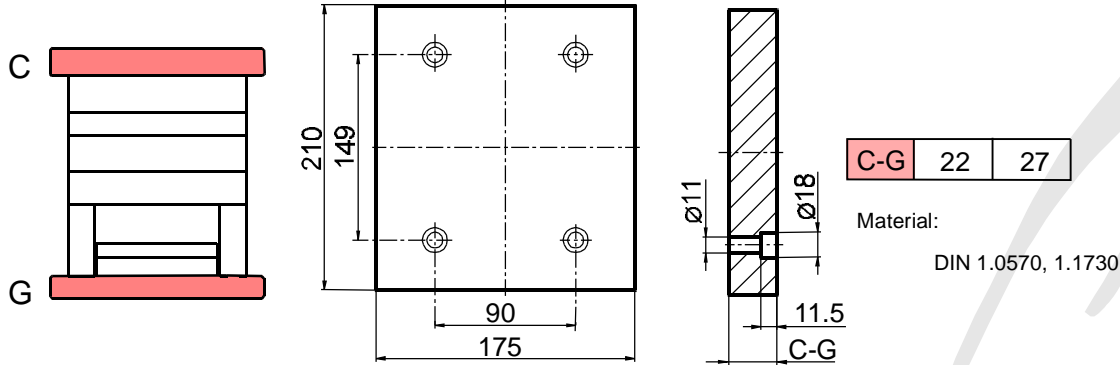
| L | 16 | 18 | 20 | 22 | 25 | 30 | 35 |
|---|----|-----|-----|-----|-----|-----|-----|
| | 40 | 45 | 50 | 55 | 60 | 70 | 80 |
| | 90 | 100 | 110 | 120 | 130 | 140 | 150 |

Resistencia a la tracción: 80 - 100 kg/mm²

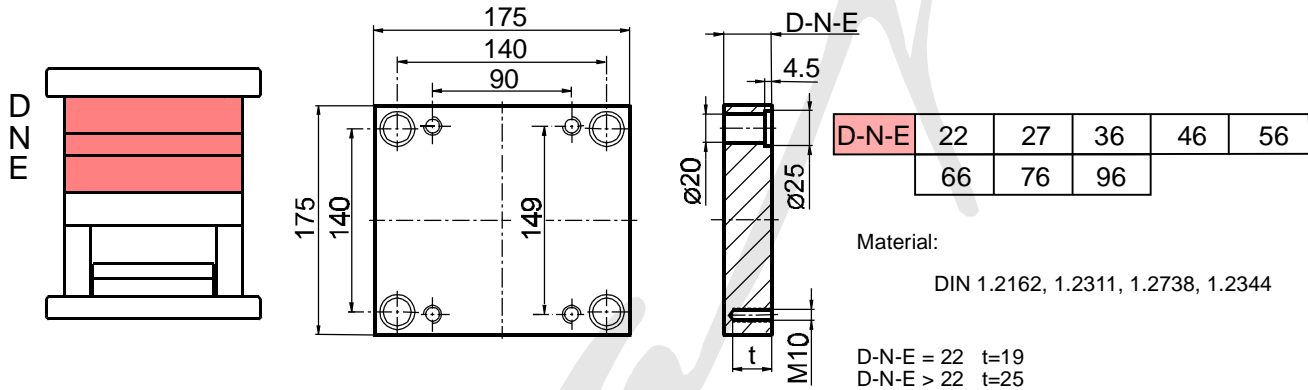
Calidad: 8.8 (8 G)

175 x 175

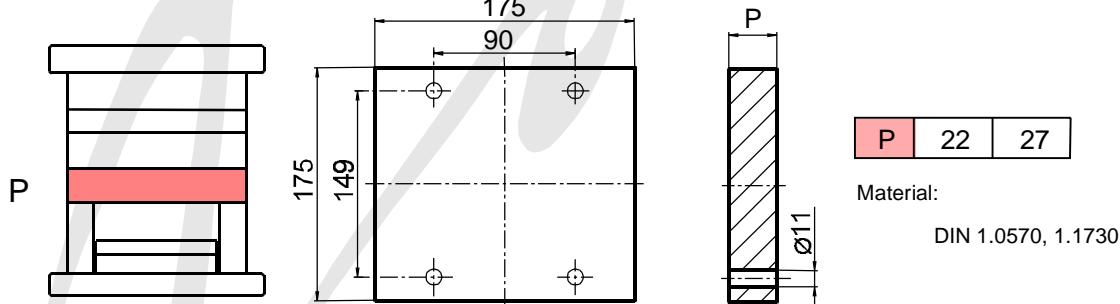
Placas de fijación / Clamping plate / Aufspannplatte



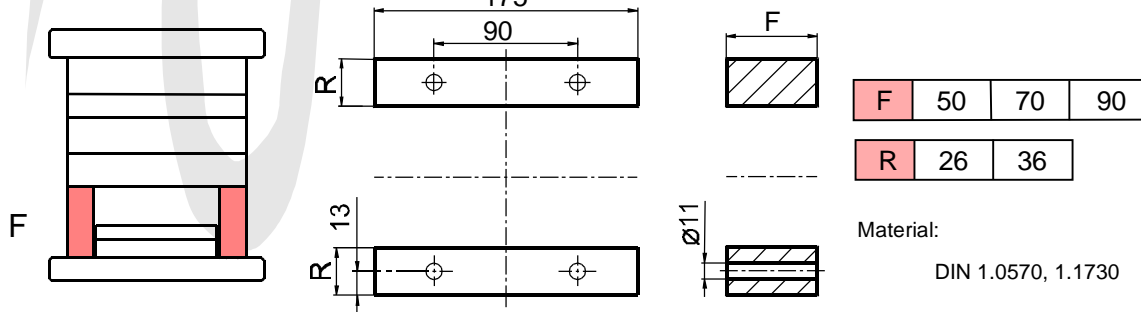
Placas alojamiento cavidad / Caviti plate / Formplatte



Placa intermedia / Backing plate / Zwischenplatte



Regletas / Risers / Leisten



Placa soporte del expulsor / Ejector retainer plate / Auswerferplatte

| | | |
|---|-----|-----|
| J | 120 | 100 |
| T | 100 | 80 |

Material:
DIN 1.0570, 1.1730

Placa base del expulsor / Ejector base plate / Auswerferplatte

| | | |
|---|-----|-----|
| J | 120 | 100 |
| T | 100 | 80 |

Material:
DIN 1.0570, 1.1730

Guia para casquillo GC / Shoulder leader pin GC

| m | L | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|-----|-----|-----|
| | 18 | 26 | 36 | 45 | 50 | 65 | 70 | 90 | 100 | 125 | 150 |
| 20 | | | | | | | | | | | |
| 26 | | | | | | | | | | | |
| 34 | | | | | | | | | | | |
| 44 | | | | | | | | | | | |
| 54 | | | | | | | | | | | |
| 64 | | | | | | | | | | | |
| 74 | | | | | | | | | | | |
| 94 | | | | | | | | | | | |

Material: DIN 1.7242 Dureza: 60 - 62 HRC

Casquillo CV / Leader pin bushing CV

| | L | | | | | | | | |
|--|----|----|----|----|----|----|----|------|------|
| | 17 | 21 | 26 | 35 | 45 | 55 | 65 | 75 | 95 |
| | | | | | | | | | |
| | | | | | | | | I=45 | I=55 |

Dureza: 60 - 62 HRC

Material: DIN 1.7242

Tornillo cilíndrico TOG / Socket cap screw TOG

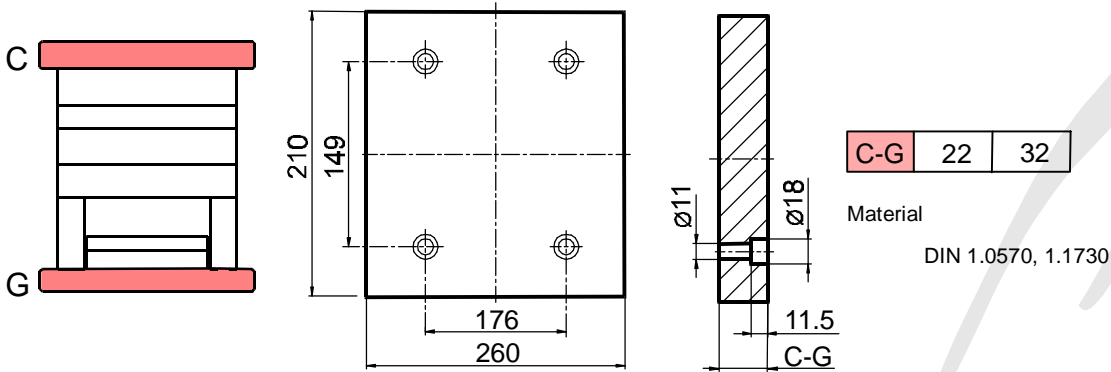
| | | | | | | | |
|---|----|-----|-----|-----|-----|-----|-----|
| L | 16 | 18 | 20 | 22 | 25 | 30 | 35 |
| | 40 | 45 | 50 | 55 | 60 | 70 | 80 |
| | 90 | 100 | 110 | 120 | 130 | 140 | 150 |

Resistencia a la tracción: 80 - 100 kg/mm²

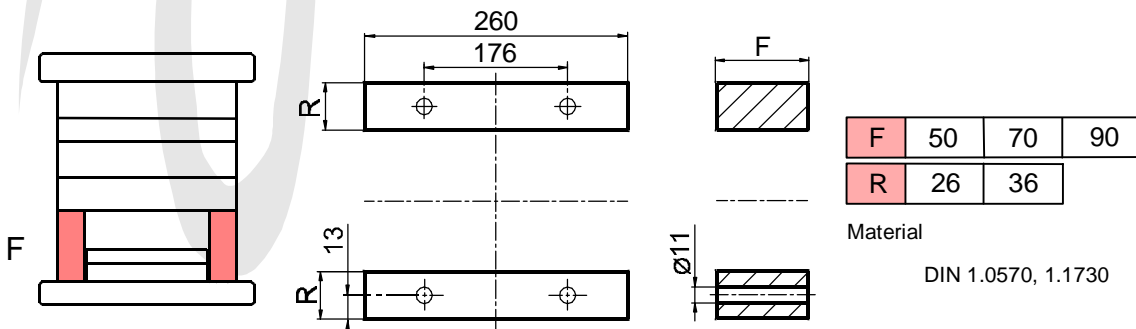
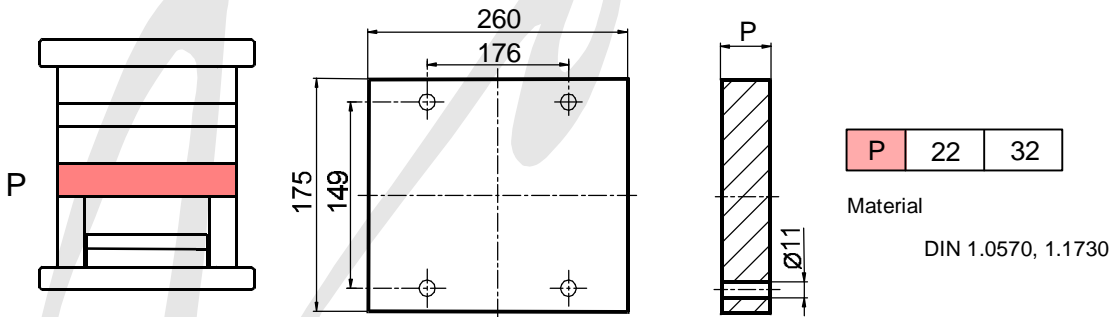
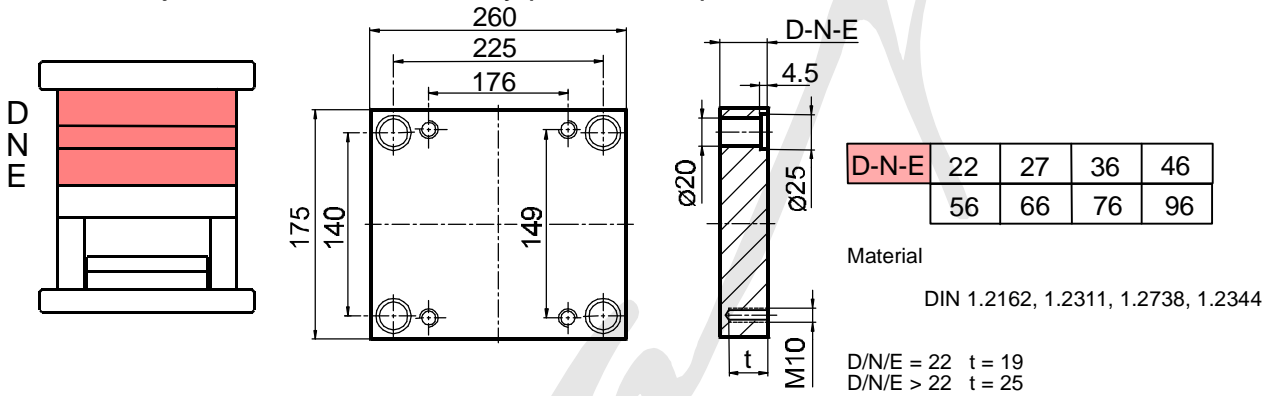
Calidad: 8.8 (8 G)

175 x 260

Placas de fijación / Clamping plate / Aufspannplatte



Placas alojamiento cavidad / Cavity plate / Formplatte



Placa soporte del expulsor / Ejector retainer plate / Auswerferplatte

| | | |
|---|-----|-----|
| J | 102 | 122 |
| T | 85 | 105 |

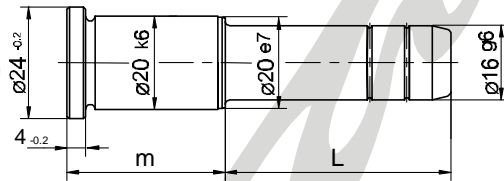
Material
DIN 1.0570, 1.1730

Placa base del expulsor / Ejector base plate / Auswerferplatte

| | | |
|---|-----|-----|
| J | 102 | 122 |
| T | 85 | 105 |

Material
DIN 1.0570, 1.1730

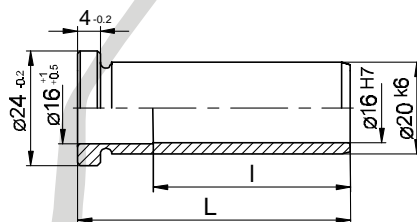
Guia para casquillo GC / Shoulder leader pin GC



| m | L | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|-----|-----|-----|
| | 18 | 26 | 36 | 45 | 50 | 65 | 70 | 90 | 100 | 125 | 150 |
| 20 | | | | | | | | | | | |
| 26 | | | | | | | | | | | |
| 34 | | | | | | | | | | | |
| 44 | | | | | | | | | | | |
| 54 | | | | | | | | | | | |
| 64 | | | | | | | | | | | |
| 74 | | | | | | | | | | | |
| 94 | | | | | | | | | | | |

Material: DIN 1.7242 Dureza: 60 - 62 HRC

Casquillo CV / Leader pin bushing CV

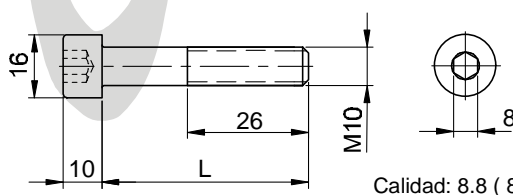


| L | | | | | | | | |
|----|----|----|----|----|----|----|------|------|
| 17 | 21 | 26 | 35 | 45 | 55 | 65 | 75 | 95 |
| | | | | | | | l=45 | l=55 |

Material: DIN 1.7242

Dureza: 60 - 62 HRC

Tornillo cilíndrico TOG / Socket cap screw TOG



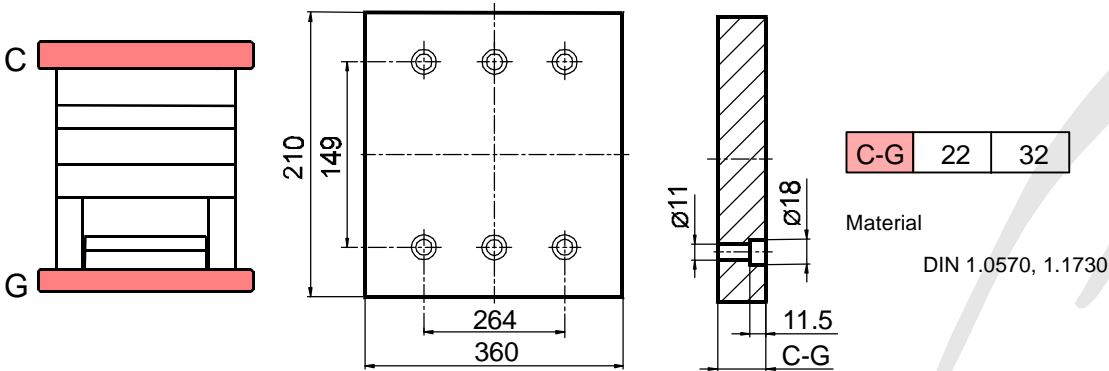
| L | 16 | 18 | 20 | 22 | 25 | 30 | 35 |
|---|----|-----|-----|-----|-----|-----|-----|
| | 40 | 45 | 50 | 55 | 60 | 70 | 80 |
| | 90 | 100 | 110 | 120 | 130 | 140 | 150 |

Resistencia a la tracción: 80 - 100 kg/mm²

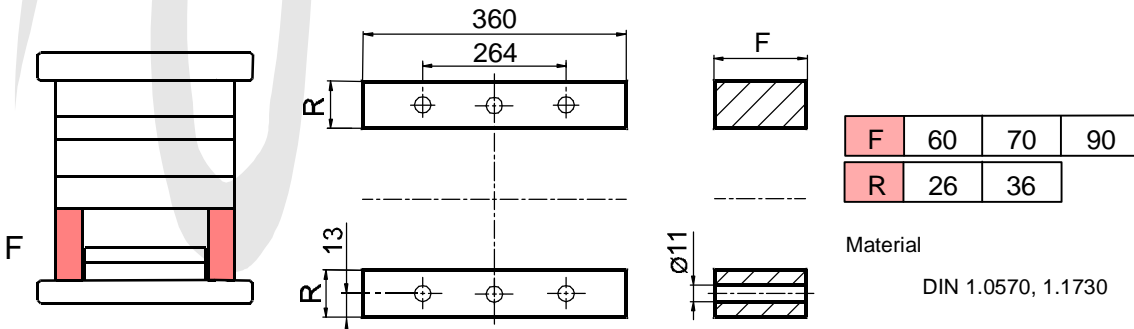
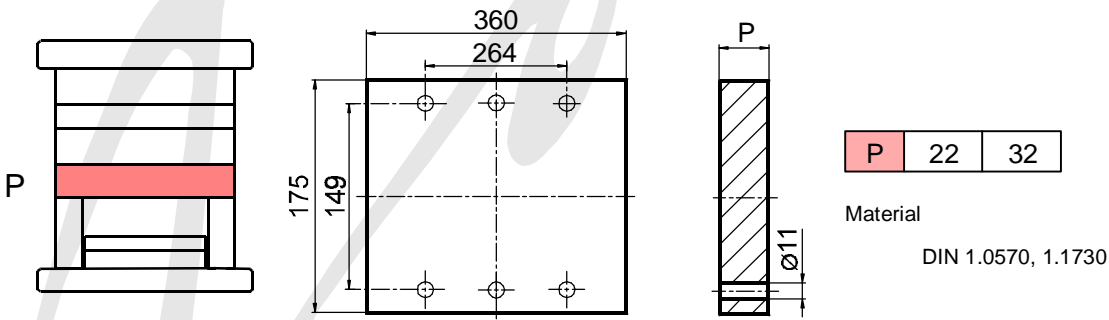
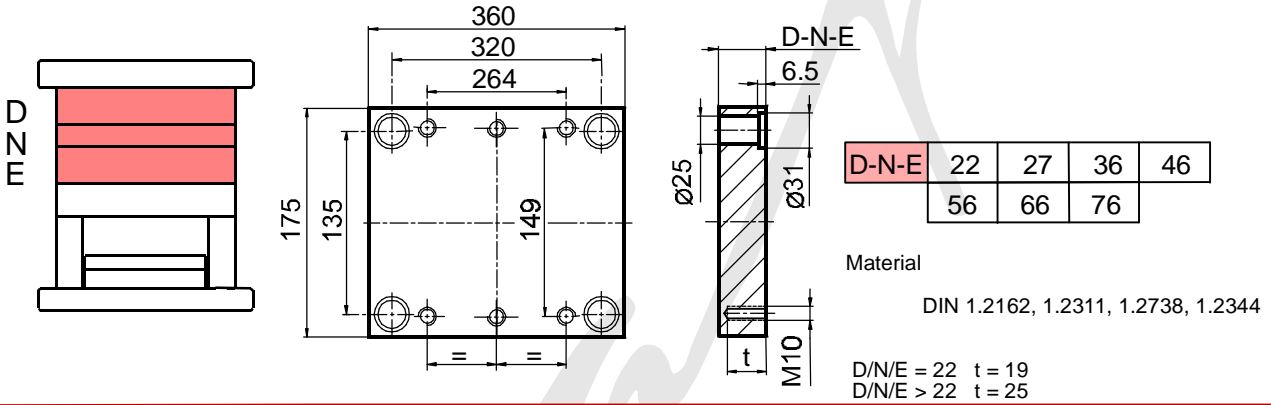
Calidad: 8.8 (8 G)

175 x 360

Placas de fijación / Clamping plate / Aufspannplatte



Placas alojamiento cavidad / Cavity plate / Formplatte



Placa soporte del expulsor / Ejector retainer plate / Auswerferplatte

| | | |
|---|-----|-----|
| J | 102 | 122 |
| T | 85 | 105 |

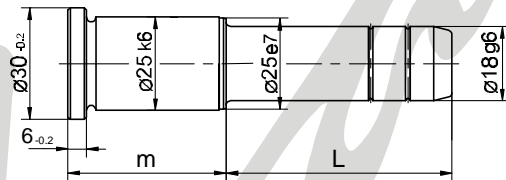
Material
DIN 1.0570, 1.1730

Placa base del expulsor / Ejector base plate / Auswerferplatte

| | | |
|---|-----|-----|
| J | 102 | 122 |
| T | 85 | 105 |

Material
DIN 1.0570, 1.1730

Guia para casquillo GC / Shoulder leader pin GC

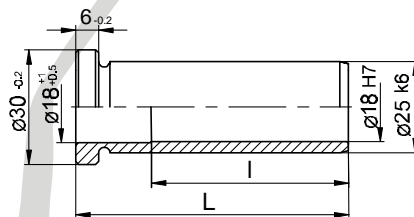


| m | L | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|-----|-----|-----|
| | 18 | 26 | 36 | 45 | 50 | 65 | 70 | 90 | 100 | 125 | 150 |
| 20 | | | | | | | | | | | |
| 26 | | | | | | | | | | | |
| 34 | | | | | | | | | | | |
| 44 | | | | | | | | | | | |
| 54 | | | | | | | | | | | |
| 64 | | | | | | | | | | | |
| 74 | | | | | | | | | | | |

Material: DIN 1.7242

Dureza: 60 - 62 HRc

Casquillo CV / Leader pin bushing CV

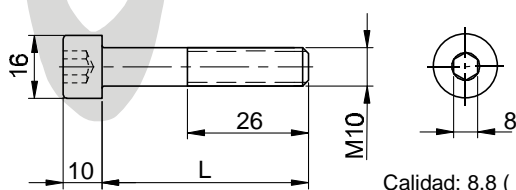


| L | | | | | | | |
|----|----|----|----|----|----|----|------|
| 17 | 21 | 26 | 35 | 45 | 55 | 65 | 75 |
| | | | | | | | l=45 |

Dureza: 60 - 62 HRc

Material: DIN 1.7242

Tornillo cilíndrico TOG / Socket cap screw TOG



| | | | | | | | |
|---|----|-----|-----|-----|-----|-----|-----|
| L | 16 | 18 | 20 | 22 | 25 | 30 | 35 |
| | 40 | 45 | 50 | 55 | 60 | 70 | 80 |
| | 90 | 100 | 110 | 120 | 130 | 140 | 150 |

Resistencia a la tracción: 80 - 100 kg/mm²

Calidad: 8.8 (8 G)

196 x 196

Placas de fijación / Clamping plate / Aufspannplatte

| | | |
|-----|----|----|
| C-G | 22 | 27 |
|-----|----|----|

Material
DIN 1.0570, 1.1730

Placas alojamiento cavidad / Cavity plate / Formplatte

| | | | | |
|-------|----|----|----|----|
| D-N-E | 22 | 27 | 36 | 46 |
| | 56 | 66 | 76 | 96 |

Material
DIN 1.2162, 1.2311, 1.2738, 1.2344

D/N/E = 22 t = 19
D/N/E > 22 t = 25

Placa intermedia / Backing plate / Zwischenplatte

| | | |
|---|----|----|
| P | 27 | 36 |
|---|----|----|

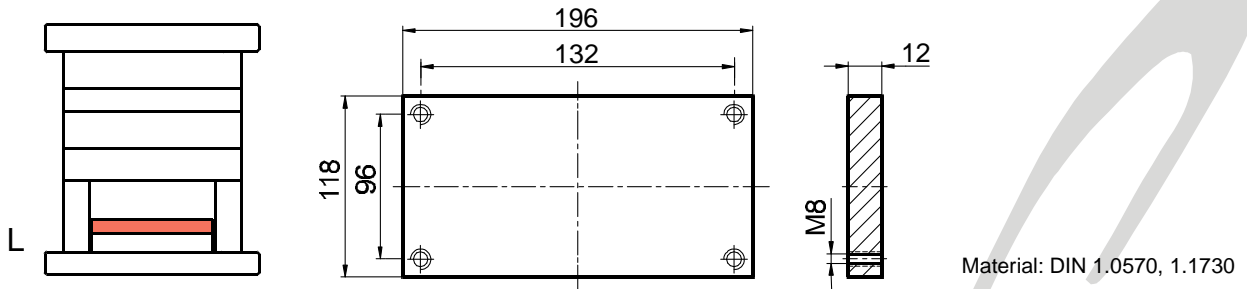
Material
DIN 1.0570, 1.1730

Regletas / Risers / Leisten

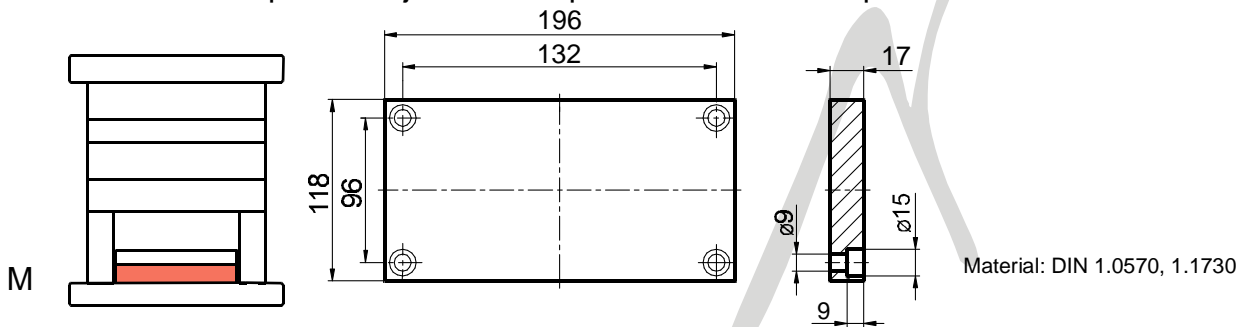
| | | | |
|---|----|----|----|
| F | 46 | 56 | 76 |
|---|----|----|----|

Material
DIN 1.0570, 1.1730

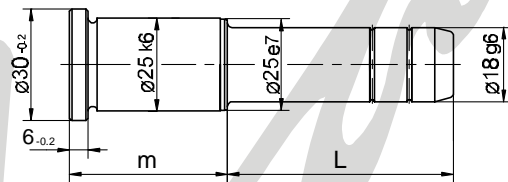
Placa soporte del expulsor / Ejector retainer plate / Auswerferplatte



Placa base del expulsor / Ejector base plate / Auswerferplatte



Guia para casquillo GC / Shoulder leader pin GC

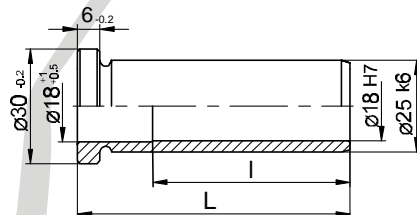


Material: DIN 1.7242

Dureza: 60 - 62 HRc

| m | L | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|-----|-----|-----|
| | 18 | 26 | 36 | 45 | 50 | 65 | 70 | 90 | 100 | 125 | 150 |
| 20 | | | | | | | | | | | |
| 26 | | | | | | | | | | | |
| 34 | | | | | | | | | | | |
| 44 | | | | | | | | | | | |
| 54 | | | | | | | | | | | |
| 64 | | | | | | | | | | | |
| 74 | | | | | | | | | | | |
| 94 | | | | | | | | | | | |

Casquillo CV / Leader pin bushing CV

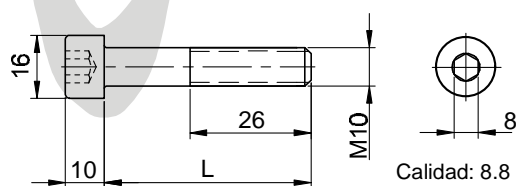


Material: DIN 1.7242

Dureza: 60 - 62 HRc

| L | | | | | | | | | |
|---|----|----|----|----|----|----|----|----|----|
| | 17 | 21 | 26 | 35 | 45 | 55 | 65 | 75 | 95 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Tornillo cilíndrico TOG / Socket cap screw TOG



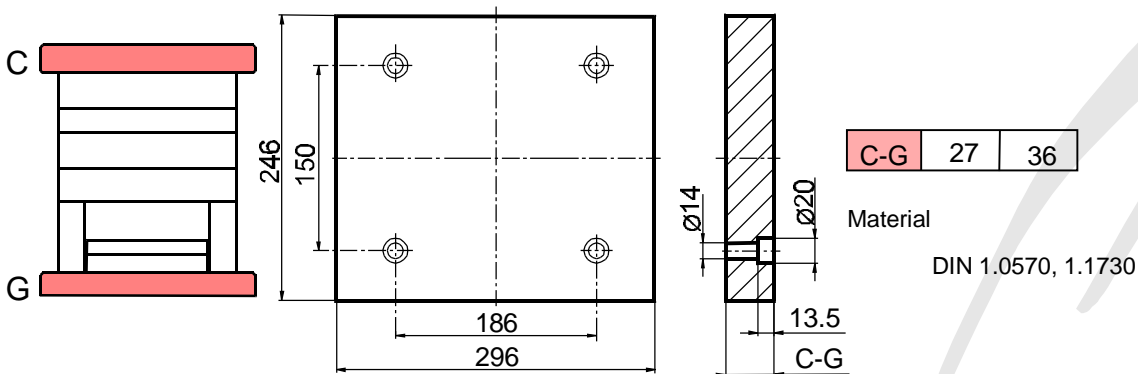
Calidad: 8.8 (8 G)

Resistencia a la tracción: 80 - 100 kg/mm²

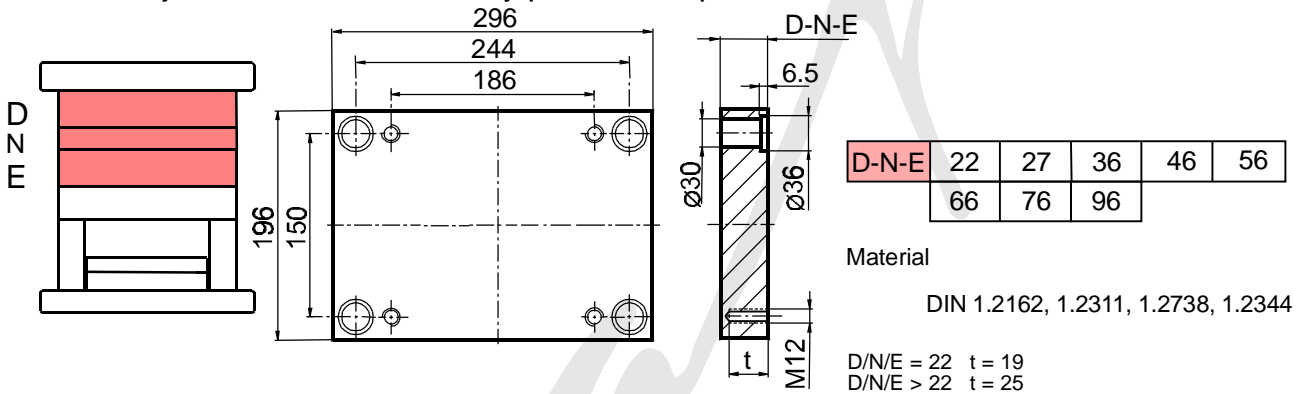
| L | 16 | 18 | 20 | 22 | 25 | 30 | 35 |
|---|----|-----|-----|-----|-----|-----|-----|
| | 40 | 45 | 50 | 55 | 60 | 70 | 80 |
| | 90 | 100 | 110 | 120 | 130 | 140 | 150 |

196 x 296

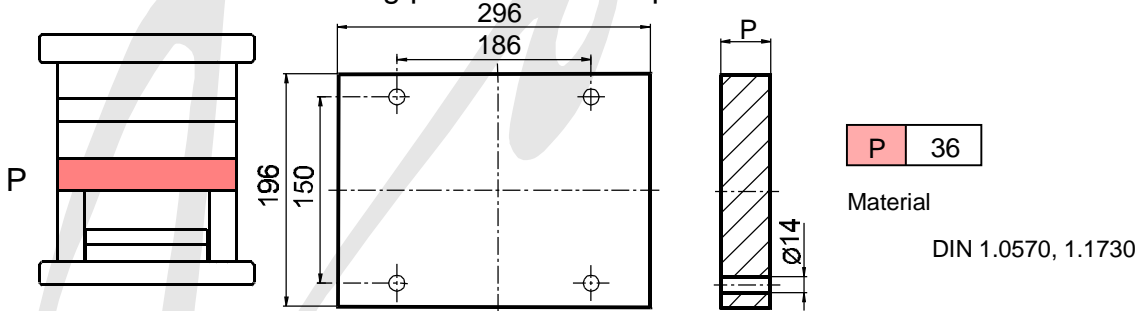
Placas de fijación / Clamping plate / Aufspannplatte



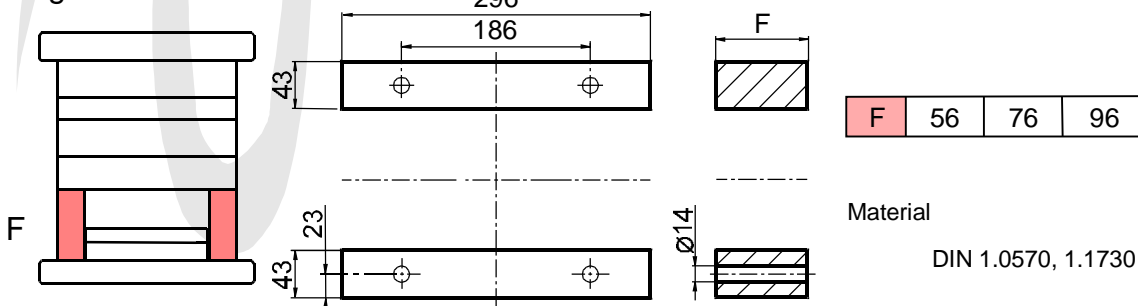
Placas alojamiento cavidad / Cavity plate / Formplatte



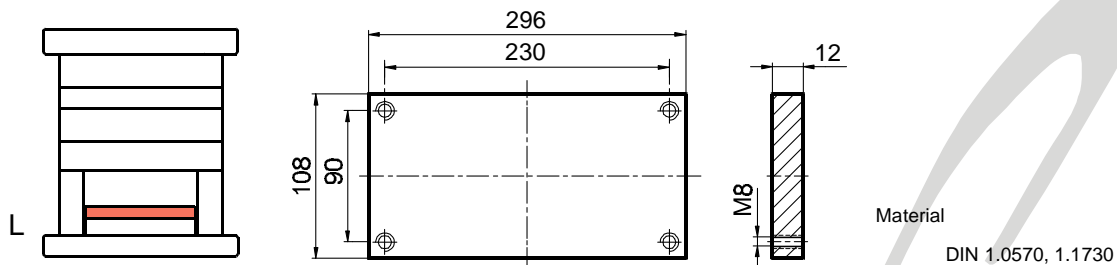
Placa intermedia / Backing plate / Zwischenplatte



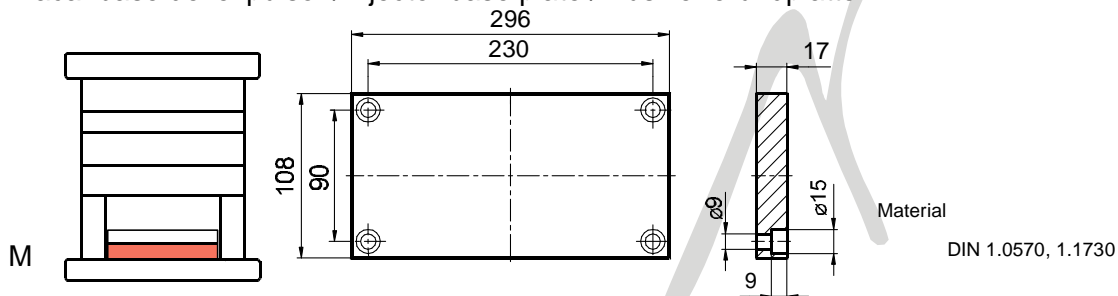
Regletas / Risers / Leisten



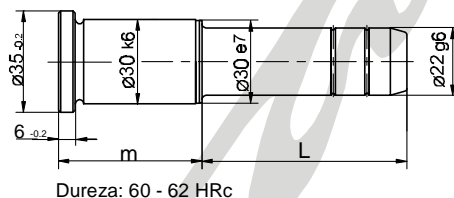
Placa soporte del expulsor / Ejector retainer plate / Auswerferplatte



Placa base del expulsor / Ejector base plate / Auswerferundplatte



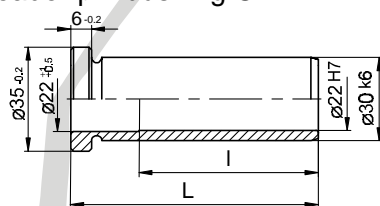
Guia para casquillo GC / Shoulder leader pin GC



| m | L | | | | | | | | |
|----|----|----|----|----|-----|-----|-----|-----|-----|
| | 36 | 45 | 50 | 70 | 100 | 125 | 150 | 175 | 200 |
| 26 | | | | | | | | | |
| 34 | | | | | | | | | |
| 44 | | | | | | | | | |
| 54 | | | | | | | | | |
| 64 | | | | | | | | | |
| 74 | | | | | | | | | |
| 94 | | | | | | | | | |

Material: DIN 1.7242

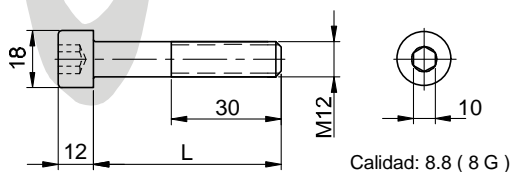
Casquillo CV / Leader pin bushing CV



| L | | | | | | | | |
|----|----|----|----|----|----|------|------|------|
| 17 | 21 | 26 | 35 | 45 | 55 | 65 | 75 | 95 |
| | | | | | | I=55 | I=55 | I=65 |

Material: DIN 1.7242

Tornillo cilíndrico TOG / Socket cap screw TOG

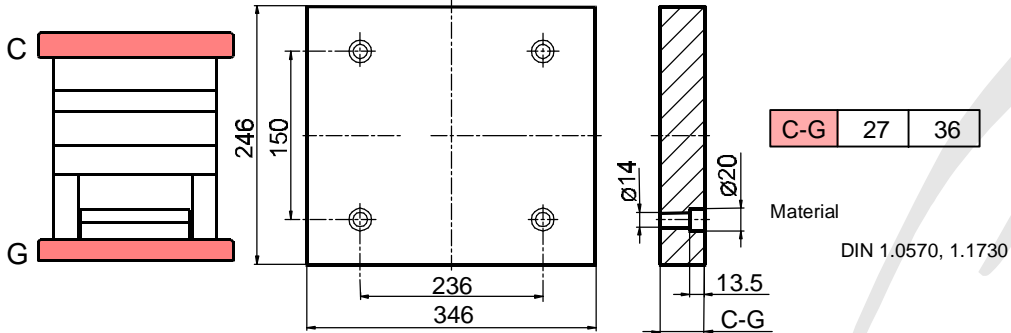


| L | 20 | 22 | 25 | 30 | 35 | 40 | 45 |
|---|-----|-----|-----|-----|-----|----|-----|
| | 50 | 55 | 60 | 70 | 80 | 90 | 100 |
| | 110 | 120 | 130 | 140 | 150 | | |

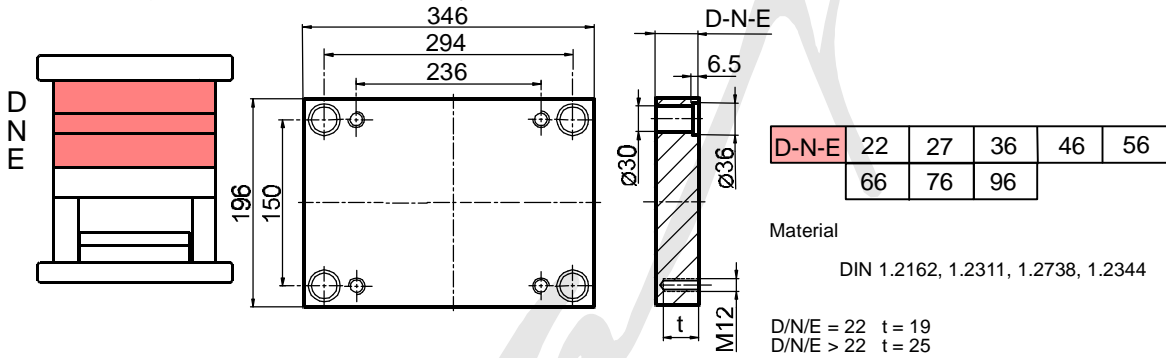
Resistencia a la tracción: 80 - 100 kg/mm²

196 x 346

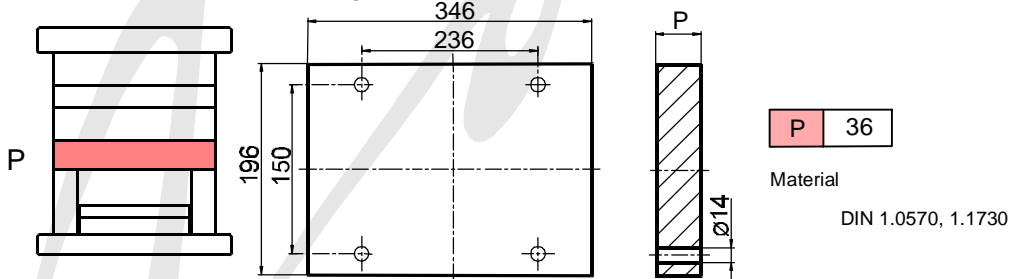
Placas de fijación / Clamping plate / Aufspannplatte



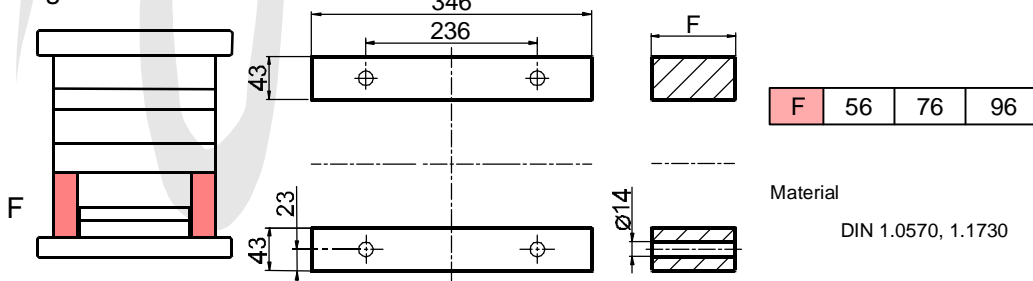
Placas alojamiento cavidad / Cavity plate / Formplatte



Placa intermedia / Backing plate / Zwischenplatte



Regletas / Risers / Leisten



Placa soporte del expulsor / Ejector retainer plate / Auswerferplatte

Material
DIN 1.0570, 1.1730

Placa base del expulsor / Ejector base plate / Auswerferundplatte

Material
DIN 1.0570, 1.1730

Guia para casquillo GC / Shoulder leader pin GC

| m | L | | | | | | | | |
|----|----|----|----|----|-----|-----|-----|-----|-----|
| | 36 | 45 | 50 | 70 | 100 | 125 | 150 | 175 | 200 |
| 26 | | | | | | | | | |
| 34 | | | | | | | | | |
| 44 | | | | | | | | | |
| 54 | | | | | | | | | |
| 64 | | | | | | | | | |
| 74 | | | | | | | | | |
| 94 | | | | | | | | | |

Material: DIN 1.7242 Dureza: 60 - 62 HRc

Casquillo CV / Leader pin bushing CV

| L | | | | | | | | |
|----|----|----|----|----|----|------|------|------|
| 17 | 21 | 26 | 35 | 45 | 55 | 65 | 75 | 95 |
| | | | | | | I=55 | I=55 | I=65 |

Material: DIN 1.7242 Dureza: 60 - 62 HRc

Tornillo cilíndrico TOG / Socket cap screw TOG

| L | 20 | 22 | 25 | 30 | 35 | 40 | 45 |
|---|-----|-----|-----|-----|-----|----|-----|
| | 50 | 55 | 60 | 70 | 80 | 90 | 100 |
| | 110 | 120 | 130 | 140 | 150 | | |

Calidad: 8.8 (8 G) Resistencia a la tracción: 80 - 100 kg/mm²

215 x 215

Placas de fijación / Clamping plate / Aufspannplatte

| | | |
|-----|----|----|
| C-G | 22 | 32 |
|-----|----|----|

Material
DIN 1.0570, 1.1730

Placas alojamiento cavidad / Cavity plate / Formplatte

| | | | | | |
|-------|----|----|----|----|----|
| D-N-E | 22 | 27 | 36 | 46 | 56 |
| | 66 | 76 | 96 | | |

Material
DIN 1.2162, 1.2311, 1.2738, 1.2344

D/N/E = 22 t = 19
D/N/E > 22 t = 25

Placa intermedia / Backing plate / Zwischenplatte

| | | |
|---|----|----|
| P | 22 | 32 |
|---|----|----|

Material
DIN 1.0570, 1.1730

Regletas / Risers / Leisten

| | | | |
|---|----|----|----|
| F | 50 | 70 | 90 |
|---|----|----|----|

| | | |
|---|----|----|
| R | 32 | 42 |
|---|----|----|

Material
DIN 1.0570, 1.1730

Placa soporte del expulsor / Ejector retainer plate / Auswerferplatte

| | | |
|---|-----|-----|
| J | 148 | 128 |
| T | 128 | 108 |

Material
DIN 1.0570, 1.1730

Placa base del expulsor / Ejector base plate / Auswerferplatte

| | | |
|---|-----|-----|
| J | 128 | 148 |
| T | 108 | 128 |

Material
DIN 1.0570, 1.1730

Guia para casquillo GC / Shoulder leader pin GC

| m | L | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|-----|-----|-----|
| | 18 | 26 | 36 | 45 | 50 | 65 | 70 | 90 | 100 | 125 | 150 |
| 20 | | | | | | | | | | | |
| 26 | | | | | | | | | | | |
| 34 | | | | | | | | | | | |
| 44 | | | | | | | | | | | |
| 54 | | | | | | | | | | | |
| 64 | | | | | | | | | | | |
| 74 | | | | | | | | | | | |
| 94 | | | | | | | | | | | |

Material: DIN 1.7242 Dureza: 60 - 62 HRc

Casquillo CV / Leader pin bushing CV

| L | | | | | | | | |
|----|----|----|----|----|----|----|------|------|
| 17 | 21 | 26 | 35 | 45 | 55 | 65 | 75 | 95 |
| | | | | | | | l=45 | l=55 |

Dureza: 60 - 62 HRc

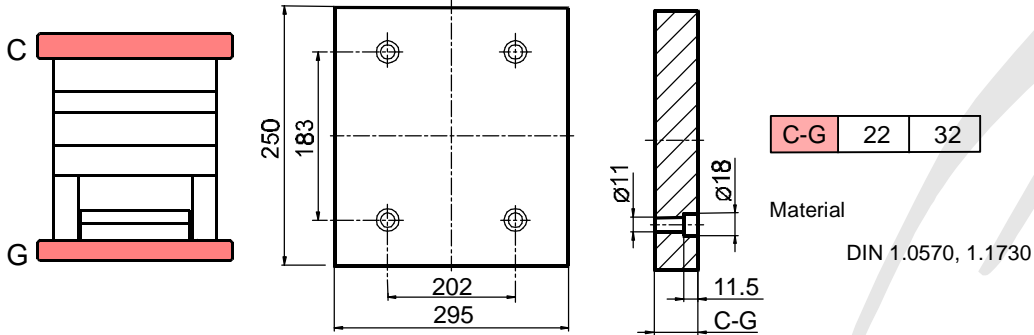
Tornillo cilíndrico TOG / Socket cap screw TOG

| | | | | | | | |
|---|----|-----|-----|-----|-----|-----|-----|
| L | 16 | 18 | 20 | 22 | 25 | 30 | 35 |
| | 40 | 45 | 50 | 55 | 60 | 70 | 80 |
| | 90 | 100 | 110 | 120 | 130 | 140 | 150 |

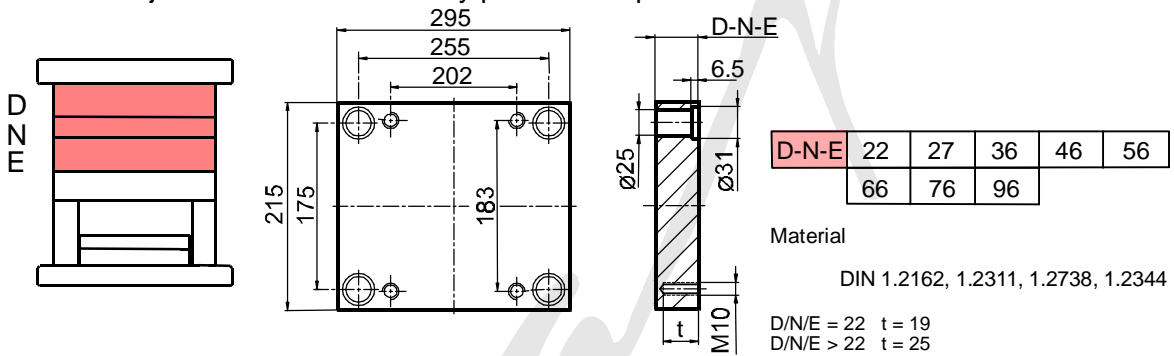
Calidad: 8.8 (8 G) Resistencia a la tracción: 80 - 100 kg/mm²

215 x 295

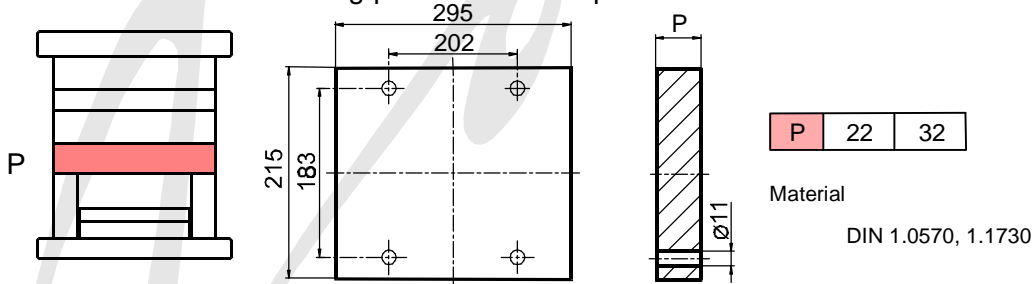
Placas de fijación / Clamping plate / Aufspannplatte



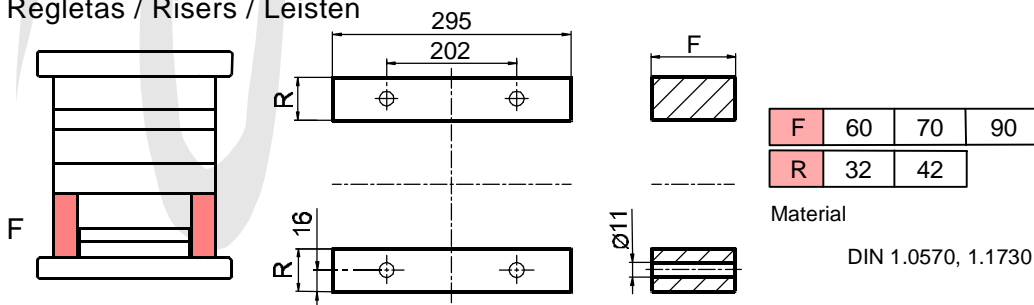
Placas alojamiento cavidad / Cavity plate / Formplatte



Placa intermedia / Backing plate / Zwischenplatte



Regletas / Risers / Leisten



Placa soporte del expulsor / Ejector retainer plate / Auswerferplatte

| | | |
|---|-----|-----|
| J | 148 | 128 |
| T | 128 | 108 |

Material
DIN 1.0570, 1.1730

Placa base del expulsor / Ejector base plate / Auswerferplatte

| | | |
|---|-----|-----|
| J | 148 | 128 |
| T | 128 | 108 |

Material
DIN 1.0570, 1.1730

Guia para casquillo GC / Shoulder leader pin GC

Material: DIN 1.7242 Dureza: 60 - 62 HRc

| m | L | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|-----|-----|-----|
| | 18 | 26 | 36 | 45 | 50 | 65 | 70 | 90 | 100 | 125 | 150 |
| 20 | | | | | | | | | | | |
| 26 | | | | | | | | | | | |
| 34 | | | | | | | | | | | |
| 44 | | | | | | | | | | | |
| 54 | | | | | | | | | | | |
| 64 | | | | | | | | | | | |
| 74 | | | | | | | | | | | |
| 94 | | | | | | | | | | | |

Casquillo CV / Leader pin bushing CV

Material: DIN 1.7242

| L | | | | | | | | |
|----|----|----|----|----|----|----|------|------|
| 17 | 21 | 26 | 35 | 45 | 55 | 65 | 75 | 95 |
| | | | | | | | l=45 | l=65 |

Dureza: 60 - 62 HRc

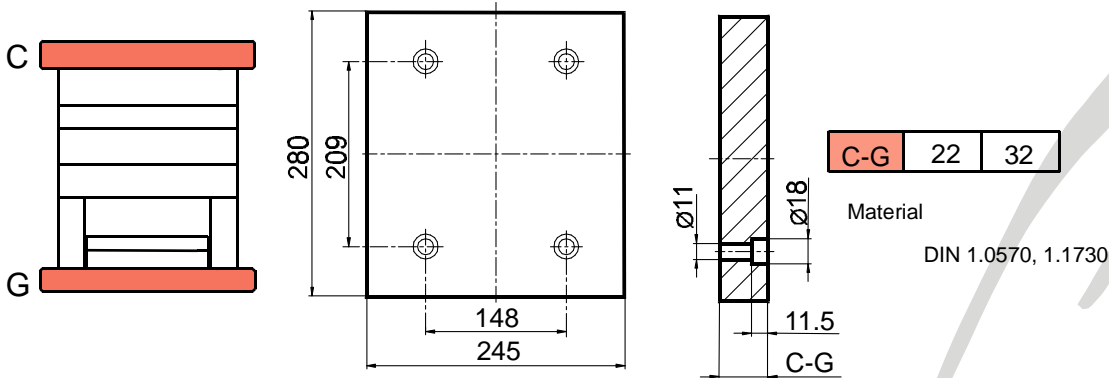
Tornillo cilíndrico TOG / Socket cap screw TOG

Calidad: 8.8 (8 G) Resistencia a la tracción: 80 - 100 kg/mm²

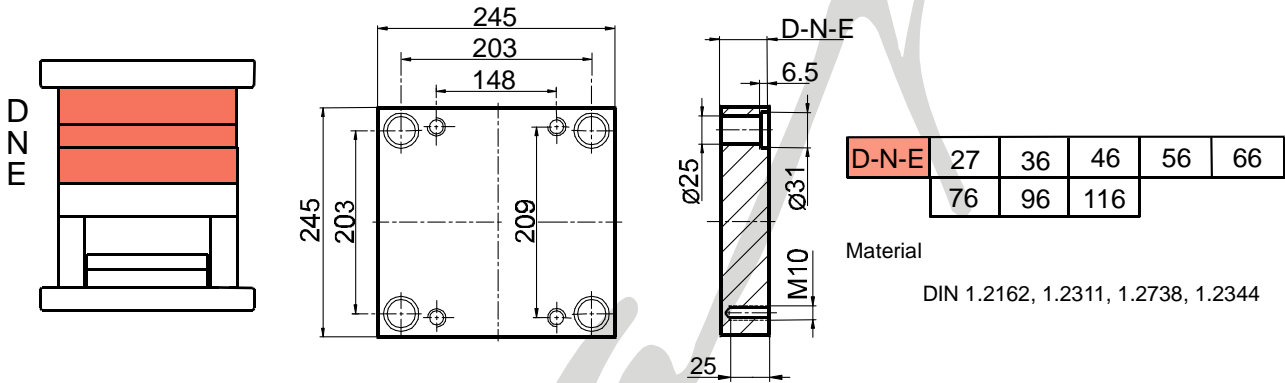
| | | | | | | | |
|---|----|-----|-----|-----|-----|-----|-----|
| L | 16 | 18 | 20 | 22 | 25 | 30 | 35 |
| | 40 | 45 | 50 | 55 | 60 | 70 | 80 |
| | 90 | 100 | 110 | 120 | 130 | 140 | 150 |

245 x 245

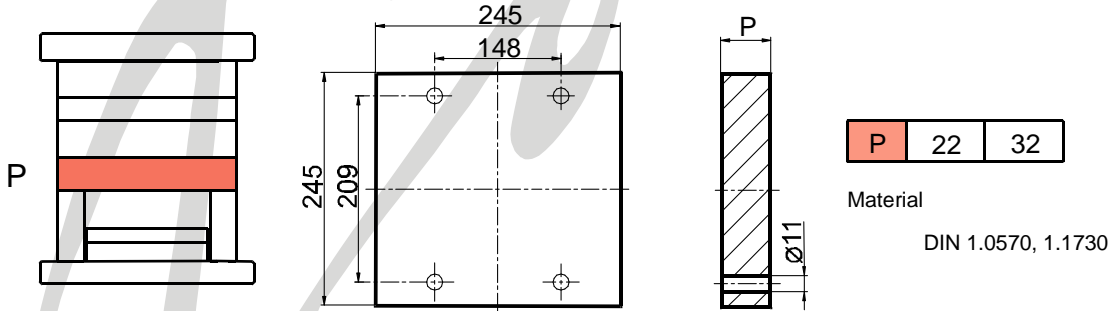
Placas de fijación / Clamping plate / Aufspannplatte



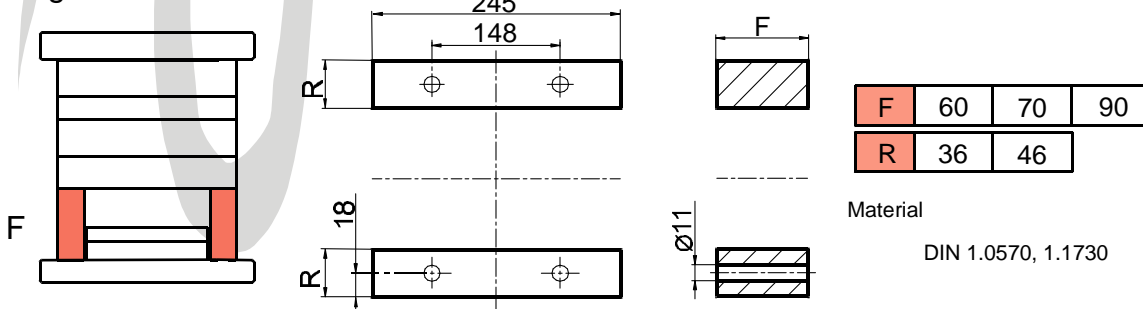
Placas alojamiento cavidad / Cavity plate / Formplatte



Placa intermedia / Backing plate / Zwischenplatte



Regletas / Risers / Leisten



Placa soporte del expulsor / Ejector retainer plate / Auswerferplatte

| | | |
|---|-----|-----|
| J | 150 | 170 |
| T | 130 | 150 |

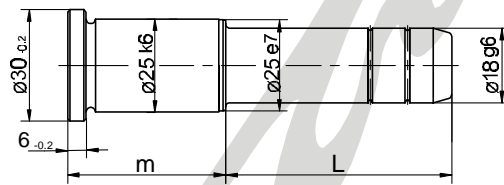
Material
DIN 1.0570, 1.1730

Placa base del expulsor / Ejector base plate / Auswerferplatte

| | | |
|---|-----|-----|
| J | 150 | 170 |
| T | 130 | 150 |

Material
DIN 1.0570, 1.1730

Guia para casquillo GC / Shoulder leader pin GC

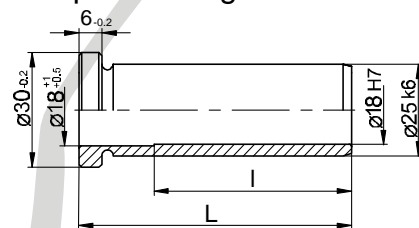


Material : DIN 1.7264

Dureza: 60 - 62 HRc

| m | L | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|-----|-----|-----|
| | 18 | 26 | 36 | 45 | 50 | 65 | 70 | 90 | 100 | 125 | 150 |
| 26 | | | | | | | | | | | |
| 34 | | | | | | | | | | | |
| 44 | | | | | | | | | | | |
| 54 | | | | | | | | | | | |
| 64 | | | | | | | | | | | |
| 74 | | | | | | | | | | | |
| 94 | | | | | | | | | | | |

Casquillo CV / Leader pin bushing CV

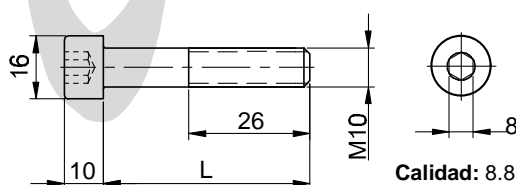


Material : DIN 1.7264

Dureza: 60 - 62 HRc

| L | | | | | | | | |
|----|----|----|----|----|----|----|------|------|
| 17 | 21 | 26 | 35 | 45 | 55 | 65 | 75 | 95 |
| | | | | | | | l=45 | l=65 |

Tornillo cilíndrico TOG / Socket cap screw TOG



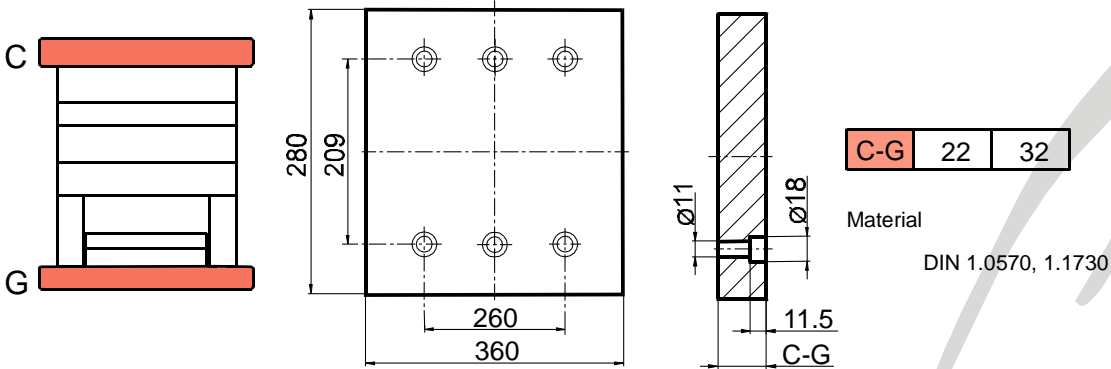
Calidad: 8.8 (8 G)

Resistencia a la tracción: 80 - 100 kg/mm²

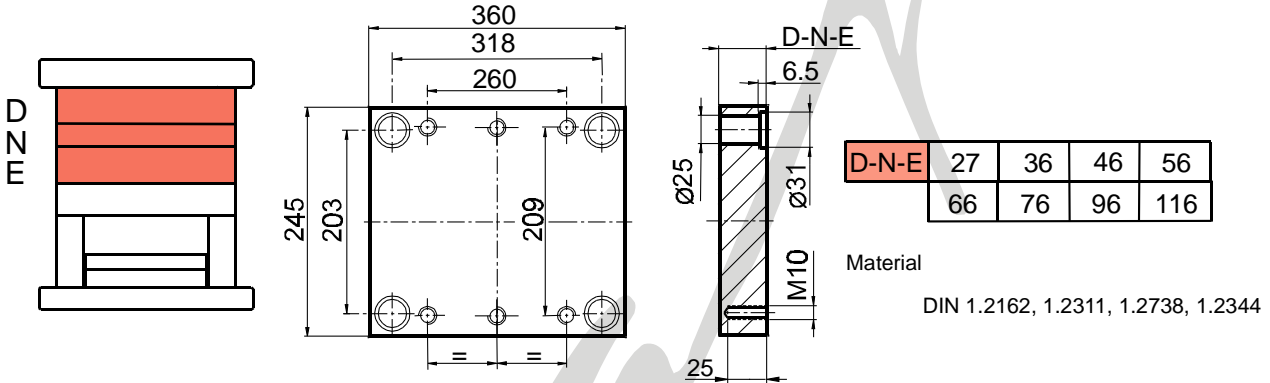
| L | 16 | 18 | 20 | 22 | 25 | 30 | 35 |
|---|----|-----|-----|-----|-----|-----|-----|
| | 40 | 45 | | 55 | 60 | 70 | 80 |
| | 90 | 100 | 110 | 120 | 130 | 140 | 150 |

245 x 360

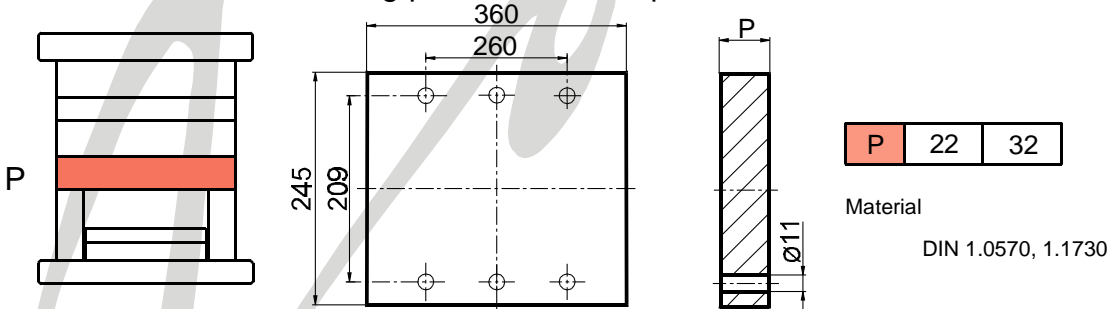
Placas de fijación / Clamping plate / Aufspannplatte



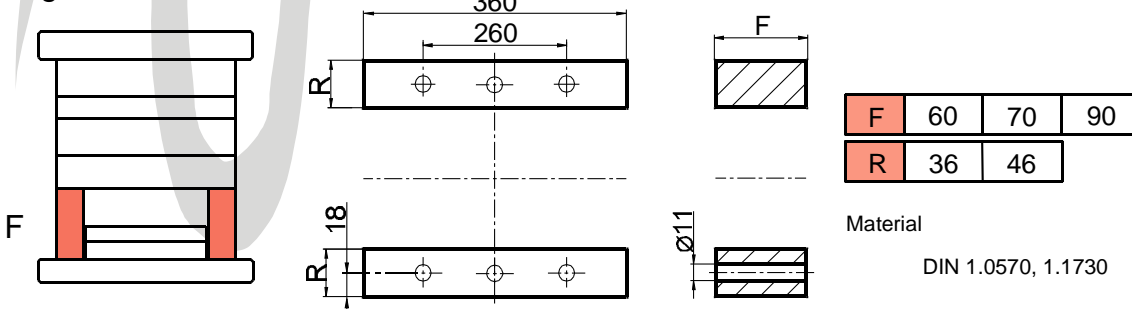
Placas alojamiento cavidad / Cavity plate / Formplatte



Placa intermedia / Backing plate / Zwischenplatte

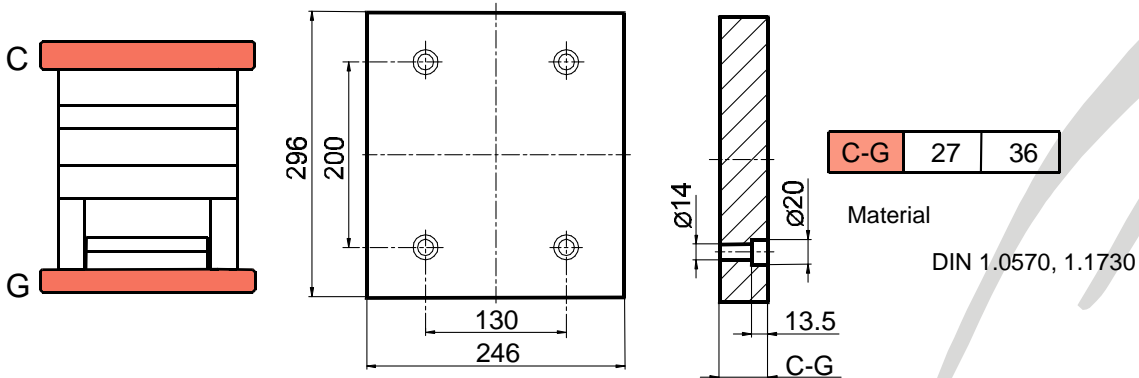


Regletas / Risers / Leisten

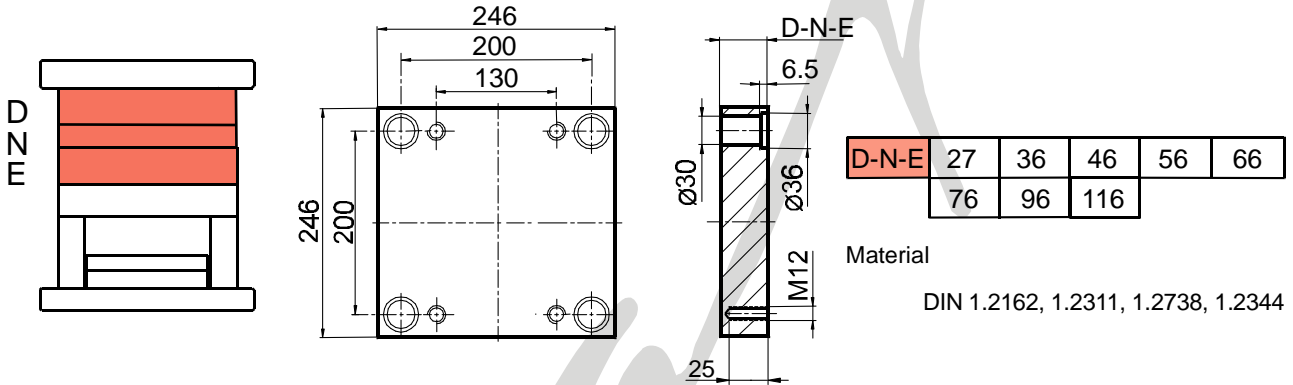


246 x 246

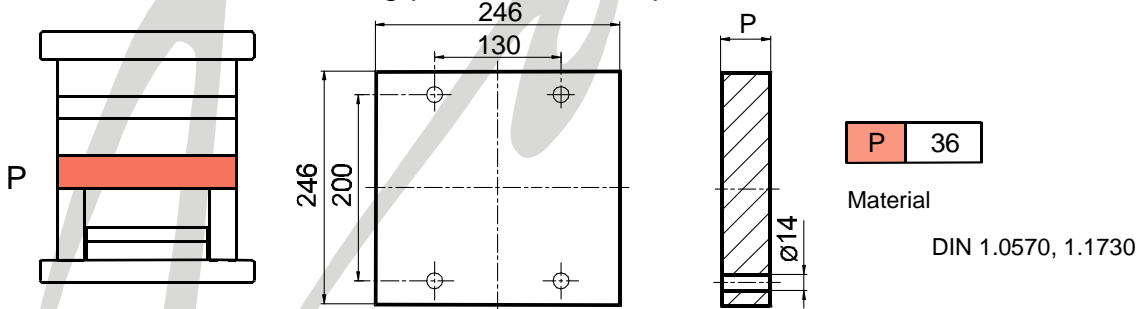
Placas de fijación / Clamping plate / Aufspannplatte



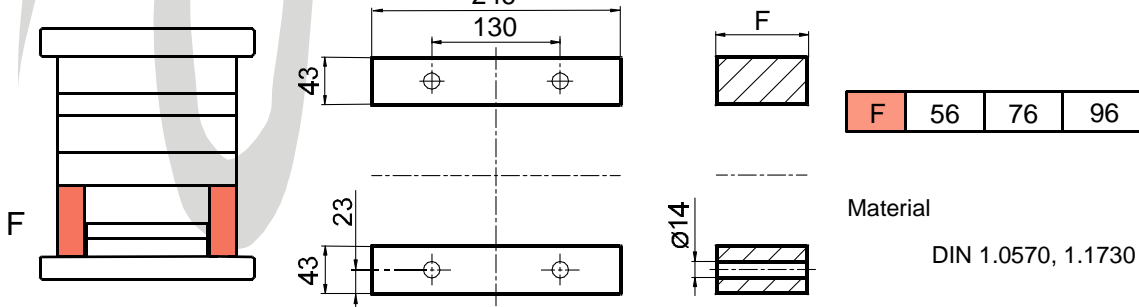
Placas alojamiento cavidad / Cavity plate / Formplatte



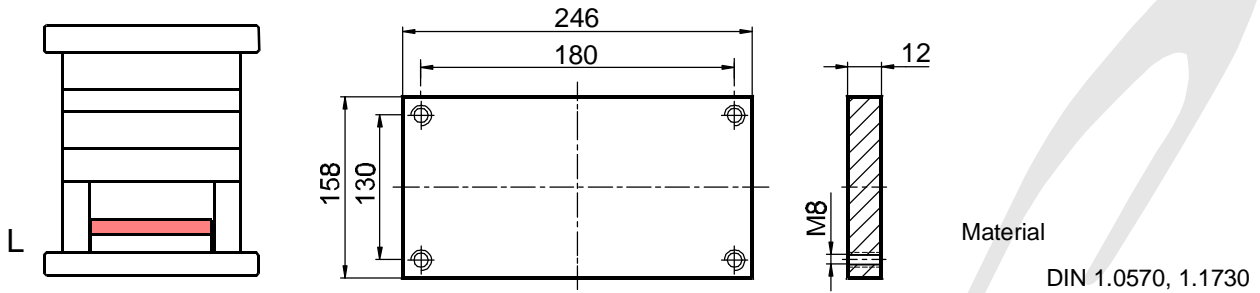
Placa intermedia / Backing plate / Zwischenplatte



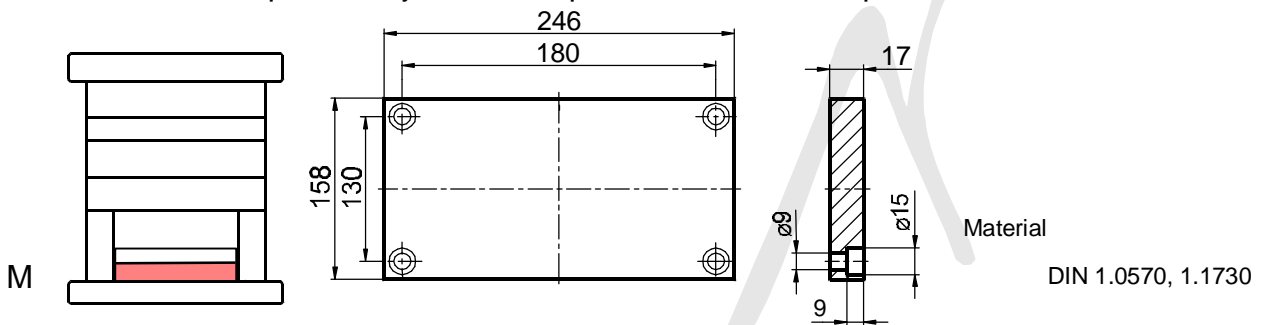
Regletas / Risers / Leisten



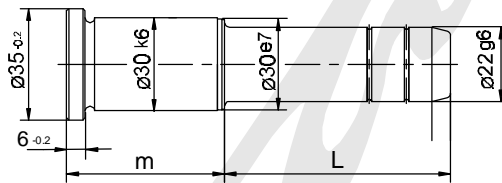
Placa soporte del expulsor / Ejector retainer plate / Auswerferplatte



Placa base del expulsor / Ejector base plate / Auswerferplatte



Guia para casquillo GC / Shoulder leader pin GC

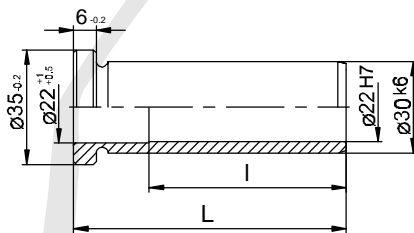


Dureza: 60 - 62 HRc

Material: DIN 1.7242

| m | L | | | | | | | | |
|----|----|----|----|----|-----|-----|-----|-----|-----|
| | 36 | 45 | 50 | 70 | 100 | 125 | 150 | 175 | 200 |
| 26 | | | | | | | | | |
| 34 | | | | | | | | | |
| 44 | | | | | | | | | |
| 54 | | | | | | | | | |
| 64 | | | | | | | | | |
| 74 | | | | | | | | | |
| 94 | | | | | | | | | |

Casquillo CV / Leader pin bushing CV

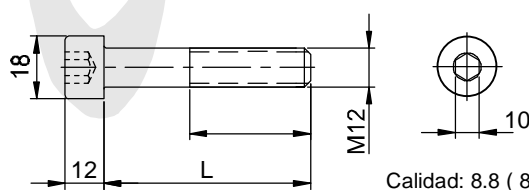


Material: DIN 1.7242

Dureza: 60 - 62 HRc

| L | | | | | | | | |
|----|----|----|----|----|----|------|------|------|
| 17 | 21 | 26 | 35 | 45 | 55 | 65 | 75 | 95 |
| | | | | | | I=55 | I=55 | I=65 |

Tornillo cilíndrico TOG / Socket cap screw TOG



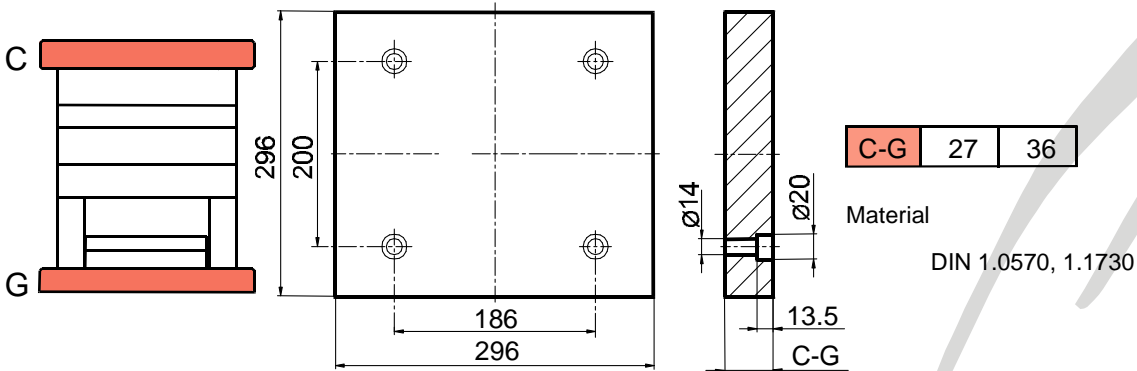
Calidad: 8.8 (8 G)

Resistencia a la tracción: 80 - 100 kg/mm²

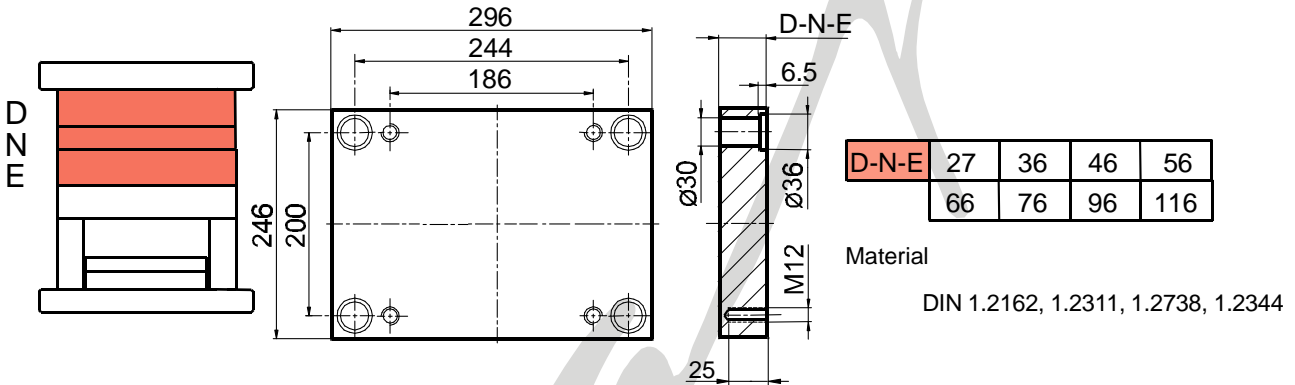
| | | | | | | | |
|---|-----|-----|-----|-----|-----|----|-----|
| L | 20 | 22 | 25 | 30 | 35 | 40 | 45 |
| | 50 | 55 | 60 | 70 | 80 | 90 | 100 |
| | 110 | 120 | 130 | 140 | 150 | | |

246 x 296

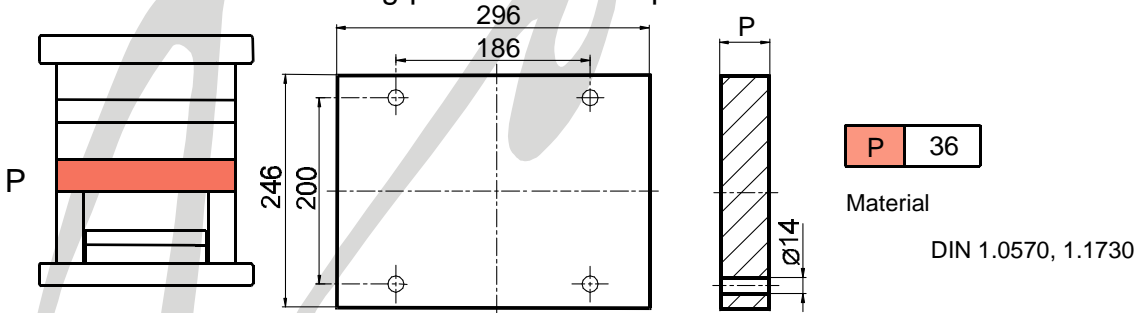
Placas de fijación / Clamping plate / Aufspannplatte



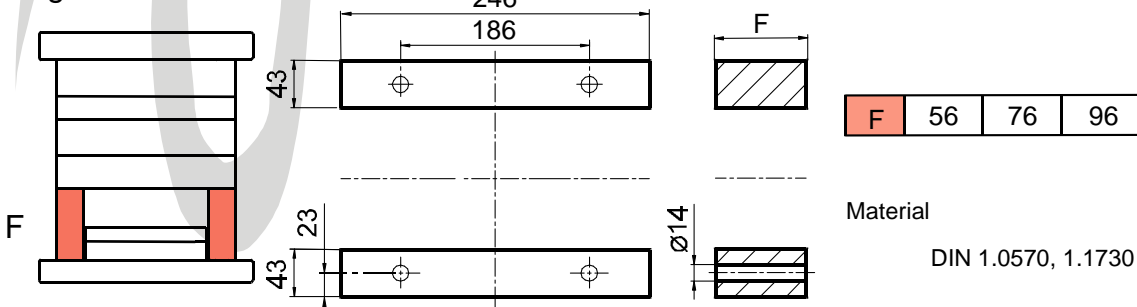
Placas alojamiento cavidad / Cavity plate / Formplatte



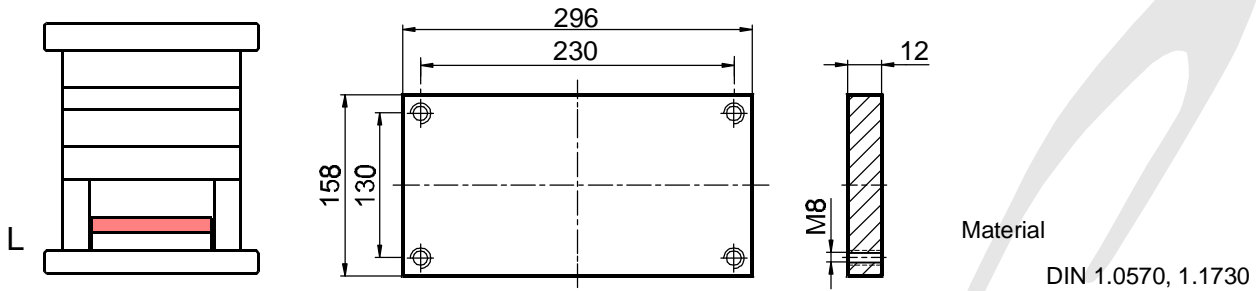
Placa intermedia / Backing plate / Zwischenplatte



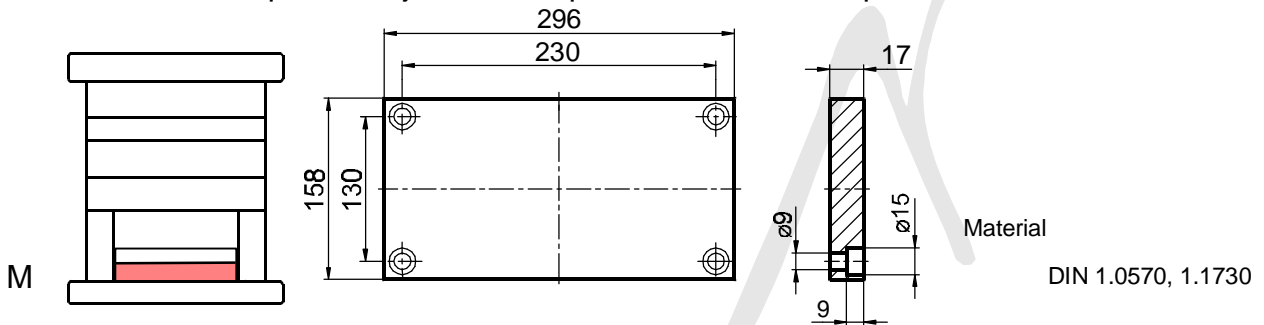
Regletas / Risers / Leisten



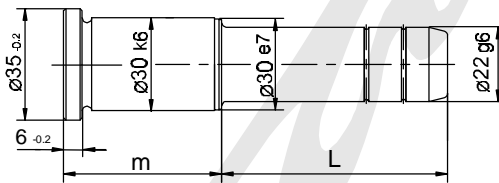
Placa soporte del expulsor / Ejector retainer plate / Auswerferplatte



Placa base del expulsor / Ejector base plate / Auswerferplatte



Guia para casquillo GC / Shoulder leader pin GC

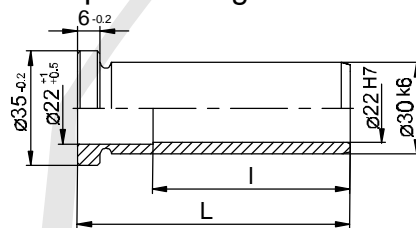


Material: DIN 1.7242

Dureza: 60 - 62 HRc

| m | L | | | | | | | | |
|----|----|----|----|----|-----|-----|-----|-----|-----|
| | 36 | 45 | 50 | 70 | 100 | 125 | 150 | 175 | 200 |
| 26 | | | | | | | | | |
| 34 | | | | | | | | | |
| 44 | | | | | | | | | |
| 54 | | | | | | | | | |
| 64 | | | | | | | | | |
| 74 | | | | | | | | | |
| 94 | | | | | | | | | |

Casquillo CV / Leader pin bushing CV

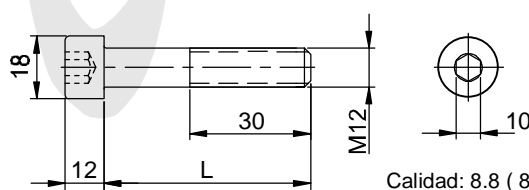


Material : DIN 1.7242

Dureza: 60 - 62 HRc

| L | | | | | | | | |
|----|----|----|----|----|----|------|------|------|
| 17 | 21 | 26 | 35 | 45 | 55 | 65 | 75 | 95 |
| | | | | | | l=55 | l=55 | l=65 |

Tornillo cilíndrico TOG / Socket cap screw TOG



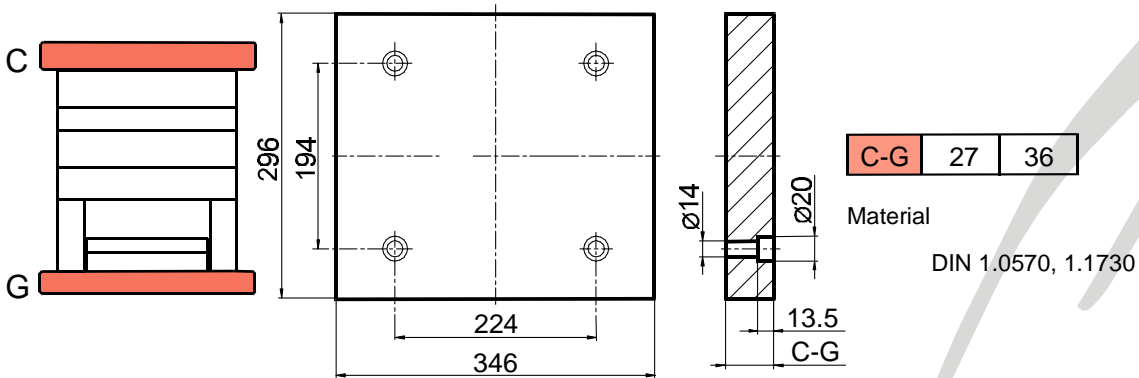
Calidad: 8.8 (8 G)

Resistencia a la tracción: 80 - 100 kg/mm²

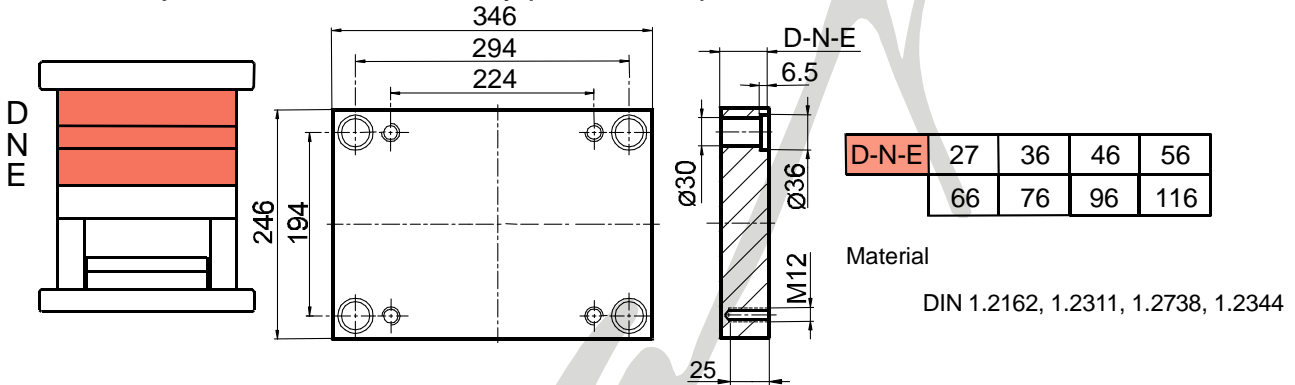
| L | 20 | 22 | 25 | 30 | 35 | 40 | 45 |
|---|-----|-----|-----|-----|-----|----|-----|
| | 50 | 55 | 60 | 70 | 80 | 90 | 100 |
| | 110 | 120 | 130 | 140 | 150 | | |

246 x 346

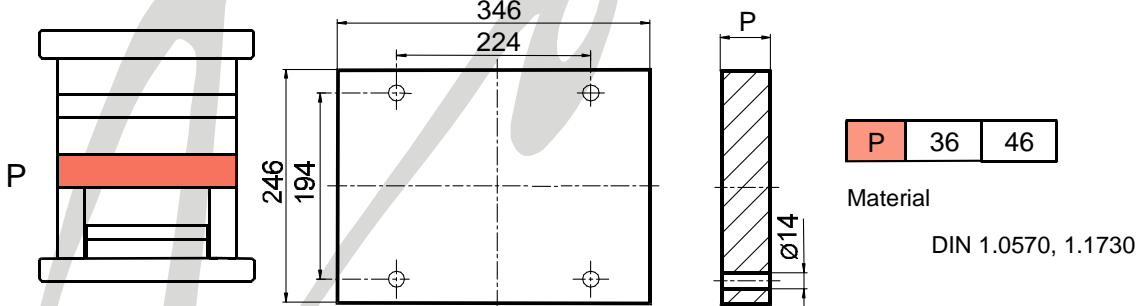
Placas de fijación / Clamping plate / Aufspannplatte



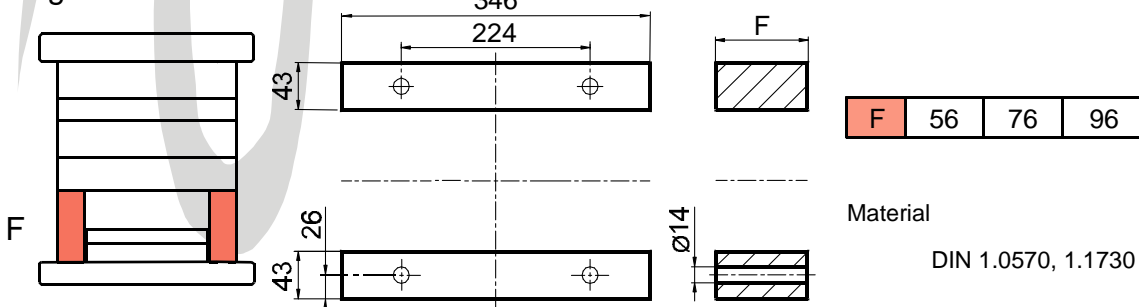
Placas alojamiento cavidad / Cavity plate / Formplatte



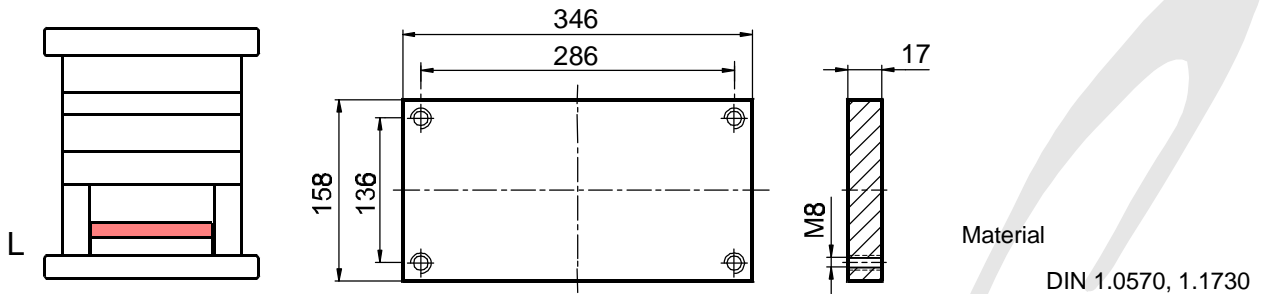
Placa intermedia / Backing plate / Zwischenplatte



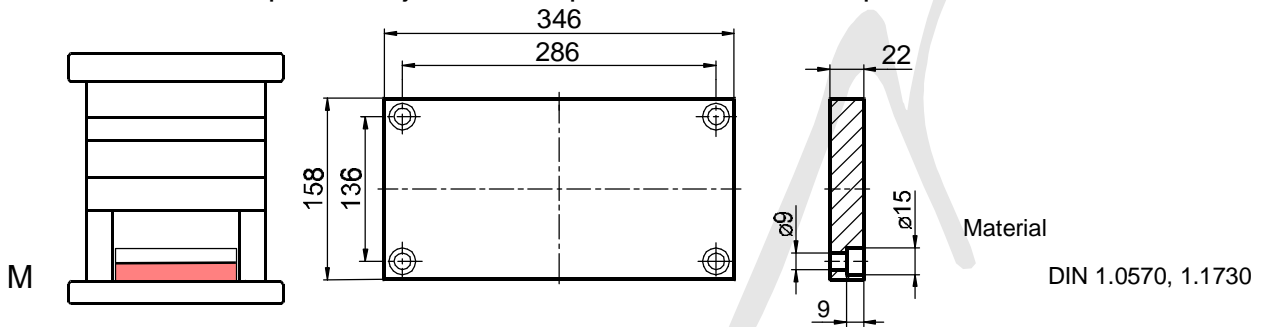
Regletas / Risers / Leisten



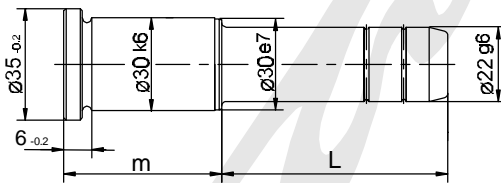
Placa soporte del expulsor / Ejector retainer plate / Auswerferplatte



Placa base del expulsor / Ejector base plate / Auswerferplatte



Guia para casquillo GC / Shoulder leader pin GC

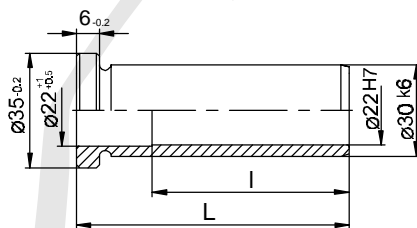


Material: DIN 1.7242

Dureza: 60 - 62 HRc

| m | L | | | | | | | | |
|----|----|----|----|----|-----|-----|-----|-----|-----|
| | 36 | 45 | 50 | 70 | 100 | 125 | 150 | 175 | 200 |
| 26 | | | | | | | | | |
| 34 | | | | | | | | | |
| 44 | | | | | | | | | |
| 54 | | | | | | | | | |
| 64 | | | | | | | | | |
| 74 | | | | | | | | | |
| 94 | | | | | | | | | |

Casquillo CV / Leader pin bushing CV

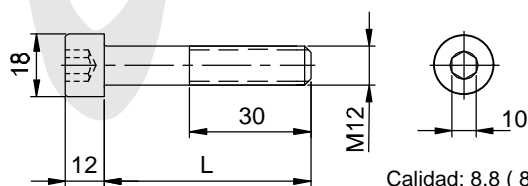


Material: DIN 1.7242

Dureza: 60 - 62 HRc

| L | | | | | | | | |
|----|----|----|----|----|----|------|------|------|
| 17 | 21 | 26 | 35 | 45 | 55 | 65 | 75 | 95 |
| | | | | | | l=55 | l=55 | l=65 |

Tornillo cilíndrico TOG / Socket cap screw TOG



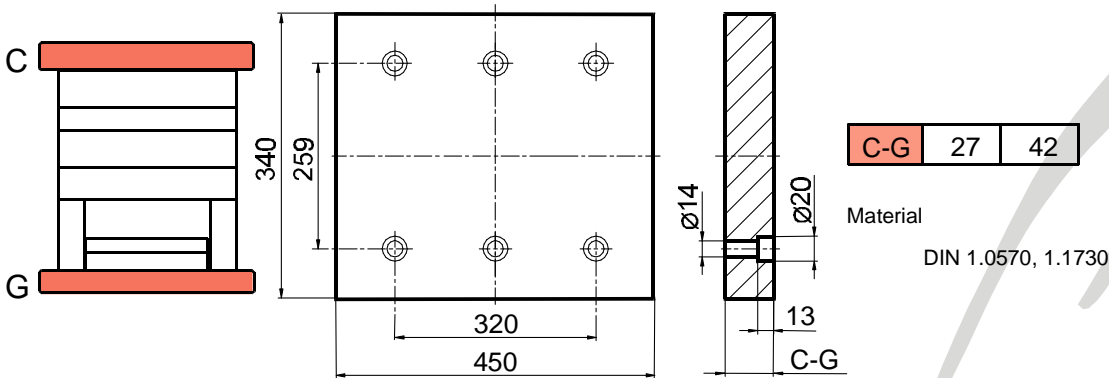
Calidad: 8.8 (8 G)

Resistencia a la tracción: 80 - 100 kg/mm²

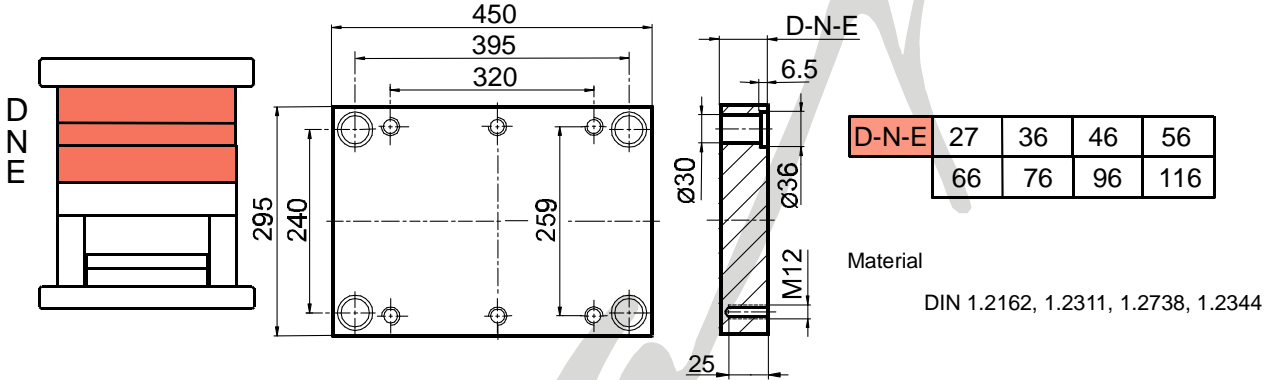
| L | 20 | 22 | 25 | 30 | 35 | 40 | 45 |
|---|-----|-----|-----|-----|-----|----|-----|
| | 50 | 55 | 60 | 70 | 80 | 90 | 100 |
| | 110 | 120 | 130 | 140 | 150 | | |

295 x 450

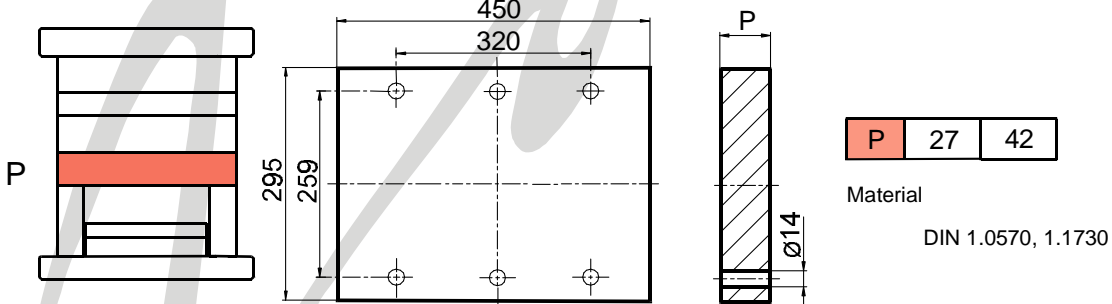
Placas de fijación / Clamping plate / Aufspannplatte



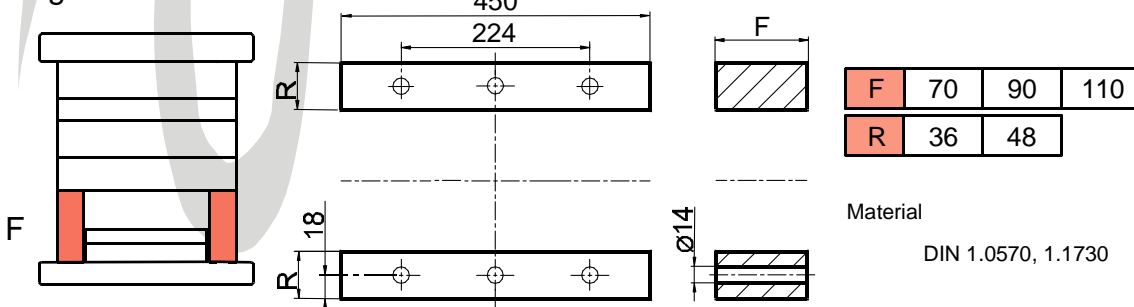
Placas alojamiento cavidad / Cavity plate / Formplatte



Placa intermedia / Backing plate / Zwischenplatte



Regletas / Risers / Leisten



Placa soporte del expulsor / Ejector retainer plate / Auswerferplatte

| | | |
|---|-----|-----|
| J | 196 | 220 |
| T | 168 | 192 |

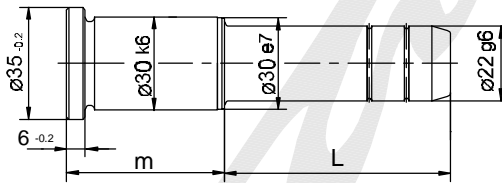
Material
DIN 1.0570, 1.1730

Placa base del expulsor / Ejector base plate / Auswerferplatte

| | | |
|---|-----|-----|
| J | 196 | 220 |
| T | 168 | 192 |

Material
DIN 1.0570, 1.1730

Guia para casquillo GC / Shoulder leader pin GC

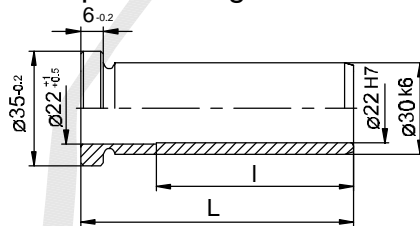


| m | L | | | | | | | | |
|----|----|----|----|----|-----|-----|-----|-----|-----|
| | 36 | 45 | 50 | 70 | 100 | 125 | 150 | 175 | 200 |
| 26 | | | | | | | | | |
| 34 | | | | | | | | | |
| 44 | | | | | | | | | |
| 54 | | | | | | | | | |
| 64 | | | | | | | | | |
| 74 | | | | | | | | | |
| 94 | | | | | | | | | |

Material : DIN 1.7242

Dureza: 60 - 62 HRc

Casquillo CV / Leader pin bushing CV

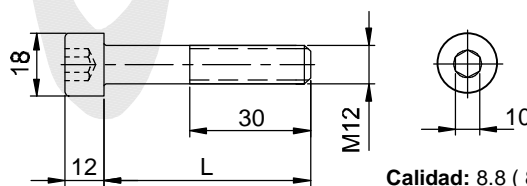


| L | | | | | | | | |
|----|----|----|----|----|----|------|------|------|
| 17 | 21 | 26 | 35 | 45 | 55 | 65 | 75 | 95 |
| | | | | | | I=55 | I=55 | I=65 |

Dureza: 60 - 62 HRc

Material : DIN 1.7242

Tornillo cilíndrico TOG / Socket cap screw TOG



| | | | | | | | |
|---|-----|-----|-----|-----|-----|----|-----|
| L | 20 | 22 | 25 | 30 | 35 | 40 | 45 |
| | 50 | 55 | 60 | 70 | 80 | 90 | 100 |
| | 110 | 120 | 130 | 140 | 150 | | |

Calidad: 8.8 (8 G)

Resistencia a la tracción: 80 - 100 kg/mm²

296 x 296

Placas de fijación / Clamping plate / Aufspannplatte

| | | |
|-----|----|----|
| C-G | 27 | 36 |
|-----|----|----|

Material
DIN 1.0570, 1.1730

Placas alojamiento cavidad / Cavity plate / Formplatte

| | | | | |
|-------|----|----|----|-----|
| D-N-E | 27 | 36 | 46 | 56 |
| | 66 | 76 | 96 | 116 |

Material
DIN 1.2162, 1.2311, 1.2738, 1.2344

Placa intermedia / Backing plate / Zwischenplatte

| | | |
|---|----|----|
| P | 36 | 46 |
|---|----|----|

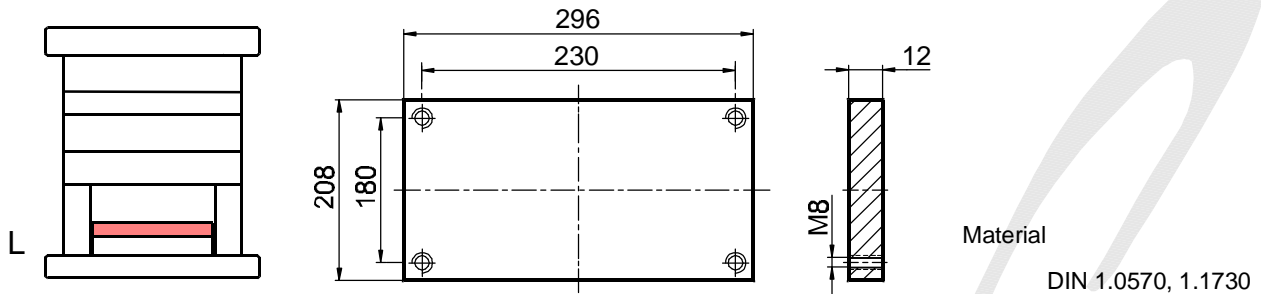
Material
DIN 1.0570, 1.1730

Regletas / Risers / Leisten

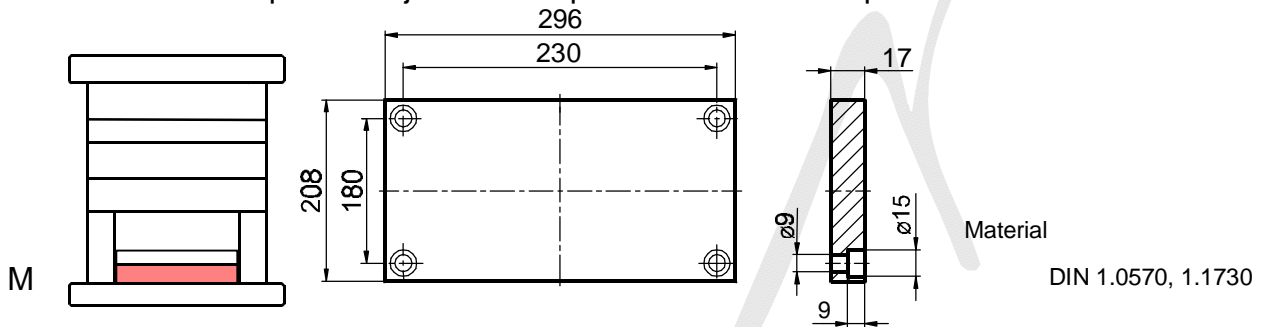
| | | | |
|---|----|----|----|
| F | 56 | 76 | 96 |
|---|----|----|----|

Material
DIN 1.0570, 1.1730

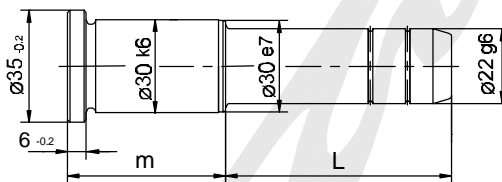
Placa soporte del expulsor / Ejector retainer plate / Auswerferplatte



Placa base del expulsor / Ejector base plate / Auswerferundplatte



Guia para casquillo GC / Shoulder leader pin GC

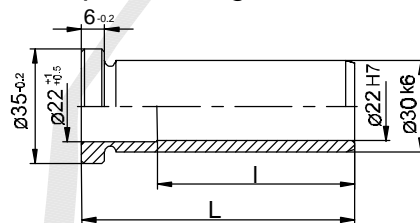


| m | L | | | | | | | | |
|----|----|----|----|----|-----|-----|-----|-----|-----|
| | 36 | 45 | 50 | 70 | 100 | 125 | 150 | 175 | 200 |
| 26 | | | | | | | | | |
| 34 | | | | | | | | | |
| 44 | | | | | | | | | |
| 54 | | | | | | | | | |
| 64 | | | | | | | | | |
| 74 | | | | | | | | | |
| 94 | | | | | | | | | |

Material: DIN 1.7242

Dureza: 60 - 62 HRc

Casquillo CV / Leader pin bushing CV

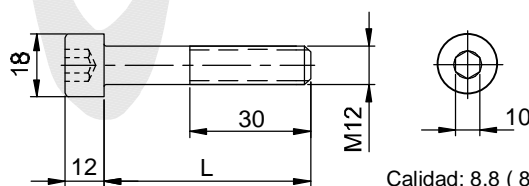


| L | | | | | | | | |
|----|----|----|----|----|----|------|------|------|
| 17 | 21 | 26 | 35 | 45 | 55 | 65 | 75 | 95 |
| | | | | | | I=55 | I=55 | I=65 |

Material: DIN 1.7242

Dureza: 60 - 62 HRc

Tornillo cilíndrico TOG / Socket cap screw TOG



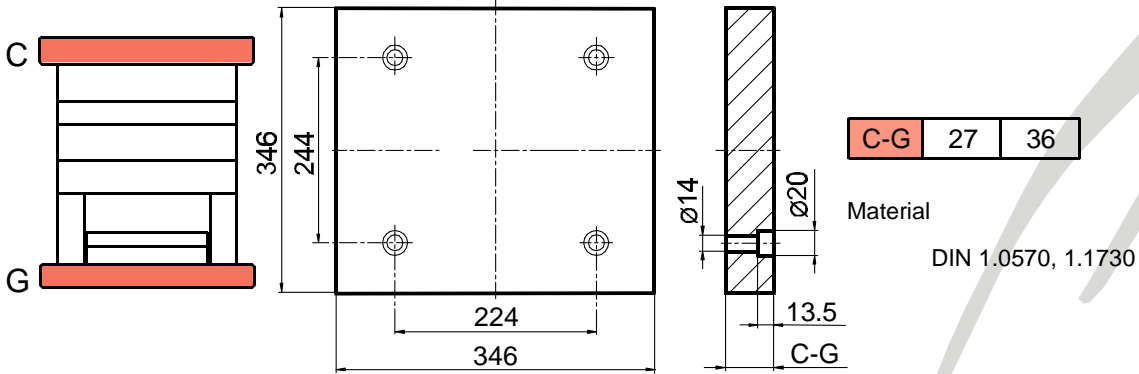
| | | | | | | | |
|---|-----|-----|-----|-----|-----|----|-----|
| L | 20 | 22 | 25 | 30 | 35 | 40 | 45 |
| | 50 | 55 | 60 | 70 | 80 | 90 | 100 |
| | 110 | 120 | 130 | 140 | 150 | | |

Calidad: 8.8 (8 G)

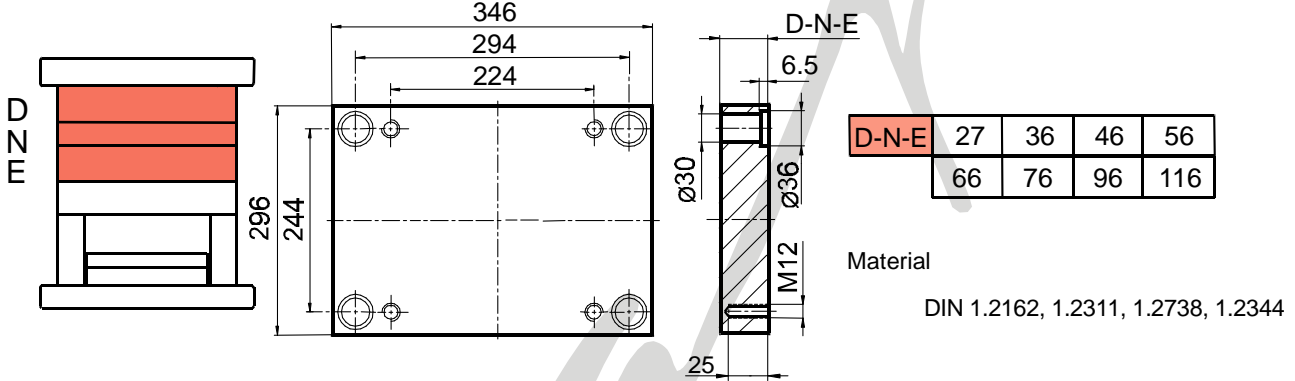
Resistencia a la tracción: 80 - 100 kg/mm²

296 x 346

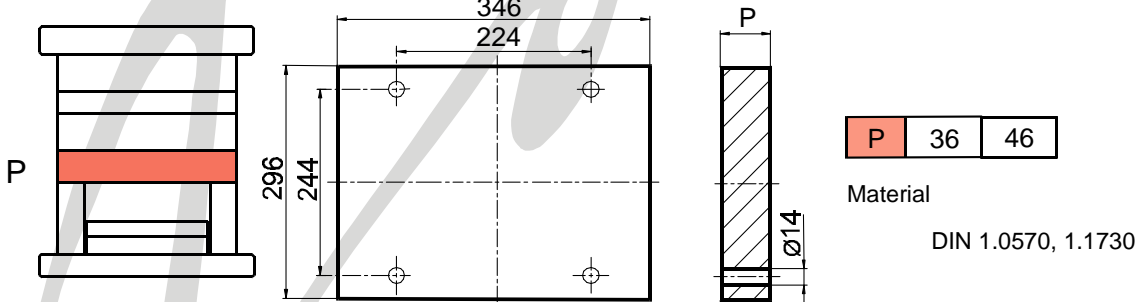
Placas de fijación / Clamping plate / Aufspannplatte



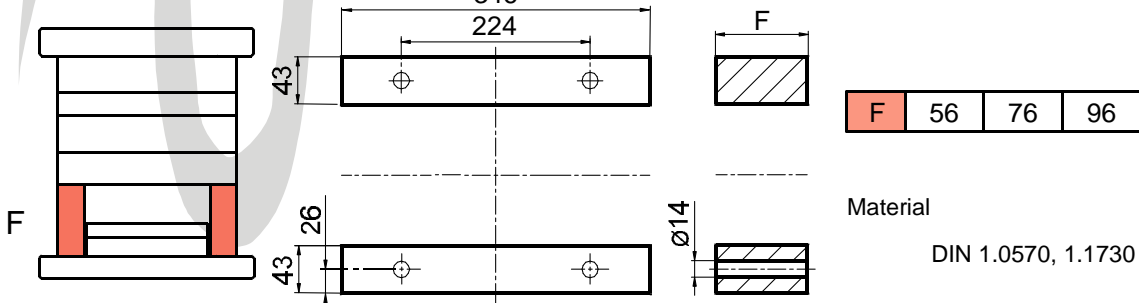
Placas alojamiento cavidad / Cavity plate / Formplatte



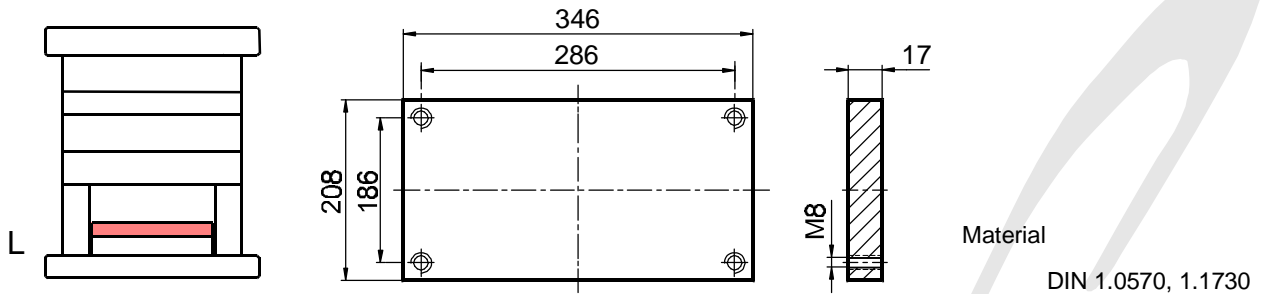
Placa intermedia / Backing plate / Zwischenplatte



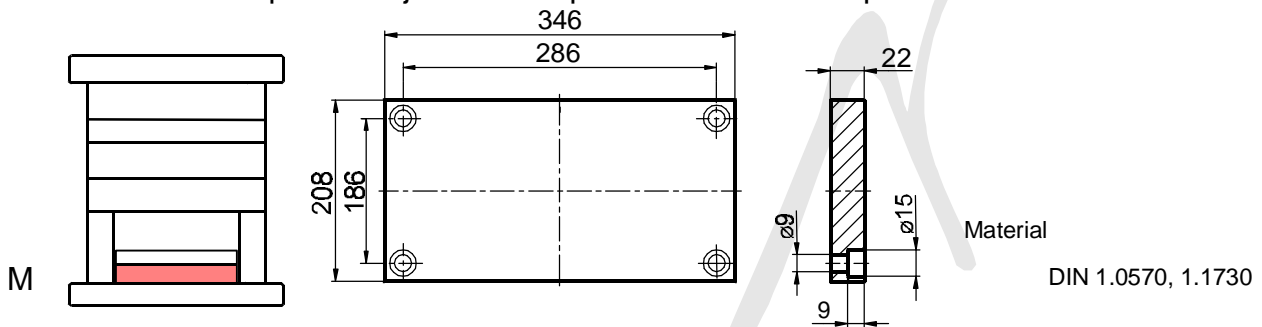
Regletas / Risers / Leisten



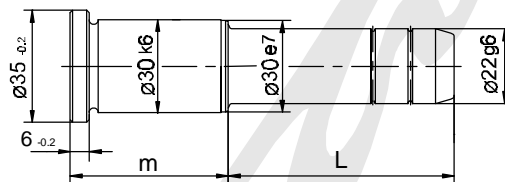
Placa soporte del expulsor / Ejector retainer plate / Auswerferplatte



Placa base del expulsor / Ejector base plate / Auswerferundplatte



Guia para casquillo GC / Shoulder leader pin GC

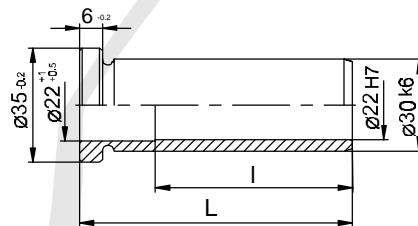


Material : DIN 1.7242

Dureza: 60 - 62 HRc

| m | L | | | | | | | | |
|----|----|----|----|----|-----|-----|-----|-----|-----|
| | 36 | 45 | 50 | 70 | 100 | 125 | 150 | 175 | 200 |
| 26 | | | | | | | | | |
| 34 | | | | | | | | | |
| 44 | | | | | | | | | |
| 54 | | | | | | | | | |
| 64 | | | | | | | | | |
| 74 | | | | | | | | | |
| 94 | | | | | | | | | |

Casquillo CV / Leader pin bushing CV

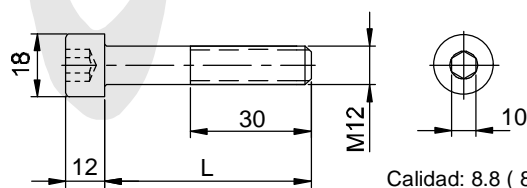


Material : DIN 1.7242

Dureza: 60 - 62 HRc

| L | | | | | | | | |
|----|----|----|----|----|----|------|------|------|
| 17 | 21 | 26 | 35 | 45 | 55 | 65 | 75 | 95 |
| | | | | | | l=55 | l=55 | l=65 |

Tornillo cilíndrico TOG / Socket cap screw TOG

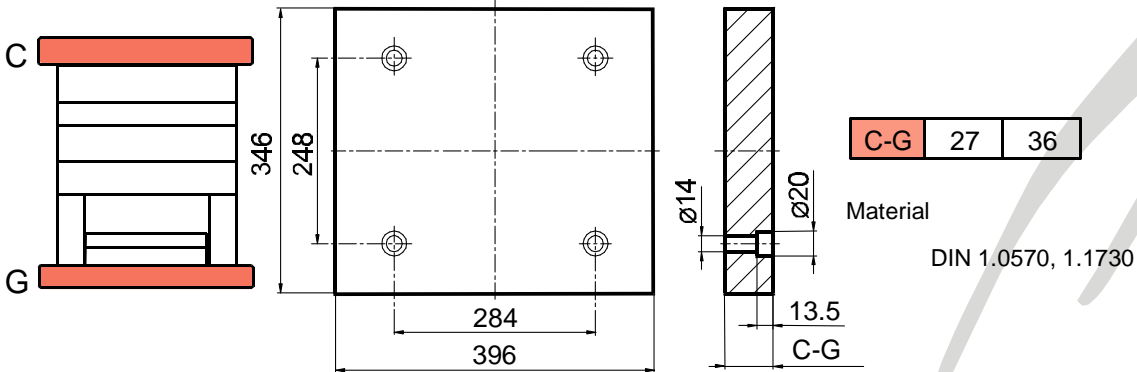


| | | | | | | | |
|---|-----|-----|-----|-----|-----|----|-----|
| L | 20 | 22 | 25 | 30 | 35 | 40 | 45 |
| | 50 | 55 | 60 | 70 | 80 | 90 | 100 |
| | 110 | 120 | 130 | 140 | 150 | | |

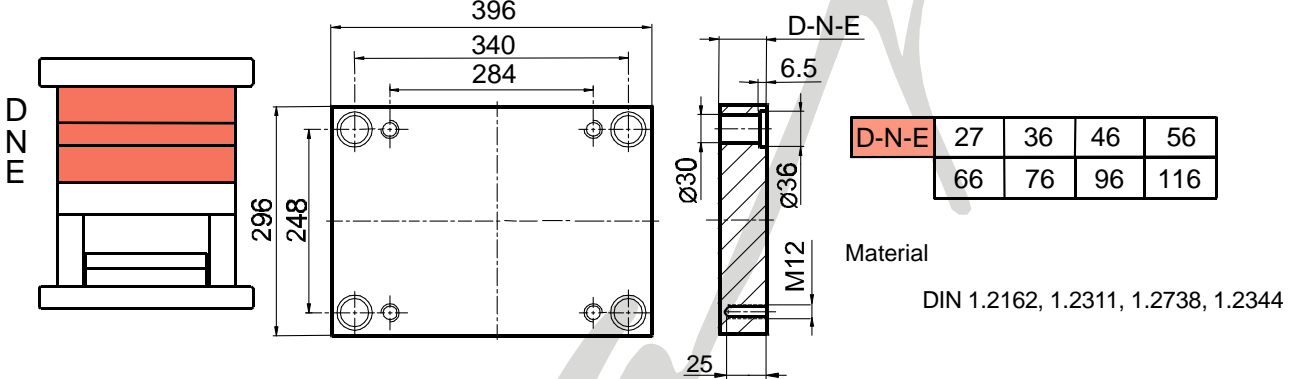
Resistencia a la tracción: 80 - 100 kg/mm²

296 x 396

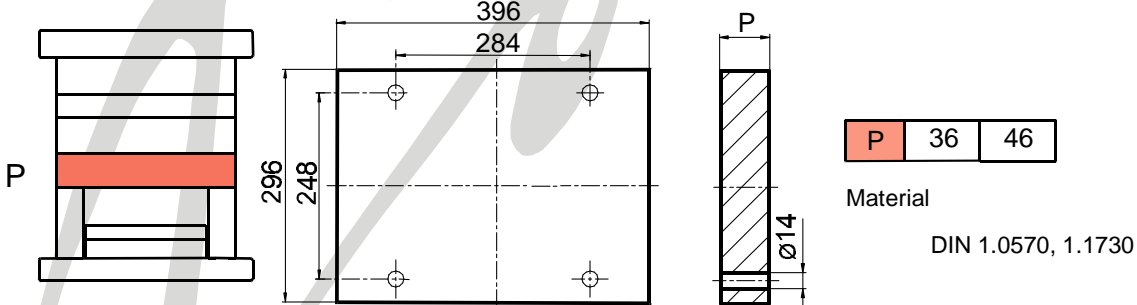
Placas de fijación / Clamping plate / Aufspannplatte



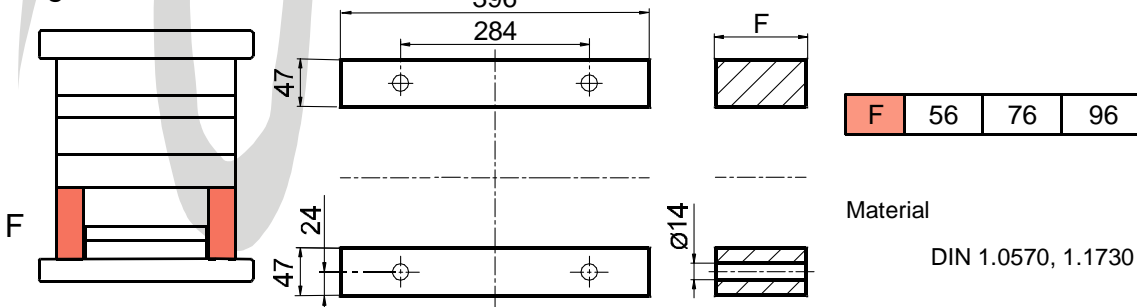
Placas alojamiento cavidad / Cavity plate / Formplatte



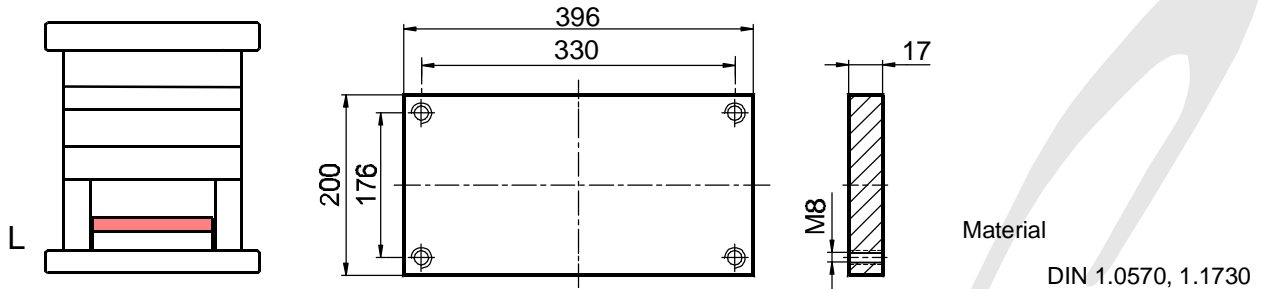
Placa intermedia / Backing plate / Zwischenplatte



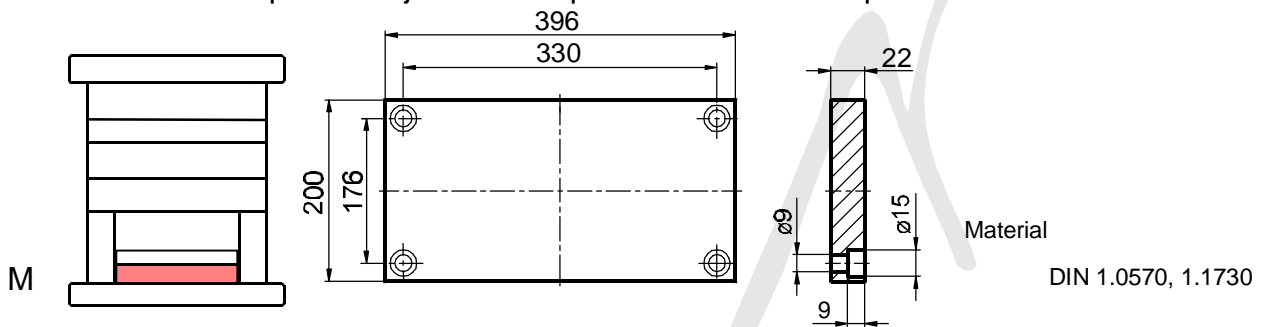
Regletas / Risers / Leisten



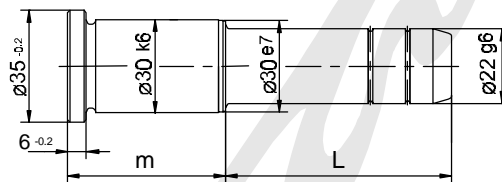
Placa soporte del expulsor / Ejector retainer plate / Auswerferplatte



Placa base del expulsor / Ejector base plate / Auswerferundplatte



Guia para casquillo GC / Shoulder leader pin GC

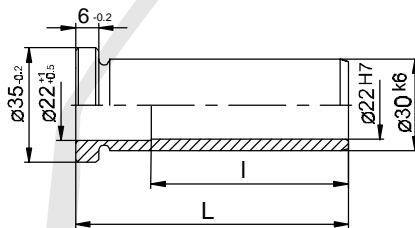


| m | L | | | | | | | | |
|----|----|----|----|----|-----|-----|-----|-----|-----|
| | 36 | 45 | 50 | 70 | 100 | 125 | 150 | 175 | 200 |
| 26 | | | | | | | | | |
| 34 | | | | | | | | | |
| 44 | | | | | | | | | |
| 54 | | | | | | | | | |
| 64 | | | | | | | | | |
| 74 | | | | | | | | | |
| 94 | | | | | | | | | |

Material: DIN 1.7242

Dureza: 60 - 62 HRc

Casquillo CV / Leader pin bushing CV

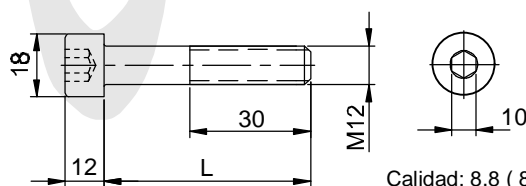


| L | | | | | | | | |
|----|----|----|----|----|----|------|------|------|
| 17 | 21 | 26 | 35 | 45 | 55 | 65 | 75 | 95 |
| | | | | | | I=55 | I=55 | I=65 |

Material: DIN 1.7242

Dureza: 60 - 62 HRc

Tornillo cilíndrico TOG / Socket cap screw TOG



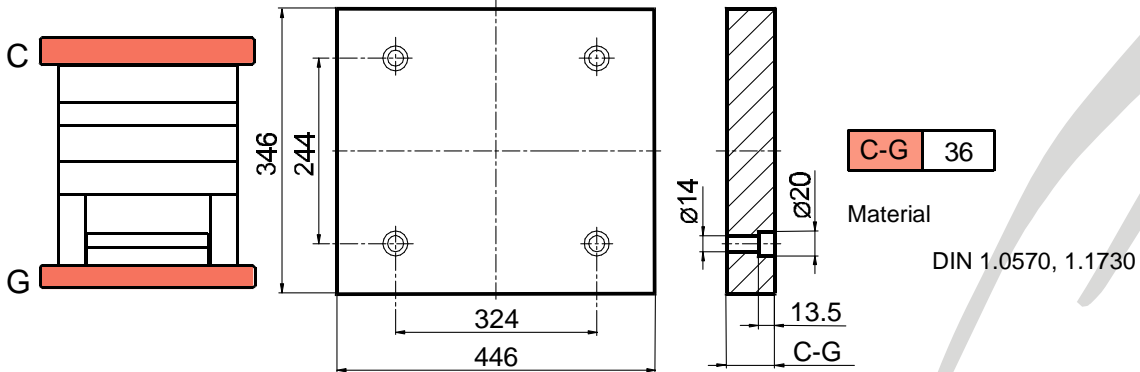
| | | | | | | | |
|---|-----|-----|-----|-----|-----|----|-----|
| L | 20 | 22 | 25 | 30 | 35 | 40 | 45 |
| | 50 | 55 | 60 | 70 | 80 | 90 | 100 |
| | 110 | 120 | 130 | 140 | 150 | | |

Calidad: 8.8 (8 G)

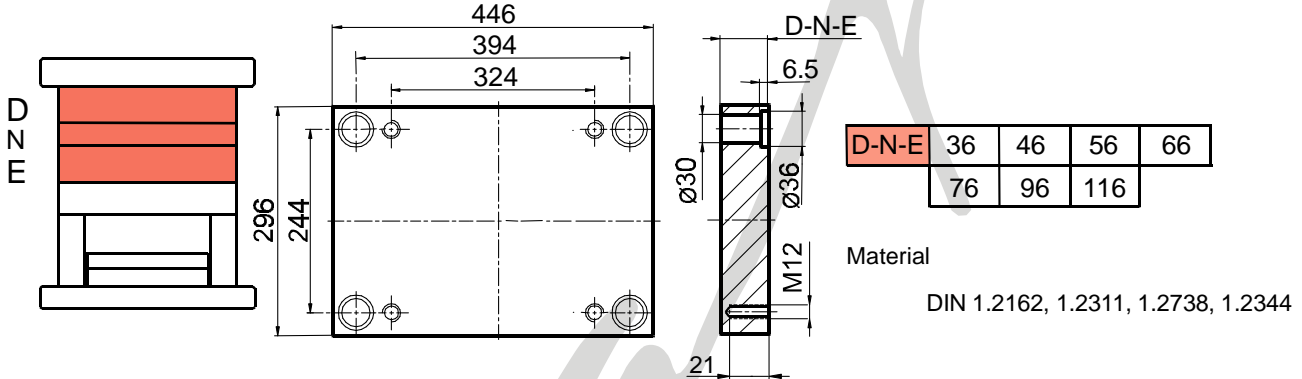
Resistencia a la tracción: 80 - 100 kg/mm²

296 x 446

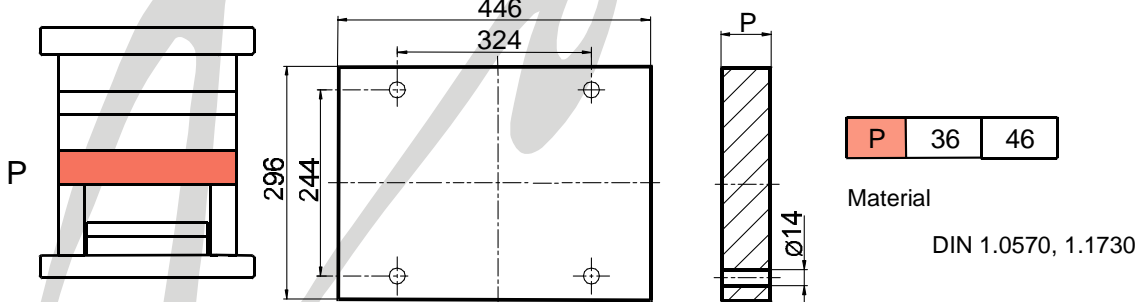
Placas de fijación / Clamping plate / Aufspannplatte



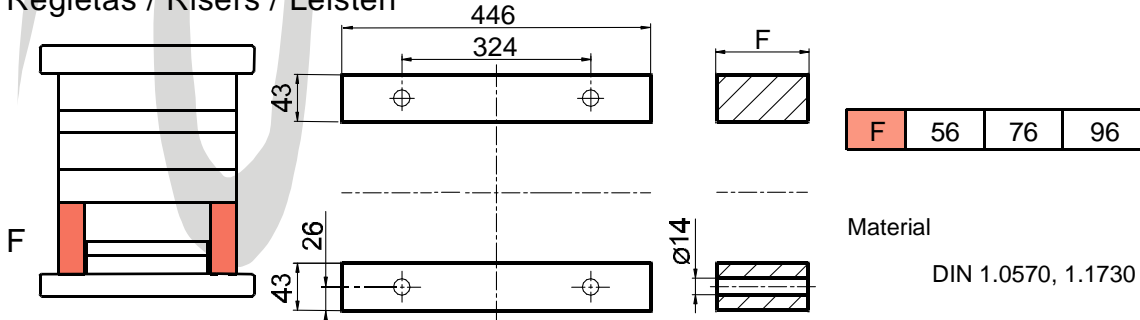
Placas alojamiento cavidad / Cavity plate / Formplatte



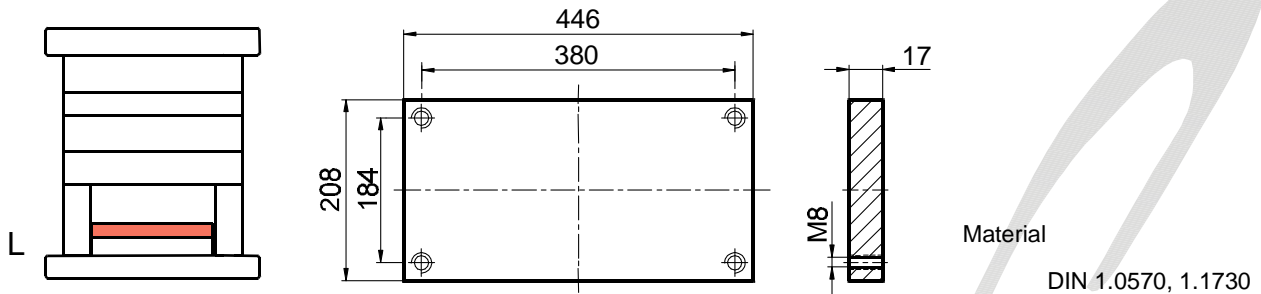
Placa intermedia / Backing plate / Zwischenplatte



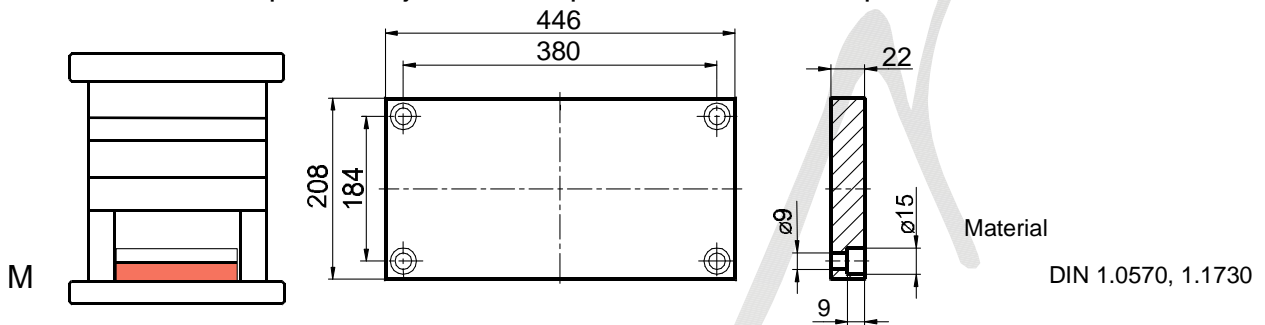
Regletas / Risers / Leisten



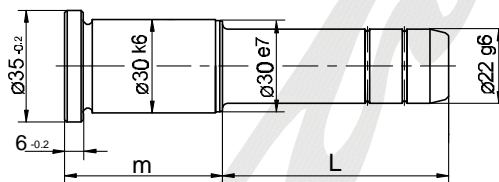
Placa soporte del expulsor / Ejector retainer plate / Auswerferplatte



Placa base del expulsor / Ejector base plate / Auswerferundplatte



Guia para casquillo GC / Shoulder leader pin GC

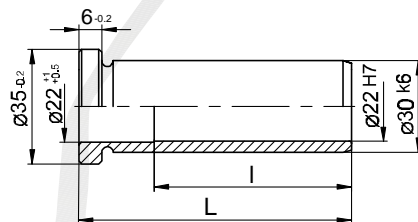


Material : DIN 1.7242

Dureza: 60 - 62 HRc

| m | L | | | | | | | | |
|----|----|----|----|----|-----|-----|-----|-----|-----|
| | 36 | 45 | 50 | 70 | 100 | 125 | 150 | 175 | 200 |
| 34 | | | | | | | | | |
| 44 | | | | | | | | | |
| 54 | | | | | | | | | |
| 64 | | | | | | | | | |
| 74 | | | | | | | | | |
| 94 | | | | | | | | | |

Casquillo CV / Leader pin bushing CV

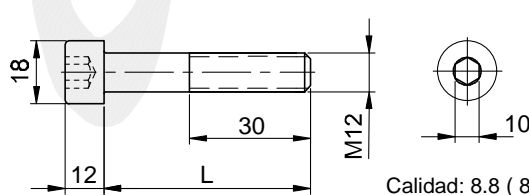


Material: DIN 1.7242

Dureza: 60 - 62 HRc

| L | | | | | | | | |
|----|----|----|----|----|----|------|------|------|
| 17 | 21 | 26 | 35 | 45 | 55 | 65 | 75 | 95 |
| | | | | | | l=55 | l=55 | l=65 |

Tornillo cilíndrico TOG / Socket cap screw TOG



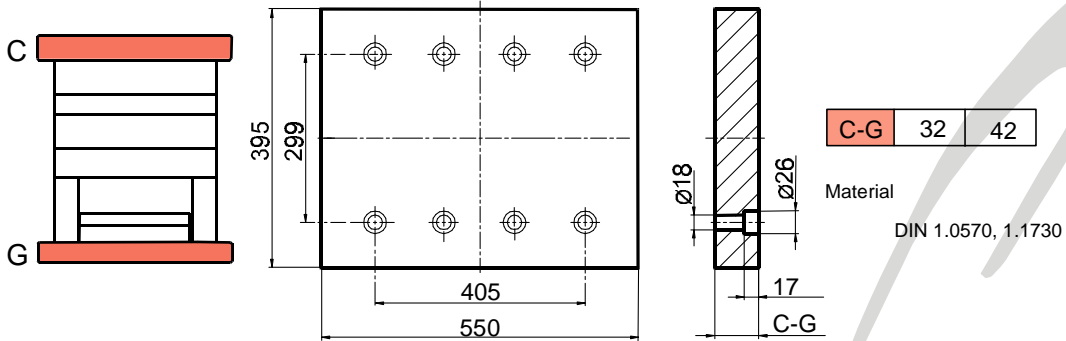
Calidad: 8.8 (8 G)

Resistencia a la tracción: 80 - 100 kg/mm²

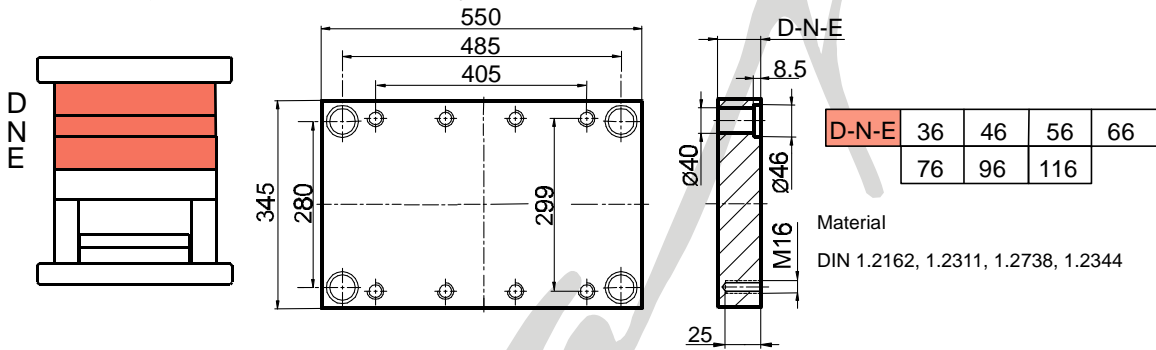
| L | 20 | 22 | 25 | 30 | 35 | 40 | 45 |
|---|-----|-----|-----|-----|-----|----|-----|
| | 50 | 55 | 60 | 70 | 80 | 90 | 100 |
| | 110 | 120 | 130 | 140 | 150 | | |

345 x 550

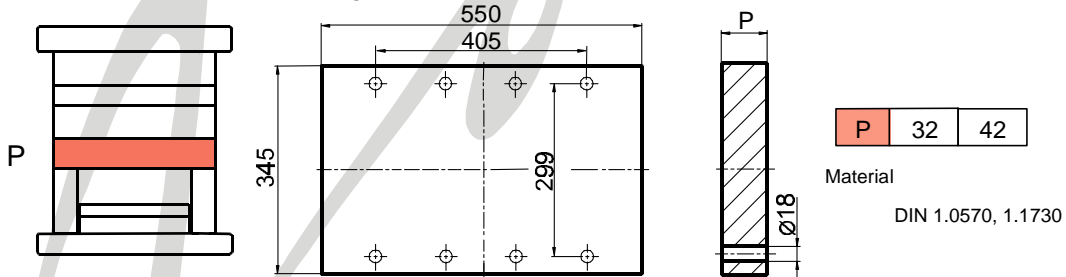
Placas de fijación / Clamping plate / Aufspannplatte



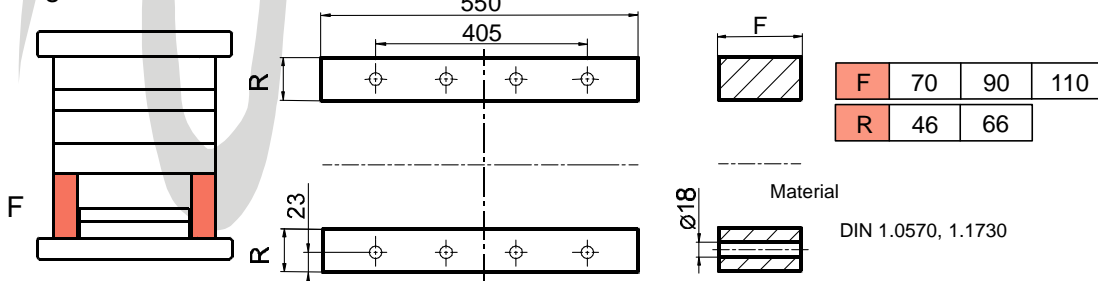
Placas alojamiento cavidad / Cavity plate / Formplatte



Placa intermedia / Backing plate / Zwischenplatte



Regletas / Risers / Leisten



Placa soporte del expulsor / Ejector retainer plate / Auswerferplatte

| | | |
|---|-----|-----|
| J | 208 | 248 |
| T | 180 | 220 |

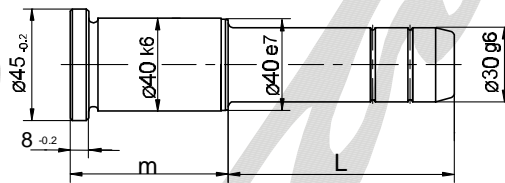
Material
DIN 1.0570, 1.1730

Placa base del expulsor / Ejector base plate / Auswerferplatte

| | | |
|---|-----|-----|
| J | 208 | 248 |
| T | 180 | 220 |

Material
DIN 1.0570, 1.1730

Guia para casquillo GC / Shoulder leader pin GC

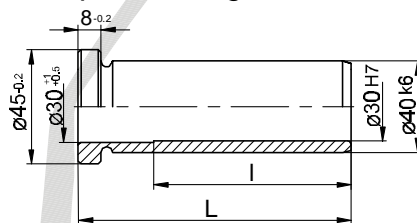


| m | L | | | | | | | | | |
|----|----|----|----|----|----|-----|-----|-----|-----|-----|
| | 36 | 45 | 50 | 70 | 90 | 100 | 125 | 150 | 175 | 200 |
| 34 | | | | | | | | | | |
| 44 | | | | | | | | | | |
| 54 | | | | | | | | | | |
| 64 | | | | | | | | | | |
| 74 | | | | | | | | | | |
| 94 | | | | | | | | | | |

Material : DIN 1.7242

Dureza: 60 - 62 HRc

Casquillo CV / Leader pin bushing CV

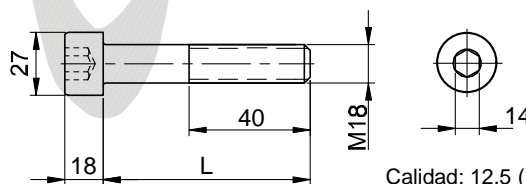


| L | | | | | | | | |
|----|----|----|----|----|----|----|------|------|
| 17 | 21 | 26 | 35 | 45 | 55 | 65 | 75 | 95 |
| | | | | | | | l=65 | l=65 |

Material : DIN 1.7242

Dureza: 60 - 62 HRc

Tornillo cilíndrico TOG / Socket cap screw TOG



| | | | | | | | |
|---|-----|-----|-----|-----|-----|-----|-----|
| L | 30 | 35 | 40 | 45 | 50 | 55 | 60 |
| | 70 | 80 | 90 | 100 | 110 | 120 | 130 |
| | 140 | 150 | 160 | 170 | 180 | 190 | 200 |
| | 210 | 220 | 230 | 240 | 250 | | |

Calidad: 12.5 (12 K)

Resistencia a la tracción: 80 - 100 kg/mmf

346 x 346

Placas de fijación / Clamping plate / Aufspannplatte

| | | |
|-----|----|----|
| C-G | 27 | 36 |
|-----|----|----|

Material
DIN 1.0570, 1.1730

Placas alojamiento cavidad / Cavity plate / Formplatte

| | | | | |
|-------|----|----|-----|----|
| D-N-E | 36 | 46 | 56 | 66 |
| | 76 | 96 | 116 | |

Material
DIN 1.2162, 1.2311, 1.2738, 1.2344

Placa intermedia / Backing plate / Zwischenplatte

| | | | |
|---|----|----|----|
| P | 27 | 36 | 46 |
|---|----|----|----|

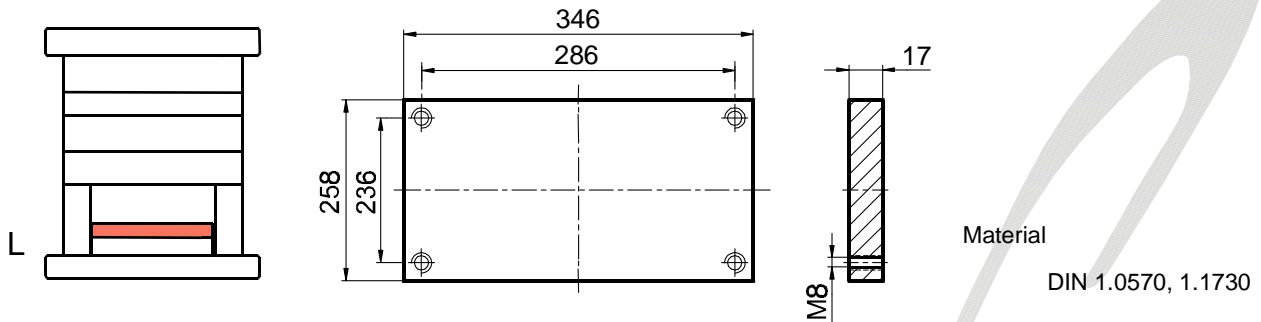
Material
DIN 1.0570, 1.1730

Regletas / Risers / Leisten

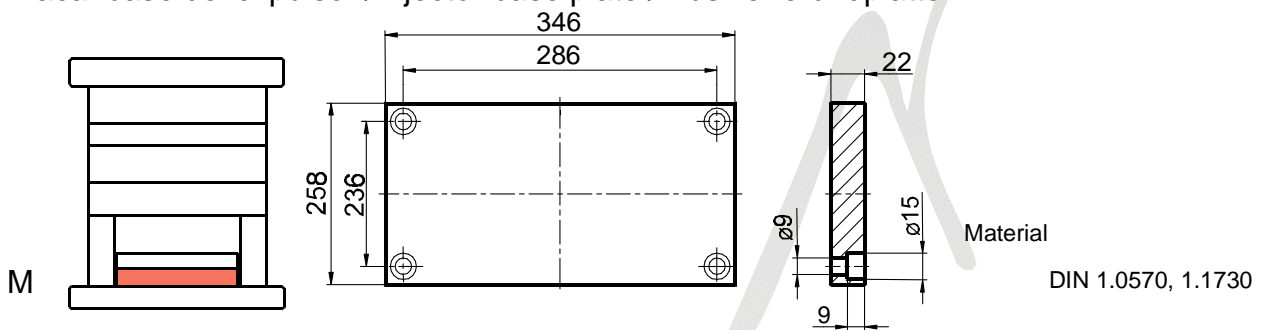
| | | | |
|---|----|----|----|
| F | 56 | 76 | 96 |
|---|----|----|----|

Material
DIN 1.0570, 1.1730

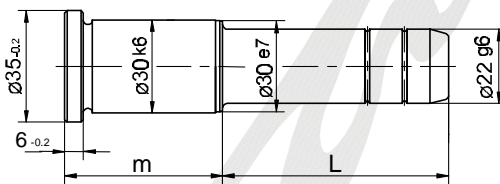
Placa soporte del expulsor / Ejector retainer plate / Auswerferplatte



Placa base del expulsor / Ejector base plate / Auswerfergrundplatte



Guia para casquillo GC / Shoulder leader pin GC

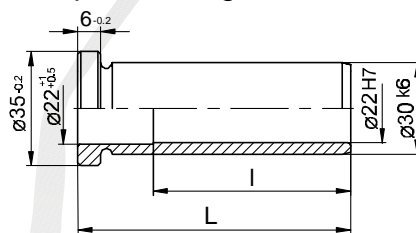


| m | L | | | | | | | | |
|----|----|----|----|----|-----|-----|-----|-----|-----|
| | 36 | 45 | 50 | 70 | 100 | 125 | 150 | 175 | 200 |
| 34 | | | | | | | | | |
| 44 | | | | | | | | | |
| 54 | | | | | | | | | |
| 64 | | | | | | | | | |
| 74 | | | | | | | | | |
| 94 | | | | | | | | | |

Material: DIN 1.7242

Dureza: 60 - 62 HRc

Casquillo CV / Leader pin bushing CV

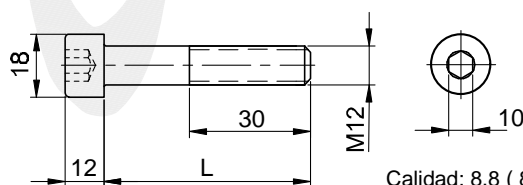


| L | | | | | | | | |
|----|----|----|----|----|----|------|------|------|
| 17 | 21 | 26 | 35 | 45 | 55 | 65 | 75 | 95 |
| | | | | | | I=55 | I=55 | I=65 |

Material: DIN 1.7242

Dureza: 60 - 62 HRc

Tornillo cilíndrico TOG / Socket cap screw TOG



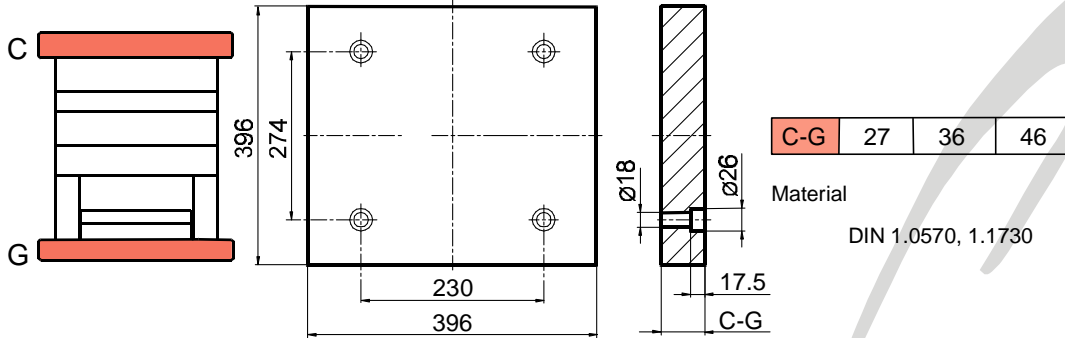
| L | 20 | 22 | 25 | 30 | 35 | 40 | 45 |
|---|-----|-----|-----|-----|-----|----|-----|
| | 50 | 55 | 60 | 70 | 80 | 90 | 100 |
| | 110 | 120 | 130 | 140 | 150 | | |

Calidad: 8.8 (8 G)

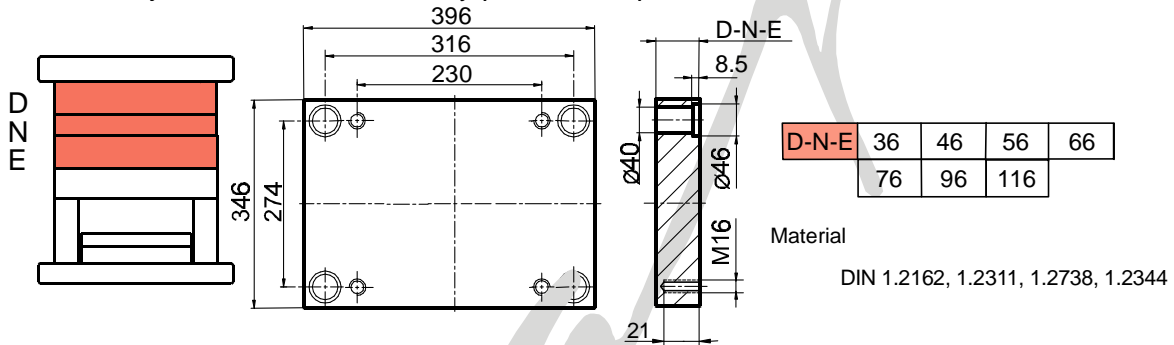
Resistencia a la tracción: 80 - 100 kg/mm²

346 x 396

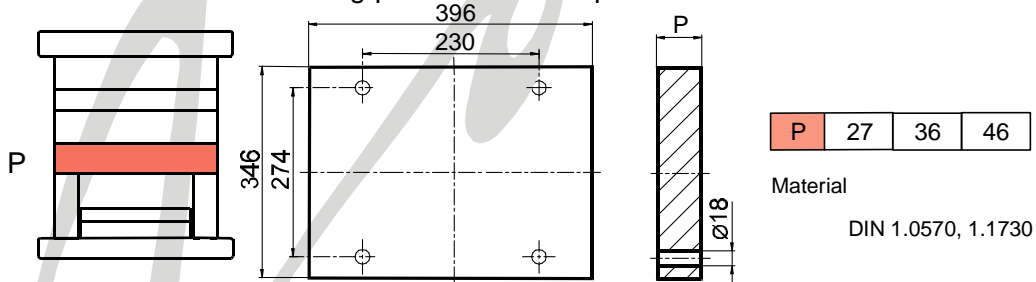
Placas de fijación / Clamping plate / Aufspannplatte



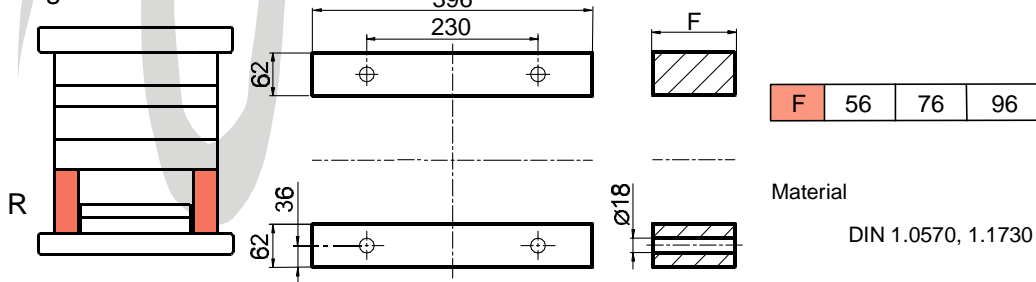
Placas alojamiento cavidad / Cavity plate / Formplatte



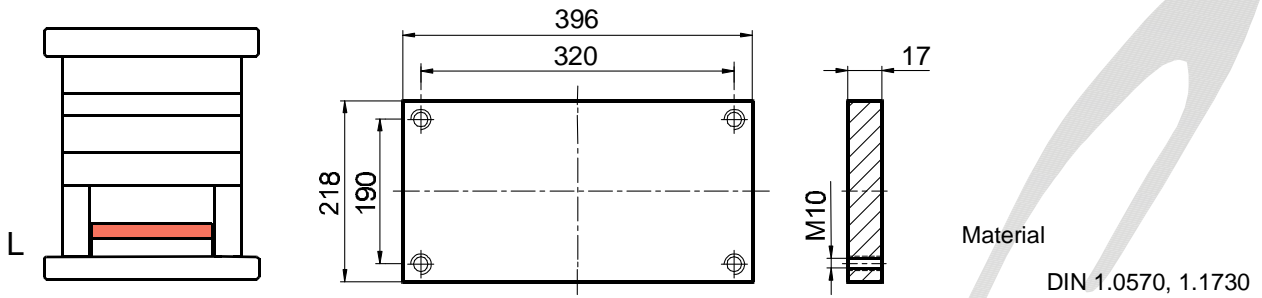
Placa intermedia / Backing plate / Zwischenplatte



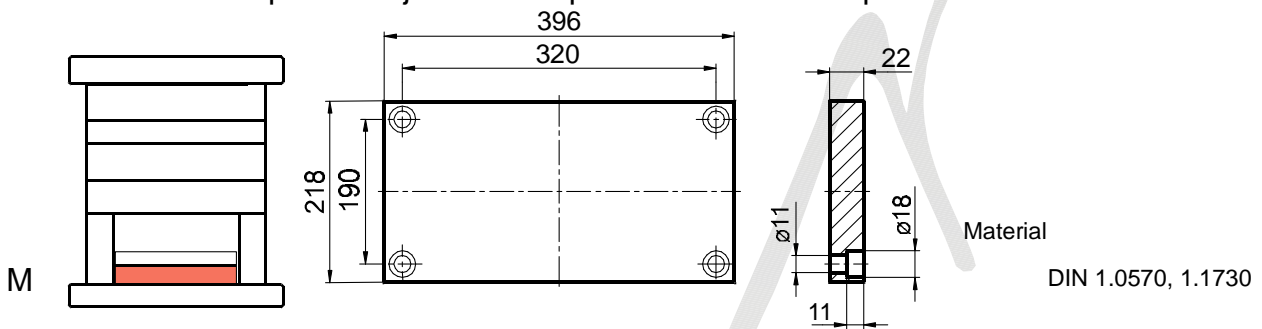
Regletas / Risers / Leisten



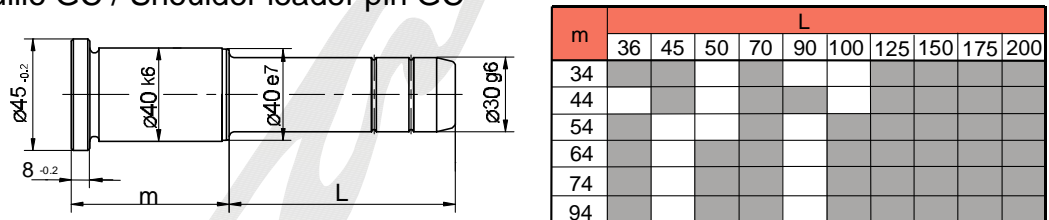
Placa soporte del expulsor / Ejector retainer plate / Auswerferplatte



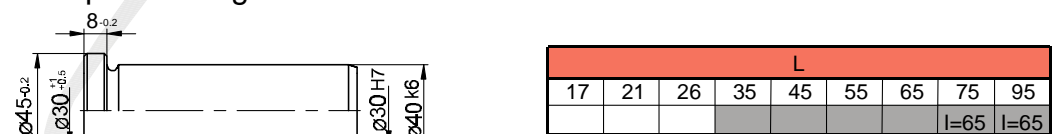
Placa base del expulsor / Ejector base plate / Auswerfergrundplatte



Guia para casquillo GC / Shoulder leader pin GC

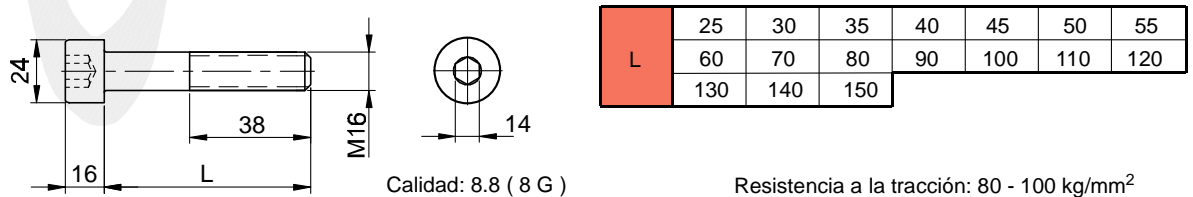


Casquillo CV / Leader pin bushing CV



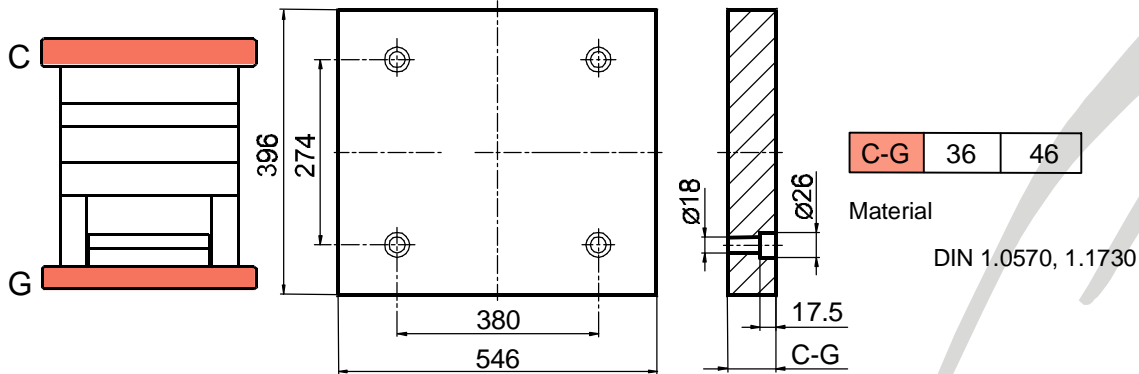
Dureza: 60 - 62 HRc

Tornillo cilíndrico TOG / Socket cap screw TOG

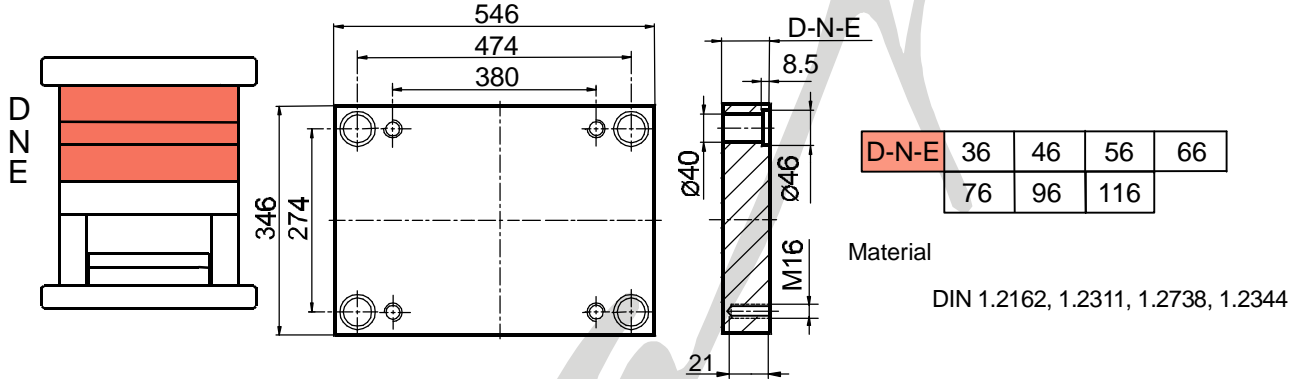


346 x 546

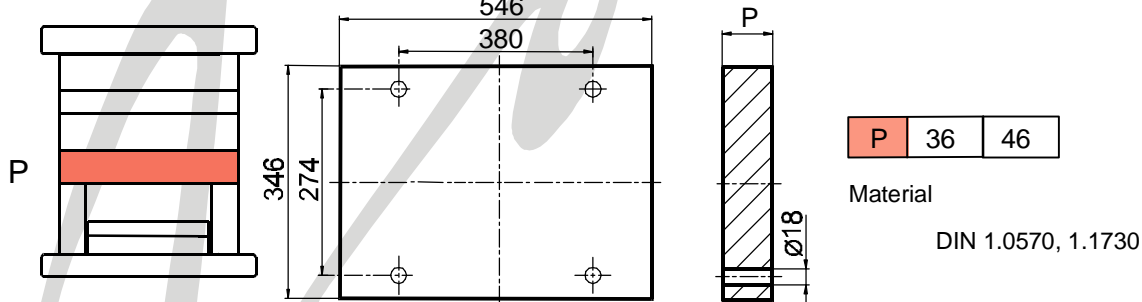
Placas de fijación / Clamping plate / Aufspannplatte



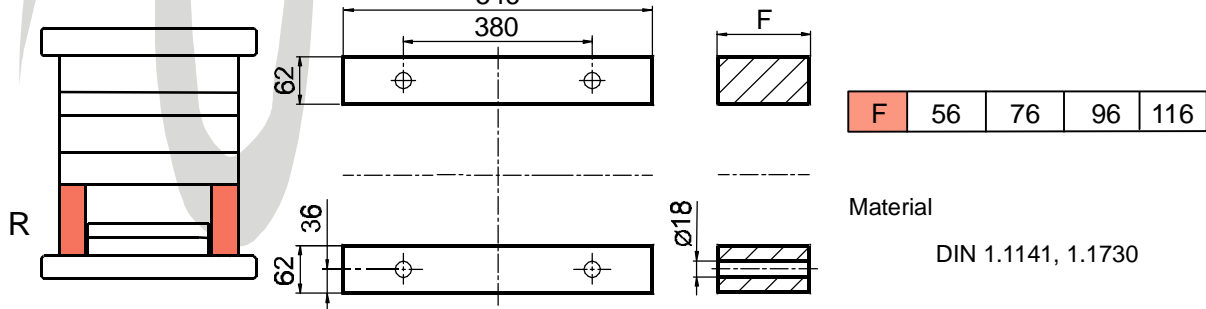
Placas alojamiento cavidad / Cavity plate / Formplatte



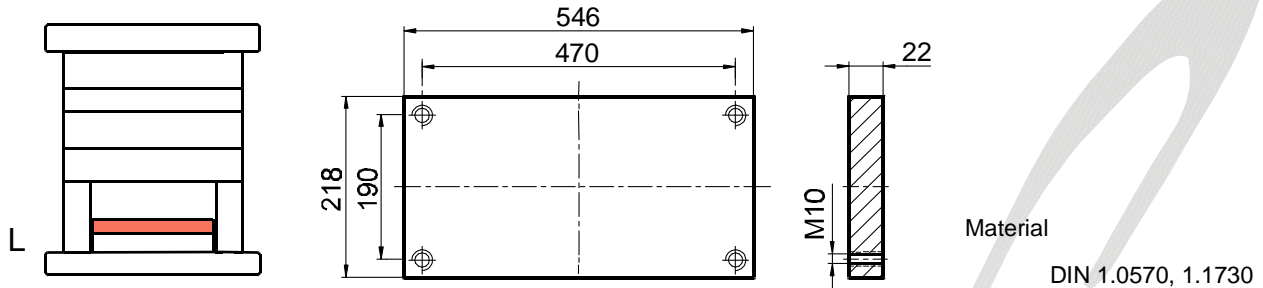
Placa intermedia / Backing plate / Zwischenplatte



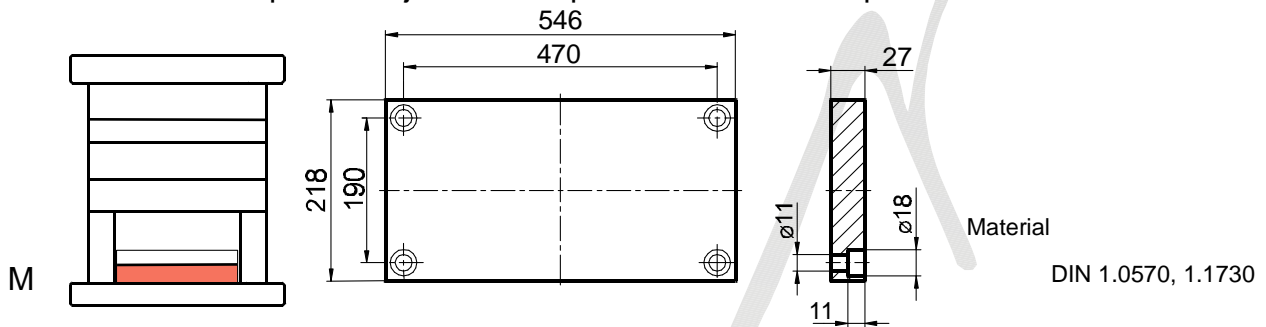
Regletas / Risers / Leisten



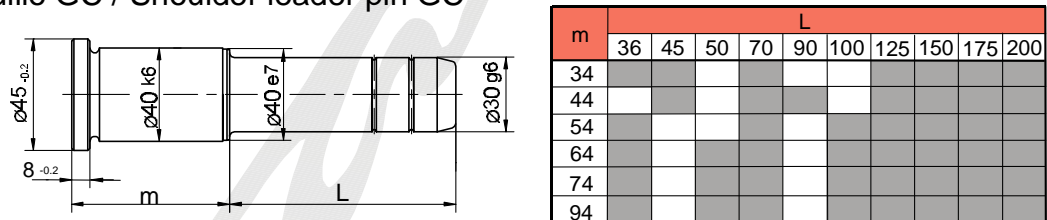
Placa soporte del expulsor / Ejector retainer plate / Auswerferplatte



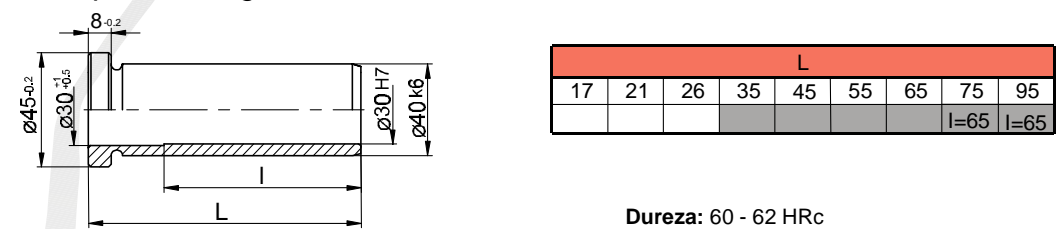
Placa base del expulsor / Ejector base plate / Auswerfergrundplatte



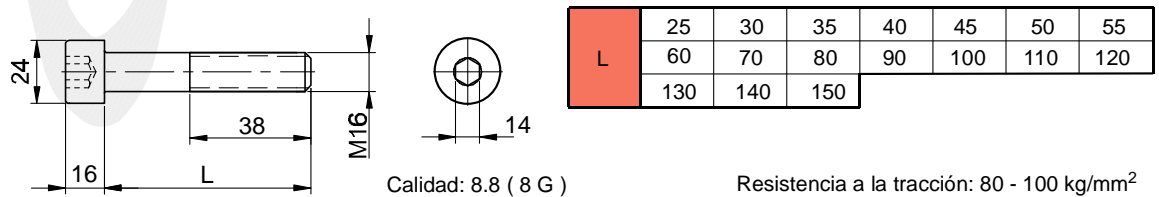
Guia para casquillo GC / Shoulder leader pin GC



Casquillo CV / Leader pin bushing CV

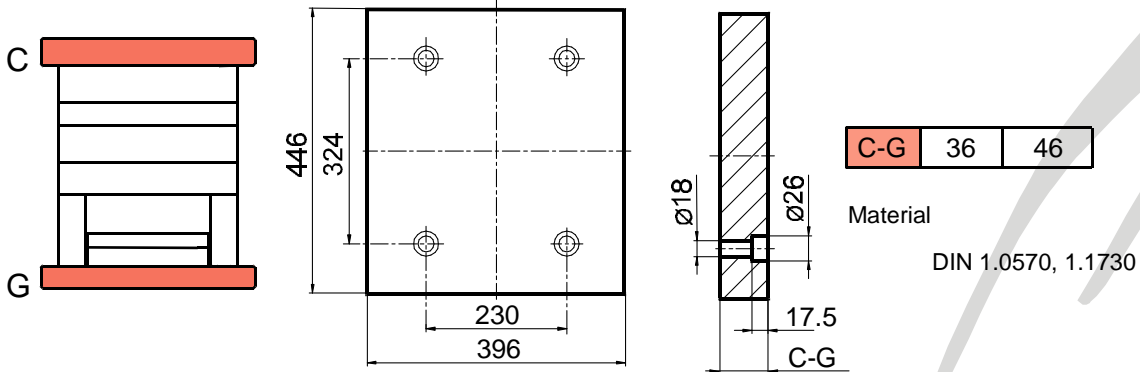


Tornillo cilíndrico TOG / Socket cap screw TOG

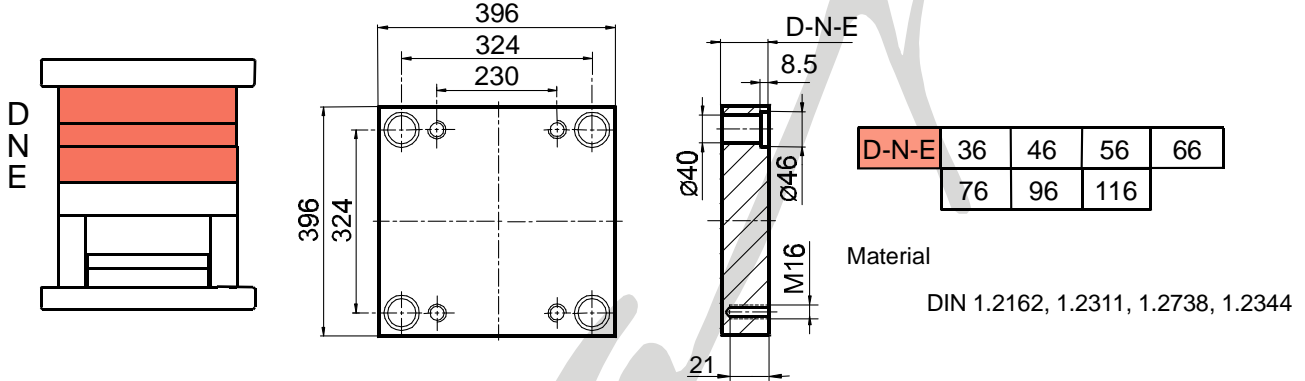


396 x 396

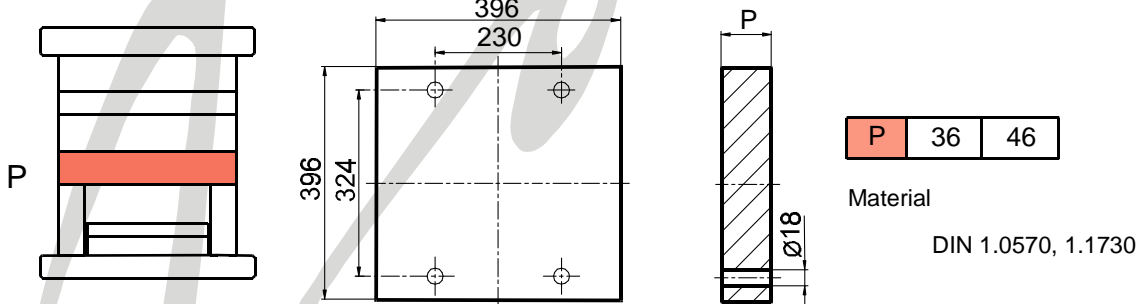
Placas de fijación / Clamping plate / Aufspannplatte



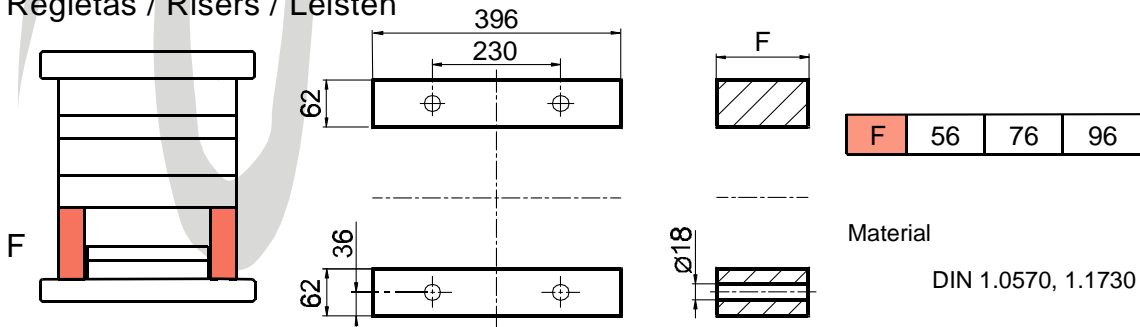
Placas alojamiento cavidad / Cavity plate / Formplatte



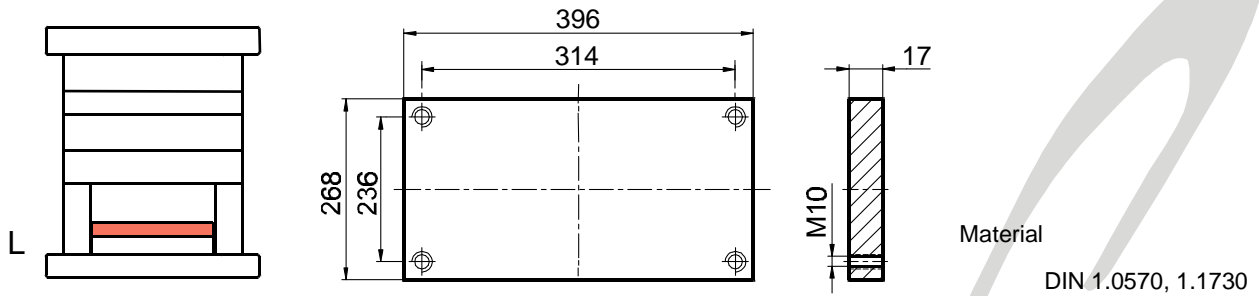
Placa intermedia / Backing plate / Zwischenplatte



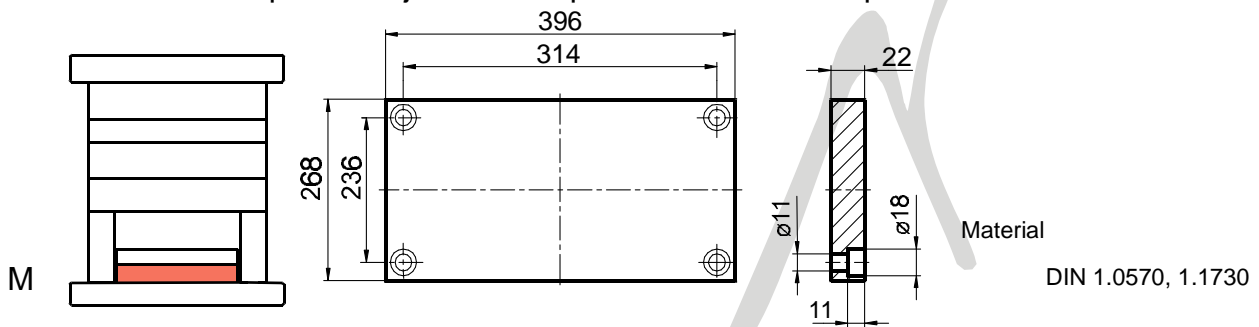
Regletas / Risers / Leisten



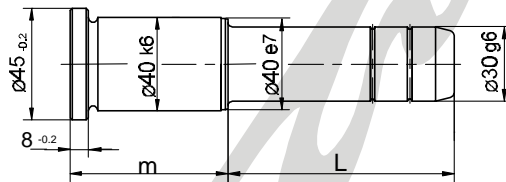
Placa soporte del expulsor / Ejector retainer plate / Auswerferplatte



Placa base del expulsor / Ejector base plate / Auswerfergrundplatte



Guia para casquillo GC / Shoulder leader pin GC

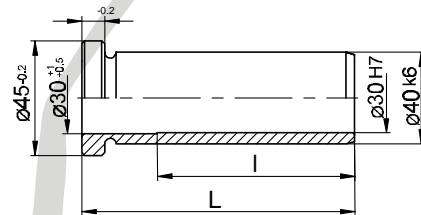


| m | L | | | | | | | | | |
|----|----|----|----|----|----|-----|-----|-----|-----|-----|
| | 36 | 45 | 50 | 70 | 90 | 100 | 125 | 150 | 175 | 200 |
| 34 | | | | | | | | | | |
| 44 | | | | | | | | | | |
| 54 | | | | | | | | | | |
| 64 | | | | | | | | | | |
| 74 | | | | | | | | | | |
| 94 | | | | | | | | | | |

Material : DIN 1.7242

Dureza: 60 - 62 HRc

Casquillo CV / Leader pin bushing CV

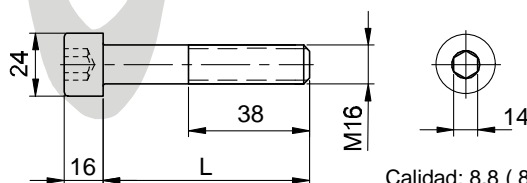


| L | | | | | | | | |
|----|----|----|----|----|----|----|------|------|
| 17 | 21 | 26 | 35 | 45 | 55 | 65 | 75 | 95 |
| | | | | | | | l=65 | l=65 |

Material : DIN 1.7242

Dureza: 60 - 62 HRc

Tornillo cilíndrico TOG / Socket cap screw TOG



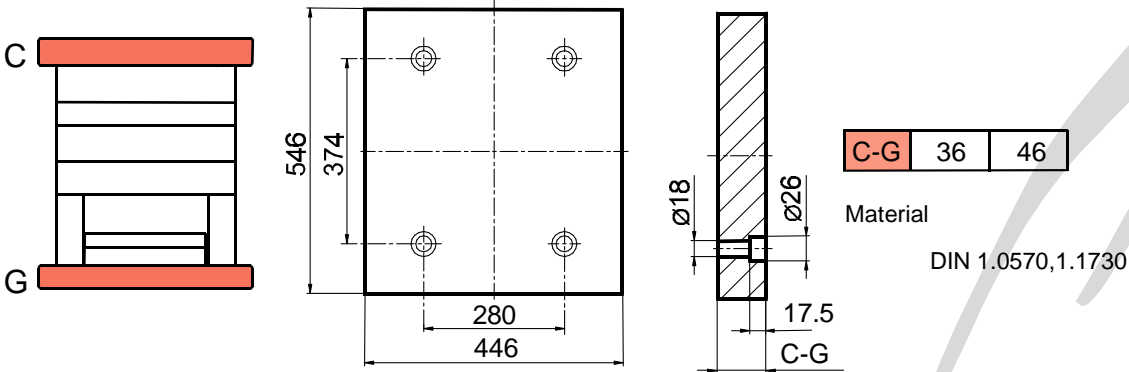
| L | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
|---|-----|-----|-----|----|-----|-----|-----|
| | 60 | 70 | 80 | 90 | 100 | 110 | 120 |
| | 130 | 140 | 150 | | | | |

Calidad: 8.8 (8 G)

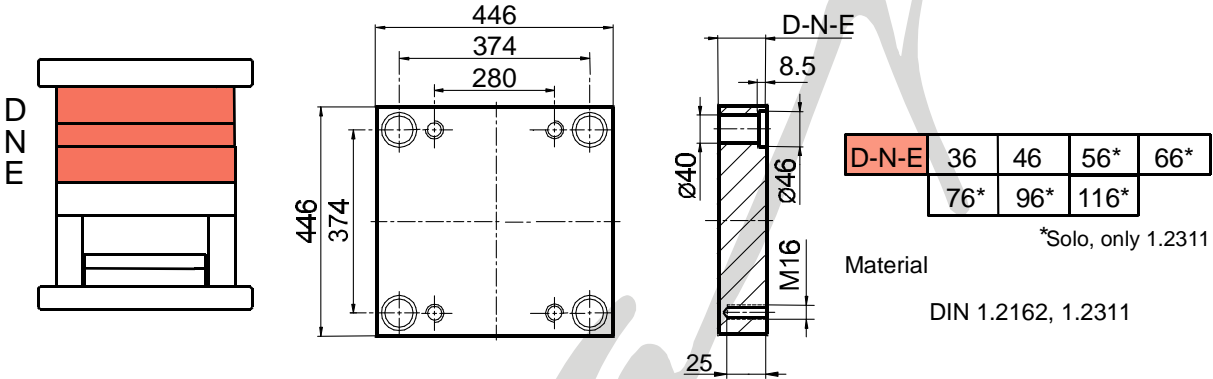
Resistencia a la tracción: 80 - 100 kg/mm²

446 x 446

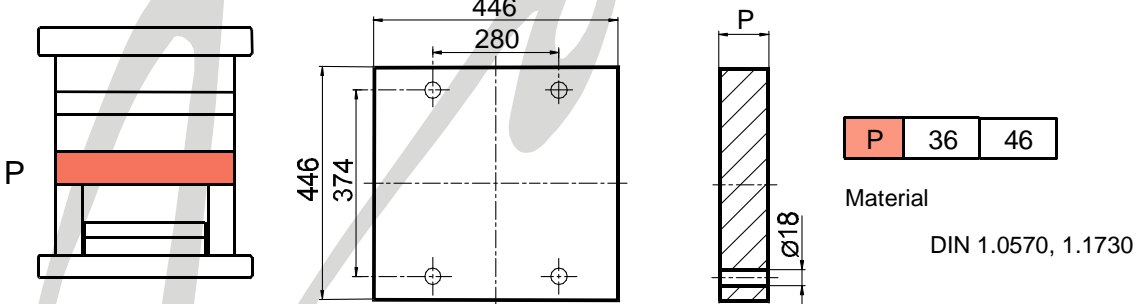
Placas de fijación / Clamping plate / Aufspannplatte



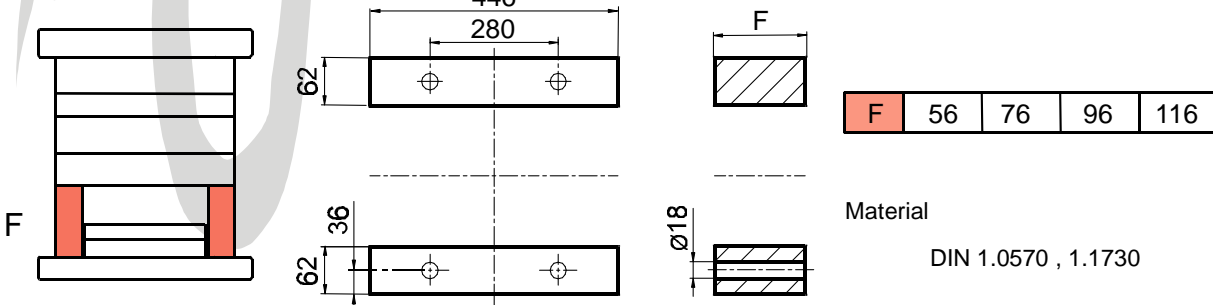
Placas alojamiento cavidad / Cavity plate / Formplatte



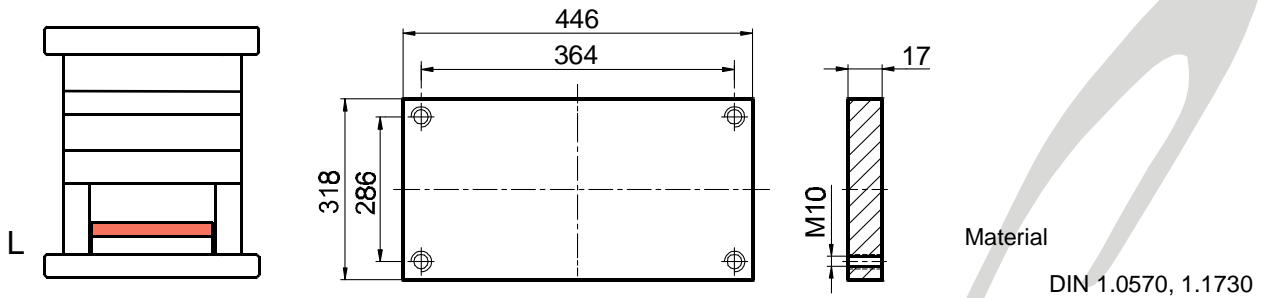
Placa intermedia / Backing plate / Zwischenplatte



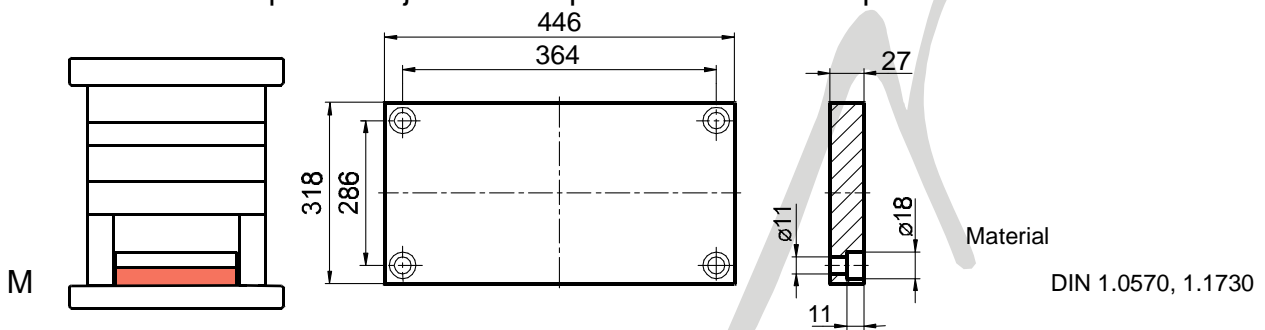
Regletas / Risers / Leisten



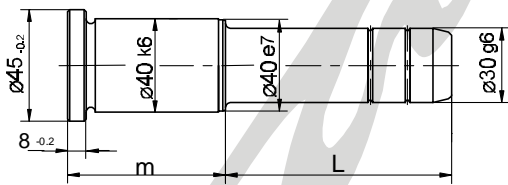
Placa soporte del expulsor / Ejector retainer plate / Auswerferplatte



Placa base del expulsor / Ejector base plate / Auswerfergrundplatte



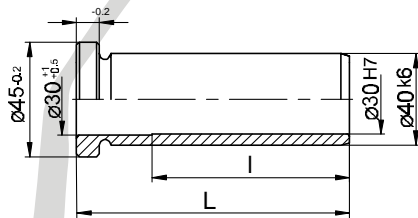
Guia para casquillo GC / Shoulder leader pin GC



| m | L | | | | | | | | | |
|----|----|----|----|----|----|-----|-----|-----|-----|-----|
| | 36 | 45 | 50 | 70 | 90 | 100 | 125 | 150 | 175 | 200 |
| 34 | | | | | | | | | | |
| 44 | | | | | | | | | | |
| 54 | | | | | | | | | | |
| 64 | | | | | | | | | | |
| 74 | | | | | | | | | | |
| 94 | | | | | | | | | | |

Material : DIN 1.7242 Dureza: 60 - 62 HRc

Casquillo CV / Leader pin bushing CV

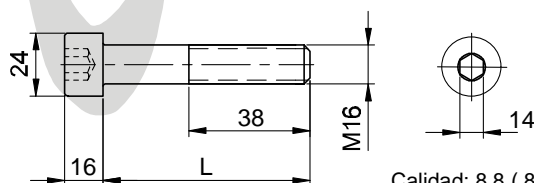


| L | | | | | | | | | |
|----|----|----|----|----|----|----|------|------|--|
| 17 | 21 | 26 | 35 | 45 | 55 | 65 | 75 | 95 | |
| | | | | | | | l=65 | l=65 | |

Material : DIN 1.7242

Dureza: 60 - 62 HRc

Tornillo cilíndrico TOG / Socket cap screw TOG



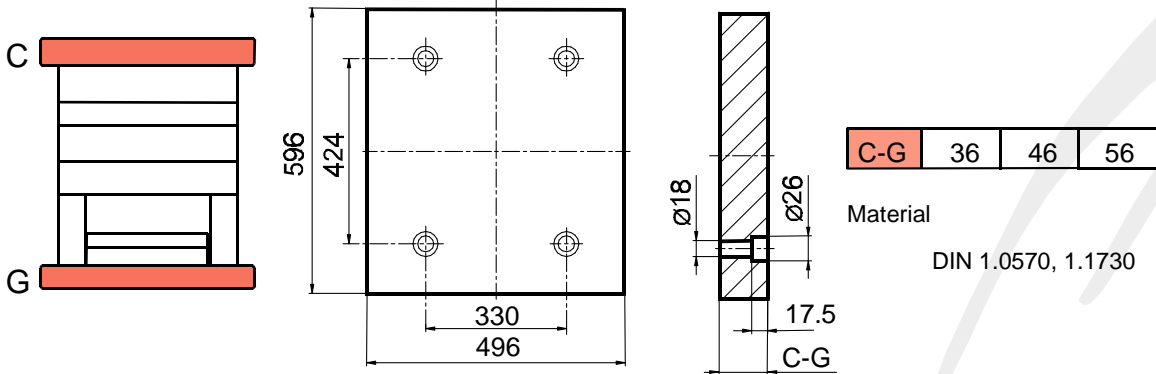
| L | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
|---|-----|-----|-----|----|-----|-----|-----|
| | 60 | 70 | 80 | 90 | 100 | 110 | 120 |
| | 130 | 140 | 150 | | | | |

Calidad: 8.8 (8 G)

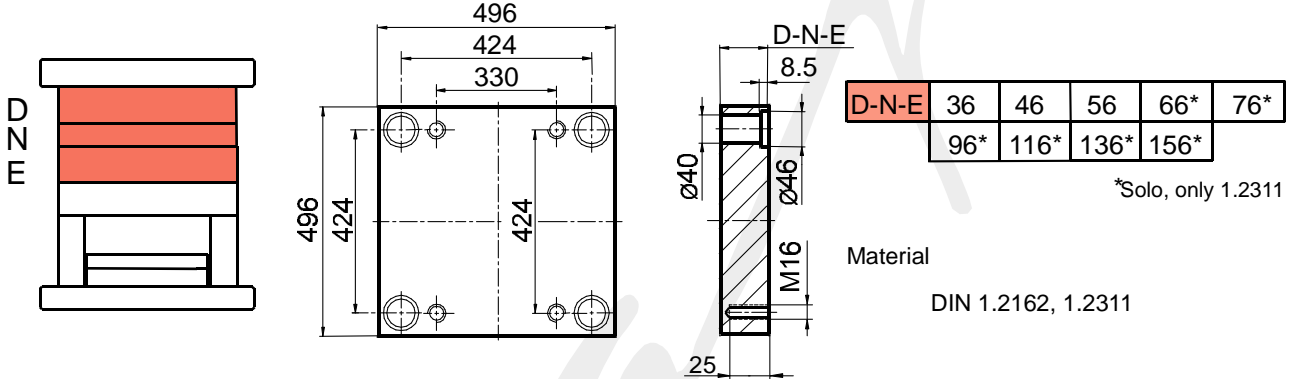
Resistencia a la tracción: 80 - 100 kg/mm²

496 x 496

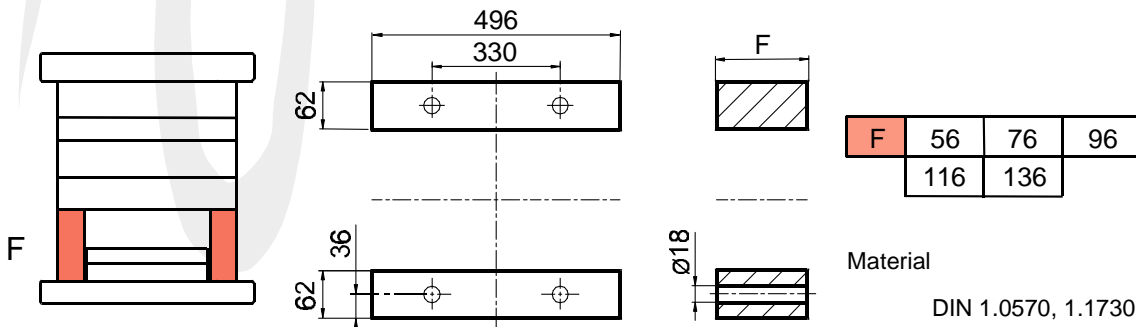
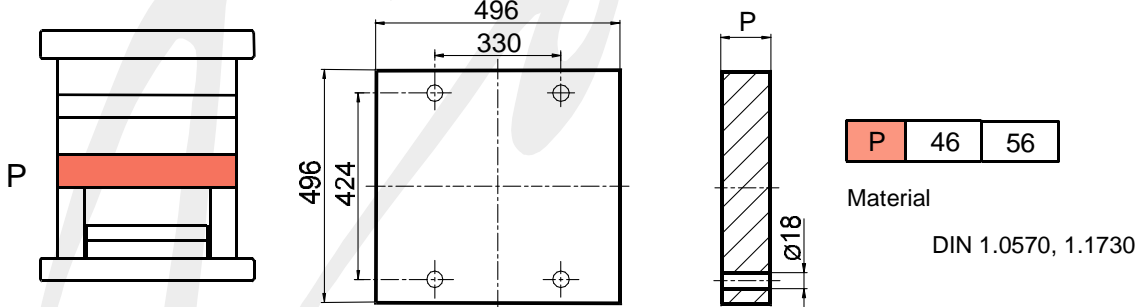
Placas de fijación / Clamping plate / Aufspannplatte



Placas alojamiento cavidad / Cavity plate / Formplatte



Placa intermedia / Backing plate / Zwischenplatte



Placa soporte del expulsor / Ejector retainer plate / Auswerferplatte

| | | |
|---|----|----|
| L | 22 | 27 |
|---|----|----|

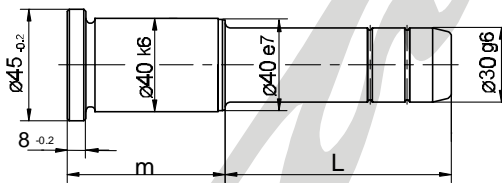
Material
DIN 1.0570, 1.1730

Placa base del expulsor / Ejector base plate / Auswerfergrundplatte

| | | |
|---|----|----|
| M | 27 | 36 |
|---|----|----|

Material
DIN 1.0570, 1.1730

Guia para casquillo GC / Shoulder leader pin GC

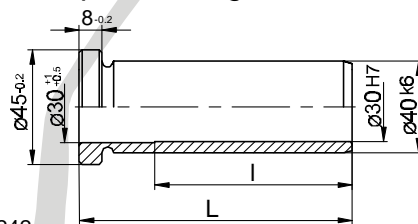


Material : DIN 1.7242

Dureza: 60 - 62 HRc

| m | L | | | | | | | | | |
|-----|----|----|----|----|----|-----|-----|-----|-----|-----|
| | 36 | 45 | 50 | 70 | 90 | 100 | 125 | 150 | 175 | 200 |
| 34 | | | | | | | | | | |
| 44 | | | | | | | | | | |
| 54 | | | | | | | | | | |
| 64 | | | | | | | | | | |
| 74 | | | | | | | | | | |
| 94 | | | | | | | | | | |
| 134 | | | | | | | | | | |

Casquillo CV / Leader pin bushing CV

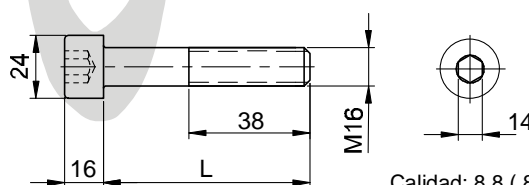


Material : DIN 1.7242

Dureza: 60 - 62 HRc

| L | | | | | | | | |
|----|----|----|----|----|----|----|------|------|
| 17 | 21 | 26 | 35 | 45 | 55 | 65 | 75 | 95 |
| | | | | | | | l=65 | l=65 |

Tornillo cilíndrico TOG / Socket cap screw TOG



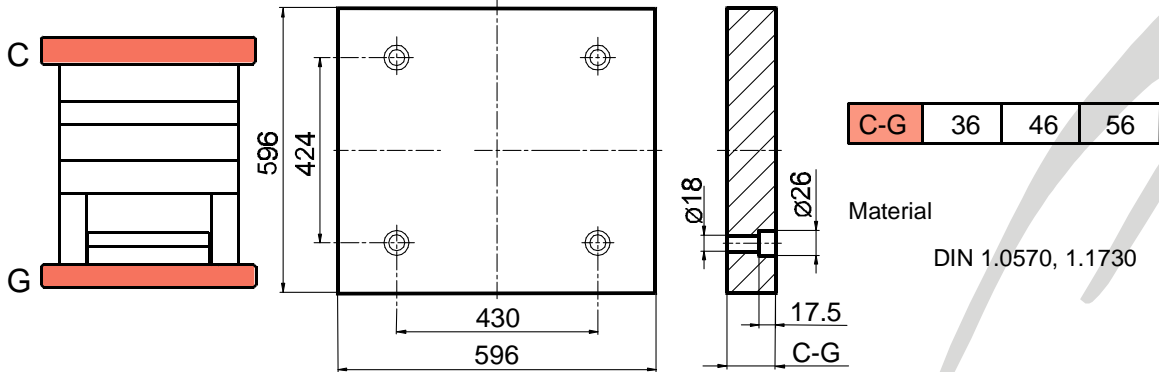
Calidad: 8.8 (8 G)

Resistencia a la tracción: 80 - 100 kg/mm²

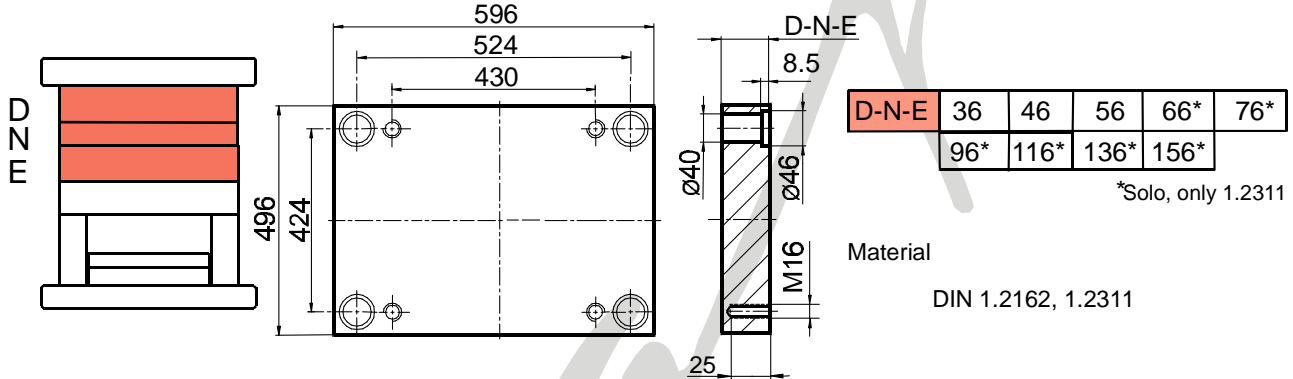
| | | | | | | | |
|---|-----|-----|-----|----|-----|-----|-----|
| L | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
| | 60 | 70 | 80 | 90 | 100 | 110 | 120 |
| | 130 | 140 | 150 | | | | |

496 x 596

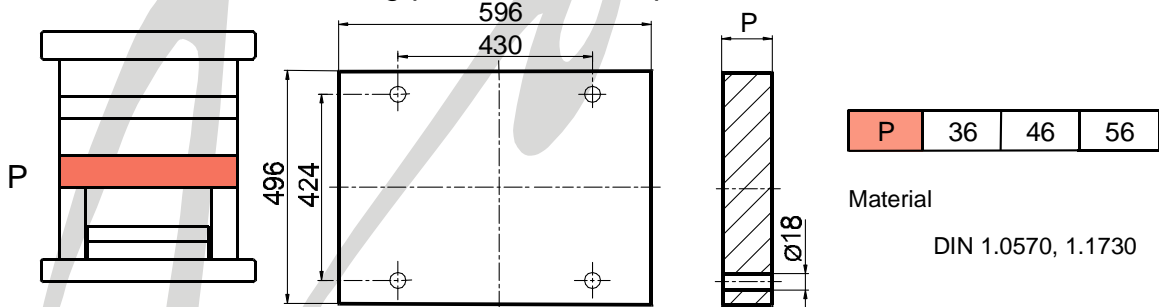
Placas de fijación / Clamping plate / Aufspannplatte



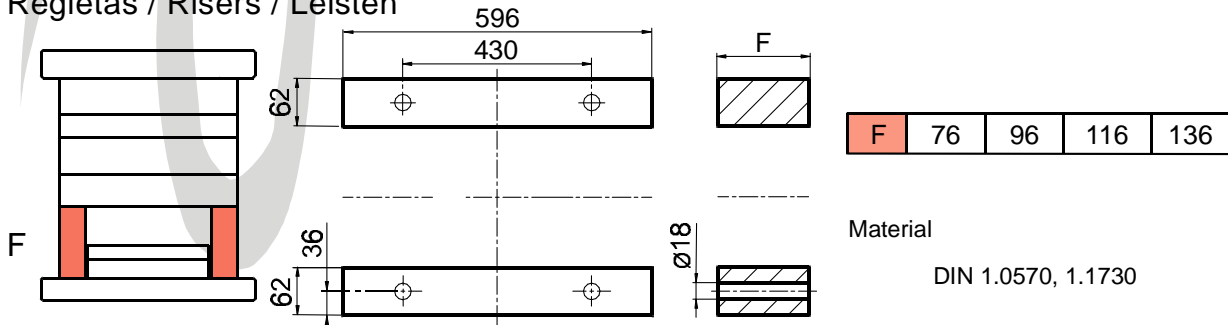
Placas alojamiento cavidad / Cavity plate / Formplatte



Placa intermedia / Backing plate / Zwischenplatte



Regletas / Risers / Leisten



Placa soporte del expulsor / Ejector retainer plate / Auswerferplatte

| | | |
|---|----|----|
| L | 22 | 27 |
|---|----|----|

Material
DIN 1.0570, 1.1730

Placa base del expulsor / Ejector base plate / Auswerfergrundplatte

| | | |
|---|----|----|
| M | 27 | 36 |
|---|----|----|

Material
DIN 1.0570, 1.1730

Guia para casquillo GC / Shoulder leader pin GC

| m | L | | | | | | | | | |
|-----|----|----|----|----|----|-----|-----|-----|-----|-----|
| | 36 | 45 | 50 | 70 | 90 | 100 | 125 | 150 | 175 | 200 |
| 34 | | | | | | | | | | |
| 44 | | | | | | | | | | |
| 54 | | | | | | | | | | |
| 64 | | | | | | | | | | |
| 74 | | | | | | | | | | |
| 94 | | | | | | | | | | |
| 134 | | | | | | | | | | |

Material : DIN 1.7242 Dureza: 60 - 62 HRc

Casquillo CV / Leader pin bushing CV

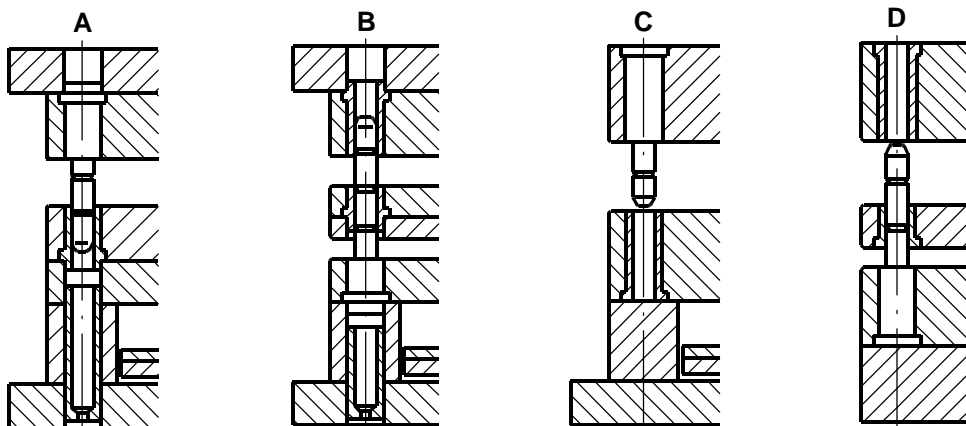
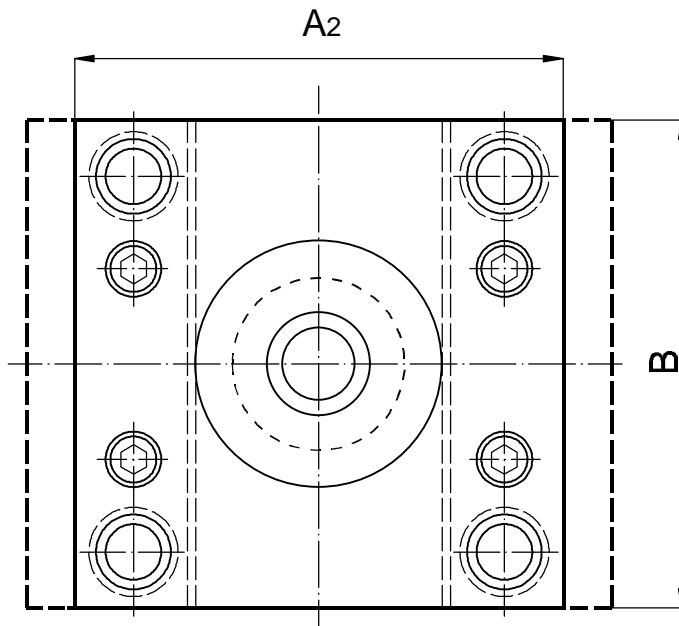
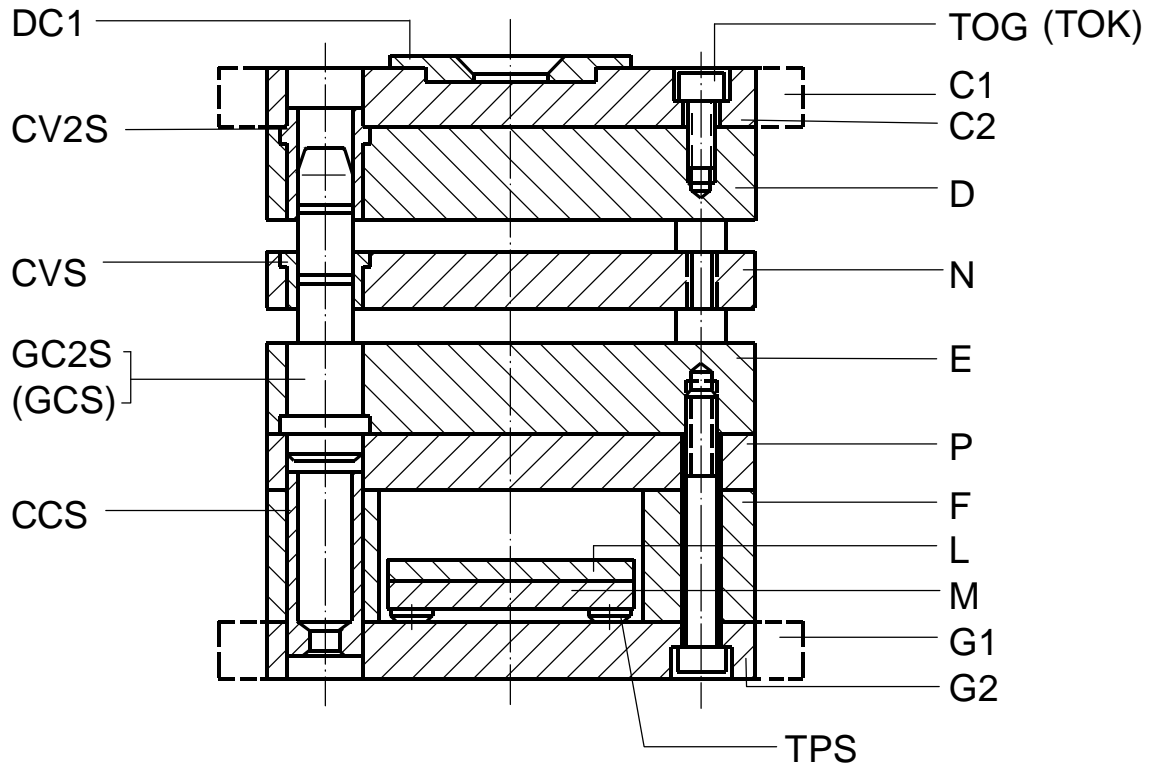
| L | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|------|
| 17 | 21 | 26 | 35 | 45 | 55 | 65 | 75 | 95 | |
| | | | | | | | | | l=65 |

Material: DIN 1.7242 Dureza: 60 - 62 HRc

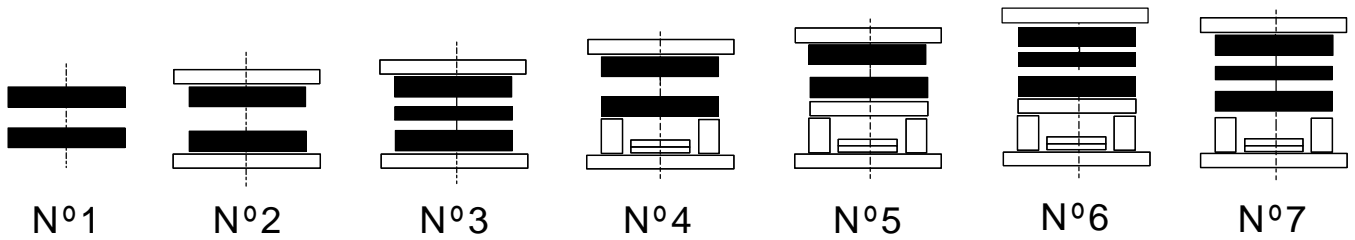
Tornillo cilíndrico TOG / Socket cap screw TOG

| | | | | | | | |
|---|-----|-----|-----|----|-----|-----|-----|
| L | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
| | 60 | 70 | 80 | 90 | 100 | 110 | 120 |
| | 130 | 140 | 150 | | | | |

Calidad: 8.8 (8 G) Resistencia a la tracción: 80 - 100 kg/mm²



Ejemplo montaje guías / *Examples guide assemblies* / *Beispiele montage fuhrungen*



Elección del número de placas para la composición del montaje.

Selection of the number of plates for the mould assembly.

Wahl der Anzahl von platten für die zusammenstellung des gestells.

| A ₂ / B | 95 | 130 | 156 | 196 | 246 | 296 | 346 | 396 | 446 | 496 | 546 | 596 | 696 | 796 | 896 | 996 |
|--------------------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 95 | ■ | | | | | | | | | | | | | | | |
| 100 | | ■ | | | | | | | | | | | | | | |
| 156 | | | ■ | ■ | ■ | ■ | | | | | | | | | | |
| 190 | | | | ■ | | | | | | | | | | | | |
| 196 | | | | ■ | ■ | ■ | ■ | ■ | | | | | | | | |
| 218 | | | | ■ | ■ | ■ | ■ | ■ | | | | | | | | |
| 246 | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | |
| 296 | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | |
| 346 | | | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| 396 | | | | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 446 | | | | | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 496 | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 546 | | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | ■ |
| 596 | | | | | | | | | | | | ■ | ■ | ■ | ■ | ■ |
| 696 | | | | | | | | | | | | | ■ | ■ | ■ | ■ |
| 796 | | | | | | | | | | | | | | ■ | ■ | ■ |

Forma de pedido: Montaje VAP - SS - nº ...Tipo DxNxExMat. / C1(C2)xPxG1(G22)xF.Mat.

Ejemplo: VAP - SS - nº 6 / 156x196x56x27x76x1.2162 / C1, 22x 27xG1,22x76x1.1730

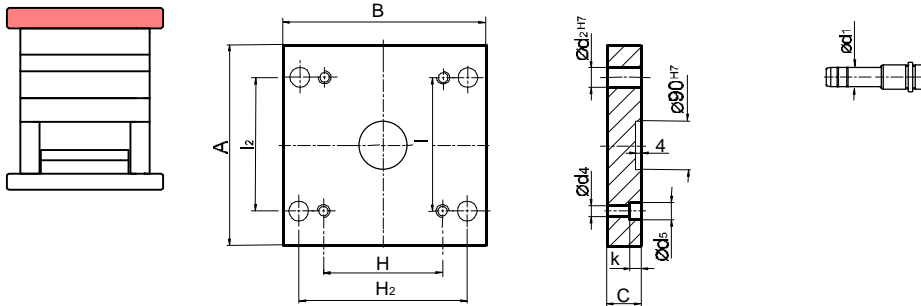
Order: Assembly VAP - SS - nº ...Type DxNxExMat. / C1(C2)xPxG1(G22)xF.Mat.

Example: VAP - SS - nº 6 / 156x196x56x27x76x1.2162 / C1, 22x27xG1,22x76x1.1730

Auftragsform: Gestell VAP - SS - nº ...Type DxNxExMat. / C1(C2)xPxG1(G22)xF.Mat.

Beispiel: VAP - SS - nº 6 / 156x196x56x27x76x1.2162 / C1, 22x27xG1,22x76x1.1730

Placas de fijación / Clamping plate / Aufspannplatte



Material DIN 1.2311, 1.1730

| TIPO | A | B | C | H | H ₂ | l | l ₂ | d ₁ | d ₂ | d ₄ | d ₅ | k |
|-----------|------|-----|---------|-----|----------------|-----|----------------|----------------|----------------|----------------|----------------|------|
| 95 x 95 | Ø156 | | 22 | 46 | 75 | 75 | 75 | 9 - 10 | 14 | 6,6 | 11 | 12,4 |
| 100 x 130 | 156 | 156 | 22 | 52 | 108 | 80 | 80 | 9 - 10 | 14 | 6,6 | 11 | 12,4 |
| 156 x 156 | 206 | 156 | 22 - 27 | 72 | 122 | 122 | 122 | 14 - 15 | 20 | 11 | 18 | 13 |
| 156 x 196 | 206 | 196 | 22 - 27 | 114 | 156 | 126 | 120 | 14 - 15 | 20 | 11 | 18 | 13 |
| 156 x 246 | 196 | 246 | 22 - 27 | 162 | 212 | 122 | 122 | 14 - 15 | 20 | 11 | 18 | 13 |
| 156 x 296 | 196 | 296 | 27 | 212 | 262 | 122 | 122 | 14 - 15 | 20 | 11 | 18 | 13 |
| 190 x 246 | 254 | 246 | 22 - 27 | 150 | 202 | 148 | 148 | 18 - 20 | 26 | 11 | 18 | 13 |
| 196 x 196 | 246 | 196 | 22 - 27 | 100 | 152 | 154 | 154 | 22 - 24 | 26 | 11 | 18 | 13 |
| 196 x 296 | 246 | 296 | 27 - 36 | 186 | 244 | 150 | 150 | 22 - 24 | 30 | 14 | 20 | 15,5 |
| 196 x 346 | 246 | 346 | 27 - 36 | 236 | 294 | 150 | 150 | 22 - 24 | 30 | 14 | 20 | 15,5 |
| 196 x 396 | 246 | 396 | 36 | 274 | 344 | 144 | 144 | 18 - 20 | 30 | 14 | 20 | 15,5 |
| 218 x 246 | 276 | 246 | 22 - 27 | 140 | 202 | 176 | 176 | 22 - 24 | 26 | 11 | 18 | 13 |
| 218 x 296 | 276 | 296 | 27 - 36 | 186 | 244 | 172 | 172 | 22 - 24 | 30 | 14 | 20 | 15,5 |
| 246 x 246 | 296 | 246 | 27 - 36 | 130 | 200 | 200 | 200 | 22 - 24 | 30 | 14 | 20 | 15,5 |
| 246 x 296 | 296 | 296 | 27 - 36 | 186 | 244 | 200 | 200 | 22 - 24 | 30 | 14 | 20 | 15,5 |
| 246 x 346 | 296 | 346 | 27 - 36 | 224 | 294 | 194 | 194 | 22 - 24 | 30 | 14 | 20 | 15,5 |
| 246 x 396 | 296 | 396 | 27 - 36 | 284 | 340 | 198 | 198 | 22 - 24 | 30 | 14 | 20 | 15,5 |
| 246 x 446 | 296 | 446 | 36 | 324 | 394 | 194 | 194 | 22 - 24 | 30 | 14 | 20 | 15,5 |
| 246 x 496 | 296 | 496 | 36 | 374 | 444 | 194 | 194 | 22 - 24 | 30 | 14 | 20 | 15,5 |
| 296 x 296 | 346 | 296 | 27 - 36 | 186 | 244 | 250 | 250 | 22 - 24 | 30 | 14 | 20 | 15,5 |
| 296 x 346 | 346 | 346 | 27 - 36 | 224 | 294 | 244 | 244 | 22 - 24 | 30 | 14 | 20 | 15,5 |
| 296 x 396 | 346 | 396 | 27 - 36 | 284 | 340 | 248 | 248 | 22 - 24 | 30 | 14 | 20 | 15,5 |
| 296 x 446 | 346 | 446 | 36 | 324 | 394 | 244 | 244 | 22 - 24 | 30 | 14 | 20 | 15,5 |
| 296 x 496 | 346 | 496 | 36 | 374 | 444 | 244 | 244 | 22 - 24 | 30 | 14 | 20 | 15,5 |
| 296 x 546 | 346 | 546 | 36 | 424 | 494 | 244 | 244 | 22 - 24 | 30 | 14 | 20 | 15,5 |
| 296 x 596 | 346 | 596 | 36 | 474 | 544 | 244 | 244 | 22 - 24 | 30 | 14 | 20 | 15,5 |
| 296 x 696 | 346 | 696 | 46 | 530 | 624 | 224 | 224 | 22 - 24 | 30 | 14 | 20 | 15,5 |
| 346 x 346 | 396 | 346 | 27 - 36 | 224 | 294 | 294 | 294 | 30 - 32 | 42 | 18 | 26 | 21 |
| 346 x 396 | 396 | 396 | 36 - 46 | 230 | 316 | 274 | 274 | 22 - 24 | 30 | 14 | 20 | 15,5 |
| 346 x 446 | 396 | 446 | 36 - 46 | 280 | 374 | 274 | 274 | 30 - 32 | 42 | 18 | 26 | 21 |
| 346 x 496 | 396 | 496 | 36 - 46 | 330 | 416 | 274 | 274 | 30 - 32 | 42 | 18 | 26 | 21 |
| 346 x 546 | 396 | 546 | 46 | 380 | 474 | 274 | 274 | 30 - 32 | 42 | 18 | 26 | 21 |
| 346 x 596 | 396 | 596 | 46 | 430 | 524 | 274 | 274 | 30 - 32 | 42 | 18 | 26 | 21 |
| 346 x 696 | 446 | 696 | 46 | 530 | 624 | 274 | 274 | 30 - 32 | 42 | 18 | 26 | 21 |
| 346 x 796 | 446 | 796 | 46 - 56 | 630 | 724 | 274 | 274 | 30 - 32 | 42 | 18 | 26 | 21 |

Forma de pedido: Placa C1S / A x B x C x Mat. - **Ejemplo:** C1S / 254 x 246 x 27 x 1.1730.

Order: Plate C1S / A x B x C x Mat. - **Example:** C1S / 254 x 246 x 27 x 1.1730.

Auftransform: Platte C1S / A x B x C x Mat. - **Beispiel:** C1S / 254 x 246 x 27 x 1.1730.

Placas de fijación / Clamping plate / Aufspannplatte

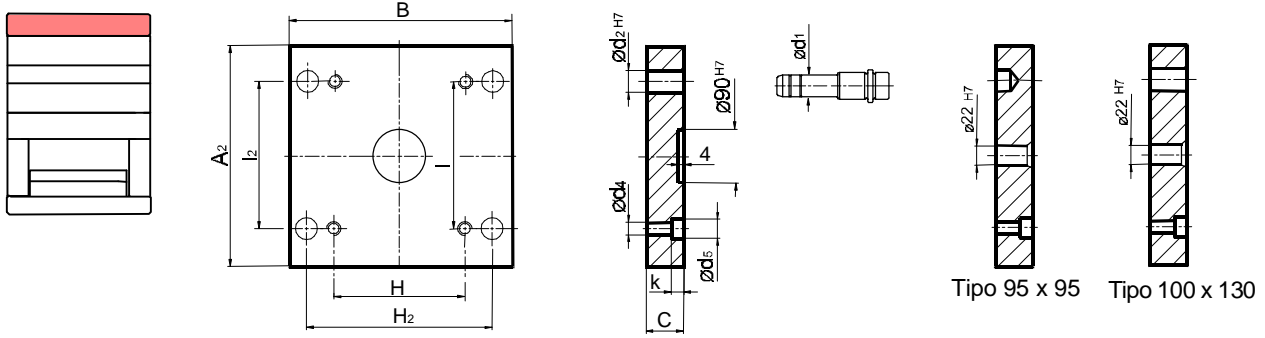
| TIPO | A | B | C | H | H ₂ | I | I ₂ | d ₁ | d ₂ | d ₄ | d ₅ | k |
|-----------|-----|-----|---------|-----|----------------|-----|----------------|----------------|----------------|----------------|----------------|----|
| 396 x 396 | 446 | 396 | 36 - 46 | 230 | 324 | 324 | 324 | 30 - 32 | 42 | 18 | 26 | 21 |
| 396 x 446 | 446 | 446 | 36 - 46 | 280 | 374 | 324 | 324 | 30 - 32 | 42 | 18 | 26 | 21 |
| 396 x 496 | 446 | 496 | 46 | 330 | 424 | 324 | 324 | 30 - 32 | 42 | 18 | 26 | 21 |
| 396 x 546 | 496 | 546 | 36 - 46 | 380 | 466 | 324 | 324 | 30 - 32 | 42 | 18 | 26 | 21 |
| 396 x 596 | 496 | 596 | 46 | 430 | 524 | 324 | 324 | 30 - 32 | 42 | 18 | 26 | 21 |
| 396 x 696 | 496 | 696 | 56 | 530 | 624 | 324 | 324 | 30 - 32 | 42 | 18 | 26 | 21 |
| 396 x 796 | 496 | 796 | 46 - 56 | 630 | 724 | 324 | 324 | 30 - 32 | 42 | 18 | 26 | 21 |
| 396 x 896 | 496 | 896 | 46 - 56 | 730 | 824 | 324 | 324 | 30 - 32 | 42 | 18 | 26 | 21 |
| 446 x 446 | 546 | 446 | 36 - 46 | 280 | 374 | 374 | 374 | 30 - 32 | 42 | 18 | 26 | 21 |
| 446 x 496 | 546 | 496 | 46 | 330 | 424 | 374 | 374 | 30 - 32 | 42 | 18 | 26 | 21 |
| 446 x 546 | 546 | 546 | 46 | 380 | 474 | 374 | 374 | 30 - 32 | 42 | 18 | 26 | 21 |
| 446 x 596 | 546 | 596 | 46 | 430 | 524 | 374 | 374 | 30 - 32 | 42 | 18 | 26 | 21 |
| 446 x 696 | 546 | 696 | 56 | 530 | 624 | 374 | 374 | 30 - 32 | 42 | 18 | 26 | 21 |
| 446 x 796 | 546 | 796 | 56 | 630 | 724 | 374 | 374 | 30 - 32 | 42 | 18 | 26 | 21 |
| 446 x 896 | 546 | 896 | 56 | 730 | 824 | 374 | 374 | 30 - 32 | 42 | 18 | 26 | 21 |
| 496 x 496 | 596 | 496 | 56 | 330 | 424 | 424 | 424 | 30 - 32 | 42 | 18 | 26 | 21 |
| 496 x 546 | 596 | 546 | 56 | 380 | 474 | 424 | 424 | 30 - 32 | 42 | 18 | 26 | 21 |
| 496 x 596 | 596 | 596 | 56 | 430 | 524 | 424 | 424 | 30 - 32 | 42 | 18 | 26 | 21 |
| 496 x 696 | 596 | 696 | 56 | 530 | 624 | 424 | 424 | 30 - 32 | 42 | 18 | 26 | 21 |
| 496 x 796 | 596 | 796 | 56 | 574 | 692 | 392 | 392 | 40 - 42 | 54 | 22 | 33 | 22 |
| 496 x 896 | 596 | 896 | 56 | 674 | 792 | 392 | 392 | 40 - 42 | 54 | 22 | 33 | 22 |
| 496 x 996 | 596 | 996 | 56 | 774 | 892 | 392 | 392 | 40 - 42 | 54 | 22 | 33 | 22 |
| 546 x 546 | 646 | 546 | 56 | 380 | 474 | 474 | 474 | 30 - 32 | 42 | 18 | 26 | 21 |
| 546 x 596 | 646 | 596 | 56 | 430 | 524 | 474 | 474 | 30 - 32 | 42 | 18 | 26 | 21 |
| 546 x 696 | 646 | 696 | 56 | 530 | 624 | 474 | 474 | 30 - 32 | 42 | 18 | 26 | 21 |
| 546 x 796 | 646 | 796 | 56 | 574 | 692 | 442 | 442 | 40 - 42 | 54 | 22 | 33 | 22 |
| 546 x 896 | 646 | 896 | 56 | 674 | 792 | 442 | 442 | 40 - 42 | 54 | 22 | 33 | 22 |
| 546 x 996 | 646 | 996 | 56 | 774 | 892 | 442 | 442 | 40 - 42 | 54 | 22 | 33 | 22 |
| 596 x 596 | 696 | 596 | 56 | 430 | 524 | 524 | 524 | 30 - 32 | 42 | 18 | 26 | 22 |
| 596 x 696 | 696 | 696 | 56 | 474 | 592 | 492 | 492 | 40 - 42 | 54 | 22 | 33 | 22 |
| 596 x 796 | 696 | 796 | 56 | 574 | 692 | 492 | 492 | 40 - 42 | 54 | 22 | 33 | 22 |
| 596 x 896 | 696 | 896 | 56 | 674 | 792 | 492 | 492 | 40 - 42 | 54 | 22 | 33 | 22 |
| 596 x 996 | 696 | 996 | 56 | 774 | 892 | 492 | 492 | 40 - 42 | 54 | 22 | 33 | 22 |
| 696 x 696 | 796 | 696 | 76 | 474 | 592 | 592 | 592 | 40 - 42 | 54 | 22 | 33 | 22 |
| 696 x 796 | 796 | 796 | 76 | 574 | 692 | 592 | 592 | 40 - 42 | 54 | 22 | 33 | 22 |
| 696 x 896 | 796 | 896 | 76 | 674 | 792 | 592 | 592 | 40 - 42 | 54 | 22 | 33 | 22 |
| 696 x 996 | 796 | 996 | 76 | 774 | 892 | 592 | 592 | 40 - 42 | 54 | 22 | 33 | 22 |
| 796 x 796 | 896 | 796 | 76 | 574 | 692 | 692 | 692 | 40 - 42 | 54 | 22 | 33 | 22 |
| 796 x 896 | 896 | 896 | 76 | 674 | 792 | 692 | 692 | 40 - 42 | 54 | 22 | 33 | 22 |
| 796 x 996 | 896 | 996 | 76 | 774 | 892 | 692 | 692 | 40 - 42 | 54 | 22 | 33 | 22 |

Forma de pedido: Placa C1S / A x B x C x Mat. - **Ejemplo:** C1S / 254 x 246 x 27 x 1.1730.

Order: Plate C1S / A x B x C x Mat. - **Example:** C1S / 254 x 246 x 27 x 1.1730.

Auftransform: Platte C1S / A x B x C x Mat. - **Beispiel:** C1S / 254 x 246 x 27 x 1.1730.

Placas de fijación / Clamping plate / Aufspannplatte



Material DIN 1.2311, 1.1730

| A2 | B | C | H | H2 | l | l2 | d1 | d2 | d4 | d5 | k |
|-----|-----|---------|-----|-----|-----|-----|---------|----|-----|----|------|
| 95 | 95 | 12 - 17 | 46 | 75 | 75 | 75 | 9 - 10 | 14 | 6,6 | 11 | 8,4 |
| 100 | 130 | 12 - 17 | 52 | 108 | 80 | 80 | 9 - 10 | 14 | 6,6 | 11 | 8,4 |
| 156 | 156 | 17 - 22 | 72 | 122 | 122 | 122 | 14 - 15 | 20 | 11 | 18 | 13 |
| 156 | 196 | 17 - 22 | 114 | 156 | 126 | 120 | 14 - 15 | 20 | 11 | 18 | 13 |
| 156 | 246 | 17 - 22 | 162 | 212 | 122 | 122 | 14 - 15 | 20 | 11 | 18 | 13 |
| 156 | 296 | 22 | 212 | 262 | 122 | 122 | 14 - 15 | 20 | 11 | 18 | 13 |
| 190 | 246 | 17 - 22 | 150 | 202 | 148 | 148 | 18 - 20 | 26 | 11 | 18 | 13 |
| 196 | 196 | 17 - 22 | 100 | 152 | 154 | 154 | 18 - 20 | 26 | 11 | 18 | 13 |
| 196 | 296 | 22 - 27 | 186 | 244 | 150 | 150 | 22 - 24 | 30 | 14 | 20 | 15,5 |
| 196 | 346 | 22 - 27 | 236 | 294 | 150 | 150 | 22 - 24 | 30 | 14 | 20 | 15,5 |
| 196 | 396 | 27 | 274 | 344 | 144 | 144 | 22 - 24 | 30 | 14 | 20 | 15,5 |
| 218 | 246 | 17 - 22 | 140 | 202 | 176 | 176 | 18 - 20 | 26 | 11 | 18 | 13 |
| 218 | 296 | 27 - 36 | 186 | 244 | 172 | 172 | 22 - 24 | 30 | 14 | 20 | 15,5 |
| 246 | 246 | 22 - 27 | 130 | 200 | 200 | 200 | 22 - 24 | 30 | 14 | 20 | 15,5 |
| 246 | 296 | 22 - 27 | 186 | 244 | 200 | 200 | 22 - 24 | 30 | 14 | 20 | 15,5 |
| 246 | 346 | 22 - 27 | 224 | 294 | 194 | 194 | 22 - 24 | 30 | 14 | 20 | 15,5 |
| 246 | 396 | 22 - 27 | 284 | 340 | 198 | 198 | 22 - 24 | 30 | 14 | 20 | 15,5 |
| 246 | 446 | 27 | 324 | 394 | 194 | 194 | 22 - 24 | 30 | 14 | 20 | 15,5 |
| 246 | 496 | 27 | 374 | 444 | 194 | 194 | 22 - 24 | 30 | 14 | 20 | 15,5 |
| 296 | 296 | 22 - 27 | 186 | 244 | 250 | 250 | 22 - 24 | 30 | 14 | 20 | 15,5 |
| 296 | 346 | 22 - 27 | 224 | 294 | 244 | 244 | 22 - 24 | 30 | 14 | 20 | 15,5 |
| 296 | 396 | 22 - 27 | 284 | 340 | 248 | 248 | 22 - 24 | 30 | 14 | 20 | 15,5 |
| 296 | 446 | 27 | 324 | 394 | 244 | 244 | 22 - 24 | 30 | 14 | 20 | 15,5 |
| 296 | 496 | 27 | 374 | 444 | 244 | 244 | 22 - 24 | 30 | 14 | 20 | 15,5 |
| 296 | 546 | 36 | 424 | 494 | 244 | 244 | 22 - 24 | 30 | 14 | 20 | 15,5 |
| 296 | 596 | 27 | 474 | 544 | 244 | 244 | 22 - 24 | 30 | 14 | 20 | 15,5 |
| 296 | 696 | 36 | 530 | 624 | 224 | 224 | 30 - 32 | 42 | 18 | 26 | 21 |
| 346 | 346 | 22-27 | 224 | 294 | 294 | 294 | 22 - 24 | 30 | 14 | 20 | 15,5 |
| 346 | 396 | 27-36 | 230 | 316 | 274 | 274 | 30 - 32 | 42 | 18 | 26 | 21 |
| 346 | 446 | 27-36 | 280 | 374 | 274 | 274 | 30 - 32 | 42 | 18 | 26 | 21 |
| 346 | 496 | 27-36 | 330 | 416 | 274 | 274 | 30 - 32 | 42 | 18 | 26 | 21 |
| 346 | 546 | 36 | 380 | 474 | 274 | 274 | 30 - 32 | 42 | 18 | 26 | 21 |
| 346 | 596 | 36 | 430 | 524 | 274 | 274 | 30 - 32 | 42 | 18 | 26 | 21 |
| 346 | 696 | 36 | 530 | 624 | 274 | 274 | 30 - 32 | 42 | 18 | 26 | 21 |
| 346 | 796 | 46 - 56 | 630 | 724 | 274 | 274 | 30 - 32 | 42 | 18 | 26 | 21 |

Forma de pedido: Placa C2S / A2 x B x C x Mat. - **Ejemplo:** C2S / 254 x 246 x 27 x 1.1730.

Order: Plate C2S / A2 x B x C x Mat. - **Example:** C2S / 254 x 246 x 27 x 1.1730.

Auftransform: Platte C2S / A2 x B x C x Mat. - **Beispiel:** C2S / 254 x 246 x 27 x 1.1730.

Placas de fijación / Clamping plate / Aufspannplatte

Material DIN 1.2311, 1.1730

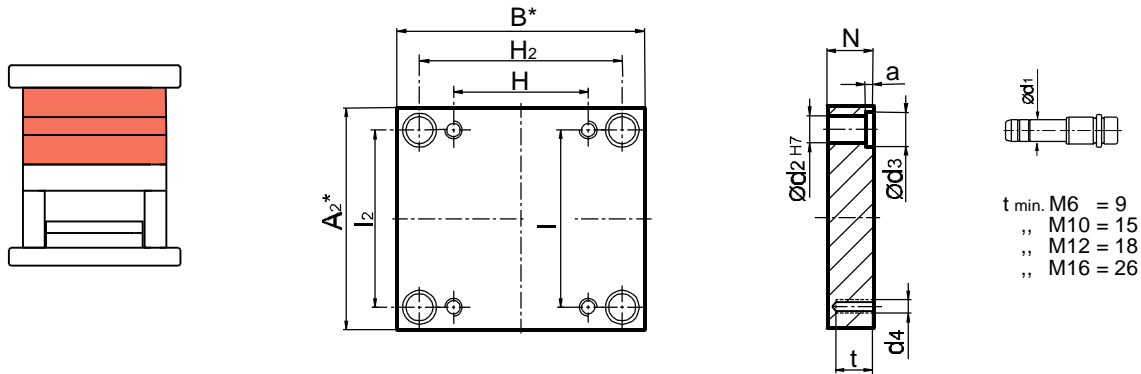
| A ₂ | B | G | H | H ₂ | I | I ₂ | d ₁ | d ₂ | d ₄ | d ₅ | k |
|----------------|-----|---------|-----|----------------|-----|----------------|----------------|----------------|----------------|----------------|----|
| 396 | 396 | 27 - 36 | 230 | 324 | 324 | 324 | 30 - 32 | 42 | 18 | 26 | 21 |
| 396 | 446 | 27 - 36 | 280 | 374 | 324 | 324 | 30 - 32 | 42 | 18 | 26 | 21 |
| 396 | 496 | 36 | 330 | 416 | 324 | 324 | 30 - 32 | 42 | 18 | 26 | 21 |
| 396 | 546 | 27 - 36 | 380 | 474 | 324 | 324 | 30 - 32 | 42 | 18 | 26 | 21 |
| 396 | 596 | 36 | 430 | 524 | 324 | 324 | 30 - 32 | 42 | 18 | 26 | 21 |
| 396 | 696 | 46 | 530 | 624 | 324 | 324 | 30 - 32 | 42 | 18 | 26 | 21 |
| 396 | 796 | 46 - 56 | 630 | 724 | 324 | 324 | 30 - 32 | 42 | 18 | 26 | 21 |
| 396 | 896 | 46 - 56 | 730 | 824 | 324 | 324 | 30 - 32 | 42 | 18 | 26 | 21 |
| 446 | 446 | 27 - 36 | 280 | 374 | 374 | 374 | 30 - 32 | 42 | 18 | 26 | 21 |
| 446 | 496 | 36 | 330 | 424 | 374 | 374 | 30 - 32 | 42 | 18 | 26 | 21 |
| 446 | 546 | 46 | 380 | 474 | 374 | 374 | 30 - 32 | 42 | 18 | 26 | 21 |
| 446 | 596 | 36 | 430 | 524 | 374 | 374 | 30 - 32 | 42 | 18 | 26 | 21 |
| 446 | 696 | 56 | 530 | 624 | 374 | 374 | 30 - 32 | 42 | 18 | 26 | 21 |
| 446 | 796 | 56 | 630 | 724 | 374 | 374 | 30 - 32 | 42 | 18 | 26 | 21 |
| 446 | 896 | 56 | 730 | 824 | 374 | 374 | 30 - 32 | 42 | 18 | 26 | 21 |
| 496 | 496 | 46 | 330 | 424 | 424 | 424 | 30 - 32 | 42 | 18 | 26 | 21 |
| 496 | 546 | 56 | 380 | 474 | 424 | 424 | 30 - 32 | 42 | 18 | 26 | 21 |
| 496 | 596 | 46 | 430 | 524 | 424 | 424 | 30 - 32 | 42 | 18 | 26 | 21 |
| 496 | 696 | 46 | 530 | 624 | 424 | 424 | 30 - 32 | 42 | 18 | 26 | 21 |
| 496 | 796 | 56 | 574 | 692 | 392 | 392 | 40 - 42 | 54 | 22 | 33 | 22 |
| 496 | 896 | 56 | 674 | 792 | 392 | 392 | 40 - 42 | 54 | 22 | 33 | 22 |
| 496 | 996 | 56 | 774 | 892 | 392 | 392 | 40 - 42 | 54 | 22 | 33 | 22 |
| 546 | 546 | 56 | 380 | 474 | 474 | 474 | 30 - 32 | 42 | 18 | 26 | 21 |
| 546 | 596 | 56 | 430 | 524 | 474 | 474 | 30 - 32 | 42 | 18 | 26 | 21 |
| 546 | 696 | 56 | 530 | 624 | 474 | 474 | 30 - 32 | 42 | 18 | 26 | 21 |
| 546 | 796 | 56 | 574 | 692 | 442 | 442 | 40 - 42 | 54 | 22 | 33 | 22 |
| 546 | 896 | 56 | 674 | 792 | 442 | 442 | 40 - 42 | 54 | 22 | 33 | 22 |
| 546 | 996 | 56 | 774 | 892 | 442 | 442 | 40 - 42 | 54 | 22 | 33 | 22 |
| 596 | 596 | 56 | 430 | 524 | 524 | 524 | 30 - 32 | 42 | 18 | 26 | 22 |
| 596 | 696 | 56 | 474 | 592 | 492 | 492 | 40 - 42 | 54 | 22 | 33 | 22 |
| 596 | 796 | 56 | 574 | 692 | 492 | 492 | 40 - 42 | 54 | 22 | 33 | 22 |
| 596 | 896 | 56 | 674 | 792 | 492 | 492 | 40 - 42 | 54 | 22 | 33 | 22 |
| 596 | 996 | 56 | 774 | 892 | 492 | 492 | 40 - 42 | 54 | 22 | 33 | 22 |
| 696 | 696 | 76 | 474 | 592 | 592 | 592 | 40 - 42 | 54 | 22 | 33 | 22 |
| 696 | 796 | 76 | 574 | 692 | 592 | 592 | 40 - 42 | 54 | 22 | 33 | 22 |
| 696 | 896 | 76 | 674 | 792 | 592 | 592 | 40 - 42 | 54 | 22 | 33 | 22 |
| 696 | 996 | 76 | 774 | 892 | 592 | 592 | 40 - 42 | 54 | 22 | 33 | 22 |
| 796 | 796 | 76 | 574 | 692 | 692 | 692 | 40 - 42 | 54 | 22 | 33 | 22 |
| 796 | 896 | 76 | 674 | 792 | 692 | 692 | 40 - 42 | 54 | 22 | 33 | 22 |
| 796 | 996 | 76 | 774 | 892 | 692 | 692 | 40 - 42 | 54 | 22 | 33 | 22 |

Forma de pedido: Placa C2S / A₂ x B x C x Mat. - **Ejemplo:** C2S / 254 x 246 x 27 x 1.1730.

Order: Plate C2S / A₂ x B x C x Mat. - **Example:** C2S / 254 x 246 x 27 x 1.1730.

Auftransform: Platte C2S / A₂ x B x C x Mat. - **Beispiel:** C2S / 254 x 246 x 27 x 1.1730.

Placas alojamiento cavidad / Cavity plate / Formplatte



Material DIN 1.2344, 1.2162, 1.2311, 1.1730

| TIPO | A ₂ * | B* | H | H ₂ | l | l ₂ | D-N-E | d ₁ | d ₂ | d ₃ | d ₄ | a |
|-----------|------------------|-------|-----|----------------|-----|----------------|---|----------------|----------------|----------------|----------------|-----|
| 95 x 95 | 94,7 | 94,7 | 46 | 75 | 75 | 75 | 17 - 22 - 27 - 36 - 46 - 56 | 9-10 | 14 | 16,5 | M6 | 3,2 |
| 100 x 130 | 99,7 | 129,7 | 52 | 108 | 80 | 80 | 17 - 22 - 27 - 36 - 46 - 56 | 9-10 | 14 | 16,5 | M6 | 3,2 |
| 156 x 156 | 155,7 | 155,7 | 72 | 122 | 122 | 122 | 22 - 27 - 36 - 46 - 56 - 66 - 76 | 14-15 | 20 | 26 | M10 | 6,3 |
| 156 x 196 | 155,7 | 195,7 | 114 | 156 | 126 | 126 | 22 - 27 - 36 - 46 - 56 - 66 - 76 | 14-15 | 20 | 26 | M10 | 6,3 |
| 156 x 246 | 155,7 | 245,7 | 162 | 212 | 122 | 122 | 22 - 27 - 36 - 46 - 56 - 66 - 76 | 14-15 | 20 | 26 | M10 | 6,3 |
| 156 x 296 | 155,7 | 295,7 | 212 | 262 | 122 | 122 | 22 - 27 - 36 - 46 - 56 - 66 - 76 | 14-15 | 20 | 26 | M10 | 6,3 |
| 190 x 246 | 189,7 | 245,7 | 150 | 202 | 148 | 148 | 22 - 27 - 36 - 46 - 56 - 66 - 76 - 96 | 18-20 | 26 | 32 | M10 | 6,3 |
| 196 x 196 | 195,7 | 195,7 | 100 | 152 | 154 | 154 | 22 - 27 - 36 - 46 - 56 - 66 - 76 - 96 | 18-20 | 26 | 32 | M10 | 6,3 |
| 196 x 296 | 195,7 | 295,7 | 186 | 244 | 150 | 150 | 22 - 27 - 36 - 46 - 56 - 66 - 76 - 96 | 22-24 | 30 | 36 | M12 | 6,3 |
| 196 x 346 | 195,7 | 345,7 | 236 | 294 | 150 | 150 | 22 - 27 - 36 - 46 - 56 - 66 - 76 - 96 | 22-24 | 30 | 36 | M12 | 6,3 |
| 196 x 396 | 195,7 | 395,7 | 274 | 344 | 144 | 144 | 27 - 36 - 46 - 56 - 66 - 76 - 96 | 22-24 | 30 | 36 | M12 | 6,3 |
| 218 x 246 | 217,7 | 245,7 | 140 | 202 | 176 | 176 | 22 - 27 - 36 - 46 - 56 - 66 - 76 - 96 | 18-20 | 26 | 32 | M10 | 6,3 |
| 218 x 296 | 217,7 | 295,7 | 186 | 244 | 172 | 172 | 22 - 27 - 36 - 46 - 56 - 66 - 76 - 96 | 22-24 | 30 | 36 | M12 | 6,3 |
| 246 x 246 | 245,7 | 245,7 | 130 | 200 | 200 | 200 | 22 - 27 - 36 - 46 - 56 - 66 - 76 - 96 | 22-24 | 30 | 36 | M12 | 6,3 |
| 246 x 296 | 245,7 | 295,7 | 186 | 244 | 200 | 200 | 27 - 36 - 46 - 56 - 66 - 76 - 96 - 116 | 22-24 | 30 | 36 | M12 | 6,3 |
| 246 x 346 | 245,7 | 345,7 | 224 | 294 | 194 | 194 | 27 - 36 - 46 - 56 - 66 - 76 - 96 - 116 | 22-24 | 30 | 36 | M12 | 6,3 |
| 246 x 396 | 245,7 | 395,7 | 284 | 340 | 198 | 198 | 27 - 36 - 46 - 56 - 66 - 76 - 96 - 116 | 22-24 | 30 | 36 | M12 | 6,3 |
| 246 x 446 | 245,7 | 445,7 | 324 | 394 | 194 | 194 | 27 - 36 - 46 - 56 - 66 - 76 - 96 - 116 | 22-24 | 30 | 36 | M12 | 6,3 |
| 246 x 496 | 245,7 | 495,7 | 374 | 444 | 194 | 194 | 27 - 36 - 46 - 56 - 66 - 76 - 96 - 116 | 22-24 | 30 | 36 | M12 | 6,3 |
| 296 x 296 | 295,7 | 295,7 | 186 | 244 | 250 | 250 | 27 - 36 - 46 - 56 - 66 - 76 - 96 - 116 | 22-24 | 30 | 36 | M12 | 6,3 |
| 296 x 346 | 295,7 | 345,7 | 224 | 294 | 244 | 244 | 27 - 36 - 46 - 56 - 66 - 76 - 96 - 116 | 22-24 | 30 | 36 | M12 | 6,3 |
| 296 x 396 | 295,7 | 395,7 | 284 | 340 | 248 | 248 | 27 - 36 - 46 - 56 - 66 - 76 - 96 - 116 | 22-24 | 30 | 36 | M12 | 6,3 |
| 296 x 446 | 295,7 | 445,7 | 324 | 394 | 244 | 244 | 27 - 36 - 46 - 56 - 66 - 76 - 96 - 116 | 22-24 | 30 | 36 | M12 | 6,3 |
| 296 x 496 | 295,7 | 495,7 | 374 | 444 | 244 | 244 | 27 - 36 - 46 - 56 - 66 - 76 - 96 - 116 | 22-24 | 30 | 36 | M12 | 6,3 |
| 296 x 546 | 295,7 | 545,7 | 424 | 494 | 244 | 244 | 27 - 36 - 46 - 56 - 66 - 76 - 96 - 116 | 22-24 | 30 | 36 | M12 | 6,3 |
| 296 x 596 | 295,7 | 595,7 | 474 | 544 | 244 | 244 | 27 - 36 - 46 - 56 - 66 - 76 - 96 - 116 | 22-24 | 30 | 36 | M12 | 6,3 |
| 296 x 696 | 295,7 | 695,7 | 530 | 624 | 224 | 224 | 36 - 46 - 56 - 66 - 76 - 96 - 116 | 30-32 | 42 | 48 | M16 | 6,3 |
| 346 x 346 | 345,7 | 345,7 | 224 | 294 | 294 | 294 | 27 - 36 - 46 - 56 - 66 - 76 - 96 - 116 | 22-24 | 30 | 36 | M12 | 6,3 |
| 346 x 396 | 345,7 | 395,7 | 230 | 316 | 274 | 274 | 27 - 36 - 46 - 56 - 66 - 76 - 96 - 116 | 30-32 | 42 | 48 | M16 | 6,3 |
| 346 x 446 | 345,7 | 445,7 | 280 | 374 | 274 | 274 | 27 - 36 - 46 - 56 - 66 - 76 - 96 - 116 | 30-32 | 42 | 48 | M16 | 6,3 |
| 346 x 496 | 345,7 | 495,7 | 330 | 416 | 274 | 274 | 27 - 36 - 46 - 56 - 66 - 76 - 96 - 116 | 30-32 | 42 | 48 | M16 | 6,3 |
| 346 x 546 | 345,7 | 545,7 | 380 | 474 | 274 | 274 | 36 - 46 - 56 - 66 - 76 - 96 - 116 - 136 | 30-32 | 42 | 48 | M16 | 6,3 |
| 346 x 596 | 345,7 | 595,7 | 430 | 524 | 274 | 274 | 36 - 46 - 56 - 66 - 76 - 96 - 116 - 136 | 30-32 | 42 | 48 | M16 | 6,3 |
| 346 x 696 | 345,7 | 695,7 | 530 | 624 | 274 | 274 | 36 - 46 - 56 - 66 - 76 - 96 - 116 - 136 | 30-32 | 42 | 48 | M16 | 6,3 |
| 346 x 796 | 345,7 | 795,7 | 630 | 724 | 274 | 274 | 36 - 46 - 56 - 66 - 76 - 96 - 116 - 136 | 30-32 | 42 | 48 | M16 | 6,3 |

Forma de pedido: Placa DS / Tipo x N x Mat. - Ejemplo: DS / 190 x 246 x 36 x 1.2162.

Order: Plate DS / Type x N x Mat. - Example: DS / 190 x 246 x 36 x 1.2162.

Auftransform: Platte DS / Type x N x Mat. - Beispiel: DS / 190 x 246 x 36 x 1.2162.

*A₂, B Lados rectificadas en montaje - Sides ground when assembled - Seiten geschliffen montiert.

Placas alojamiento cavidad / Cavity plate / Formplatte

Material DIN 1.2344, 1.2162, 1.2311, 1.1730

| TIPO | A ₂ * | B* | H | H ₂ | I | I ₂ | D-N-E | d ₁ | d ₂ | d ₃ | d ₄ | a |
|-----------|------------------|-------|-----|----------------|-----|----------------|---|----------------|----------------|----------------|----------------|------|
| 396 x 396 | 395,7 | 395,7 | 230 | 324 | 324 | 324 | 36 - 46 - 56 - 66 - 76 - 96 - 116 | 30-32 | 42 | 48 | M16 | 6,3 |
| 396 x 446 | 395,7 | 445,7 | 280 | 374 | 324 | 324 | 36 - 46 - 56 - 66 - 76 - 96 - 116 | 30-32 | 42 | 48 | M16 | 6,3 |
| 396 x 496 | 395,7 | 495,7 | 330 | 424 | 324 | 324 | 36 - 46 - 56 - 66 - 76 - 96 - 116 - 136 | 30-32 | 42 | 48 | M16 | 6,3 |
| 396 x 546 | 395,7 | 545,7 | 380 | 466 | 324 | 324 | 36 - 46 - 56 - 66 - 76 - 96 - 116 - 136 | 30-32 | 42 | 48 | M16 | 6,3 |
| 396 x 596 | 395,7 | 595,7 | 430 | 524 | 324 | 324 | 36 - 46 - 56 - 66 - 76 - 96 - 116 - 136 | 30-32 | 42 | 48 | M16 | 6,3 |
| 396 x 696 | 395,7 | 695,7 | 530 | 624 | 324 | 324 | 36 - 46 - 56 - 66 - 76 - 96 - 116 - 136 | 30-32 | 42 | 48 | M16 | 6,3 |
| 396 x 796 | 395,7 | 795,7 | 630 | 724 | 324 | 324 | 36 - 46 - 56 - 66 - 76 - 96 - 116 - 136 | 30-32 | 42 | 48 | M16 | 6,3 |
| 396 x 896 | 395,7 | 895,7 | 730 | 824 | 324 | 324 | 36 - 46 - 56 - 66 - 76 - 96 - 116 - 136 | 30-32 | 42 | 48 | M16 | 6,3 |
| 446 x 446 | 445,7 | 445,7 | 280 | 374 | 374 | 374 | 36 - 46 - 56 - 66 - 76 - 96 - 116 - 136 | 30-32 | 42 | 48 | M16 | 6,3 |
| 446 x 496 | 445,7 | 495,7 | 330 | 424 | 374 | 374 | 36 - 46 - 56 - 66 - 76 - 96 - 116 - 136 | 30-32 | 42 | 48 | M16 | 6,3 |
| 446 x 546 | 445,7 | 545,7 | 380 | 474 | 374 | 374 | 36 - 46 - 56 - 66 - 76 - 96 - 116 - 136 | 30-32 | 42 | 48 | M16 | 6,3 |
| 446 x 596 | 445,7 | 595,7 | 430 | 524 | 374 | 374 | 36 - 46 - 56 - 66 - 76 - 96 - 116 - 136 | 30-32 | 42 | 48 | M16 | 6,3 |
| 446 x 696 | 445,7 | 695,7 | 530 | 624 | 374 | 374 | 36 - 46 - 56 - 66 - 76 - 96 - 116-136-156 | 30-32 | 42 | 48 | M16 | 6,3 |
| 446 x 796 | 445,7 | 795,7 | 630 | 724 | 374 | 374 | 36 - 46 - 56 - 66 - 76 - 96 - 116-136-156 | 30 -32 | 42 | 48 | M16 | 6,3 |
| 446 x 896 | 445,7 | 895,7 | 730 | 824 | 374 | 374 | 36 - 46 - 56 - 66 - 76 - 96 - 116-136-156 | 30-32 | 42 | 48 | M16 | 6,3 |
| 496 x 496 | 495,7 | 495,7 | 330 | 424 | 424 | 424 | 46 - 56 - 66 - 76 - 96 - 116-136-156 | 30-32 | 42 | 48 | M16 | 6,3 |
| 496 x 546 | 495,7 | 545,7 | 380 | 474 | 424 | 424 | 46 - 56 - 66 - 76 - 96 - 116-136-156 | 30-32 | 42 | 48 | M16 | 6,3 |
| 496 x 596 | 495,7 | 595,7 | 430 | 524 | 424 | 424 | 46 - 56 - 66 - 76 - 96 - 116-136-156 | 30-32 | 42 | 48 | M16 | 6,3 |
| 496 x 696 | 495,7 | 695,7 | 530 | 624 | 424 | 424 | 46 - 56 - 66 - 76 - 96 - 116-136-156 | 30-32 | 42 | 48 | M20 | 6,3 |
| 496 x 796 | 495,7 | 795,7 | 574 | 692 | 392 | 392 | 46 - 56 - 66 - 76 - 96 - 116-136-156 | 40-42 | 54 | 61 | M20 | 10,3 |
| 496 x 896 | 495,7 | 895,7 | 674 | 792 | 392 | 392 | 46 - 56 - 66 - 76 - 96 - 116-136-156 | 40-42 | 54 | 61 | M20 | 10,3 |
| 496 x 996 | 495,7 | 995,7 | 774 | 892 | 392 | 392 | 46 - 56 - 66 - 76 - 96 - 116-136-156 | 40-42 | 54 | 61 | M20 | 10,3 |
| 546 x 546 | 545,7 | 545,7 | 380 | 474 | 474 | 474 | 46 - 56 - 66 - 76 - 96 - 116-136-156 | 30-32 | 42 | 48 | M16 | 6,3 |
| 546 x 596 | 545,7 | 595,7 | 430 | 524 | 474 | 474 | 46 - 56 - 66 - 76 - 96 - 116-136-156 | 30-32 | 42 | 48 | M16 | 6,3 |
| 546 x 696 | 545,7 | 695,7 | 530 | 624 | 474 | 474 | 46 - 56 - 66 - 76 - 96 - 116-136-156 | 30-32 | 42 | 48 | M16 | 6,3 |
| 546 x 796 | 545,7 | 795,7 | 574 | 692 | 442 | 442 | 46 - 56 - 66 - 76 - 96 - 116-136-156 | 40-42 | 54 | 61 | M20 | 10,3 |
| 546 x 896 | 545,7 | 895,7 | 674 | 792 | 442 | 442 | 46 - 56 - 66 - 76 - 96 - 116-136-156 | 40-42 | 54 | 61 | M20 | 10,3 |
| 546 x 996 | 545,7 | 995,7 | 774 | 892 | 442 | 442 | 46 - 56 - 66 - 76 - 96 - 116-136-156 | 40-42 | 54 | 61 | M20 | 10,3 |
| 596 x 596 | 595,7 | 595,7 | 430 | 524 | 524 | 524 | 46 - 56 - 66 - 76 - 96 - 116-136-156 | 30-32 | 42 | 48 | M16 | 6,3 |
| 596 x 696 | 595,7 | 695,7 | 474 | 592 | 492 | 492 | 46 - 56 - 66 - 76 - 96 - 116-136-156 | 40-42 | 54 | 61 | M20 | 10,3 |
| 596 x 796 | 595,7 | 795,7 | 574 | 692 | 492 | 492 | 46 - 56 - 66 - 76 - 96 - 116-136-156 | 40-42 | 54 | 61 | M20 | 10,3 |
| 596 x 896 | 595,7 | 895,7 | 674 | 792 | 492 | 492 | 46 - 56 - 66 - 76 - 96 - 116-136-156 | 40-42 | 54 | 61 | M20 | 10,3 |
| 596 x 996 | 595,7 | 995,7 | 774 | 892 | 492 | 492 | 46 - 56 - 66 - 76 - 96 - 116-136-156 | 40-42 | 54 | 61 | M20 | 10,3 |
| 696 x 696 | 695,7 | 695,7 | 474 | 592 | 592 | 592 | 46 - 56 - 66 - 76 - 96 - 116-136-156 | 40-42 | 54 | 61 | M20 | 10,3 |
| 696 x 796 | 695,7 | 795,7 | 574 | 692 | 592 | 592 | 46 - 56 - 66 - 76 - 96 - 116-136-156 | 40-42 | 54 | 61 | M20 | 10,3 |
| 696 x 896 | 695,7 | 895,7 | 674 | 792 | 592 | 592 | 46 - 56 - 66 - 76 - 96 - 116-136-156 | 40-42 | 54 | 61 | M20 | 10,3 |
| 696 x 996 | 695,7 | 995,7 | 774 | 892 | 592 | 592 | 46 - 56 - 66 - 76 - 96 - 116-136-156 | 40-42 | 54 | 61 | M20 | 10,3 |
| 796 x 796 | 795,7 | 795,7 | 574 | 692 | 692 | 692 | 46 - 56 - 66 - 76 - 96 - 116-136-156 | 40-42 | 54 | 61 | M20 | 10,3 |
| 796 x 896 | 795,7 | 895,7 | 674 | 792 | 692 | 692 | 46 - 56 - 66 - 76 - 96 - 116-136-156 | 40-42 | 54 | 61 | M20 | 10,3 |
| 796 x 996 | 795,7 | 995,7 | 774 | 892 | 692 | 692 | 46 - 56 - 66 - 76 - 96 - 116-136-156 | 40-42 | 54 | 61 | M20 | 10,3 |

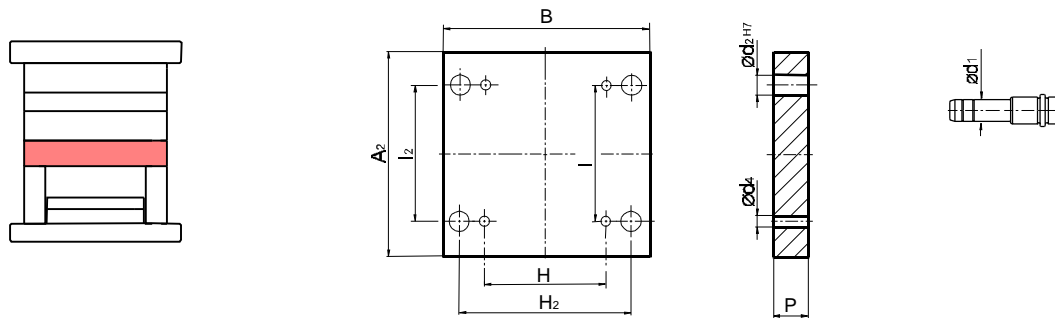
Forma de pedido: Placa DS / Tipo x N x Mat. - Ejemplo: DS / 190 x 246 x 36 x 1.2162.

Order: Plate DS / Type x N x Mat. - Example: DS / 190 x 246 x 36 x 1.2162.

Auftransform: Platte DS / Type x N x Mat. - Beispiel: DS / 190 x 246 x 36 x 1.2162.

 *A₂ ,B Lados rectificados en montaje - Sides ground when assembled - Seiten geschliffen montiert.

Placas intermedia / Backing plate / Zwischenplatte



Material DIN 1.2311, 1.1730

| TIPO | H | H ₂ | l | l ₂ | P | d ₁ | d ₂ | d ₄ |
|-----------|-----|----------------|-----|----------------|---------------------|----------------|----------------|----------------|
| 95 x 95 | 46 | 75 | 75 | 75 | 6 - 12 - 17 | 9 - 10 | 14 | 6,6 |
| 100 x 130 | 52 | 108 | 80 | 80 | 6 - 12 - 17 | 9 - 10 | 14 | 6,6 |
| 156 x 156 | 72 | 122 | 122 | 122 | 27 - 36 | 14 - 15 | 20 | 11 |
| 156 x 196 | 114 | 156 | 126 | 120 | 27 - 36 | 14 - 15 | 20 | 11 |
| 156 x 246 | 162 | 212 | 122 | 122 | 27 - 36 | 14 - 15 | 20 | 11 |
| 156 x 296 | 212 | 262 | 122 | 122 | 27 - 36 | 14 - 15 | 20 | 11 |
| 190 x 246 | 150 | 202 | 148 | 148 | 27 - 36 | 18 - 20 | 26 | 11 |
| 196 x 196 | 100 | 152 | 154 | 154 | 27 - 36 | 18 - 20 | 26 | 11 |
| 196 x 296 | 186 | 244 | 150 | 150 | 36 | 22 - 24 | 30 | 14 |
| 196 x 346 | 236 | 294 | 150 | 150 | 36 | 22 - 24 | 30 | 14 |
| 196 x 396 | 274 | 344 | 144 | 144 | 36 | 22 - 24 | 30 | 14 |
| 218 x 246 | 140 | 202 | 176 | 176 | 27 - 36 | 18 - 20 | 26 | 11 |
| 218 x 296 | 186 | 244 | 172 | 172 | 27 - 36 | 22 - 24 | 30 | 14 |
| 246 x 246 | 130 | 200 | 200 | 200 | 36 | 22 - 24 | 30 | 14 |
| 246 x 296 | 186 | 244 | 200 | 200 | 36 | 22 - 24 | 30 | 14 |
| 246 x 346 | 224 | 294 | 194 | 194 | 27 - 36 - 46 | 22 - 24 | 30 | 14 |
| 246 x 396 | 284 | 340 | 198 | 198 | 27 - 36 - 46 | 22 - 24 | 30 | 14 |
| 246 x 446 | 324 | 394 | 194 | 194 | 27 - 36 - 46 | 22 - 24 | 30 | 14 |
| 246 x 496 | 374 | 444 | 194 | 194 | 27 - 36 - 46 | 22 - 24 | 30 | 14 |
| 296 x 296 | 186 | 244 | 250 | 250 | 27 - 36 - 46 | 22 - 24 | 30 | 14 |
| 296 x 346 | 224 | 294 | 244 | 244 | 27 - 36 - 46 | 22 - 24 | 30 | 14 |
| 296 x 396 | 284 | 340 | 248 | 248 | 27 - 36 - 46 | 22 - 24 | 30 | 14 |
| 296 x 446 | 324 | 394 | 244 | 244 | 27 - 36 - 46 | 22 - 24 | 30 | 14 |
| 296 x 496 | 374 | 444 | 244 | 244 | 27 - 36 - 46 | 22 - 24 | 30 | 14 |
| 296 x 546 | 424 | 494 | 244 | 244 | 36 - 46 | 22 - 24 | 30 | 14 |
| 296 x 596 | 474 | 544 | 244 | 244 | 27 - 36 - 46 | 22 - 24 | 30 | 14 |
| 296 x 696 | 530 | 624 | 224 | 224 | 46 | 30 - 32 | 42 | 18 |
| 346 x 346 | 224 | 294 | 294 | 294 | 27 - 36 - 46 | 22 - 24 | 30 | 14 |
| 346 x 396 | 230 | 316 | 274 | 274 | 46 | 30 - 32 | 42 | 18 |
| 346 x 446 | 280 | 374 | 274 | 274 | 34 - 46 | 30 - 32 | 42 | 18 |
| 346 x 496 | 330 | 416 | 274 | 274 | 46 | 30 - 32 | 42 | 18 |
| 346 x 546 | 380 | 474 | 274 | 274 | 46 | 30 - 32 | 42 | 18 |
| 346 x 596 | 430 | 524 | 274 | 274 | 46 | 30 - 32 | 42 | 18 |
| 346 x 696 | 530 | 624 | 274 | 274 | 36 - 46 | 30 - 32 | 42 | 18 |
| 346 x 796 | 630 | 724 | 274 | 274 | 36 - 46 | 30 - 32 | 42 | 18 |

Forma de pedido: Placa PS / Tipo x P x Mat. - Ejemplo: PS / 190 x 246 x 27 x 1.1730.

Order: Plate PS / Type x P x Mat. - Example: PS / 190 x 246 x 27 x 1.1730.

Auftransform: Platte PS / Type x P x Mat. - Beispiel: PS / 190 x 246 x 27 x 1.1730.

Placas intermedia / Backing plate / Zwischenplatte

Material DIN 1.2311, 1.1730

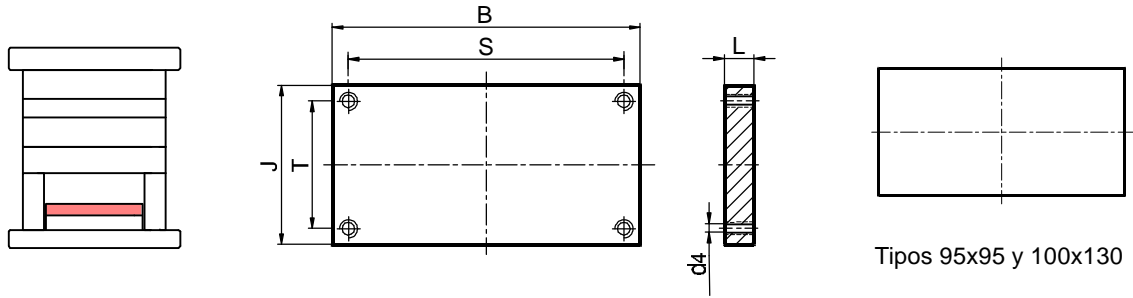
| TIPO | H | H ₂ | I | I ₂ | P | d ₁ | d ₂ | d ₄ |
|-----------|-----|----------------|-----|----------------|---------|----------------|----------------|----------------|
| 396 x 396 | 230 | 324 | 324 | 324 | 46 | 30 - 32 | 42 | 18 |
| 396 x 446 | 280 | 374 | 324 | 324 | 46 | 30 - 32 | 42 | 18 |
| 396 x 496 | 330 | 424 | 324 | 324 | 56 | 30 - 32 | 42 | 18 |
| 396 x 546 | 380 | 466 | 324 | 324 | 56 | 30 - 32 | 42 | 18 |
| 396 x 596 | 430 | 524 | 324 | 324 | 56 | 30 - 32 | 42 | 18 |
| 396 x 696 | 530 | 624 | 324 | 324 | 46 | 30 - 32 | 42 | 18 |
| 396 x 796 | 630 | 724 | 324 | 324 | 30 - 32 | 30 - 32 | 42 | 18 |
| 396 x 896 | 730 | 824 | 324 | 324 | 30 - 32 | 30 - 32 | 42 | 18 |
| 446 x 446 | 280 | 374 | 374 | 374 | 56 | 30 - 32 | 42 | 18 |
| 446 x 496 | 330 | 424 | 374 | 374 | 56 | 30 - 32 | 42 | 18 |
| 446 x 546 | 380 | 474 | 374 | 374 | 46 - 56 | 30 - 32 | 42 | 18 |
| 446 x 596 | 430 | 524 | 374 | 374 | 56 | 30 - 32 | 42 | 18 |
| 446 x 696 | 530 | 624 | 374 | 374 | 46 - 56 | 30 - 32 | 42 | 18 |
| 446 x 796 | 630 | 724 | 374 | 374 | 46 - 56 | 30 - 32 | 42 | 18 |
| 446 x 896 | 730 | 824 | 374 | 374 | 46 - 56 | 30 - 32 | 42 | 18 |
| 496 x 496 | 330 | 424 | 424 | 424 | 56 | 30 - 32 | 42 | 18 |
| 496 x 546 | 380 | 474 | 424 | 424 | 46 - 56 | 30 - 32 | 42 | 18 |
| 496 x 596 | 430 | 524 | 424 | 424 | 56 | 30 - 32 | 42 | 18 |
| 496 x 696 | 530 | 624 | 424 | 424 | 56 | 30 - 32 | 42 | 18 |
| 496 x 796 | 574 | 692 | 392 | 392 | 56 - 76 | 40 - 42 | 54 | 22 |
| 496 x 896 | 674 | 792 | 392 | 392 | 56 - 76 | 40 - 42 | 54 | 22 |
| 496 x 996 | 774 | 892 | 392 | 392 | 56 - 76 | 40 - 42 | 54 | 22 |
| 546 x 546 | 380 | 474 | 474 | 474 | 46 - 56 | 30 - 32 | 42 | 18 |
| 546 x 596 | 430 | 524 | 474 | 474 | 46 - 56 | 30 - 32 | 42 | 18 |
| 546 x 696 | 530 | 624 | 474 | 474 | 46 - 56 | 30 - 32 | 42 | 18 |
| 546 x 796 | 574 | 692 | 442 | 442 | 56 - 76 | 40 - 42 | 54 | 22 |
| 546 x 896 | 674 | 792 | 442 | 442 | 56 - 76 | 40 - 42 | 54 | 22 |
| 546 x 996 | 774 | 892 | 442 | 442 | 56 - 76 | 40 - 42 | 54 | 22 |
| 596 x 596 | 430 | 524 | 524 | 524 | 46 - 56 | 30 - 32 | 42 | 18 |
| 596 x 696 | 474 | 592 | 492 | 492 | 56 - 76 | 40 - 42 | 54 | 22 |
| 596 x 796 | 574 | 692 | 492 | 492 | 56 - 76 | 40 - 42 | 54 | 22 |
| 596 x 896 | 674 | 792 | 492 | 492 | 56 - 76 | 40 - 42 | 54 | 22 |
| 596 x 996 | 774 | 892 | 492 | 492 | 56 - 76 | 40 - 42 | 54 | 22 |
| 696 x 696 | 474 | 592 | 592 | 592 | 56 - 76 | 40 - 42 | 54 | 22 |
| 696 x 796 | 574 | 692 | 592 | 592 | 56 - 76 | 40 - 42 | 54 | 22 |
| 696 x 896 | 674 | 792 | 592 | 592 | 56 - 76 | 40 - 42 | 54 | 22 |
| 696 x 996 | 774 | 892 | 592 | 592 | 56 - 76 | 40 - 42 | 54 | 22 |
| 796 x 796 | 574 | 692 | 692 | 692 | 56 - 76 | 40 - 42 | 54 | 22 |
| 796 x 896 | 674 | 792 | 692 | 692 | 56 - 76 | 40 - 42 | 54 | 22 |
| 796 x 996 | 774 | 892 | 692 | 692 | 56 - 76 | 40 - 42 | 54 | 22 |

Forma de pedido: Placa PS / Tipo x P x Mat. - **Ejemplo:** PS / 190 x 246 x 27 x 1.1730.

Order: Plate PS / Type x P x Mat. - **Example:** PS / 190 x 246 x 27 x 1.1730.

Auftransform: Platte PS / Type x P x Mat. - **Beispiel:** PS / 190 x 246 x 27 x 1.1730.

Placa porta expulsosores / Ejector retainer plate / Auswerferhalteplatte



Material DIN 1.1730

| TIPO | J | B | L | S | T | d4 |
|-----------|-----|-----|----|-----|-----|-----|
| 95 x 95 | 54 | 95 | 6 | - | - | - |
| 100 x 130 | 58 | 130 | 6 | - | - | - |
| 156 x 156 | 90 | 156 | 9 | 100 | 68 | M8 |
| 156 x 196 | 90 | 196 | 9 | 140 | 68 | M8 |
| 156 x 246 | 90 | 246 | 9 | 186 | 68 | M8 |
| 156 x 296 | 90 | 296 | 12 | 236 | 68 | M8 |
| 190 x 246 | 112 | 246 | 12 | 182 | 90 | M8 |
| 196 x 196 | 118 | 196 | 12 | 132 | 96 | M8 |
| 196 x 296 | 108 | 296 | 12 | 230 | 90 | M8 |
| 196 x 346 | 108 | 346 | 12 | 280 | 90 | M8 |
| 196 x 396 | 108 | 396 | 17 | 330 | 90 | M8 |
| 218 x 246 | 140 | 246 | 12 | 182 | 118 | M8 |
| 218 x 296 | 130 | 296 | 12 | 230 | 108 | M8 |
| 246 x 246 | 158 | 246 | 12 | 180 | 130 | M8 |
| 246 x 296 | 158 | 296 | 12 | 230 | 130 | M8 |
| 246 x 346 | 158 | 346 | 17 | 286 | 136 | M8 |
| 246 x 396 | 150 | 396 | 17 | 330 | 122 | M8 |
| 246 x 446 | 158 | 446 | 17 | 380 | 130 | M8 |
| 246 x 496 | 158 | 496 | 17 | 430 | 130 | M8 |
| 296 x 296 | 208 | 296 | 12 | 230 | 180 | M8 |
| 296 x 346 | 208 | 346 | 17 | 286 | 186 | M8 |
| 296 x 396 | 208 | 396 | 17 | 330 | 176 | M8 |
| 296 x 446 | 200 | 446 | 17 | 380 | 184 | M8 |
| 296 x 496 | 208 | 496 | 17 | 418 | 180 | M10 |
| 296 x 546 | 208 | 546 | 17 | 468 | 180 | M10 |
| 296 x 596 | 208 | 596 | 22 | 518 | 180 | M10 |
| 296 x 696 | 208 | 696 | 22 | 620 | 140 | M10 |
| 346 x 346 | 168 | 346 | 17 | 286 | 236 | M8 |
| 346 x 396 | 258 | 396 | 17 | 320 | 190 | M10 |
| 346 x 446 | 218 | 446 | 17 | 364 | 186 | M10 |
| 346 x 496 | 218 | 496 | 17 | 420 | 190 | M10 |
| 346 x 546 | 218 | 546 | 22 | 470 | 190 | M10 |
| 346 x 596 | 218 | 596 | 22 | 520 | 190 | M10 |
| 346 x 696 | 218 | 696 | 22 | 620 | 190 | M10 |
| 346 x 796 | 218 | 796 | 22 | 714 | 186 | M10 |

Forma de pedido: Placa expulsora LS / J x B. - **Ejemplo:** LS / 112 x 246.

Order: Ejection plate LS / J x B. - **Example:** LS / 112 x 246.

Auftransform: Auswerferhalteplatte LS / J x B. - **Beispiel:** LS / 112 x 246.

Placa porta expulsores / Ejector retainer plate / Auswerferhalteplatte

Material DIN 1.1730

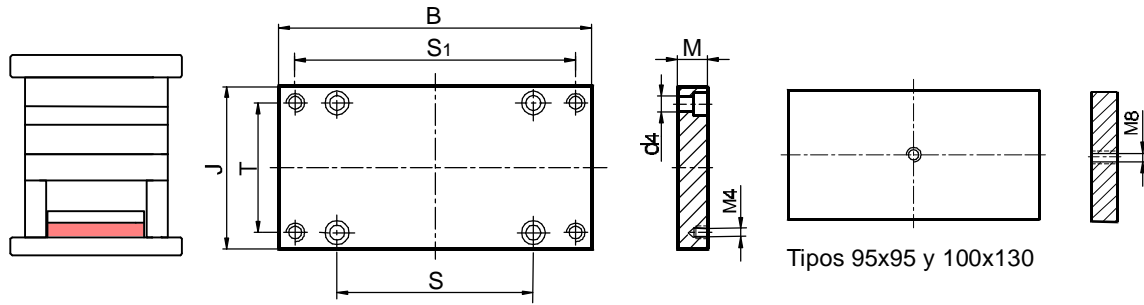
| TIPO | J | B | L | S | T | d4 |
|-----------|-----|-----|----|-----|-----|-----|
| 396 x 396 | 268 | 396 | 17 | 314 | 236 | M10 |
| 396 x 446 | 268 | 446 | 17 | 364 | 240 | M10 |
| 396 x 496 | 268 | 496 | 22 | 414 | 240 | M10 |
| 396 x 546 | 268 | 546 | 17 | 464 | 240 | M10 |
| 396 x 596 | 268 | 596 | 22 | 514 | 240 | M10 |
| 396 x 696 | 268 | 696 | 27 | 614 | 240 | M10 |
| 396 x 796 | 268 | 796 | 27 | 714 | 236 | M10 |
| 396 x 896 | 268 | 896 | 27 | 814 | 236 | M10 |
| 446 x 446 | 318 | 446 | 17 | 364 | 286 | M10 |
| 446 x 496 | 318 | 496 | 22 | 414 | 286 | M10 |
| 446 x 546 | 318 | 546 | 22 | 464 | 286 | M10 |
| 446 x 596 | 318 | 596 | 22 | 514 | 286 | M10 |
| 446 x 696 | 318 | 696 | 27 | 614 | 286 | M10 |
| 446 x 796 | 318 | 796 | 27 | 714 | 286 | M12 |
| 446 x 896 | 318 | 896 | 27 | 814 | 286 | M12 |
| 496 x 496 | 368 | 496 | 27 | 414 | 336 | M10 |
| 496 x 546 | 368 | 546 | 27 | 464 | 336 | M10 |
| 496 x 596 | 368 | 596 | 27 | 514 | 336 | M10 |
| 496 x 696 | 368 | 696 | 27 | 614 | 336 | M10 |
| 496 x 796 | 324 | 796 | 27 | 710 | 288 | M12 |
| 496 x 896 | 324 | 896 | 27 | 810 | 288 | M12 |
| 496 x 996 | 324 | 996 | 27 | 910 | 288 | M12 |
| 546 x 546 | 418 | 546 | 27 | 464 | 386 | M10 |
| 546 x 596 | 418 | 596 | 27 | 514 | 386 | M10 |
| 546 x 696 | 418 | 696 | 27 | 614 | 386 | M10 |
| 546 x 796 | 374 | 796 | 27 | 710 | 338 | M12 |
| 546 x 896 | 374 | 896 | 27 | 810 | 338 | M12 |
| 546 x 996 | 374 | 996 | 27 | 910 | 338 | M12 |
| 596 x 596 | 468 | 596 | 27 | 514 | 436 | M10 |
| 596 x 696 | 424 | 696 | 27 | 610 | 388 | M12 |
| 596 x 796 | 424 | 796 | 27 | 710 | 388 | M12 |
| 596 x 896 | 424 | 896 | 27 | 810 | 388 | M12 |
| 596 x 996 | 424 | 996 | 27 | 910 | 388 | M12 |
| 696 x 696 | 524 | 696 | 27 | 610 | 488 | M12 |
| 696 x 796 | 524 | 796 | 27 | 710 | 488 | M12 |
| 696 x 896 | 524 | 896 | 27 | 810 | 488 | M12 |
| 696 x 996 | 524 | 996 | 27 | 910 | 488 | M12 |
| 796 x 796 | 624 | 796 | 27 | 710 | 588 | M12 |
| 796 x 896 | 624 | 896 | 27 | 810 | 588 | M12 |
| 796 x 996 | 624 | 996 | 27 | 910 | 588 | M12 |

Forma de pedido: Placa expulsora LS / J x B - **Ejemplo:** LS / 112 x 246.

Order: Ejection plate LS / J x B - **Example:** LS / 112 x 246.

Auftransform: Auswerferhalteplatte LS / J x B - **Beispiel:** LS / 112 x 246.

Placa reten expulsores / Ejector base plate / Auswerfergrundplatte



Material DIN 1.2311, 1.1730

| TIPO | J | B | M | S | S ₁ | T | d ₄ |
|-----------|-----|-----|----|-----|----------------|-----|----------------|
| 95 x 95 | 54 | 95 | 9 | - | - | - | - |
| 100 x 130 | 58 | 130 | 9 | - | - | - | - |
| 156 x 156 | 90 | 156 | 17 | 100 | 136 | 68 | 9 |
| 156 x 196 | 90 | 196 | 17 | 140 | 172 | 68 | 9 |
| 156 x 246 | 90 | 246 | 17 | 186 | 224 | 68 | 9 |
| 156 x 296 | 90 | 296 | 17 | 236 | 274 | 68 | 9 |
| 190 x 246 | 112 | 246 | 17 | 182 | 216 | 90 | 9 |
| 196 x 196 | 118 | 196 | 17 | 132 | 166 | 96 | 9 |
| 196 x 296 | 108 | 296 | 17 | 230 | 266 | 90 | 9 |
| 196 x 346 | 108 | 346 | 17 | 280 | 314 | 90 | 9 |
| 196 x 396 | 108 | 396 | 22 | 330 | 364 | 90 | 9 |
| 218 x 246 | 140 | 246 | 17 | 182 | 216 | 118 | 9 |
| 218 x 296 | 130 | 296 | 17 | 230 | 266 | 108 | 9 |
| 246 x 246 | 158 | 246 | 17 | 180 | 214 | 130 | 9 |
| 246 x 296 | 158 | 296 | 17 | 230 | 264 | 130 | 9 |
| 246 x 346 | 158 | 346 | 22 | 286 | 324 | 136 | 9 |
| 246 x 396 | 150 | 396 | 22 | 330 | 364 | 122 | 9 |
| 246 x 446 | 158 | 446 | 22 | 380 | 414 | 130 | 9 |
| 246 x 496 | 158 | 496 | 22 | 430 | 464 | 130 | 9 |
| 296 x 296 | 208 | 296 | 17 | 230 | 266 | 180 | 9 |
| 296 x 346 | 208 | 346 | 22 | 286 | 324 | 186 | 9 |
| 296 x 396 | 208 | 396 | 22 | 330 | 364 | 176 | 9 |
| 296 x 446 | 200 | 446 | 22 | 380 | 414 | 184 | 9 |
| 296 x 496 | 208 | 496 | 22 | 418 | 464 | 180 | 11 |
| 296 x 546 | 208 | 546 | 22 | 468 | 514 | 180 | 11 |
| 296 x 596 | 208 | 596 | 27 | 518 | 564 | 180 | 11 |
| 296 x 696 | 208 | 696 | 27 | 620 | 666 | 140 | 11 |
| 346 x 346 | 168 | 346 | 22 | 286 | 324 | 236 | 9 |
| 346 x 396 | 258 | 396 | 22 | 320 | 366 | 190 | 11 |
| 346 x 446 | 218 | 446 | 22 | 364 | 414 | 186 | 11 |
| 346 x 496 | 218 | 496 | 22 | 420 | 466 | 190 | 11 |
| 346 x 546 | 218 | 546 | 27 | 470 | 516 | 190 | 11 |
| 346 x 596 | 218 | 596 | 27 | 520 | 566 | 190 | 11 |
| 346 x 696 | 218 | 696 | 27 | 620 | 666 | 190 | 11 |
| 346 x 796 | 218 | 796 | 27 | 714 | - | 186 | 11 |

Forma de pedido: Placa reten expulsores MS / J x B x Mat. - **Ejemplo:** MS / 112 x 246 x 1.1730.

Order: Ejection base plate MS / J x B x Mat. - **Example:** MS / 112 x 246 x 1.1730.

Auftransform: Auswerfergrundplatte MS / J x B x Mat. - **Beispiel:** MS / 112 x 246 x 1.1730.

Placa reten expulsores / Ejector base plate / Auswerfergrundplatte

Material DIN 1.2311, 1.1730

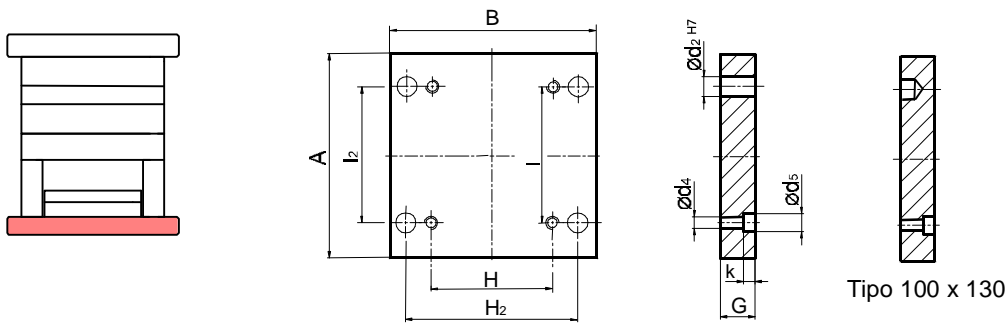
| TIPO | J | B | M | S | S ₁ | T | d ₄ |
|-----------|-----|-----|----|-----|----------------|-----|----------------|
| 396 x 396 | 268 | 396 | 22 | 314 | 364 | 296 | 11 |
| 396 x 446 | 268 | 446 | 22 | 364 | 414 | 240 | 11 |
| 396 x 496 | 268 | 496 | 27 | 414 | 460 | 240 | 11 |
| 396 x 546 | 268 | 546 | 27 | 464 | 510 | 240 | 11 |
| 396 x 596 | 268 | 596 | 27 | 514 | 560 | 240 | 11 |
| 396 x 696 | 268 | 696 | 36 | 614 | 660 | 240 | 11 |
| 396 x 796 | 268 | 796 | 36 | 714 | - | 236 | 11 |
| 396 x 896 | 268 | 896 | 36 | 814 | - | 236 | 11 |
| 446 x 446 | 318 | 446 | 27 | 364 | 414 | 286 | 11 |
| 446 x 546 | 318 | 546 | 27 | 464 | 514 | 286 | 11 |
| 446 x 496 | 318 | 496 | 27 | 414 | 464 | 286 | 11 |
| 446 x 596 | 318 | 596 | 27 | 514 | 564 | 286 | 11 |
| 446 x 696 | 318 | 696 | 36 | 614 | 664 | 286 | 11 |
| 446 x 796 | 318 | 796 | 36 | 714 | - | 286 | 14 |
| 446 x 896 | 318 | 896 | 36 | 814 | - | 286 | 14 |
| 496 x 496 | 368 | 496 | 36 | 414 | 464 | 336 | 11 |
| 496 x 546 | 368 | 546 | 36 | 464 | 514 | 336 | 11 |
| 496 x 596 | 368 | 596 | 36 | 514 | 564 | 336 | 11 |
| 496 x 696 | 368 | 696 | 36 | 614 | 664 | 336 | 11 |
| 496 x 796 | 324 | 796 | 36 | 710 | - | 288 | 14 |
| 496 x 896 | 324 | 896 | 36 | 810 | - | 288 | 14 |
| 496 x 996 | 324 | 996 | 36 | 910 | - | 288 | 14 |
| 546 x 546 | 418 | 546 | 36 | 514 | 464 | 386 | 11 |
| 546 x 596 | 418 | 596 | 36 | 514 | 564 | 386 | 11 |
| 546 x 696 | 418 | 696 | 36 | 614 | 664 | 386 | 11 |
| 546 x 796 | 374 | 796 | 36 | 710 | - | 338 | 14 |
| 546 x 896 | 374 | 896 | 36 | 810 | - | 338 | 14 |
| 546 x 996 | 374 | 996 | 36 | 910 | - | 338 | 14 |
| 596 x 596 | 468 | 596 | 36 | 564 | 514 | 436 | 11 |
| 596 x 696 | 424 | 696 | 36 | 610 | - | 388 | 14 |
| 596 x 796 | 424 | 796 | 36 | 710 | - | 388 | 14 |
| 596 x 896 | 424 | 896 | 36 | 810 | - | 388 | 14 |
| 596 x 996 | 424 | 996 | 36 | 910 | - | 388 | 14 |
| 696 x 696 | 524 | 696 | 36 | 610 | - | 488 | 14 |
| 696 x 796 | 524 | 796 | 36 | 710 | - | 488 | 14 |
| 696 x 896 | 524 | 896 | 36 | 810 | - | 488 | 14 |
| 696 x 996 | 524 | 996 | 36 | 910 | - | 488 | 14 |
| 796 x 796 | 624 | 796 | 36 | 710 | - | 588 | 14 |
| 796 x 896 | 624 | 896 | 46 | 810 | - | 588 | 14 |
| 796 x 996 | 624 | 996 | 46 | 910 | - | 588 | 14 |

Forma de pedido: Placa reten expulsores MS / J x B x Mat. - **Ejemplo:** MS / 112 x 246 x 1.1730.

Order: Ejector base plate MS / J x B x Mat. - **Example:** MS / 112 x 246 x 1.1730.

Auftransform: Auswerfergrundplatte MS / J x B x Mat. - **Beispiel:** MS / 112 x 246 x 1.1730.

Placas de fijación / Clamping plate / Aufspannplatte



Tipo 100 x 130

Material DIN 1.2311, 1.1730

| TIPO | A | B | G | H | H ₂ | I | l ₂ | d ₂ | d ₄ | d ₅ | k |
|-----------|------|-----|---------|-----|----------------|-----|----------------|----------------|----------------|----------------|------|
| 95 x 95 | Ø156 | | 22 | 46 | 75 | 75 | 75 | 14 | 6,6 | 11 | 12,4 |
| 100 x 130 | 156 | 156 | 22 | 52 | 108 | 80 | 80 | 14 | 6,6 | 11 | 12,4 |
| 156 x 156 | 206 | 156 | 22 - 27 | 72 | 122 | 122 | 122 | 20 | 11 | 18 | 13 |
| 156 x 196 | 206 | 196 | 22 - 27 | 114 | 156 | 126 | 120 | 20 | 11 | 18 | 13 |
| 156 x 246 | 196 | 246 | 22 - 27 | 162 | 212 | 122 | 122 | 20 | 11 | 18 | 13 |
| 156 x 296 | 196 | 296 | 27 | 212 | 262 | 122 | 122 | 20 | 11 | 18 | 13 |
| 190 x 246 | 254 | 246 | 22 - 27 | 150 | 202 | 148 | 148 | 26 | 11 | 18 | 13 |
| 196 x 196 | 246 | 196 | 22 - 27 | 100 | 152 | 154 | 154 | 26 | 11 | 18 | 13 |
| 196 x 296 | 246 | 296 | 27 - 36 | 186 | 244 | 150 | 150 | 30 | 14 | 20 | 15,5 |
| 196 x 346 | 246 | 346 | 27 - 36 | 236 | 294 | 150 | 150 | 30 | 14 | 20 | 15,5 |
| 196 x 396 | 246 | 396 | 36 | 274 | 344 | 144 | 144 | 30 | 14 | 20 | 15,5 |
| 218 x 246 | 276 | 246 | 22 - 27 | 140 | 202 | 176 | 176 | 26 | 11 | 18 | 13 |
| 218 x 296 | 276 | 296 | 27 - 36 | 186 | 244 | 172 | 172 | 30 | 14 | 20 | 15,5 |
| 246 x 246 | 296 | 246 | 27 - 36 | 130 | 200 | 200 | 200 | 30 | 14 | 20 | 15,5 |
| 246 x 296 | 296 | 296 | 27 - 36 | 186 | 244 | 200 | 200 | 30 | 14 | 20 | 15,5 |
| 246 x 346 | 296 | 346 | 27 - 36 | 224 | 294 | 194 | 194 | 30 | 14 | 20 | 15,5 |
| 246 x 396 | 296 | 396 | 27 - 36 | 284 | 340 | 198 | 198 | 30 | 14 | 20 | 15,5 |
| 246 x 446 | 296 | 446 | 36 | 324 | 394 | 194 | 194 | 30 | 14 | 20 | 15,5 |
| 246 x 496 | 296 | 496 | 36 | 374 | 444 | 194 | 194 | 30 | 14 | 20 | 15,5 |
| 296 x 296 | 346 | 296 | 27 - 36 | 186 | 244 | 250 | 250 | 30 | 14 | 20 | 15,5 |
| 296 x 346 | 346 | 346 | 27 - 36 | 224 | 294 | 244 | 244 | 30 | 14 | 20 | 15,5 |
| 296 x 396 | 346 | 396 | 27 - 36 | 284 | 340 | 248 | 248 | 30 | 14 | 20 | 15,5 |
| 296 x 446 | 346 | 446 | 36 | 324 | 394 | 244 | 244 | 30 | 14 | 20 | 15,5 |
| 296 x 496 | 346 | 496 | 36 | 374 | 444 | 244 | 244 | 30 | 14 | 20 | 15,5 |
| 296 x 546 | 346 | 546 | 36 | 424 | 494 | 244 | 244 | 30 | 14 | 20 | 15,5 |
| 296 x 596 | 346 | 596 | 36 | 474 | 544 | 244 | 244 | 30 | 14 | 20 | 15,5 |
| 296 x 696 | 346 | 696 | 46 | 530 | 624 | 224 | 224 | 30 | 14 | 20 | 15,5 |
| 346 x 346 | 396 | 346 | 27 - 36 | 224 | 294 | 294 | 294 | 42 | 18 | 26 | 21 |
| 346 x 396 | 396 | 396 | 36 - 46 | 230 | 316 | 274 | 274 | 30 | 14 | 20 | 15,5 |
| 346 x 446 | 396 | 446 | 36 - 46 | 280 | 374 | 274 | 274 | 42 | 18 | 26 | 21 |
| 346 x 496 | 396 | 496 | 36 - 46 | 330 | 416 | 274 | 274 | 42 | 18 | 26 | 21 |
| 346 x 546 | 396 | 546 | 46 | 380 | 474 | 274 | 274 | 42 | 18 | 26 | 21 |
| 346 x 596 | 396 | 596 | 46 | 430 | 524 | 274 | 274 | 42 | 18 | 26 | 21 |
| 346 x 696 | 446 | 696 | 46 | 530 | 624 | 274 | 274 | 42 | 18 | 26 | 21 |
| 346 x 796 | 446 | 796 | 46 - 56 | 630 | 724 | 274 | 274 | 42 | 18 | 26 | 21 |

Forma de pedido: Placa C1S / A x B x C x Mat. - Ejemplo: C1S / 254 x 246 x 27 x 1.1730.

Order: Plate C1S / A x B x C x Mat. - Example: C1S / 254 x 246 x 27 x 1.1730.

Auftransform: Platte C1S / A x B x C x Mat. - Beispiel: C1S / 254 x 246 x 27 x 1.1730.

Placas de fijación / Clamping plate / Aufspannplatte
Material DIN 1.2311, 1.1730

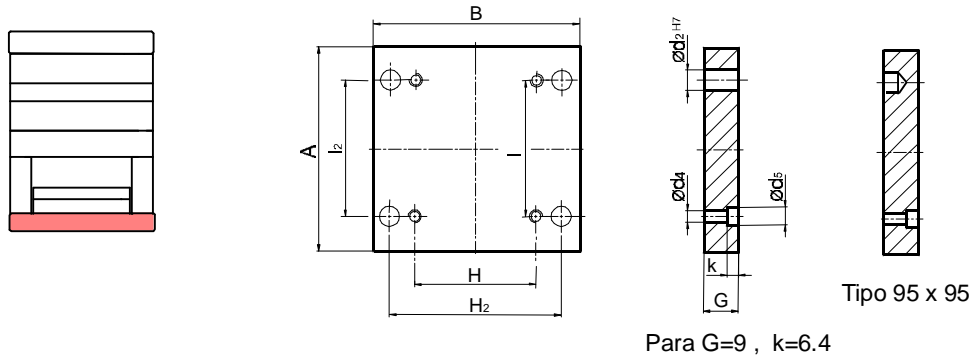
| TIPO | A | B | C | H | H ₂ | I | I ₂ | d ₂ | d ₄ | d ₅ | k |
|-----------|-----|-----|---------|-----|----------------|-----|----------------|----------------|----------------|----------------|----|
| 396 x 396 | 446 | 396 | 36 - 46 | 230 | 324 | 324 | 324 | 42 | 18 | 26 | 21 |
| 396 x 446 | 446 | 446 | 36 - 46 | 280 | 374 | 324 | 324 | 42 | 18 | 26 | 21 |
| 396 x 496 | 446 | 496 | 46 | 330 | 424 | 324 | 324 | 42 | 18 | 26 | 21 |
| 396 x 546 | 496 | 546 | 36 - 46 | 380 | 466 | 324 | 324 | 42 | 18 | 26 | 21 |
| 396 x 596 | 496 | 596 | 46 | 430 | 524 | 324 | 324 | 42 | 18 | 26 | 21 |
| 396 x 696 | 496 | 696 | 56 | 530 | 624 | 324 | 324 | 42 | 18 | 26 | 21 |
| 396 x 796 | 496 | 796 | 46 - 56 | 630 | 724 | 324 | 324 | 42 | 18 | 26 | 21 |
| 396 x 896 | 496 | 896 | 46 - 56 | 730 | 824 | 324 | 324 | 42 | 18 | 26 | 21 |
| 446 x 446 | 546 | 446 | 36 - 46 | 280 | 374 | 374 | 374 | 42 | 18 | 26 | 21 |
| 446 x 496 | 546 | 496 | 46 | 330 | 424 | 374 | 374 | 42 | 18 | 26 | 21 |
| 446 x 546 | 546 | 546 | 46 | 380 | 474 | 374 | 374 | 42 | 18 | 26 | 21 |
| 446 x 596 | 546 | 596 | 46 | 430 | 524 | 374 | 374 | 42 | 18 | 26 | 21 |
| 446 x 696 | 546 | 696 | 56 | 530 | 624 | 374 | 374 | 42 | 18 | 26 | 21 |
| 446 x 796 | 546 | 796 | 56 | 630 | 724 | 374 | 374 | 42 | 18 | 26 | 21 |
| 446 x 896 | 546 | 896 | 56 | 730 | 824 | 374 | 374 | 42 | 18 | 26 | 21 |
| 496 x 496 | 596 | 496 | 56 | 330 | 424 | 424 | 424 | 42 | 18 | 26 | 21 |
| 496 x 546 | 596 | 546 | 56 | 380 | 474 | 424 | 424 | 42 | 18 | 26 | 21 |
| 496 x 596 | 596 | 596 | 56 | 430 | 524 | 424 | 424 | 42 | 18 | 26 | 21 |
| 496 x 696 | 596 | 696 | 56 | 530 | 624 | 424 | 424 | 42 | 18 | 26 | 21 |
| 496 x 796 | 596 | 796 | 56 | 574 | 692 | 392 | 392 | 54 | 22 | 33 | 22 |
| 496 x 896 | 596 | 896 | 56 | 674 | 792 | 392 | 392 | 54 | 22 | 33 | 22 |
| 496 x 996 | 596 | 996 | 56 | 774 | 892 | 392 | 392 | 54 | 22 | 33 | 22 |
| 546 x 546 | 646 | 546 | 56 | 380 | 474 | 474 | 474 | 42 | 18 | 26 | 21 |
| 546 x 596 | 646 | 596 | 56 | 430 | 524 | 474 | 474 | 42 | 18 | 26 | 21 |
| 546 x 696 | 646 | 696 | 56 | 530 | 624 | 474 | 474 | 42 | 18 | 26 | 21 |
| 546 x 796 | 646 | 796 | 56 | 574 | 692 | 442 | 442 | 54 | 22 | 33 | 22 |
| 546 x 896 | 646 | 896 | 56 | 674 | 792 | 442 | 442 | 54 | 22 | 33 | 22 |
| 546 x 996 | 646 | 996 | 56 | 774 | 892 | 442 | 442 | 54 | 22 | 33 | 22 |
| 596 x 596 | 696 | 596 | 56 | 430 | 524 | 524 | 524 | 42 | 18 | 26 | 22 |
| 596 x 696 | 696 | 696 | 56 | 474 | 592 | 492 | 492 | 54 | 22 | 33 | 22 |
| 596 x 796 | 696 | 796 | 56 | 574 | 692 | 492 | 492 | 54 | 22 | 33 | 22 |
| 596 x 896 | 696 | 896 | 56 | 674 | 792 | 492 | 492 | 54 | 22 | 33 | 22 |
| 596 x 996 | 696 | 996 | 56 | 774 | 892 | 492 | 492 | 54 | 22 | 33 | 22 |
| 696 x 696 | 796 | 696 | 76 | 474 | 592 | 592 | 592 | 54 | 22 | 33 | 22 |
| 696 x 796 | 796 | 796 | 76 | 574 | 692 | 592 | 592 | 54 | 22 | 33 | 22 |
| 696 x 896 | 796 | 896 | 76 | 674 | 792 | 592 | 592 | 54 | 22 | 33 | 22 |
| 696 x 996 | 796 | 996 | 76 | 774 | 892 | 592 | 592 | 54 | 22 | 33 | 22 |
| 796 x 796 | 896 | 796 | 76 | 574 | 692 | 692 | 692 | 54 | 22 | 33 | 22 |
| 796 x 896 | 896 | 896 | 76 | 674 | 792 | 692 | 692 | 54 | 22 | 33 | 22 |
| 796 x 996 | 896 | 996 | 76 | 774 | 892 | 692 | 692 | 54 | 22 | 33 | 22 |

Forma de pedido: Placa C1S / A x B x C x Mat. - Ejemplo: C1S / 254 x 246 x 27 x 1.1730.

Order: Plate C1S / A x B x C x Mat. - Example: C1S / 254 x 246 x 27 x 1.1730.

Auftransform: Platte C1S / A x B x C x Mat. - Beispiel: C1S / 254 x 246 x 27 x 1.1730.

Placas de fijación / Clamping plate / Aufspannplatte



Material DIN 1.2311, 1.1730

| A ₂ | B | G | H | H ₂ | l | l ₂ | d ₂ | d ₄ | d ₅ | k |
|----------------|-----|-------|-----|----------------|-----|----------------|----------------|----------------|----------------|------|
| 95 | 95 | 12-17 | 46 | 75 | 75 | 75 | 14 | 6,6 | 11 | 8,4 |
| 100 | 130 | 12-17 | 52 | 108 | 80 | 80 | 14 | 6,6 | 11 | 8,4 |
| 156 | 156 | 17-22 | 72 | 122 | 122 | 122 | 20 | 11 | 18 | 13 |
| 156 | 196 | 17-22 | 114 | 156 | 126 | 120 | 20 | 11 | 18 | 13 |
| 156 | 246 | 17-22 | 162 | 212 | 122 | 122 | 20 | 11 | 18 | 13 |
| 156 | 296 | 22 | 212 | 262 | 122 | 122 | 20 | 11 | 18 | 13 |
| 190 | 246 | 17-22 | 150 | 202 | 148 | 148 | 26 | 11 | 18 | 13 |
| 196 | 196 | 17-22 | 100 | 152 | 154 | 154 | 26 | 11 | 18 | 13 |
| 196 | 296 | 22-27 | 186 | 244 | 150 | 150 | 30 | 14 | 20 | 15,5 |
| 196 | 346 | 22-27 | 236 | 294 | 150 | 150 | 30 | 14 | 20 | 15,5 |
| 196 | 396 | 27 | 274 | 344 | 144 | 144 | 30 | 14 | 20 | 15,5 |
| 218 | 246 | 17-22 | 140 | 202 | 176 | 176 | 26 | 11 | 18 | 13 |
| 218 | 296 | 27-36 | 186 | 244 | 172 | 172 | 30 | 14 | 20 | 15,5 |
| 246 | 246 | 22-27 | 130 | 200 | 200 | 200 | 30 | 14 | 20 | 15,5 |
| 246 | 296 | 22-27 | 186 | 244 | 200 | 200 | 30 | 14 | 20 | 15,5 |
| 246 | 346 | 22-27 | 224 | 294 | 194 | 194 | 30 | 14 | 20 | 15,5 |
| 246 | 396 | 22-27 | 284 | 340 | 198 | 198 | 30 | 14 | 20 | 15,5 |
| 246 | 446 | 27 | 324 | 394 | 194 | 194 | 30 | 14 | 20 | 15,5 |
| 246 | 496 | 27 | 374 | 444 | 194 | 194 | 30 | 14 | 20 | 15,5 |
| 296 | 296 | 22-27 | 186 | 244 | 250 | 250 | 30 | 14 | 20 | 15,5 |
| 296 | 346 | 22-27 | 224 | 294 | 244 | 244 | 30 | 14 | 20 | 15,5 |
| 296 | 396 | 22-27 | 284 | 340 | 248 | 248 | 30 | 14 | 20 | 15,5 |
| 296 | 446 | 27 | 324 | 394 | 244 | 244 | 30 | 14 | 20 | 15,5 |
| 296 | 496 | 27 | 374 | 444 | 244 | 244 | 30 | 14 | 20 | 15,5 |
| 296 | 546 | 36 | 424 | 494 | 244 | 244 | 30 | 14 | 20 | 15,5 |
| 296 | 596 | 27 | 474 | 544 | 244 | 244 | 30 | 14 | 20 | 15,5 |
| 296 | 696 | 36 | 530 | 624 | 224 | 224 | 42 | 18 | 26 | 21 |
| 346 | 346 | 22-27 | 224 | 294 | 294 | 294 | 30 | 14 | 20 | 15,5 |
| 346 | 396 | 27-36 | 230 | 316 | 274 | 274 | 42 | 18 | 26 | 21 |
| 346 | 446 | 27-36 | 280 | 374 | 274 | 274 | 42 | 18 | 26 | 21 |
| 346 | 496 | 27-36 | 330 | 416 | 274 | 274 | 42 | 18 | 26 | 21 |
| 346 | 546 | 36 | 380 | 474 | 274 | 274 | 42 | 18 | 26 | 21 |
| 346 | 596 | 36 | 430 | 524 | 274 | 274 | 42 | 18 | 26 | 21 |
| 346 | 696 | 36 | 530 | 624 | 274 | 274 | 42 | 18 | 26 | 21 |
| 346 | 796 | 46-56 | 630 | 724 | 274 | 274 | 42 | 18 | 26 | 21 |

Forma de pedido: Placa G2S / A₂ x B x G x Mat. - Ejemplo: G2S / 190 x 246 x 22 x 1.1730.

Order: Plate G2S / A₂ x B x G x Mat. - Example: G2S / 190 x 246 x 22 x 1.1730.

Auftransform: Platte G2S / A₂ x B x G x Mat. - Beispiel: G2S / 190 x 246 x 22 x 1.1730.

Placas de fijación / Clamping plate / Aufspannplatte

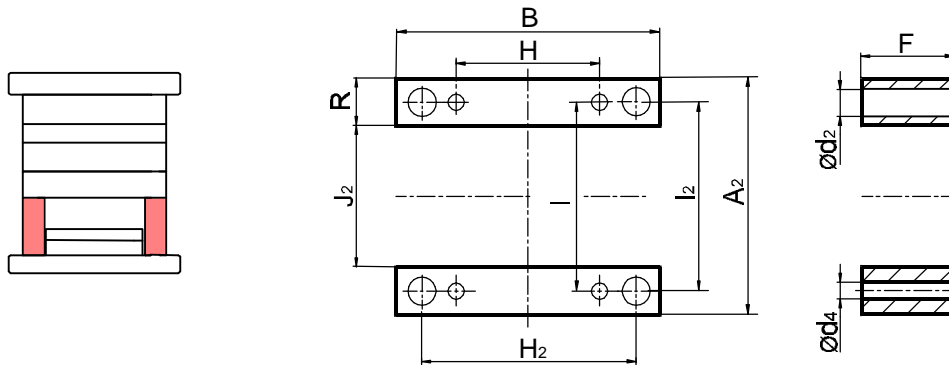
| A2 | B | G | H | H2 | I | I2 | d2 | d4 | d5 | k |
|-----|-----|---------|-----|-----|-----|-----|----|----|----|----|
| 396 | 396 | 27 - 36 | 230 | 324 | 324 | 324 | 42 | 18 | 26 | 21 |
| 396 | 446 | 27 - 36 | 280 | 374 | 324 | 324 | 42 | 18 | 26 | 21 |
| 396 | 496 | 36 | 330 | 416 | 324 | 324 | 42 | 18 | 26 | 21 |
| 396 | 546 | 27 - 36 | 380 | 474 | 324 | 324 | 42 | 18 | 26 | 21 |
| 396 | 596 | 36 | 430 | 524 | 324 | 324 | 42 | 18 | 26 | 21 |
| 396 | 696 | 46 | 530 | 624 | 324 | 324 | 42 | 18 | 26 | 21 |
| 396 | 796 | 46 - 56 | 630 | 724 | 324 | 324 | 42 | 18 | 26 | 21 |
| 396 | 896 | 46 - 56 | 730 | 824 | 324 | 324 | 42 | 18 | 26 | 21 |
| 446 | 446 | 27 - 36 | 280 | 374 | 374 | 374 | 42 | 18 | 26 | 21 |
| 446 | 496 | 36 | 330 | 424 | 374 | 374 | 42 | 18 | 26 | 21 |
| 446 | 546 | 46 | 380 | 474 | 374 | 374 | 42 | 18 | 26 | 21 |
| 446 | 596 | 36 | 430 | 524 | 374 | 374 | 42 | 18 | 26 | 21 |
| 446 | 696 | 56 | 530 | 624 | 374 | 374 | 42 | 18 | 26 | 21 |
| 446 | 796 | 56 | 630 | 724 | 374 | 374 | 42 | 18 | 26 | 21 |
| 446 | 896 | 56 | 730 | 824 | 374 | 374 | 42 | 18 | 26 | 21 |
| 496 | 496 | 46 | 330 | 424 | 424 | 424 | 42 | 18 | 26 | 21 |
| 496 | 546 | 56 | 380 | 474 | 424 | 424 | 42 | 18 | 26 | 21 |
| 496 | 596 | 46 | 430 | 524 | 424 | 424 | 42 | 18 | 26 | 21 |
| 496 | 696 | 46 | 530 | 624 | 424 | 424 | 42 | 18 | 26 | 21 |
| 496 | 796 | 56 | 574 | 692 | 392 | 392 | 54 | 22 | 33 | 22 |
| 496 | 896 | 56 | 674 | 792 | 392 | 392 | 54 | 22 | 33 | 22 |
| 496 | 996 | 56 | 774 | 892 | 392 | 392 | 54 | 22 | 33 | 22 |
| 546 | 546 | 56 | 380 | 474 | 474 | 474 | 42 | 18 | 26 | 21 |
| 546 | 596 | 56 | 430 | 524 | 474 | 474 | 42 | 18 | 26 | 21 |
| 546 | 696 | 56 | 530 | 624 | 474 | 474 | 42 | 18 | 26 | 21 |
| 546 | 796 | 56 | 574 | 692 | 442 | 442 | 54 | 22 | 33 | 22 |
| 546 | 896 | 56 | 674 | 792 | 442 | 442 | 54 | 22 | 33 | 22 |
| 546 | 996 | 56 | 774 | 892 | 442 | 442 | 54 | 22 | 33 | 22 |
| 596 | 596 | 56 | 430 | 524 | 524 | 524 | 42 | 18 | 26 | 22 |
| 596 | 696 | 56 | 474 | 592 | 492 | 492 | 54 | 22 | 33 | 22 |
| 596 | 796 | 56 | 574 | 692 | 492 | 492 | 54 | 22 | 33 | 22 |
| 596 | 896 | 56 | 674 | 792 | 492 | 492 | 54 | 22 | 33 | 22 |
| 596 | 996 | 56 | 774 | 892 | 492 | 492 | 54 | 22 | 33 | 22 |
| 696 | 696 | 76 | 474 | 592 | 592 | 592 | 54 | 22 | 33 | 22 |
| 696 | 796 | 76 | 574 | 692 | 592 | 592 | 54 | 22 | 33 | 22 |
| 696 | 896 | 76 | 674 | 792 | 592 | 592 | 54 | 22 | 33 | 22 |
| 696 | 996 | 76 | 774 | 892 | 592 | 592 | 54 | 22 | 33 | 22 |
| 796 | 796 | 76 | 574 | 692 | 692 | 692 | 54 | 22 | 33 | 22 |
| 796 | 896 | 76 | 674 | 792 | 692 | 692 | 54 | 22 | 33 | 22 |
| 796 | 996 | 76 | 774 | 892 | 692 | 692 | 54 | 22 | 33 | 22 |

Forma de pedido: Placa G2S / A2 x B x G x Mat. - **Ejemplo:** G2S / 190 x 246 x 22 x 1.1730.

Order: Plate G2S / A2 x B x G x Mat. - **Example:** G2S / 190 x 246 x 22 x 1.1730.

Auftransform: Platte G2S / A2 x B x G x Mat. - **Beispiel:** G2S / 190 x 246 x 22 x 1.1730.

Regletas / Risers / Leisten



| Tipo (A ₂ x B) | F | H | H ₂ | I | l ₂ | J ₂ | R | d ₂ | d ₄ |
|----------------------------|---------------------------------|-----|----------------|-----|----------------|----------------|----|----------------|----------------|
| 95 x 95 | 22 - 27 - 36 - 46 | 46 | 75 | 75 | 75 | 55 | 20 | 14 | 6,6 |
| 100 x 130 | 27 - 36 - 46 | 52 | 108 | 80 | 80 | 60 | 20 | 14 | 6,6 |
| 156 x 156 | 46 - 56 - 76 | 72 | 122 | 122 | 122 | 92 | 32 | 20 | 11 |
| 156 x 196 | 46 - 56 - 76 | 114 | 156 | 126 | 126 | 92 | 32 | 20 | 11 |
| 156 x 246 | 46 - 56 - 76 | 162 | 212 | 122 | 122 | 92 | 32 | 20 | 11 |
| 156 x 296 | 46 - 56 - 76 | 212 | 262 | 122 | 122 | 92 | 32 | 20 | 11 |
| 190 x 246 | 46 - 56 - 76 | 150 | 202 | 148 | 148 | 114 | 38 | 26 | 11 |
| 196 x 196 | 46 - 56 - 76 | 100 | 152 | 154 | 154 | 120 | 38 | 26 | 11 |
| 196 x 296 | 56 - 76 - 96 | 186 | 244 | 150 | 150 | 110 | 43 | 30 | 14 |
| 196 x 346 | 56 - 76 - 96 | 236 | 294 | 150 | 150 | 110 | 43 | 30 | 14 |
| 196 x 396 | 56 - 76 - 96 | 274 | 344 | 144 | 144 | 110 | 43 | 30 | 14 |
| 218 x 246 | 46 - 56 - 76 | 140 | 202 | 176 | 176 | 142 | 38 | 26 | 11 |
| 218 x 296 | 56 - 76 - 96 | 186 | 244 | 172 | 172 | 132 | 43 | 30 | 14 |
| 246 x 246 | 56 - 76 - 96 | 130 | 200 | 200 | 200 | 160 | 43 | 30 | 14 |
| 246 x 296 | 56 - 76 - 96 | 186 | 244 | 200 | 200 | 160 | 43 | 30 | 14 |
| 246 x 346 | 56 - 76 - 96 | 224 | 294 | 194 | 194 | 160 | 43 | 30 | 14 |
| 246 x 396 | 56 - 76 - 96 | 284 | 340 | 198 | 198 | 152 | 47 | 30 | 14 |
| 246 x 446 | 56 - 76 - 96 | 324 | 394 | 194 | 194 | 160 | 43 | 30 | 14 |
| 246 x 496 | 56 - 76 - 96 | 374 | 444 | 194 | 194 | 160 | 43 | 30 | 14 |
| 296 x 296 | 56 - 76 - 96 | 186 | 244 | 250 | 250 | 210 | 43 | 30 | 14 |
| 296 x 346 | 56 - 76 - 96 | 224 | 294 | 244 | 244 | 210 | 43 | 30 | 14 |
| 296 x 396 | 56 - 76 - 96 | 284 | 340 | 248 | 248 | 202 | 47 | 30 | 14 |
| 296 x 446 | 56 - 76 - 96 | 324 | 394 | 244 | 244 | 210 | 43 | 30 | 14 |
| 296 x 496 | 56 - 76 - 96 | 374 | 444 | 244 | 244 | 210 | 43 | 30 | 14 |
| 296 x 546 | 56 - 76 - 96 | 424 | 494 | 244 | 244 | 210 | 43 | 30 | 14 |
| 296 x 596 | 76 - 96 - 116 | 474 | 544 | 244 | 244 | 210 | 43 | 30 | 14 |
| 296 x 696 | 76 - 96 - 116 - 136 | 530 | 624 | 224 | 224 | 172 | 62 | 42 | 18 |
| 346 x 346 | 56 - 76 - 96 | 224 | 294 | 294 | 294 | 260 | 43 | 30 | 14 |
| 346 x 396 | 56 - 76 - 96 | 230 | 316 | 274 | 274 | 222 | 62 | 42 | 18 |
| 346 x 446 | 56 - 76 - 96 - 116 | 280 | 374 | 274 | 274 | 222 | 62 | 42 | 18 |
| 346 x 496 | 56 - 76 - 96 | 330 | 416 | 274 | 274 | 222 | 62 | 42 | 18 |
| 346 x 546 | 56 - 76 - 96 - 116 - 136 | 380 | 474 | 274 | 274 | 222 | 62 | 42 | 18 |
| 346 x 596 | 56 - 76 - 96 - 116 - 136 | 430 | 524 | 274 | 274 | 222 | 62 | 42 | 18 |
| 346 x 696 | 56 - 76 - 96 - 116 - 136 | 530 | 624 | 274 | 274 | 222 | 62 | 42 | 18 |
| 346 x 796 | 96 - 116 - 136 - 156 | 630 | 724 | 274 | 274 | 222 | 62 | 42 | 18 |

Forma de pedido: Regles FS / Tipo x F - Ejemplo: FS / 190 x 246 x 76.

Order: Risers FS / Type x F - Example: FS / 190 x 246 x 76.

Auftransform: Leisten FS / Type x F - Beispiel: FS / 190 x 246 x 76.

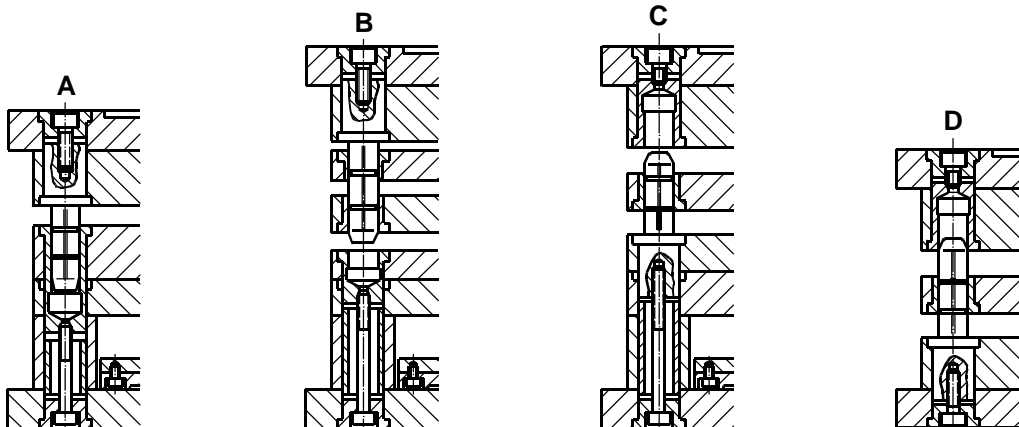
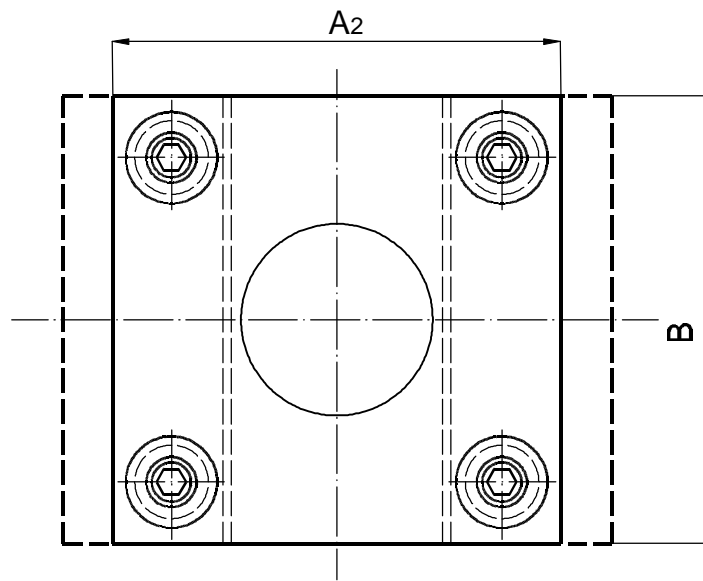
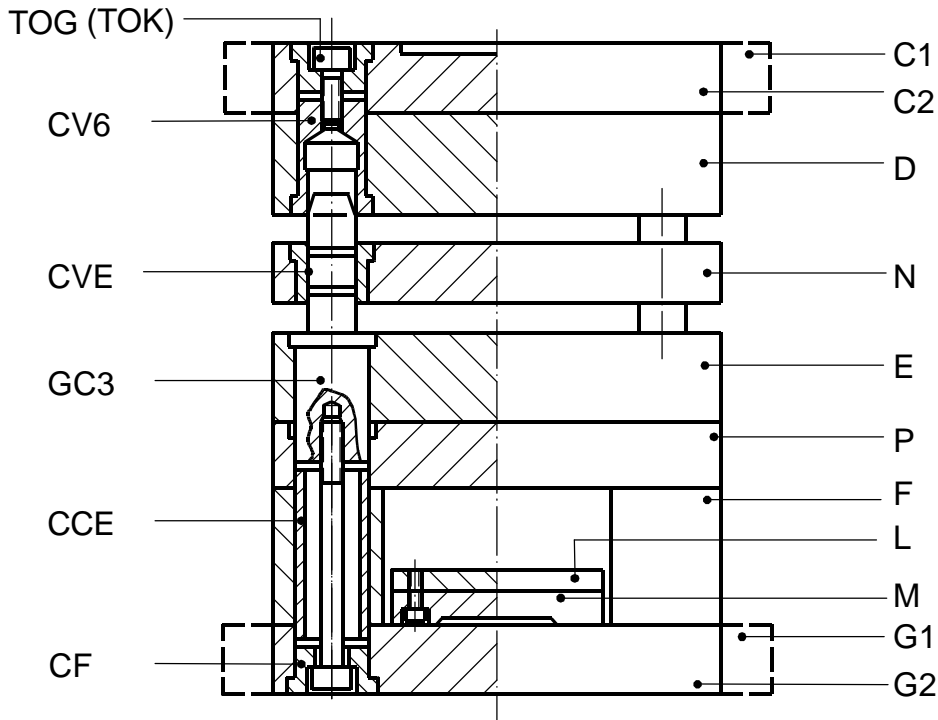
Regletas / Risers / Leisten

| Tipo (A ₂ x B) | F | H | H ₂ | I | I ₂ | J ₂ | R | d ₂ | d ₄ |
|----------------------------|--------------------------|-----|----------------|-----|----------------|----------------|----|----------------|----------------|
| 396 x 396 | 56 - 76 - 96 | 230 | 324 | 324 | 324 | 272 | 62 | 42 | 18 |
| 396 x 446 | 56 - 76 - 96 - 116 | 280 | 374 | 324 | 324 | 272 | 62 | 42 | 18 |
| 396 x 496 | 76 - 96 - 116 - 136 | 330 | 424 | 324 | 324 | 272 | 62 | 42 | 18 |
| 396 x 546 | 76 - 96 - 116 | 380 | 466 | 324 | 324 | 272 | 62 | 42 | 18 |
| 396 x 596 | 76 - 96 - 116 - 136 | 430 | 524 | 324 | 324 | 272 | 62 | 42 | 18 |
| 396 x 696 | 76 - 96 - 116 - 136 | 530 | 624 | 324 | 324 | 272 | 62 | 42 | 18 |
| 396 x 796 | 96 - 116 - 136 - 156 | 630 | 724 | 324 | 324 | 272 | 62 | 42 | 18 |
| 396 x 896 | 96 - 116 - 136 - 156 | 730 | 824 | 324 | 324 | 272 | 62 | 42 | 18 |
| 446 x 446 | 56 - 76 - 96 - 116 | 280 | 374 | 374 | 374 | 322 | 62 | 42 | 18 |
| 446 x 496 | 76 - 96 - 116 - 136 | 330 | 424 | 374 | 374 | 322 | 62 | 42 | 18 |
| 446 x 546 | 66 - 76 - 96 - 116 - 136 | 380 | 474 | 374 | 374 | 322 | 62 | 42 | 18 |
| 446 x 596 | 76 - 96 - 116 - 136 | 430 | 524 | 374 | 374 | 322 | 62 | 42 | 18 |
| 446 x 696 | 76 - 96 - 116 - 136 | 530 | 624 | 374 | 374 | 322 | 62 | 42 | 18 |
| 446 x 796 | 76 - 96 - 116 - 136 | 630 | 724 | 374 | 374 | 322 | 62 | 42 | 18 |
| 446 x 896 | 76 - 96 - 116 - 136 | 730 | 824 | 374 | 374 | 322 | 62 | 42 | 18 |
| 496 x 496 | 76 - 96 - 116 - 136 | 330 | 424 | 424 | 424 | 372 | 62 | 42 | 18 |
| 496 x 546 | 66 - 76 - 96 - 116 - 136 | 380 | 474 | 424 | 424 | 372 | 62 | 42 | 18 |
| 496 x 596 | 76 - 96 - 116 - 136 | 430 | 524 | 424 | 424 | 372 | 62 | 42 | 18 |
| 496 x 696 | 76 - 96 - 116 - 136 | 530 | 624 | 424 | 424 | 372 | 62 | 42 | 18 |
| 496 x 796 | 96 - 116 - 136 - 156 | 574 | 692 | 392 | 392 | 328 | 84 | 54 | 22 |
| 496 x 896 | 96 - 116 - 136 - 156 | 674 | 792 | 392 | 392 | 328 | 84 | 54 | 22 |
| 496 x 996 | 96 - 116 - 136 - 156 | 774 | 892 | 392 | 392 | 328 | 84 | 54 | 22 |
| 546 x 546 | 76 - 96 - 116 - 136 | 380 | 474 | 474 | 474 | 422 | 62 | 42 | 18 |
| 546 x 596 | 76 - 96 - 116 - 136 | 430 | 524 | 474 | 474 | 422 | 62 | 42 | 18 |
| 546 x 696 | 76 - 96 - 116 - 136 | 530 | 624 | 474 | 474 | 422 | 62 | 42 | 18 |
| 546 x 796 | 96 - 116 - 136 - 156 | 574 | 692 | 442 | 442 | 378 | 84 | 54 | 22 |
| 546 x 896 | 96 - 116 - 136 - 156 | 674 | 792 | 442 | 442 | 378 | 84 | 54 | 22 |
| 546 x 996 | 96 - 116 - 136 - 156 | 774 | 892 | 442 | 442 | 378 | 84 | 54 | 22 |
| 596 x 596 | 76 - 96 - 116 - 136 | 430 | 524 | 524 | 524 | 472 | 62 | 42 | 18 |
| 596 x 696 | 96 - 116 - 136 - 156 | 474 | 592 | 492 | 492 | 428 | 84 | 54 | 22 |
| 596 x 796 | 96 - 116 - 136 - 156 | 574 | 692 | 492 | 492 | 428 | 84 | 54 | 22 |
| 596 x 896 | 96 - 116 - 136 - 156 | 674 | 792 | 492 | 492 | 428 | 84 | 54 | 22 |
| 596 x 996 | 96 - 116 - 136 - 156 | 774 | 892 | 492 | 492 | 428 | 84 | 54 | 22 |
| 696 x 696 | 96 - 116 - 136 - 156 | 474 | 592 | 592 | 592 | 528 | 84 | 54 | 22 |
| 696 x 796 | 96 - 116 - 136 - 156 | 574 | 692 | 592 | 592 | 528 | 84 | 54 | 22 |
| 696 x 896 | 96 - 116 - 136 - 156 | 674 | 792 | 592 | 592 | 528 | 84 | 54 | 22 |
| 696 x 996 | 96 - 116 - 136 - 156 | 774 | 892 | 592 | 592 | 528 | 84 | 54 | 22 |
| 796 x 796 | 96 - 116 - 136 - 156 | 574 | 692 | 692 | 692 | 628 | 84 | 54 | 22 |
| 796 x 896 | 96 - 116 - 136 - 156 | 674 | 792 | 692 | 692 | 628 | 84 | 54 | 22 |
| 796 x 996 | 96 - 116 - 136 - 156 | 774 | 892 | 692 | 692 | 628 | 84 | 54 | 22 |

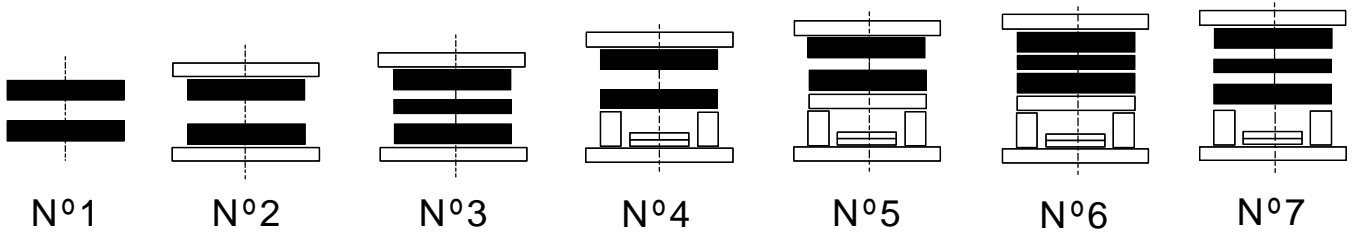
Forma de pedido: Regles FS / Tipo x F - **Ejemplo:** FS / 190 x 246 x 76 .

Order: Risers FS / Type x F - **Example:** FS / 190 x 246 x 76 .

Auftransform: Leisten FS / Type x F - **Beispiel:** FS / 190 x 246 x 76 .



Ejemplo montaje guías / Examples guide assemblies / Beispiele montage führungen



Elección del número de placas para la composición del montaje.

Selection of the number of plates for the moulds assembly.

Wahl der Anzahl von platten für die zusammenstellung des gestells.

MATERIALES, D·N·E : 1.1730-1.2162-1.2311-1.2344

C·G·M: 1.1730-1.2311

F·L : 1.1730

| A ₂ / B | 100 | 125 | 156 | 196 | 246 | 296 | 346 | 396 |
|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 100 | | | | | | | | |
| 125 | | | | | | | | |
| 156 | | | | | | | | |
| 196 | | | | | | | | |
| 246 | | | | | | | | |
| 296 | | | | | | | | |
| 346 | | | | | | | | |

Forma de pedido: Montaje VAP - SE - nº ...Tipo DxNxExMat. / C1(C2)xPxG1(G22)xF.Mat.

Ejemplo: VAP - SE - nº 6 / 125x156x36x27x56x22x1.2162 / C1, 22x27xG1,22x76x1.1730

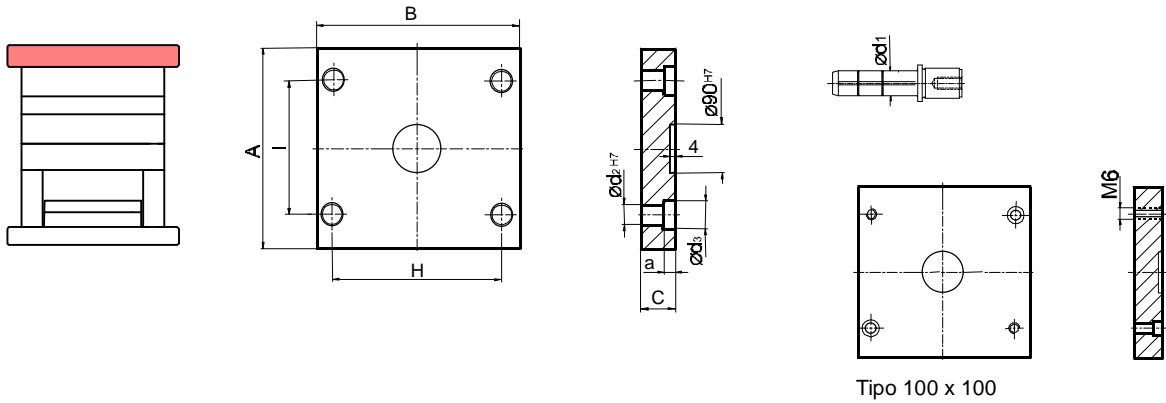
Order: Assembly VAP - SE - nº ...Type DxNxExMat. / C1(C2)xPxG1(G22)xF.Mat.

Example: VAP - SE - nº 6 / 125x156x36x27x56x22x1.2162 / C1,22x27xG1,22x76x1.1730

Auftragsform: Gestell VAP - SE - nº ...Type DxNxExMat. / C1(C2)xPxG1(G22)xF.Mat.

Beispiel: VAP - SE - nº 6 / 125x156x36x27x56x22x1.2162 / C1, 22x27xG1,22x76x1.1730

Placas de fijación / Campling plate / Aufspannplatte



Material DIN 1.2311, 1.1730

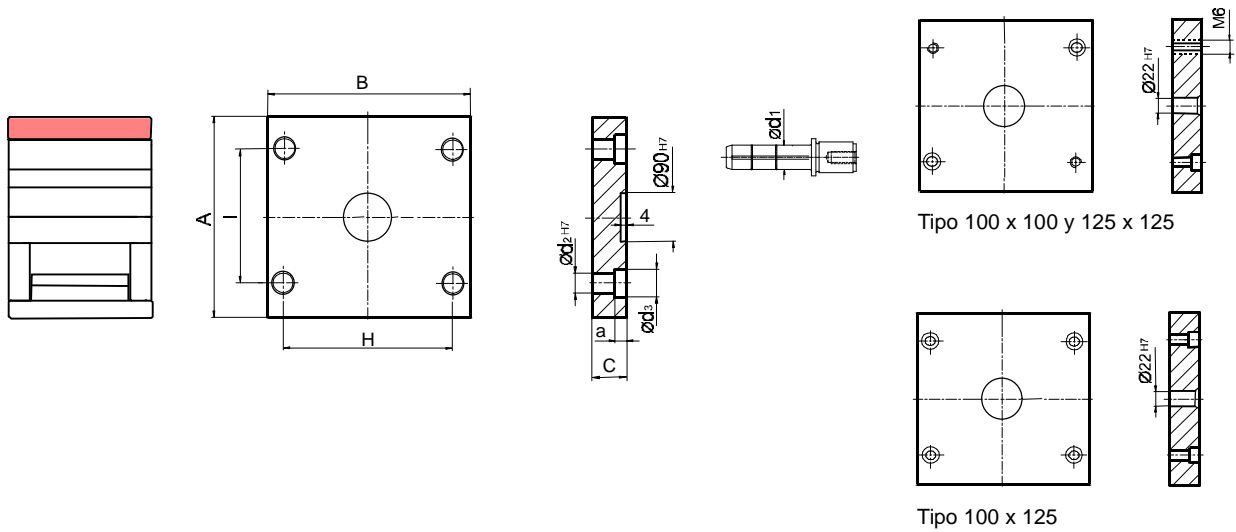
| Tipo | A | B | C | H | I | d ₁ | d ₂ | d ₃ | a |
|---------|-----|-----|----|-----|-----|----------------|----------------|----------------|-----|
| 100x100 | 156 | 156 | 22 | 75 | 75 | 10-11 | 16 | 21 | 4 |
| 100x125 | 156 | 156 | 22 | 100 | 75 | 10-11 | 16 | 21 | 4 |
| 125x125 | 156 | 156 | 22 | 100 | 100 | 10-11 | 16 | 21 | 4 |
| 125x156 | 156 | 156 | 27 | 124 | 93 | 14-15 | 20 | 26 | 6,5 |
| 156x156 | 196 | 156 | 27 | 124 | 124 | 14-15 | 20 | 26 | 6,5 |
| 156x196 | 196 | 196 | 27 | 164 | 124 | 14-15 | 20 | 26 | 6,5 |
| 196x196 | 246 | 196 | 27 | 156 | 156 | 18-19 | 25 | 32 | 6,5 |
| 196x246 | 246 | 246 | 27 | 206 | 156 | 18-19 | 25 | 32 | 6,5 |
| 196x296 | 246 | 296 | 27 | 256 | 156 | 18-19 | 25 | 32 | 6,5 |
| 246x246 | 296 | 246 | 27 | 206 | 206 | 18-19 | 25 | 32 | 6,5 |
| 246x296 | 296 | 296 | 27 | 246 | 196 | 23-24 | 32 | 39 | 6,5 |
| 296x296 | 346 | 296 | 27 | 246 | 246 | 23-24 | 32 | 39 | 6,5 |
| 296x346 | 346 | 346 | 27 | 296 | 246 | 23-24 | 32 | 39 | 6,5 |
| 296x396 | 346 | 396 | 36 | 346 | 246 | 23-24 | 32 | 39 | 6,5 |
| 346x346 | 396 | 346 | 36 | 292 | 292 | 23-24 | 32 | 39 | 6,5 |
| 346x396 | 396 | 396 | 36 | 342 | 292 | 23-24 | 32 | 39 | 6,5 |

Forma de pedido: Placa C1E / Tipo x Mat. - Ejemplo: C1E / 196 x 196 x 1.1730.

Order: Plate C1E / Type x Mat. - Example: C1E / 196 x 196 x 1.1730.

Auftransform: Platte C1E / Type x Mat. - Beispiel: C1E / 196 x 196 x 1.1730.

Placas de fijación / Campling plate / Aufspannplatte



Material DIN 1.2311, 1.1730

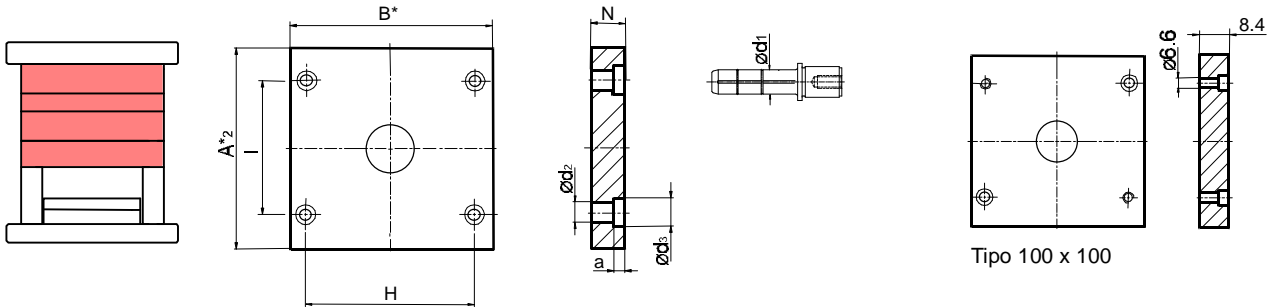
| A | B | C | H | I | d ₁ | d ₂ | d ₃ | a |
|-----|-----|-------|-----|-----|----------------|----------------|----------------|-----|
| 100 | 100 | 17 | 75 | 75 | 10-11 | 16 | 21 | 4 |
| 100 | 125 | 17 | 100 | 75 | 10-11 | 16 | 21 | 4 |
| 125 | 125 | 17 | 100 | 100 | 10-11 | 16 | 21 | 4 |
| 125 | 156 | 22 | 124 | 93 | 14-15 | 20 | 26 | 6,5 |
| 156 | 156 | 22 | 124 | 124 | 14-15 | 20 | 26 | 6,5 |
| 156 | 196 | 22 | 164 | 124 | 14-15 | 20 | 26 | 6,5 |
| 196 | 196 | 22-27 | 156 | 156 | 18-19 | 25 | 32 | 6,5 |
| 196 | 246 | 27 | 206 | 156 | 18-19 | 25 | 32 | 6,5 |
| 196 | 296 | 27 | 256 | 156 | 18-19 | 25 | 32 | 6,5 |
| 246 | 246 | 27 | 206 | 206 | 18-19 | 25 | 32 | 6,5 |
| 246 | 296 | 27 | 246 | 196 | 23-24 | 32 | 39 | 6,5 |
| 296 | 296 | 27 | 246 | 246 | 23-24 | 32 | 39 | 6,5 |
| 296 | 346 | 27 | 296 | 246 | 23-24 | 32 | 39 | 6,5 |
| 296 | 396 | 27 | 346 | 246 | 23-24 | 32 | 39 | 6,5 |
| 346 | 346 | 27 | 292 | 292 | 23-24 | 32 | 39 | 6,5 |
| 346 | 396 | 27 | 342 | 292 | 23-24 | 32 | 39 | 6,5 |

Forma de pedido: Placa C2E / A2 x B x C x Mat. - Ejemplo: C2E / 196 x 196 x 22 x 1.1730.

Order: Plate C2E / A2 x B x C x Mat. - Example: C2E / 196 x 196 x 22 x 1.1730.

Auftransform: Platte C2E / A2 x B x C x Mat. - Beispiel: C2E / 196 x 196 x 22 x 1.1730.

Placas alojamiento cavidad / Cavity plate / Formplatte



Material DIN 1.2311, 1.1730, 1.2344, 1.2162

| Tipo | A* ₂ | B* | H | I | N | d ₁ | d ₂ | d ₃ | a |
|---------|-----------------|-------|-----|-----|----------------------|----------------|----------------|----------------|-----|
| 100x100 | 99,7 | 99,7 | 75 | 75 | 12-17-22 34-36-46 | 10-11 | 16 | 21 | 4 |
| 100x125 | 99,7 | 124,7 | 100 | 75 | | 10-11 | 16 | 21 | 4 |
| 125x125 | 124,7 | 124,7 | 100 | 100 | | 10-11 | 16 | 21 | 4 |
| 125x156 | 124,7 | 155,7 | 124 | 93 | 17-22-27 | 14-15 | 20 | 26 | 6,5 |
| 156x156 | 155,7 | 155,7 | 124 | 124 | 36-46-56 | 14-15 | 20 | 26 | 6,5 |
| 156x196 | 155,7 | 195,7 | 164 | 124 | 22-27-36 | 14-15 | 20 | 26 | 6,5 |
| 196x196 | 195,7 | 195,7 | 156 | 156 | 46-56-76 | 18-19 | 25 | 32 | 6,5 |
| 196x246 | 195,7 | 245,7 | 206 | 156 | 27-36-46 56-76 | 18-19 | 25 | 32 | 6,5 |
| 196x296 | 195,7 | 295,7 | 256 | 156 | | 18-19 | 25 | 32 | 6,5 |
| 246x246 | 245,7 | 245,7 | 206 | 206 | | 18-19 | 25 | 32 | 6,5 |
| 246x296 | 245,7 | 295,7 | 246 | 196 | 27-36-46 56-76-96 | 23-24 | 32 | 39 | 6,5 |
| 296x296 | 295,7 | 295,7 | 246 | 246 | | 23-24 | 32 | 39 | 6,5 |
| 296x346 | 295,7 | 345,7 | 296 | 246 | | 23-24 | 32 | 39 | 6,5 |
| 296x396 | 295,7 | 395,7 | 346 | 246 | | 23-24 | 32 | 39 | 6,5 |
| 346x346 | 345,7 | 345,7 | 292 | 292 | | 23-24 | 32 | 39 | 6,5 |
| 346x396 | 345,7 | 395,7 | 342 | 292 | | 23-24 | 32 | 39 | 6,5 |

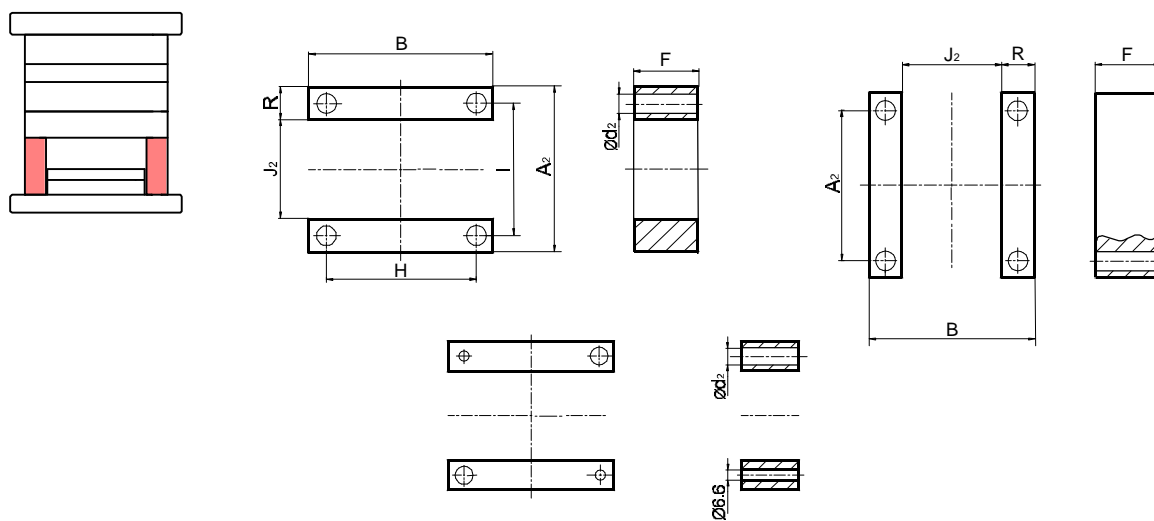
Forma de pedido: Placa DE / TIPO x N x Mat. - Ejemplo: DE / 196 x 196 x 27 x 1.2162.

Order: Plate DE / TYPE x N x Mat. - Example: DE / 196 x 196 x 27 x 1.2162.

Auftransform: Platte DE / TYPE x N x Mat. - Beispiel: DE / 196 x 196 x 27 x 1.2162.

*A₂ ,B Lados rectificadas en montaje - Sides ground when assembled - Seiten geschliffen montiert.

Regletas / Risers / Leisten



Tipo 100 x 100

Material DIN 1.1730

| TIPO (A2xB) | F | H | I | J2 | R | d2 |
|--------------|--------------------------|-----|-----|------------------|----|----|
| 100 x 100 | 22 - 27 - 36 - 46 | 75 | 75 | 56 | 22 | 16 |
| 100 x 125 | 22 - 27 - 36 - 46 | 100 | 75 | 56 - 81 | 22 | 16 |
| 125 x 125 | 22 - 27 - 36 - 46 | 100 | 100 | 81 | 22 | 16 |
| 125 x 156 | 36 - 46 - 56 | 124 | 93 | 67 - 98 | 29 | 20 |
| 156 x 156 | 36 - 46 - 56 | 124 | 124 | 98 | 29 | 20 |
| 156 x 196 | 36 - 46 - 56 | 164 | 124 | 98 - 138 | 29 | 20 |
| 196 x 196 | 46 - 56 - 66 - 76 | 156 | 156 | 124 | 36 | 25 |
| 196 x 246 | 46 - 56 - 66 - 76 | 206 | 156 | 124 - 174 | 36 | 25 |
| 196 x 296 | 46 - 56 - 66 - 76 | 256 | 156 | 124 - 224 | 36 | 25 |
| 246 x 246 | 46 - 56 - 66 - 76 | 206 | 206 | 174 - 224 | 36 | 25 |
| 246 x 296 | 56 - 66 - 76 - 96 | 246 | 196 | 174 | 44 | 32 |
| 296 x 296 | 56 - 66 - 76 - 96 | 246 | 246 | 158 - 208 | 44 | 32 |
| 296 x 346 | 56 - 66 - 76 - 96 | 296 | 246 | 208 - 258 | 44 | 32 |
| 296 x 396 | 56 - 66 - 76 - 96 | 346 | 246 | 208 - 308 | 44 | 32 |
| 346 x 346 | 56 - 66 - 76 - 96 | 292 | 292 | 248 | 49 | 32 |
| 346 x 396 | 56 - 66 - 76 - 96 | 342 | 292 | 248 - 298 | 49 | 32 |

Forma de pedido: Regletas FE / TIPO x F x J2 - Ejemplo: FE / 156 x 196 x 46 x 98.

Order: Risers LE / TYPE x F x J2. - Example: FE / 156 x 196 x 46 x 98.

Auftransform: Leisten FE / TYPE x F x J2. - Beispiel: FE / 156 x 196 x 46 x 98.

Placa porta expulsores / Ejector retainer plate / Auswerferhalteplatte

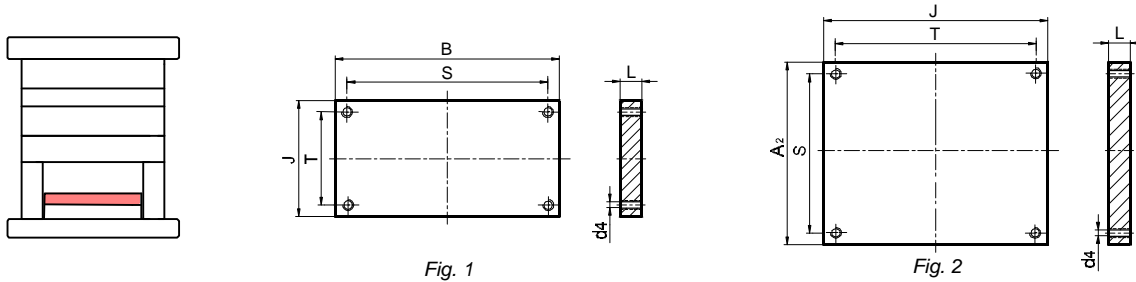


Fig. 1

Fig. 2

Material DIN 1.1730

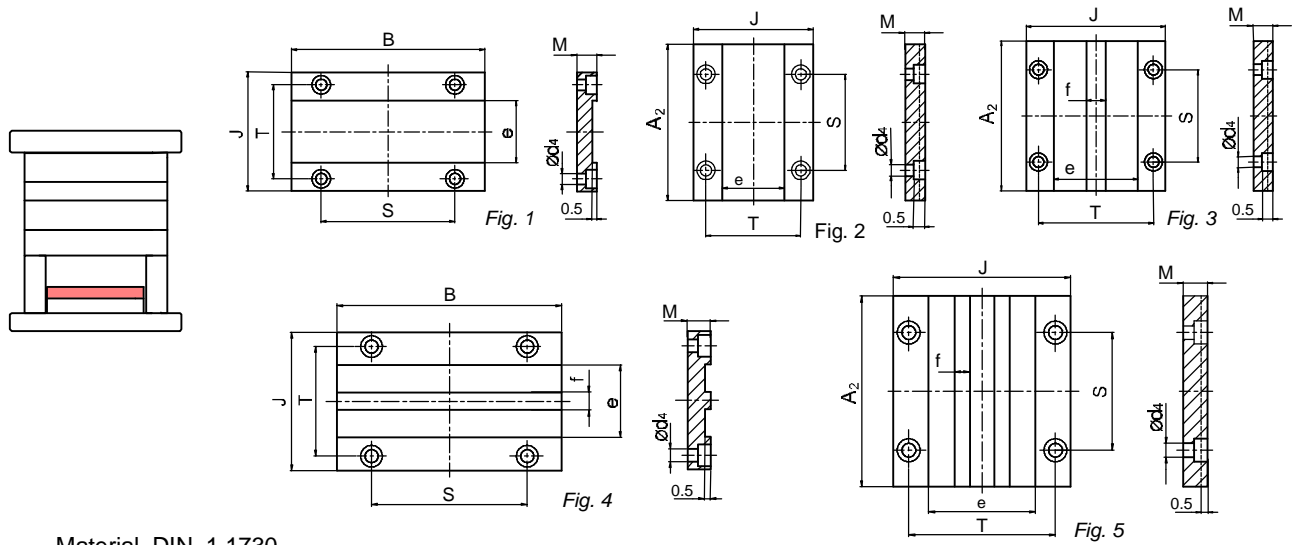
| Tipo | Fig. | A ₂ | B | J | S | T | L | d ₄ |
|---------|------|----------------|-----|-----|-----|-----|----|----------------|
| 100x100 | 1 | - | 100 | 54 | 71 | 41 | 6 | M5 |
| 100x125 | 1 | - | 125 | 54 | 96 | 41 | 6 | M5 |
| | 2 | 100 | - | 79 | 71 | 66 | 6 | M5 |
| 125x125 | 1 | - | 125 | 79 | 96 | 66 | 10 | M8 |
| 125x156 | 1 | - | 156 | 65 | 108 | 45 | 10 | M8 |
| | 2 | 125 | - | 96 | 77 | 76 | 10 | M8 |
| 156x156 | 1 | - | 156 | 96 | 108 | 76 | 12 | M8 |
| 156x196 | 1 | - | 196 | 96 | 148 | 76 | 12 | M8 |
| | 2 | 156 | - | 136 | 108 | 116 | 12 | M8 |
| 196x196 | 1 | - | 196 | 122 | 140 | 100 | 12 | M8 |
| 196x246 | 1 | - | 246 | 122 | 190 | 100 | 12 | M8 |
| | 2 | 196 | - | 172 | 140 | 150 | 12 | M8 |
| 196x296 | 1 | - | 296 | 122 | 240 | 100 | 17 | M8 |
| | 2 | 196 | - | 222 | 140 | 200 | 17 | M8 |
| 246x246 | 1 | - | 246 | 172 | 190 | 150 | 17 | M8 |
| 246x296 | 1 | - | 296 | 156 | 240 | 134 | 17 | M8 |
| | 2 | 246 | - | 206 | 190 | 184 | 17 | M8 |
| 296x296 | 1 | - | 296 | 206 | 240 | 184 | 17 | M8 |
| 296x346 | 1 | - | 346 | 206 | 290 | 184 | 17 | M8 |
| | 2 | 296 | - | 256 | 240 | 234 | 17 | M8 |
| 296x396 | 1 | - | 396 | 206 | 304 | 184 | 17 | M8 |
| | 2 | 296 | - | 306 | 240 | 284 | 17 | M8 |
| 346x346 | 1 | - | 346 | 246 | 290 | 224 | 17 | M8 |
| 346x396 | 1 | - | 396 | 246 | 340 | 224 | 17 | M8 |
| | 2 | 346 | - | 296 | 290 | 274 | 17 | M8 |

Forma de pedido: Placa porta expulsores LE / TIPO x J. - Ejemplo: LE / 156 x 156 x 96.

Order: Ejection plate LE / TYPE x J. - Example: LE / 156 x 156 x 96.

Auftransform: Auswerferhalteplatte LE / TYPE x J. - Beispiel: LE / 156 x 156 x 96.

Placa reten expulsores / Ejector base plate / Auswerfergrundplatte



Material DIN 1.1730

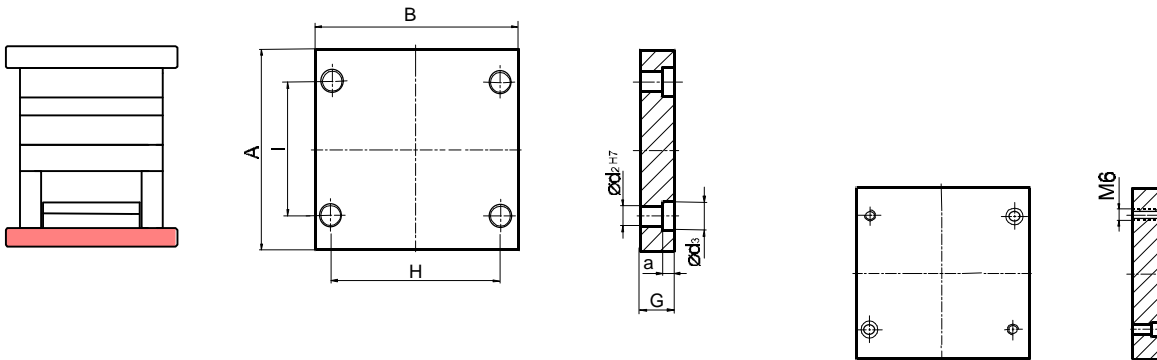
| TIPO | Fig. | A2 | B | J | S | T | e | f | M | d4 |
|-----------|------|-----|-----|------------|-----|-----|-----|----|----|-----|
| 100 x 100 | 1 | | 100 | 54 | 71 | 41 | 25 | | 8 | 5,5 |
| 100 x 125 | 1 | | 125 | 54 | 96 | 41 | 25 | | 8 | 5,5 |
| | 2 | 100 | | 79 | 71 | 66 | 50 | | | |
| 125 x 125 | 1 | | 125 | 79 | 96 | 66 | 50 | | 8 | 5,5 |
| 125 x 156 | 1 | | 156 | 65 | 108 | 45 | 25 | | 16 | 9 |
| | 2 | 125 | | 96 | 77 | 76 | 50 | | | |
| 156 x 156 | 1 | | 156 | 96 | 108 | 76 | 50 | | 16 | 9 |
| 156 x 196 | 1 | | 196 | 96 | 148 | 76 | 50 | | 16 | 9 |
| | 3 | 156 | | 136 | 108 | 116 | 96 | 16 | | |
| 196 x 196 | 1 | | 196 | 122 | 140 | 100 | 80 | | 20 | 9 |
| 196 x 246 | 1 | | 246 | 122 | 190 | 100 | 80 | | 20 | 9 |
| | 3 | 196 | | 172 | 140 | 150 | 124 | 24 | | |
| 196 x 296 | 1 | | 296 | 122 | 240 | 100 | 80 | | 20 | 9 |
| | 3 | 196 | | 222 | 140 | 200 | 180 | 20 | | |
| 246 x 246 | 4 | | 246 | 172 | 190 | 150 | 124 | 24 | 20 | 9 |
| 246 x 296 | 4 | | 296 | 156 | 240 | 134 | 106 | 26 | 22 | 9 |
| | 3 | 246 | | 206 | 190 | 184 | 162 | 22 | | |
| 296 x 296 | 4 | | 296 | 206 | 240 | 184 | 162 | 22 | 22 | 9 |
| 296 x 346 | 4 | | 346 | 206 | 290 | 184 | 162 | 22 | 22 | 9 |
| | 3 | 296 | | 256 | 240 | 234 | 192 | 32 | | |
| 296 x 396 | 4 | | 396 | 206 | 340 | 184 | 162 | 22 | 22 | 9 |
| | 5 | 296 | | 306 | 240 | 284 | 258 | 24 | | |
| 346 x 346 | 4 | | 346 | 246 | 290 | 224 | 188 | 28 | 22 | 9 |
| 346 x 396 | 4 | | 396 | 246 | 340 | 224 | 188 | 28 | 22 | 9 |
| | 5 | 346 | | 296 | 290 | 274 | 250 | 20 | | |

Forma de pedido: Placa reten expulsores LE / TIPO x J. - Ejemplo: LE / 156 x 156 x 96.

Order: Ejection base plate LE / TYPE x J. - Example: LE / 156 x 156 x 96.

Auftransform: Auswerfergrundplatte LE / TYPE x J. - Beispiel: LE / 156 x 156 x 96.

Placas de fijación / Campling plate / Aufspannplatte



Tipo 100 x 100

Material DIN 1.2311, 1.1730

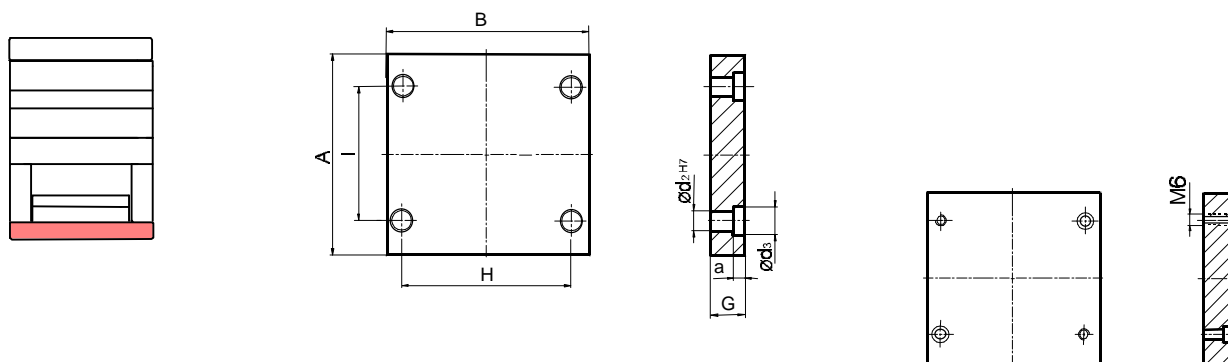
| TIPO | A | B | G | H | l | d2 | d3 | a |
|-----------|-----|-----|----|-----|-----|----|----|-----|
| 100 x 100 | 156 | 156 | 22 | 75 | 75 | 16 | 21 | 4 |
| 100 x 125 | 156 | 156 | 22 | 100 | 75 | 16 | 21 | 4 |
| 125 x 125 | 156 | 156 | 22 | 100 | 100 | 16 | 21 | 4 |
| 125 x 156 | 156 | 156 | 27 | 124 | 93 | 20 | 26 | 6,5 |
| 156 x 156 | 196 | 156 | 27 | 124 | 124 | 20 | 26 | 6,5 |
| 156 x 196 | 196 | 196 | 27 | 164 | 124 | 20 | 26 | 6,5 |
| 196 x 196 | 246 | 196 | 27 | 156 | 156 | 25 | 32 | 6,5 |
| 196 x 246 | 246 | 246 | 27 | 206 | 156 | 25 | 32 | 6,5 |
| 196 x 296 | 246 | 296 | 27 | 256 | 156 | 25 | 32 | 6,5 |
| 246 x 246 | 296 | 246 | 27 | 206 | 206 | 25 | 32 | 6,5 |
| 246 x 296 | 296 | 296 | 27 | 246 | 196 | 32 | 39 | 6,5 |
| 296 x 296 | 346 | 296 | 27 | 246 | 246 | 32 | 39 | 6,5 |
| 296 x 346 | 346 | 346 | 27 | 296 | 246 | 32 | 39 | 6,5 |
| 296 x 396 | 346 | 396 | 36 | 346 | 246 | 32 | 39 | 6,5 |
| 346 x 346 | 396 | 346 | 36 | 292 | 292 | 32 | 39 | 6,5 |
| 346 x 396 | 396 | 396 | 36 | 342 | 292 | 32 | 39 | 6,5 |

Forma de pedido: Placa G1E / Tipo x Mat. - **Ejemplo:** G1E / 196 x 196 x 1.1730.

Order: Plate G1E / Type x Mat. - **Example:** G1E / 196 x 196 x 1.1730.

Auftransform: Platte G1E / Type x Mat. - **Beispiel:** G1E / 196 x 196 x 1.1730.

Placas de fijación / Campling plate / Aufspannplatte



Tipo 100 x 100

Material DIN 1.2311, 1.1730

| TIPO | A | B | G | H | I | d2 | d3 | a |
|-----------|-----|------------|---------|-----|-----|----|----|-----|
| 100 x 100 | 100 | 100 | 17 | 75 | 75 | 16 | 21 | 4 |
| 100 x 125 | 100 | 125 | 17 | 100 | 75 | 16 | 21 | 4 |
| 125 x 125 | 125 | 125 | 17 | 100 | 100 | 16 | 21 | 4 |
| 125 x 156 | 125 | 156 | 22 | 124 | 93 | 20 | 26 | 6,5 |
| 156 x 156 | 156 | 156 | 22 | 124 | 124 | 20 | 26 | 6,5 |
| 156 x 196 | 156 | 196 | 22 | 164 | 124 | 20 | 26 | 6,5 |
| 196 x 196 | 196 | 196 | 22 - 27 | 156 | 156 | 25 | 32 | 6,5 |
| 196 x 246 | 196 | 246 | 27 | 206 | 156 | 25 | 32 | 6,5 |
| 196 x 296 | 196 | 296 | 27 | 256 | 156 | 25 | 32 | 6,5 |
| 246 x 246 | 246 | 246 | 27 | 206 | 206 | 25 | 32 | 6,5 |
| 246 x 296 | 246 | 296 | 27 | 246 | 196 | 32 | 39 | 6,5 |
| 296 x 296 | 296 | 296 | 27 | 246 | 246 | 32 | 39 | 6,5 |
| 296 x 346 | 296 | 346 | 27 | 296 | 246 | 32 | 39 | 6,5 |
| 296 x 396 | 296 | 396 | 27 | 346 | 246 | 32 | 39 | 6,5 |
| 346 x 346 | 346 | 346 | 27 | 292 | 292 | 32 | 39 | 6,5 |
| 346 x 396 | 346 | 396 | 27 | 342 | 292 | 32 | 39 | 6,5 |

Forma de pedido: Placa G2E / A2 x B x C x Mat. - Ejemplo: G2E / 196 x 196 x 22 x 1.1730.

Order: Plate G2E / A2 x B x C x Mat. - Example: G2E / 196 x 196 x 22 x 1.1730.

Auftransform: Platte G2E / A2 x B x C x Mat. - Beispiel: G2E / 196 x 196 x 22 x 1.1730.

INDICE CAPITULO 2

GUIAS

Pag.

| | | |
|------|---|-----|
| GC | Guía para casquillo / Shoulder leader pin | 2/2 |
| GCS | Guía serie estandar / Shoulder leader pin | 2/3 |
| GC2S | Guía serie estandar / Shoulder leader pin | 2/4 |
| GC2 | Guía para casquillo / Shoulder leader pin | 2/6 |
| GC3 | Guía norma europ / Shoulder leader pin | 2/7 |
| G | Guía / Leader pin | 2/8 |
| G2 | Guía para correderas / Angle pin | 2/9 |

CASQUILLOS

| | | |
|------|---|------|
| C | Casquillo / Leader pin bushing | 2/10 |
| CV | Casquillo / Leader pin bushing | 2/11 |
| CVS | Casquillo serie estandar / Leader pin bushing | 2/12 |
| CVE | Casquillo norma europ / Leader pin bushing | 2/13 |
| CF | Casquillo fijación / Shouldered bushing | 2/13 |
| CV2 | Casquillo / Leader pin bushing | 2/14 |
| CV2S | Casquillo serie estandar / Leader pin bushing | 2/15 |
| CV6 | Casquillo norma europ / Leader pin bushing | 2/16 |
| CCS | Casquillo de centraje / Location bushing | 2/17 |
| CCE | Casquillo de centraje / Location bushing | 2/18 |

UNIDADES DE CENTRAJE

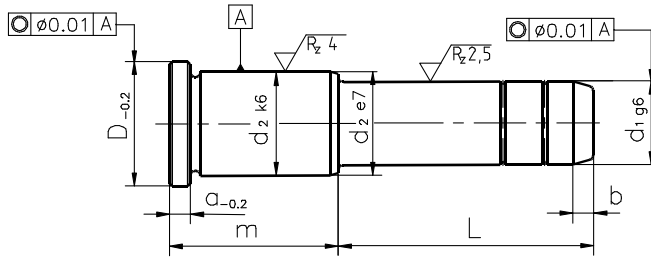
| | | |
|-----|---|------|
| UC | Unidad de centraje / Location unit | 2/19 |
| SUC | Anillo suplemento / Spacer ring | 2/19 |
| UCA | Unidad de centraje autoajutable / Location unit with self-locking | 2/20 |

TOPES GUIA

| | | |
|-----|--|------|
| TGM | Tope guía / Guide stop | 2/21 |
| TGH | Tope guía / Guide stop | 2/21 |
| TPM | Tornillo límite macho / Shoulder screw | 2/22 |

Material: DIN 1.7242

Dureza: 60 - 62 HRc



| d ₁ | d ₂ | D | a | b | m | L | | | | | | | | | | | | | | | | | | | | | | |
|----------------|----------------|----|----|---|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|--|--|--|--|--|--|--|--|--|--|
| | | | | | | 18 | 26 | 36 | 45 | 50 | 65 | 70 | 90 | 100 | 125 | 150 | 175 | 200 | | | | | | | | | | |
| 10 | 14 | 17 | 4 | 4 | 17 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 50 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 70 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 80 | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 16 | 20 | 4 | 4 | 17 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 21 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 26 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 34 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 44 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 54 | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 20 | 24 | 4 | 4 | 20 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 26 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 34 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 44 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 54 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 64 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 74 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 94 | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | 25 | 30 | 6 | 6 | 20 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 26 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 34 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 44 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 54 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 64 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 74 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 94 | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | 30 | 35 | 6 | 6 | 26 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 34 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 44 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 54 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 64 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 74 | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | 40 | 45 | 8 | 7 | 26 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 34 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 44 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 54 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 64 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 74 | | | | | | | | | | | | | | | | | | | | | | | |
| 40 | 50 | 54 | 10 | 8 | 70 | | | | | | | | | | | | | | | | | | | | | | | |

GC

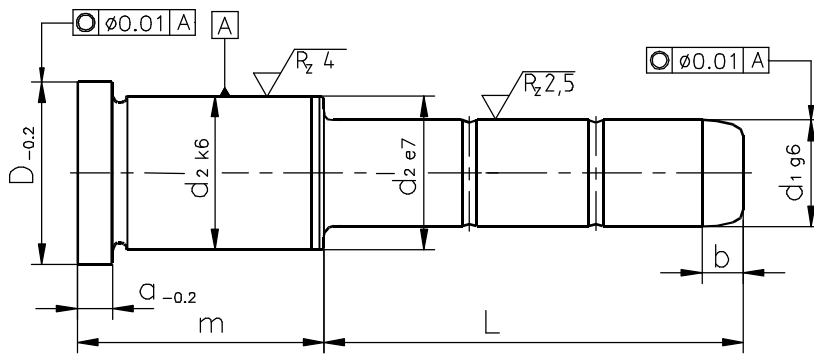
Forma de pedido: Guía para casquillo GC / d₁ x m x L - Ejemplo: GC / 16 x 44 x 36.

Order: Shoulder leader pin GC / d₁ x m x L - Example: GC / 16 x 44 x 36.

Auftragsform: Führungsbolzen GC / d₁ x m x L - Beispiel: GC / 16 x 44 x 36.

Material: DIN 1.7242

Dureza: 60 - 62 HRc



| d ₁ | d ₂ | D | a | b | m | L | | | | | | | | | | | | | | | | | | |
|----------------|----------------|----|----|----|-----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| | | | | | | 36 | 46 | 56 | 66 | 70 | 76 | 86 | 96 | 106 | 110 | 116 | 126 | 136 | 156 | 166 | 176 | 196 | | |
| 14 | 20 | 24 | 6 | 7 | 21 | | | | | | | | | | | | | | | | | | | |
| | | | | | 26 | | | | | | | | | | | | | | | | | | | |
| | | | | | 35 | | | | | | | | | | | | | | | | | | | |
| | | | | | 45 | | | | | | | | | | | | | | | | | | | |
| | | | | | 55 | | | | | | | | | | | | | | | | | | | |
| 15 | 20 | 24 | 6 | 7 | 75 | | | | | | | | | | | | | | | | | | | |
| | | | | | 21 | | | | | | | | | | | | | | | | | | | |
| | | | | | 26 | | | | | | | | | | | | | | | | | | | |
| | | | | | 35 | | | | | | | | | | | | | | | | | | | |
| | | | | | 45 | | | | | | | | | | | | | | | | | | | |
| 18 | 26 | 30 | 6 | 7 | 55 | | | | | | | | | | | | | | | | | | | |
| | | | | | 75 | | | | | | | | | | | | | | | | | | | |
| | | | | | 95 | | | | | | | | | | | | | | | | | | | |
| | | | | | 115 | | | | | | | | | | | | | | | | | | | |
| | | | | | 21 | | | | | | | | | | | | | | | | | | | |
| 20 | 26 | 30 | 6 | 7 | 26 | | | | | | | | | | | | | | | | | | | |
| | | | | | 35 | | | | | | | | | | | | | | | | | | | |
| | | | | | 45 | | | | | | | | | | | | | | | | | | | |
| | | | | | 55 | | | | | | | | | | | | | | | | | | | |
| | | | | | 75 | | | | | | | | | | | | | | | | | | | |
| 22 | 30 | 35 | 6 | 7 | 95 | | | | | | | | | | | | | | | | | | | |
| | | | | | 115 | | | | | | | | | | | | | | | | | | | |
| | | | | | 135 | | | | | | | | | | | | | | | | | | | |
| | | | | | 25 | | | | | | | | | | | | | | | | | | | |
| | | | | | 35 | | | | | | | | | | | | | | | | | | | |
| 24 | 30 | 35 | 6 | 7 | 45 | | | | | | | | | | | | | | | | | | | |
| | | | | | 55 | | | | | | | | | | | | | | | | | | | |
| | | | | | 75 | | | | | | | | | | | | | | | | | | | |
| | | | | | 95 | | | | | | | | | | | | | | | | | | | |
| | | | | | 115 | | | | | | | | | | | | | | | | | | | |
| 30 | 42 | 47 | 6 | 7 | 135 | | | | | | | | | | | | | | | | | | | |
| | | | | | 155 | | | | | | | | | | | | | | | | | | | |
| | | | | | 35 | | | | | | | | | | | | | | | | | | | |
| | | | | | 45 | | | | | | | | | | | | | | | | | | | |
| | | | | | 55 | | | | | | | | | | | | | | | | | | | |
| 32 | 42 | 47 | 6 | 7 | 75 | | | | | | | | | | | | | | | | | | | |
| | | | | | 95 | | | | | | | | | | | | | | | | | | | |
| | | | | | 115 | | | | | | | | | | | | | | | | | | | |
| | | | | | 135 | | | | | | | | | | | | | | | | | | | |
| | | | | | 155 | | | | | | | | | | | | | | | | | | | |
| 40 | 54 | 60 | 10 | 10 | 155 | | | | | | | | | | | | | | | | | | | |
| | | | | | 195 | | | | | | | | | | | | | | | | | | | |
| | | | | | 55 | | | | | | | | | | | | | | | | | | | |
| | | | | | 75 | | | | | | | | | | | | | | | | | | | |
| | | | | | 95 | | | | | | | | | | | | | | | | | | | |
| 42 | 54 | 60 | 10 | 10 | 115 | | | | | | | | | | | | | | | | | | | |
| | | | | | 135 | | | | | | | | | | | | | | | | | | | |
| | | | | | 155 | | | | | | | | | | | | | | | | | | | |
| | | | | | 195 | | | | | | | | | | | | | | | | | | | |
| | | | | | 95 | | | | | | | | | | | | | | | | | | | |
| 50 | 66 | 72 | 10 | 15 | 115 | | | | | | | | | | | | | | | | | | | |
| | | | | | 135 | | | | | | | | | | | | | | | | | | | |
| | | | | | 155 | | | | | | | | | | | | | | | | | | | |
| | | | | | 195 | | | | | | | | | | | | | | | | | | | |
| | | | | | 95 | | | | | | | | | | | | | | | | | | | |
| 60 | 80 | 86 | 20 | 20 | 115 | | | | | | | | | | | | | | | | | | | |
| | | | | | 135 | | | | | | | | | | | | | | | | | | | |
| | | | | | 155 | | | | | | | | | | | | | | | | | | | |
| | | | | | 195 | | | | | | | | | | | | | | | | | | | |
| | | | | | 245 | | | | | | | | | | | | | | | | | | | |

GCS

Forma de pedido: Guía para casquillo GCS / d₁ x m x L - Ejemplo: GCS / 16 x 44 x 36.

Order: Shoulder leader pin GCS / d₁ x m x L - Example: GCS / 16 x 44 x 36.

Auftragsform: Führungsbolzen GCS / d₁ x m x L - Beispiel: GCS / 16 x 44 x 36.

Otras medidas, bajo demanda

Material: DIN 1.7242

Dureza: 60 - 62 HRc

| d ₁ | d ₂ | D | a | b | s | m | L | | | | | | | | | | | | | | | | | | | | |
|----------------|----------------|----|----|---|----|-----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| | | | | | | | 36 | 46 | 56 | 66 | 76 | 86 | 96 | 106 | 116 | 126 | 136 | 156 | 166 | 176 | 186 | 196 | 226 | 246 | 286 | | |
| 18 | 26 | 30 | 6 | 7 | 9 | 16 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 21 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 26 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 35 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 45 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 55 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 65 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 75 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 95 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 115 | | | | | | | | | | | | | | | | | | | | | |
| 22 | 30 | 35 | 6 | 7 | 9 | 16 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 21 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 26 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 35 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 45 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 55 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 65 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 75 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 95 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 115 | | | | | | | | | | | | | | | | | | | | | |
| 30 | 42 | 47 | 6 | 7 | 9 | 16 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 21 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 26 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 35 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 45 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 55 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 75 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 95 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 115 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 135 | | | | | | | | | | | | | | | | | | | | | |
| 40 | 54 | 60 | 10 | 7 | 12 | 26 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 35 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 45 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 55 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 75 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 95 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 115 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 135 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 155 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 195 | | | | | | | | | | | | | | | | | | | | | |

GC2S

Forma de pedido: Guía para casquillo GC2S / d₁ x m x L - **Ejemplo:** GC2S / 16 x 44 x 36.

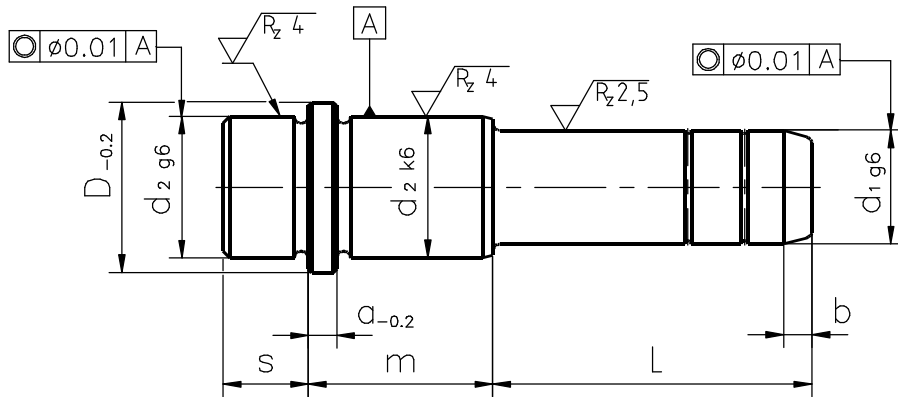
Order: Shoulder leader pin GC2S / d₁ x m x L - **Example:** GC2S / 16 x 44 x 36.

Auftragsform: Führungsbolzen GC2S / d₁ x m x L - **Beispiel:** GC2S / 16 x 44 x 36.

Otras medidas, bajo demanda

Material: DIN 1.7264

Dureza: 60 - 62 HRc



| d ₁ | d ₂ | D | a | b | s | m | L | | | | | | | |
|----------------|----------------|----|---|---|----|----|----|----|----|----|----|----|-----|--|
| | | | | | | | 26 | 36 | 45 | 50 | 65 | 70 | 100 | |
| 12 | 16 | 20 | 4 | 4 | 12 | 26 | | | | | | | | |
| | | | | | | 26 | | | | | | | | |
| 16 | 20 | 24 | 4 | 4 | 12 | 30 | | | | | | | | |
| | | | | | | 34 | | | | | | | | |
| | | | | | | 44 | | | | | | | | |
| | | | | | | 54 | | | | | | | | |
| 18 | 25 | 30 | 6 | 6 | 14 | 34 | | | | | | | | |
| | | | | | | 44 | | | | | | | | |
| 22 | 30 | 35 | 6 | 6 | 14 | 44 | | | | | | | | |
| | | | | | | 54 | | | | | | | | |
| | | | | | | 64 | | | | | | | | |

Forma de pedido: Guía para casquillo GC2 / d₁ x m x L - Ejemplo: GC2 / 16 x 44 x 36.

Order: Shoulder leader pin GC2 / d₁ x m x L - Example: GC2 / 16 x 44 x 36.

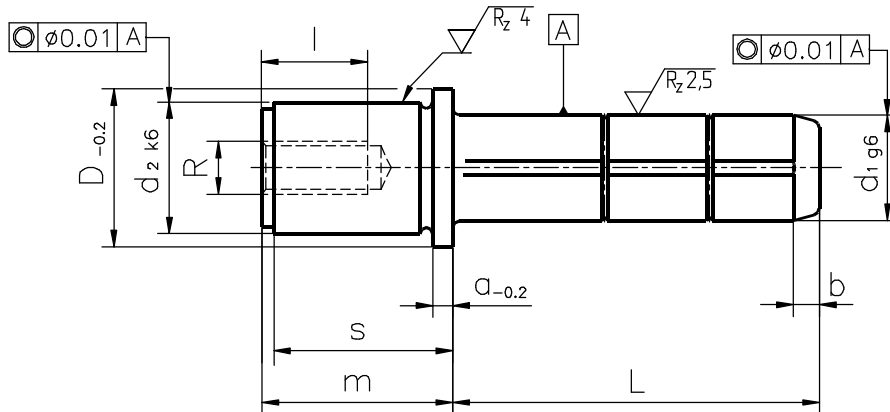
Auftragsform: Führungsbolzen GC2 / d₁ x m x L - Beispiel: GC2 / 16 x 44 x 36.

Otras medidas, bajo demanda

GC2

Material: DIN 1.7242

Dureza: 60 - 62 HRc



| d ₁ | d ₂ | D | R | a | b | l | m | s | L | | | | | | | | | |
|----------------|----------------|----|-----|-----|---|----|-----|----|----|----|----|----|----|----|-----|-----|--|--|
| | | | | | | | | | 30 | 40 | 50 | 60 | 70 | 80 | 100 | 140 | | |
| 10 | 16 | 20 | M6 | 3.5 | 4 | 16 | 16 | 11 | | | | | | | | | | |
| | | | | | | | 21 | 16 | | | | | | | | | | |
| | | | | | | | 26 | 21 | | | | | | | | | | |
| | | | | | | | 31 | 26 | | | | | | | | | | |
| | | | | | | | 40 | 35 | | | | | | | | | | |
| 11 | 16 | 20 | M6 | 3.5 | 4 | 16 | 50 | 45 | | | | | | | | | | |
| | | | | | | | 21 | 16 | | | | | | | | | | |
| | | | | | | | 26 | 21 | | | | | | | | | | |
| | | | | | | | 31 | 26 | | | | | | | | | | |
| | | | | | | | 40 | 35 | | | | | | | | | | |
| 14 | 20 | 24 | M8 | 6 | 7 | 16 | 21 | 16 | | | | | | | | | | |
| | | | | | | | 26 | 21 | | | | | | | | | | |
| | | | | | | | 31 | 26 | | | | | | | | | | |
| | | | | | | | 40 | 35 | | | | | | | | | | |
| | | | | | | | 50 | 45 | | | | | | | | | | |
| 15 | 20 | 24 | M8 | 6 | 7 | 16 | 60 | 55 | | | | | | | | | | |
| | | | | | | | 26 | 21 | | | | | | | | | | |
| | | | | | | | 31 | 26 | | | | | | | | | | |
| | | | | | | | 40 | 35 | | | | | | | | | | |
| | | | | | | | 50 | 45 | | | | | | | | | | |
| 18 | 25 | 30 | M10 | 6 | 7 | 21 | 26 | 21 | | | | | | | | | | |
| | | | | | | | 31 | 26 | | | | | | | | | | |
| | | | | | | | 40 | 35 | | | | | | | | | | |
| | | | | | | | 50 | 45 | | | | | | | | | | |
| | | | | | | | 60 | 55 | | | | | | | | | | |
| 19 | 25 | 30 | M10 | 6 | 7 | 21 | 80 | 75 | | | | | | | | | | |
| | | | | | | | 26 | 21 | | | | | | | | | | |
| | | | | | | | 31 | 26 | | | | | | | | | | |
| | | | | | | | 40 | 35 | | | | | | | | | | |
| | | | | | | | 50 | 45 | | | | | | | | | | |
| 23 | 32 | 38 | M12 | 6 | 7 | 21 | 36 | 26 | | | | | | | | | | |
| | | | | | | | 45 | 35 | | | | | | | | | | |
| | | | | | | | 55 | 45 | | | | | | | | | | |
| | | | | | | | 65 | 55 | | | | | | | | | | |
| | | | | | | | 85 | 75 | | | | | | | | | | |
| 24 | 32 | 38 | M12 | 6 | 7 | 21 | 105 | 95 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

Forma de pedido: Guía Norma Europ GC3 / d₁ x s x L - Ejemplo: GC3 / 18 x 26 x 50.

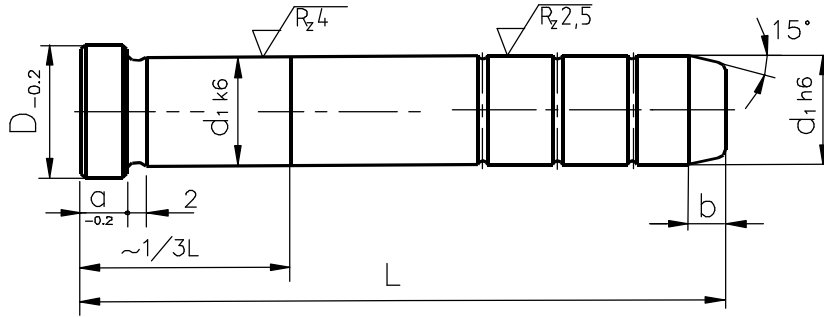
Order: Shoulder leader pin GC3 / d₁ x s x L - Example: GC3 / 18 x 26 x 50.

Auftragsform: Führungsbolzen GC3 / d₁ x s x L - Beispiel: GC3 / 18 x 26 x 50.

Otras medidas, bajo demanda

Material: DIN 1.7242

Dureza: 60 - 62 HRc



| d ₁ | D | a | b | L | | | | | | | | | | | | |
|----------------|----|----|---|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| | | | | 44 | 52 | 65 | 75 | 85 | 95 | 105 | 115 | 125 | 140 | 170 | 200 | 250 |
| 10 | 12 | 4 | 3 | | | | | | | | | | | | | |
| 12 | 15 | 4 | 4 | | | | | | | | | | | | | |
| 14 | 17 | 5 | 4 | | | | | | | | | | | | | |
| 16 | 19 | 6 | 5 | | | | | | | | | | | | | |
| 18 | 22 | 6 | 6 | | | | | | | | | | | | | |
| 20 | 24 | 7 | 6 | | | | | | | | | | | | | |
| 25 | 30 | 8 | 7 | | | | | | | | | | | | | |
| 30 | 35 | 10 | 8 | | | | | | | | | | | | | |

Forma de pedido: Guía G / d₁ x L - Ejemplo: G / 16 x 65.

Order: Leader pin G / d₁ x L - Example: G / 16 x 65.

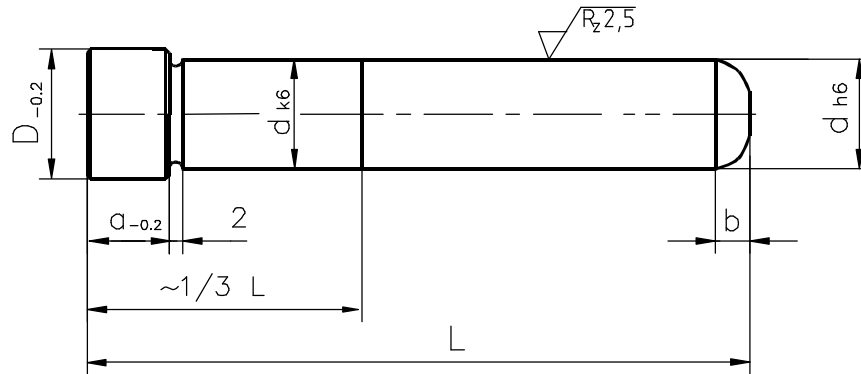
Auftragsform: Führungsbolzen G / d₁ x L - Beispiel: G / 16 x 65.

Otras medidas, bajo demanda

Handwritten signature

Material: DIN 1.7242

Dureza: 60 - 62 HRc



Handwritten signature

| d | D | a | b | L | | | | | | | | | | | | |
|----|----|----|---|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| | | | | 44 | 52 | 65 | 75 | 85 | 95 | 105 | 115 | 125 | 140 | 170 | 200 | 250 |
| 10 | 12 | 8 | 3 | | | | | | | | | | | | | |
| 12 | 15 | 8 | 4 | | | | | | | | | | | | | |
| 14 | 17 | 10 | 4 | | | | | | | | | | | | | |
| 16 | 19 | 12 | 5 | | | | | | | | | | | | | |
| 18 | 22 | 14 | 6 | | | | | | | | | | | | | |
| 20 | 24 | 15 | 6 | | | | | | | | | | | | | |
| 25 | 30 | 18 | 7 | | | | | | | | | | | | | |

Forma de pedido: Guía G2 / d x L - **Ejemplo:** G2 / 12 x 52.

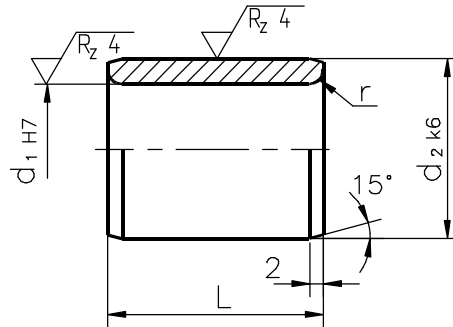
Order: Angle pin G2 / d x L - **Example:** G2 / 12 x 52.

Auftragsform: Schieberbolzen G2 / d x L - **Beispiel:** G2 / 12 x 52.

Otras medidas, bajo demanda

Material: DIN 1.7242

Dureza: 60 - 62 HRC



| d ₁ | d ₂ | r | L | | | | | | | |
|----------------|----------------|-----|---|----|----|----|----|----|----|--|
| | | | 9 | 17 | 21 | 30 | 35 | 45 | 55 | |
| 10 | 14 | 1.5 | | | | | | | | |
| 12 | 16 | 1.5 | | | | | | | | |
| 14 | 20 | 1.5 | | | | | | | | |
| 16 | 20 | 1.5 | | | | | | | | |
| 18 | 25 | 2 | | | | | | | | |
| 20 | 30 | 2 | | | | | | | | |
| 22 | 30 | 2.5 | | | | | | | | |
| 25 | 35 | 2.5 | | | | | | | | |
| 30 | 40 | 3.5 | | | | | | | | |
| 40 | 50 | 3.5 | | | | | | | | |

Forma de pedido: Casquillo C / d₁ x L - **Ejemplo:** C / 16 x 30.

Order: Leader pin bushing C / d₁ x L - **Example:** C / 16 x 30.

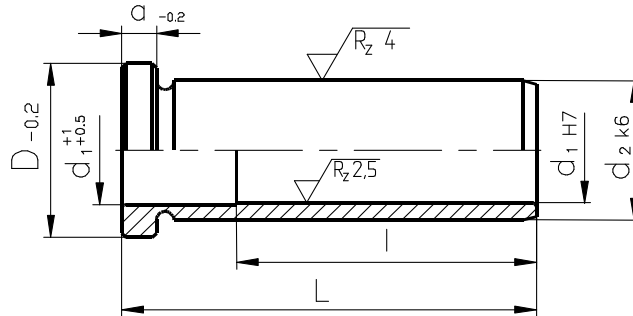
Auftragsform: Führungsbuchse C / d₁ x L - **Beispiel:** C / 16 x 30.

Otras medidas, bajo demanda

Handwritten signature

Material: DIN 1.7242

Dureza: 60 - 62 HRc



CV

| d ₁ | d ₂ | D | a | L | | | | | | | | | | | | |
|----------------|----------------|----|----|----|----|----|----|------|------|------|------|------|------|--|--|--|
| | | | | 17 | 21 | 26 | 35 | 45 | 55 | 65 | 75 | 95 | 135 | | | |
| 10 | 14 | 17 | 4 | | | | | | | | | | | | | |
| 12 | 16 | 20 | 4 | | | | | l=30 | l=30 | | | | | | | |
| 14 | 20 | 24 | 4 | | | | | l=30 | | l=30 | | | | | | |
| 16 | 20 | 24 | 4 | | | | | | | l=45 | l=45 | l=55 | | | | |
| 18 | 25 | 30 | 6 | | | | | | | l=45 | l=45 | l=65 | | | | |
| 20 | 30 | 35 | 6 | | | | | | | l=45 | l=45 | | | | | |
| 22 | 30 | 35 | 6 | | | | | | | l=55 | l=55 | l=65 | | | | |
| 25 | 35 | 40 | 8 | | | | | | | l=55 | l=55 | | | | | |
| 30 | 40 | 45 | 8 | | | | | | | l=65 | l=65 | l=65 | l=65 | | | |
| 40 | 50 | 54 | 10 | | | | | | | | | l=65 | l=65 | | | |

Forma de pedido: Casquillo CV / d₁ x L - Ejemplo: CV / 16 x 35.

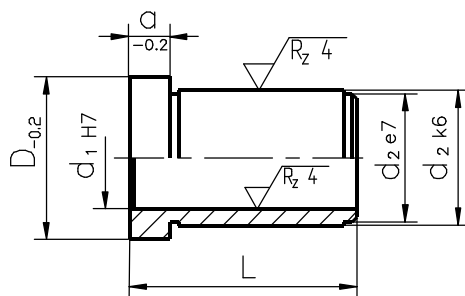
Order: Leader pin bushing CV / d₁ x L - Example: CV / 16 x 35.

Auftragsform: Führungsbuchse CV / d₁ x L - Beispiel: CV / 16 x 35.

Otras medidas, bajo demanda

Material: DIN 1.7242

Dureza: 60 - 62 HRc



| d ₁ | d ₂ | D | a | L | | | | | | | |
|----------------|----------------|----|-----|----|----|----|----|----|----|----|--|
| | | | | 11 | 16 | 21 | 26 | 35 | 45 | 55 | |
| 10 | 16 | 20 | 3.5 | | | | | | | | |
| 11 | 16 | 20 | 3.5 | | | | | | | | |
| 14 | 20 | 24 | 6 | | | | | | | | |
| 15 | 20 | 24 | 6 | | | | | | | | |
| 18 | 25 | 30 | 6 | | | | | | | | |
| 19 | 25 | 30 | 6 | | | | | | | | |
| 23 | 32 | 38 | 6 | | | | | | | | |
| 24 | 32 | 38 | 6 | | | | | | | | |

Forma de pedido: Casquillo Norma Europ CVE / d₁ x L - **Ejemplo:** CVE / 18 x 35.

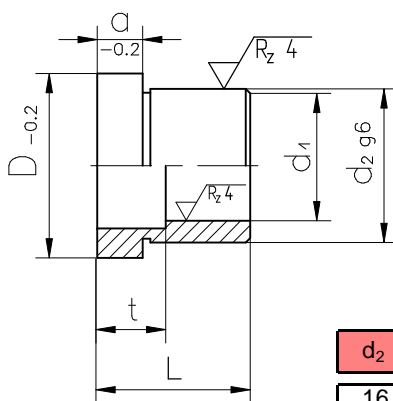
Order: Leader pin bushing CVE / d₁ x L - **Example:** CVE / 18 x 35.

Auftragsform: Führungsbuchse CVE / d₁ x L - **Beispiel:** CVE / 18 x 35.

Otras medidas, bajo demanda

Material : DIN 1.7242

Dureza: 60 - 62 HRc



| d ₂ | D | d ₁ | a | t | L |
|----------------|----|----------------|-----|------|-------|
| 16 | 20 | 6.6 | 3.5 | 6.5 | 10-15 |
| 20 | 24 | 9 | 6 | 9 | 15-20 |
| 25 | 30 | 11 | 6 | 11 | 15-17 |
| 32 | 38 | 14 | 6 | 12.5 | 17-26 |

Forma de pedido: Casquillo de fijación CF / d₂ x L - **Ejemplo:** CF / 20 x 20.

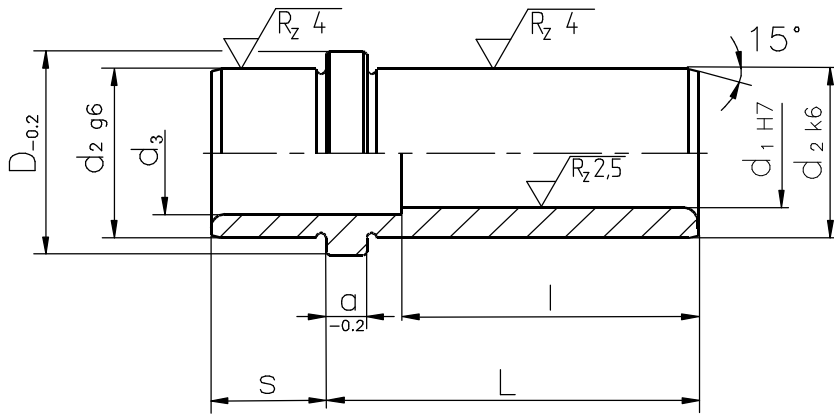
Order: Shouldered bushing CF / d₂ x L - **Example:** CF / 20 x 20.

Auftragsform: Anschlagbusche CF / d₂ x L - **Beispiel:** CF / 20 x 20.

Otras medidas, bajo demanda

Material: DIN 1.7242

Dureza: 60 - 62 HRc



| d ₁ | d ₂ | d ₃ | D | a | s | L | | | | | | | |
|----------------|----------------|----------------|----|---|----|----|----|----|------|------|------|------|------|
| | | | | | | 17 | 21 | 26 | 35 | 45 | 55 | 74 | 94 |
| 12 | 16 | - | 20 | 4 | 8 | | | | l=27 | l=27 | l=27 | | |
| 16 | 20 | 16,5 | 24 | 4 | 12 | | | | | l=30 | l=40 | l=46 | |
| 18 | 25 | 19 | 30 | 6 | 17 | | | | | | l=38 | l=44 | l=57 |
| 22 | 30 | 23 | 35 | 6 | 17 | | | | | | l=38 | l=44 | l=57 |
| 30 | 40 | 31 | 45 | 8 | 21 | | | | | | l=44 | l=43 | l=56 |

Forma de pedido: Casquillo CV2 / d₁ x L - Ejemplo: CV2 / 16 x 22.

Order: Leader pin bushing CV2 / d₁ x L - Example: CV2 / 16 x 22.

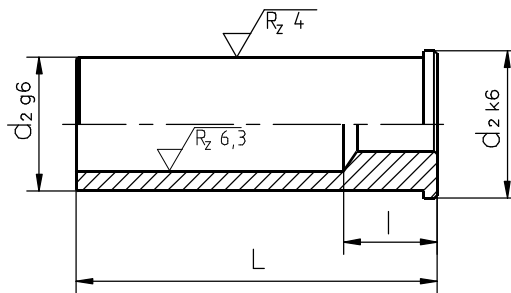
Auftragsform: Führungsbuchse CV2 / d₁ x L - Beispiel: CV2 / 16 x 22.

Otras medidas, bajo demanda

Handwritten signature

Material: DIN 1.7242

Dureza: 60 - 62 HRc



Handwritten signature

| d ₂ | l | L | | | | | | | | | | | | | | |
|----------------|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|--|
| | | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 220 | |
| 14 | 9 | | | | | | | | | | | | | | | |
| 20 | 14 | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | |
| 42 | | | | | | | | | | | | | | | | |

Forma de pedido: Casquillo de centraje CCS / d₂ x L - Ejemplo: CCS / 20 x 80.

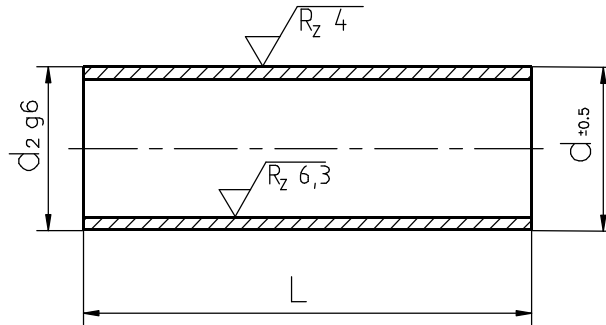
Order: Locating bushing CCS / d₂ x L - Example: CCS / 20 x 80.

Auftragsform: Zentrierhülse CCS / d₂ x L - Beispiel: CCS / 20 x 80.

Otras medidas, bajo demanda

Material: DIN 1.7242

Dureza: 60 - 62 HRc



| d ₂ | d | L | | | | | | | | | | | | | | | | | | |
|----------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|
| | | 10 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 90 | 95 | 100 | 120 | 140 |
| 16 | 13 | | | | | | | | | | | | | | | | | | | |
| 20 | 16 | | | | | | | | | | | | | | | | | | | |
| 25 | 21 | | | | | | | | | | | | | | | | | | | |
| 32 | 26 | | | | | | | | | | | | | | | | | | | |

Handwritten signature

Forma de pedido: Casquillo de centrado CCE / d₂ x L - Ejemplo: CCE / 25 x 75.

Order: Locating bushing CCE / d₂ x L - Example: CCE / 25 x 75.

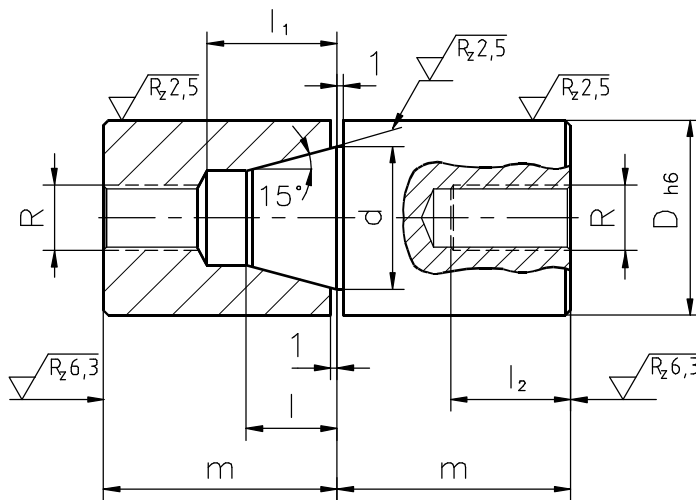
Auftragsform: Zentrierhülse CCE / d₂ x L - Beispiel: CCE / 25 x 75.

Otras medidas, bajo demanda

Material: DIN 1.7242

Tratamiento : Carbonitrurado prof. 0.6 mm

Dureza : 60 - 62 HRC



| D | d | R | l | l ₁ | l ₂ | m |
|----|----|-----|----|----------------|----------------|----|
| 20 | 16 | M8 | 10 | 13 | 15 | 22 |
| 24 | 18 | M8 | 10 | 15 | 16 | 27 |
| 30 | 22 | M10 | 14 | 20 | 18 | 36 |
| 40 | 30 | M12 | 18 | 24 | 20 | 46 |
| 50 | 40 | M14 | 25 | 32 | 25 | 56 |
| 60 | 46 | M16 | 30 | 40 | 30 | 76 |

Forma de pedido: Unidad de centraje UC / D - Ejemplo: UC / 30.

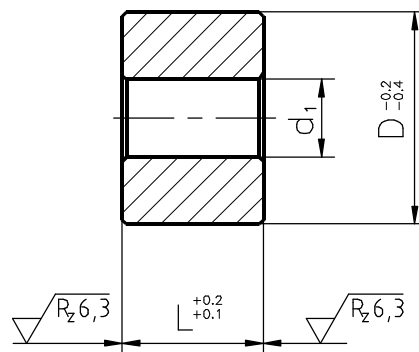
Order: Location Unit UC / D - Example: UC / 30.

Auftragsform: Zentriereinheit UC / D - Beispiel: UC / 30.

ANILLO SUPLEMENTO / SPACER RING

Material: DIN 1.1730

Dureza : 50 - 52 HRC



| D | d ₁ | L | | | | |
|----|----------------|---|----|----|----|----|
| | | 9 | 10 | 19 | 20 | 30 |
| 20 | 8,5 | | | | | |
| 24 | 8,5 | | | | | |
| 30 | 11 | | | | | |
| 40 | 13 | | | | | |
| 50 | 15 | | | | | |
| 60 | 17 | | | | | |

Forma de pedido: Anillo suplemento SUC / D x L - Ejemplo: SUC / 30 x 20.

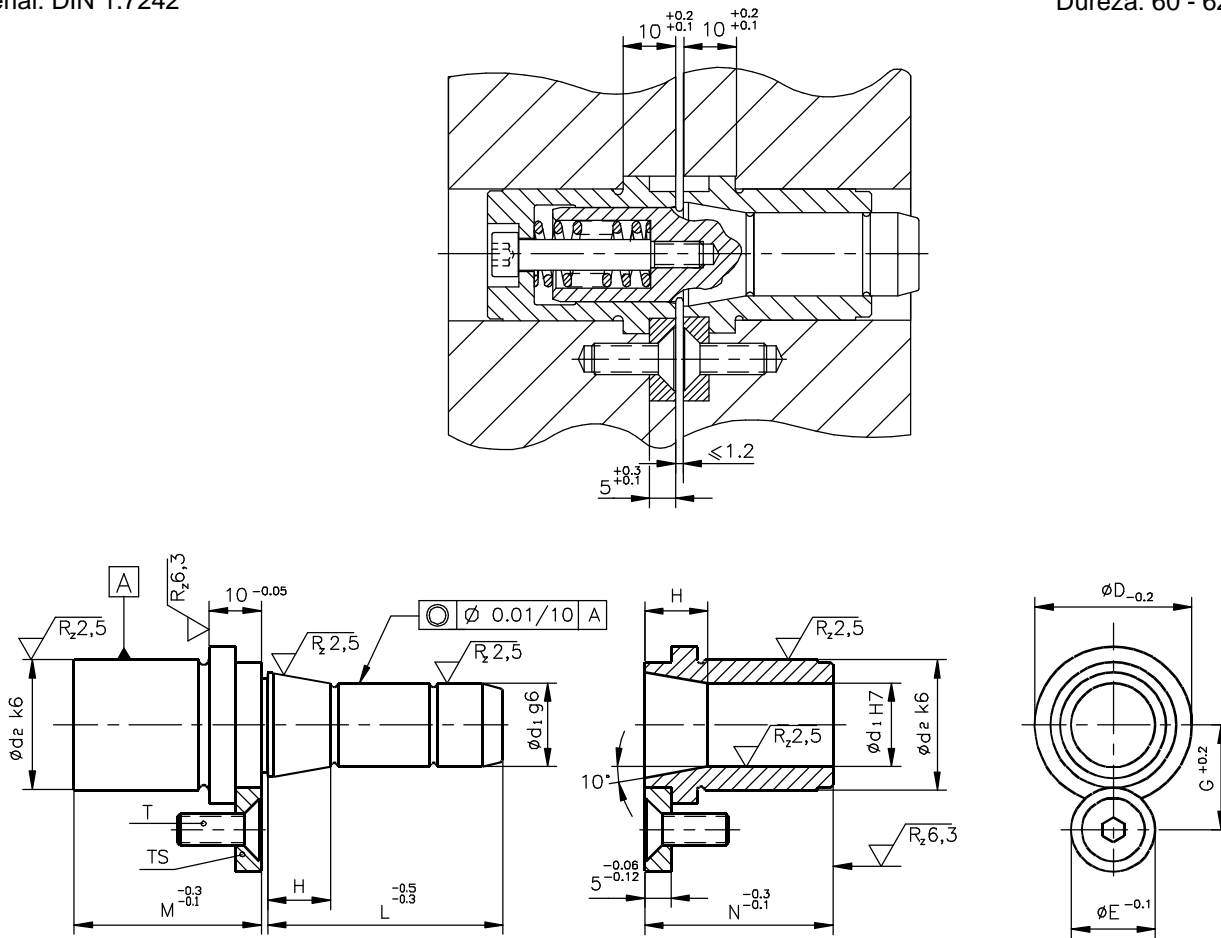
Order: Spacer ring SUC / D x L - Example: SUC / 30 x 20.

Auftragsform: Einlagering SUC / D x L - Beispiel: SUC / 30 x 20.

Otras medidas, bajo demanda

Material: DIN 1.7242

Dureza: 60 - 62 HRc



| d ₁ | d ₂ | D | H | M | L | E | G | T | TS | N | | |
|----------------|----------------|----|----|----|----|----|----|----|-------|----|----|----|
| 16 | 25 | 30 | 12 | 36 | 45 | 16 | 20 | M6 | 16x05 | 36 | 46 | |
| 20 | 30 | 35 | 14 | 46 | 55 | 16 | 22 | M6 | 16x05 | 36 | 46 | |
| 30 | 40 | 45 | 16 | 56 | 65 | 20 | 29 | M8 | 20x05 | | 46 | 56 |

Forma de pedido: Unidad de centraje autoajustable UCA / d₂ x N - **Ejemplo:** UCA / 25x46.

Order: Location unit with self locking UCA / d₂ x N - **Example:** UCA / 25x46.

Auftragsform: Zentriereinheit UCA / d₂ x N - **Beispiel:** UCA / 25x46.

Otras medidas, bajo demanda

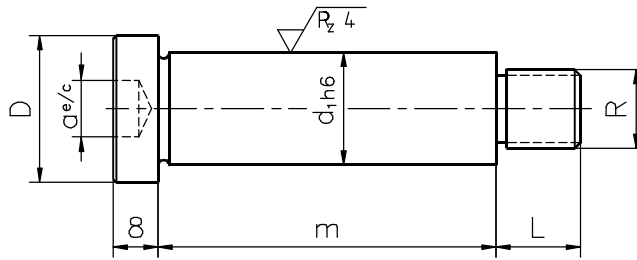
Red

TOPE GUIA / GUIDE STOP

TGM

Material: DIN 1.7242

Dureza: 46 -48 HRC



| d ₁ | D | a | L | R | m | | | | | | | | | |
|----------------|----|----|----|-----|----|----|----|----|-----|-----|-----|-----|-----|--|
| | | | | | 40 | 50 | 60 | 80 | 100 | 125 | 150 | 175 | 200 | |
| 14 | 20 | 8 | 16 | M10 | | | | | | | | | | |
| 20 | 26 | 10 | 20 | M14 | | | | | | | | | | |

Forma de pedido: Tope guía TGM / d₁ x m - **Ejemplo:** TGM / 14 x 80.

Order: Guide stop TGM / d₁ x m - **Example:** TGM / 14 x 80.

Auftragsform: Führungsanschlag TGM / d₁ x m - **Beispiel:** TGM / 14 x 80.

Otras medidas, bajo demanda

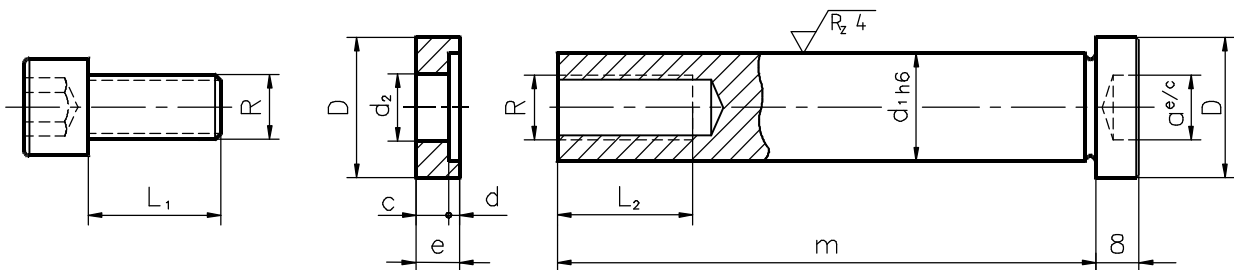
Cast

TOPE GUIA / GUIDE STOP

TGH

Material: DIN 1.1730

Dureza: 50 - 52 HRC



| d ₁ | D | d ₂ | a | c | d | e | L ₁ | L ₂ | R | m | | | | | | | | |
|----------------|----|----------------|----|---|---|---|----------------|----------------|-----|----|----|----|----|-----|-----|-----|-----|-----|
| | | | | | | | | | | 40 | 50 | 60 | 80 | 100 | 125 | 150 | 175 | 200 |
| 14 | 20 | 8,5 | 8 | 4 | 2 | 6 | 20 | 18 | M8 | | | | | | | | | |
| 20 | 26 | 12,5 | 10 | 6 | 2 | 8 | 25 | 25 | M12 | | | | | | | | | |

Forma de pedido: Tope guía TGH / d₁ x m - **Ejemplo:** TGH / 20 x 80.

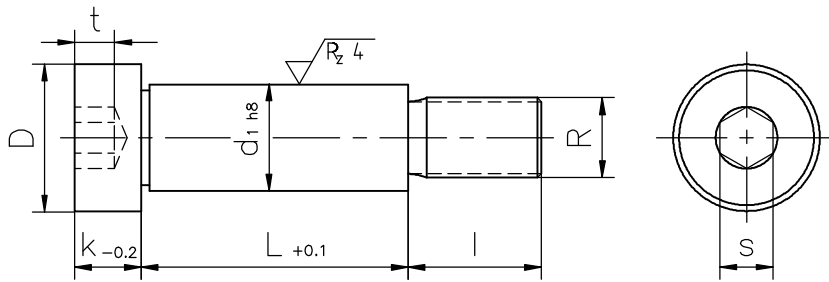
Order: Guide stop TGH / d₁ x m - **Example:** TGH / 20 x 80.

Auftragsform: Führungsanschlag TGH / d₁ x m - **Beispiel:** TGH / 20 x 80.

Otras medidas, bajo demanda

Material: Acero aleado especial al Cr.Mo.

Resistencia a la tracción : 120 - 140 Kp/mm²



| d_1 | 6 | 8 | 10 | 12 | 16 | 20 | 25 | 32 |
|-------|-----|----|----|-----|-----|-----|-----|-----|
| D | 9 | 11 | 14 | 18 | 22 | 28 | 36 | 45 |
| k | 4 | 5 | 6 | 8 | 10 | 12 | 16 | 20 |
| l | 8 | 10 | 12 | 16 | 20 | 25 | 32 | 40 |
| s | 3 | 4 | 5 | 6 | 8 | 10 | 14 | 17 |
| t | 2.5 | 3 | 4 | 5 | 6 | 8 | 11 | 12 |
| R | M5 | M6 | M8 | M10 | M12 | M16 | M20 | M24 |
| L | 10 | | | | | | | |
| | 12 | | | | | | | |
| | 16 | | | | | | | |
| | 20 | | | | | | | |
| | 25 | | | | | | | |
| | 30 | | | | | | | |
| | 32 | | | | | | | |
| | 40 | | | | | | | |
| | 50 | | | | | | | |
| | 60 | | | | | | | |
| | 63 | | | | | | | |
| | 70 | | | | | | | |
| | 80 | | | | | | | |
| | 90 | | | | | | | |
| | 100 | | | | | | | |
| | 110 | | | | | | | |
| | 120 | | | | | | | |
| | 125 | | | | | | | |
| 160 | | | | | | | | |
| 200 | | | | | | | | |
| 250 | | | | | | | | |

Handwritten signature

Forma de pedido: Tornillo límite macho TPM / R x L - Ejemplo: TPM / M10 x 80.
 Order: Shoulder screw TPM / R x L - Example: TPM / M10 x 80.
 Auftragsform: Schulterschraube TPM / R x L - Beispiel: TPM / M10 x 80.

Otras medidas, bajo demanda

DISCOS CENTRADORES

Pag.

| | | |
|-----|---------------------------------|-----|
| DC | Disco centrador / Locating ring | 3/2 |
| DC0 | Disco centrador / Locating ring | 3/2 |
| DC1 | Disco centrador / Locating ring | 3/3 |
| DC2 | Disco centrador / Locating ring | 3/3 |

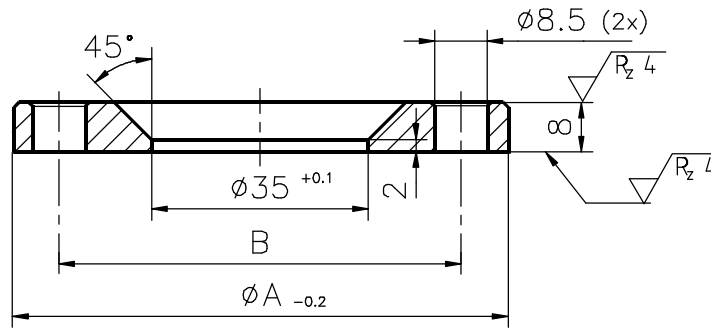
BEBEDEROS

| | | |
|----------|-----------------------|-----|
| B1 B1T | Bebedero / Sprue bush | 3/4 |
| B2 | Bebedero / Sprue bush | 3/4 |
| B3 B3T | Bebedero / Sprue bush | 3/5 |
| B4 B4T | Bebedero / Sprue bush | 3/5 |
| B5 | Bebedero / Sprue bush | 3/6 |
| B6 | Bebedero / Sprue bush | 3/6 |
| B7 | Bebedero / Sprue bush | 3/7 |
| B8 | Bebedero / Sprue bush | 3/7 |
| B11 B11T | Bebedero / Sprue bush | 3/8 |
| B31 B31T | Bebedero / Sprue bush | 3/8 |

DC

DISCO CENTRADOR / LOCATING RING

Material: DIN 1.1730



| | | | | | | | | | | | | |
|---|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|
| A | 70 | 75 | 80 | 90 | 100 | 110 | 120 | 125 | 150 | 160 | 175 | 200 |
| B | 59 | 61 | 65 | 70 | 75 | 80 | 84 | 86 | 118 | 118 | 130 | 142 |

Forma de pedido: Disco centrador DC / A - **Ejemplo:** DC / 80.

Order: Locating ring DC / A - **Example:** DC / 80.

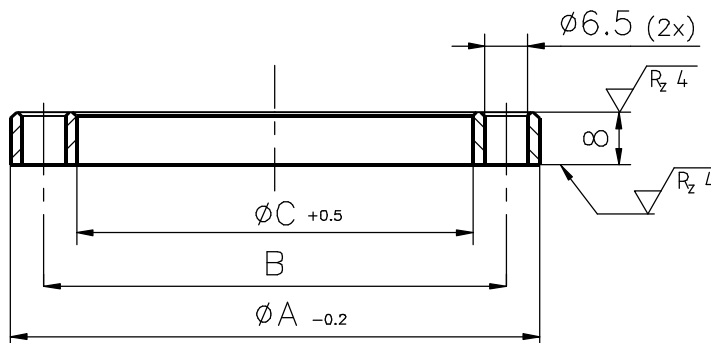
Auftragsform: Zentrierflansch DC / A - **Beispiel:** DC / 80.

Otras medidas, bajo demanda

DC0

DISCO CENTRADOR / LOCATING RING

Material: DIN 1.1730



| | | | | | | | |
|---|----|------|-----|-----|-----|-----|-----|
| A | 80 | 90 | 100 | 110 | 120 | 125 | 130 |
| B | 70 | 77,5 | 85 | 95 | 105 | 110 | 115 |
| C | 60 | 65 | 70 | 80 | 90 | 95 | 100 |

Forma de pedido: Disco centrador DC0 / A - **Ejemplo:** DC0 / 80.

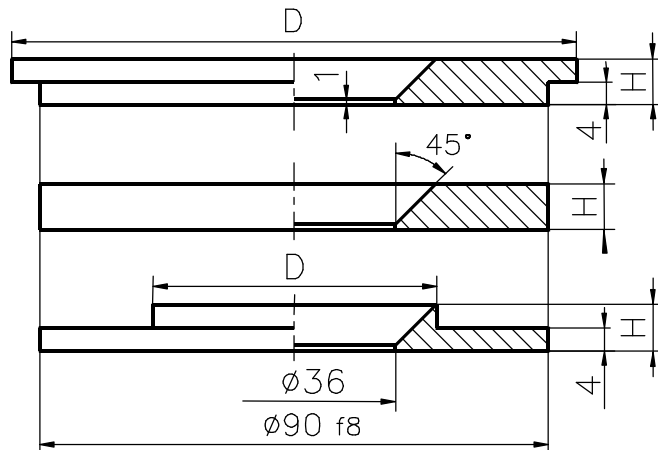
Order: Locating ring DC0 / A - **Example:** DC0 / 80.

Auftragsform: Zentrierflansch DC0 / A - **Beispiel:** DC0 / 80.

Otras medidas, bajo demanda

Handwritten signature

Material: DIN 1.1730



| | | | | | | | | | | | | | | | | |
|---|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| D | 60 | 80 | 90 | 100 | 110 | 110 | 120 | 125 | 130 | 140 | 150 | 160 | 175 | 180 | 200 | 250 |
| H | 8 | 8 | 8 | 8 | 8 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |

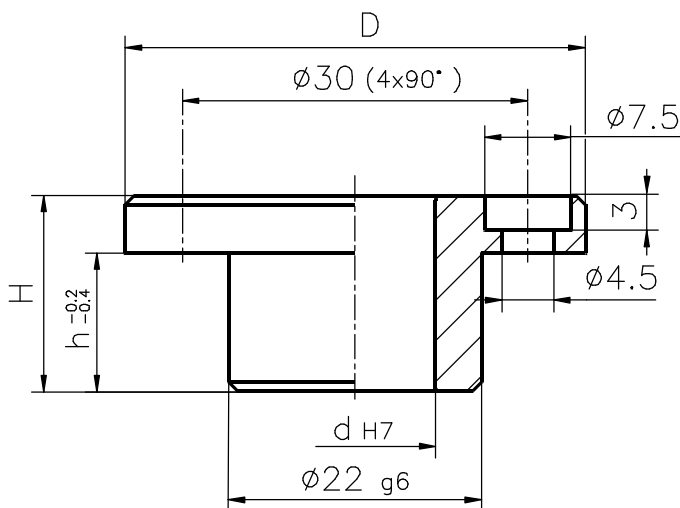
Forma de pedido: Disco centrador DC1 / D x H - Ejemplo: DC1 / 110 x 8.

Order: Locating ring DC1 / D x H - Example: DC1 / 110 x 8.

Auftragsform: Zentrierflansch DC1 / D x H - Beispiel: DC1 / 110 x 8.

Otras medidas, bajo demanda

Material: DIN 1.2162



| | | | | | | |
|---|----|----|----|----|----|----|
| D | 40 | 40 | 40 | 40 | 60 | 60 |
| H | 17 | 17 | 22 | 22 | 17 | 22 |
| d | 10 | 14 | 10 | 14 | 14 | 14 |
| h | 12 | 12 | 17 | 17 | 12 | 17 |

Forma de pedido: Disco centrador DC2 / D x H/d - Ejemplo: DC2 / 40 x 17 / 10.

Order: Locating ring DC2 / D x H/d - Example: DC2 / 40 x 17 / 10.

Auftragsform: Zentrierflansch DC2 / D x H/d - Beispiel: DC2 / 40 x 17 / 10.

Otras medidas, bajo demanda

B1 B1T

BEBEDERO / SPRUE BUSH

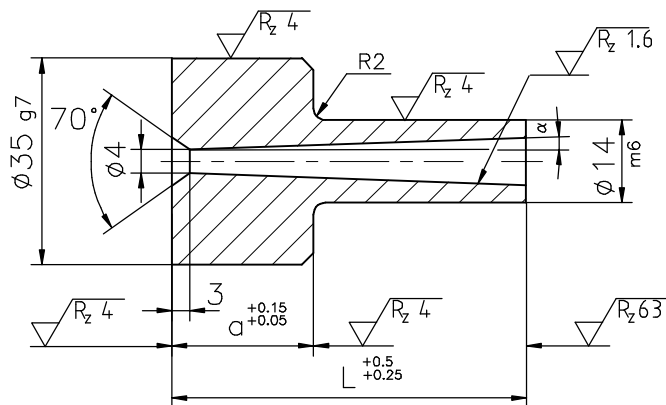
Material: DIN 1.7242

B1 = Sin templar
Non hardened
Ungehärtet

Dureza: 21 - 23 HRc

B1T = Templado
Hardened
Gehärtet

Dureza: 60 - 62 HRc



| a | L | | | | | | | |
|----|--------------------|----|----|----|----|----|--------------------|-----|
| | $\alpha = 2^\circ$ | | | | | | $\alpha = 1^\circ$ | |
| | 27 | 36 | 46 | 51 | 60 | 70 | 70 | 100 |
| 12 | | | | | | | | |
| 24 | | | | | | | | |

Forma de pedido: Bebedero B1 / a x L - **Ejemplo:** B1 / 12 x 70.

Order: Sprue bush B1 / a x L - **Example:** B1 / 12 x 70.

Auftragsform: Angußbuchse B1 / a x L - **Beispiel:** B1 / 12 x 70.

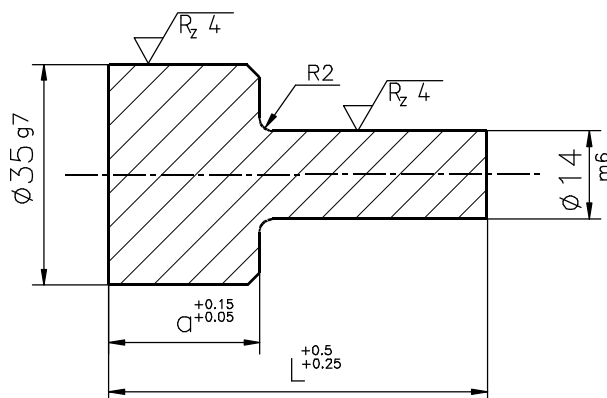
Otras medidas, bajo demanda

B2

BEBEDERO / SPRUE BUSH

Material: DIN 1.7242

Dureza: 21 - 23 HRc



| a | L | | | | | | | |
|----|----|----|----|----|----|----|----|-----|
| | 27 | 36 | 46 | 51 | 60 | 70 | 70 | 100 |
| 12 | | | | | | | | |
| 24 | | | | | | | | |

Forma de pedido: Bebedero B2 / a x L - **Ejemplo:** B2 / 12 x 70.

Order: Sprue bush B2 / a x L - **Example:** B2 / 12 x 70.

Auftragsform: Angußbuchse B2 / a x L - **Beispiel:** B2 / 12 x 70.

Otras medidas, bajo demanda

BEBEDERO / SPRUE BUSH

B3 B3T

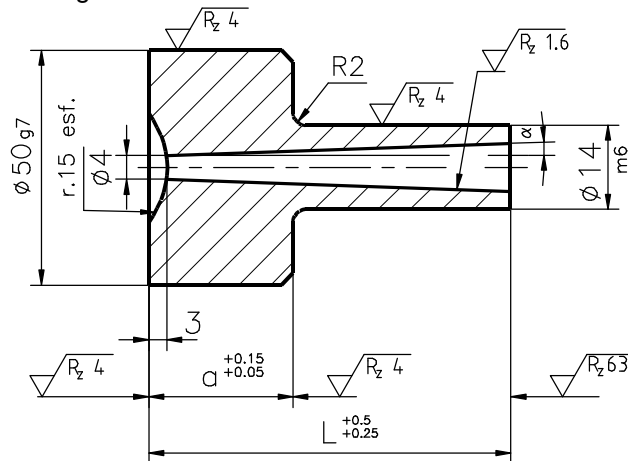
Material: DIN 1.7242

B3 = Sin templar
Non hardened
Ungehärtet

Dureza: 21 - 23 HRc

B3T = Templado
Hardened
Gehärtet

Dureza: 60 - 62 HRc



| a | L | | | | | | | |
|----|--------------------|----|----|----|----|----|--------------------|-----|
| | $\alpha = 2^\circ$ | | | | | | $\alpha = 1^\circ$ | |
| | 27 | 36 | 46 | 51 | 60 | 70 | 70 | 100 |
| 12 | | | | | | | | |
| 24 | | | | | | | | |

Forma de pedido: Bebedero B3 / a x L - **Ejemplo:** B3 / 12 x 70.

Order: Sprue bush B3 / a x L - **Example:** B3 / 12 x 70.

Auftragsform: Angußbuchse B3 / a x L - **Beispiel:** B3 / 12 x 70.

Otras medidas, bajo demanda

BEBEDERO / SPRUE BUSH

B4 B4T

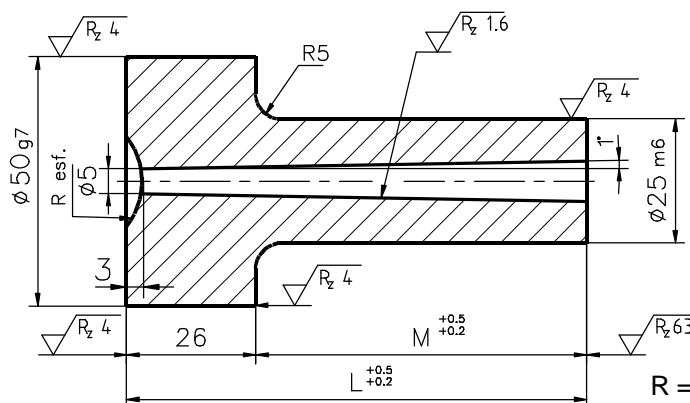
Material: DIN 1.7242

B4 = Sin templar
Non hardened
Ungehärtet

Dureza: 21 - 23 HRc

B4T = Templado
Hardened
Gehärtet

Dureza: 60 - 62 HRc



| | | | | | | | | | | | | | |
|---|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| M | 26.5 | 36.5 | 46.5 | 56.5 | 66.5 | 76.5 | 86.5 | 96.5 | 106.5 | 116.5 | 126.5 | 136.5 | 156.5 |
| L | 52.5 | 62.5 | 72.5 | 82.5 | 92.5 | 102.5 | 112.5 | 122.5 | 132.5 | 142.5 | 152.5 | 162.5 | 182.5 |

Forma de pedido: Bebedero B4 / L x R - **Ejemplo:** B4 / 72.5 x 15.

Order: Sprue bush B4 / L x R - **Example:** B4 / 72.5 x 15.

Auftragsform: Angußbuchse B4 / L x R - **Beispiel:** B4 / 72.5 x 15.

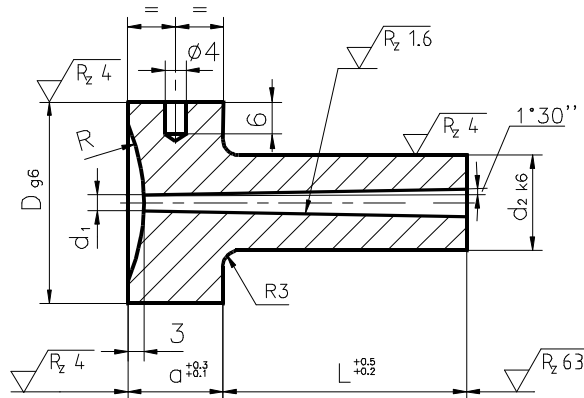
Otras medidas, bajo demanda

B5

BEBEDERO / SPRUE BUSH

Material: DIN 1.7242

Dureza: 56 - 58 HRc



| D | a | d ₂ | R | d ₁ | L | | | | |
|----|----|----------------|-----------|----------------|----|----|----|----|----|
| | | | | | 27 | 36 | 46 | 56 | 76 |
| 38 | 18 | 18 | 15.5 - 40 | 3.5 | | | | | |
| | | | | 4.5 | | | | | |
| 48 | 23 | 24 | | 4.5 | | | | | |
| | | | | 6.5 | | | | | |

Forma de pedido: Bebedero B5 / D x d₁ x L x R- Ejemplo: B5 / 38 x 3.5 x 36 x 15.5.

Order: Sprue bush B5 / D x d₁ x L x R - Example: B5 / 38 x 3.5 x 36 x 15.5.

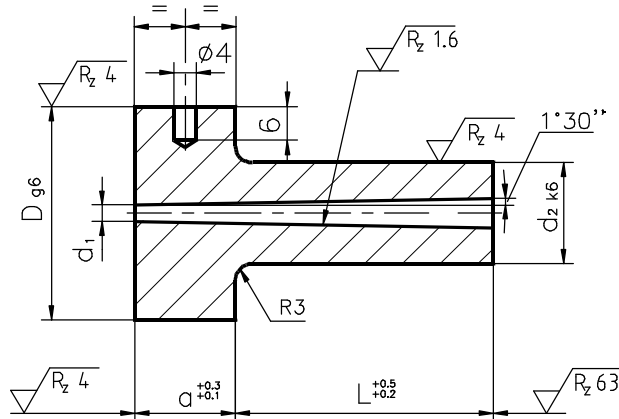
Auftragsform: Angußbuchse B5 / D x d₁ x L x R - Beispiel: B5 / 38 x 3.5 x 36 x 15.5.

B6

BEBEDERO / SPRUE BUSH

Material: DIN 1.7242

Dureza: 56 - 58 HRc



| D | a | d ₂ | d ₁ | L | | | | |
|----|----|----------------|----------------|----|----|----|----|----|
| | | | | 27 | 36 | 46 | 56 | 76 |
| 38 | 18 | 18 | 3.5 | | | | | |
| | | | 4.5 | | | | | |
| 48 | 23 | 24 | 4.5 | | | | | |
| | | | 6.5 | | | | | |

Forma de pedido: Bebedero B6 / D x d₁ x L - Ejemplo: B6 / 38 x 3.5 x 36.

Order: Sprue bush B6 / D x d₁ x L - Example: B6 / 38 x 3.5 x 36.

Auftragsform: Angußbuchse B6 / D x d₁ x L - Beispiel: B6 / 38 x 3.5 x 36.

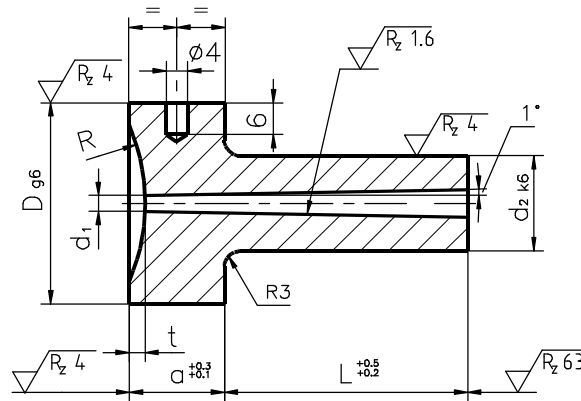
Otras medidas, bajo demanda

BEBEDERO / SPRUE BUSH

B7

Material: DIN 1.7242

Dureza: 56 - 58 HRc



| D | a | d ₂ | R | t | d ₁ | L | | | | | | | |
|----|----|----------------|-----------|-----|----------------|----|----|----|----|----|----|----|-----|
| | | | | | | 22 | 27 | 36 | 46 | 56 | 76 | 96 | 116 |
| 28 | 13 | 12 | 15.5 - 40 | 1.5 | 2.5 | | | | | | | | |
| | | | | | 3.5 | | | | | | | | |
| 38 | 18 | 18 | | 3 | 3 | | | | | | | | |
| | | | | | 4 | | | | | | | | |

Forma de pedido: Bebedero B7 / D x d₁ x L x R- **Ejemplo:** B7 / 28 x 2.5 x 27 x 40.

Order: Sprue bush B7 / D x d₁ x L x R - **Example:** B7 / 28 x 2.5 x 27 x 40.

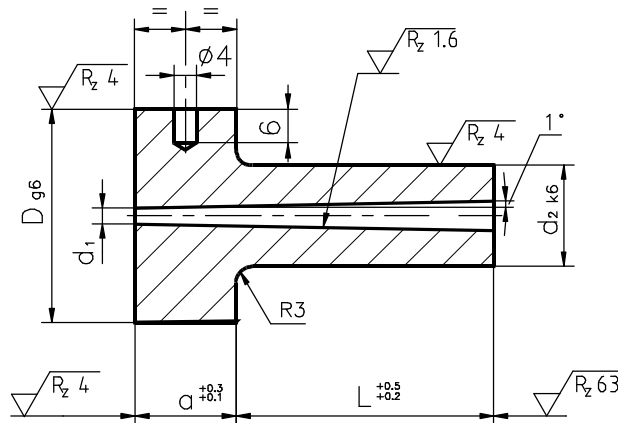
Auftragsform: Angußbuchse B7 / D x d₁ x L x R - **Beispiel:** B7 / 28 x 2.5 x 27 x 40.

BEBEDERO / SPRUE BUSH

B8

Material: DIN 1.7242

Dureza: 56 - 58 HRc



| D | a | d ₂ | d ₁ | L | | | | | | | |
|----|----|----------------|----------------|----|----|----|----|----|----|----|-----|
| | | | | 22 | 27 | 36 | 46 | 56 | 76 | 96 | 116 |
| 28 | 13 | 12 | 2.5 | | | | | | | | |
| | | | 3.5 | | | | | | | | |
| 38 | 18 | 18 | 3 | | | | | | | | |
| | | | 4 | | | | | | | | |

Forma de pedido: Bebedero B8 / D x d₁ x L- **Ejemplo:** B8 / 28 x 2.5 x 27.

Order: Sprue bush B8 / D x d₁ x L x R - **Example:** B8 / 28 x 2.5 x 27.

Auftragsform: Angußbuchse B8 / D x d₁ x L x R - **Beispiel:** B8 / 28 x 2.5 x 27.

Otras medidas, bajo demanda

B11 B11T

BEBEDERO / SPRUE BUSH

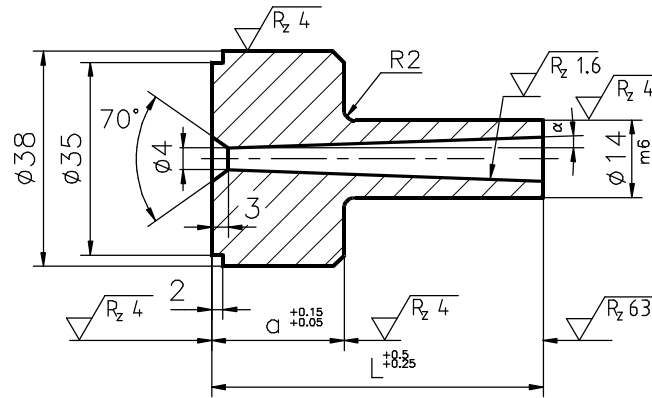
Material: DIN 1.7242

B11 = Sin templar
Non hardened
Ungehärtet

Dureza: 21 - 23 HRc

B11T = Templado
Hardened
Gehärtet

Dureza: 60 - 62 HRc



| a | L | | | | | | | |
|----|--------------------|----|----|----|----|----|--------------------|-----|
| | $\alpha = 2^\circ$ | | | | | | $\alpha = 1^\circ$ | |
| | 29 | 38 | 48 | 51 | 60 | 70 | 70 | 100 |
| 12 | | | | | | | | |
| 24 | | | | | | | | |

Forma de pedido: Bebedero B11 / a x L - Ejemplo: B11 / 12 x 70.

Order: Sprue bush B11 / a x L - Example: B11 / 12 x 70.

Auftragsform: Angußbuchse B11 / a x L - Beispiel: B11 / 12 x 70.

Otras medidas, bajo demanda

B31 B31T

BEBEDERO / SPRUE BUSH

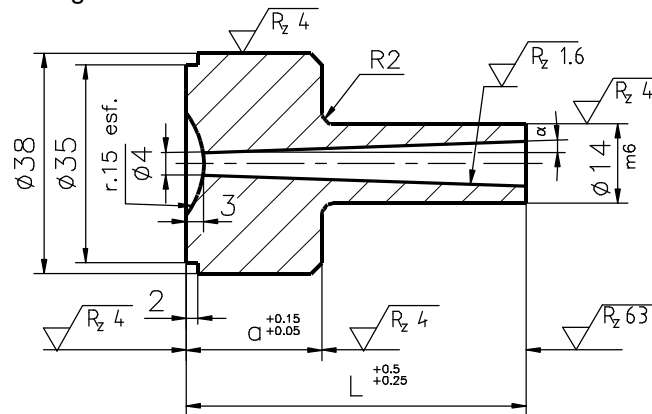
Material: DIN 1.7242

B11 = Sin templar
Non hardened
Ungehärtet

Dureza: 21 - 23 HRc

B11T = Templado
Hardened
Gehärtet

Dureza: 60 - 62 HRc



| a | L | | | | | | | |
|----|--------------------|----|----|----|----|----|--------------------|-----|
| | $\alpha = 2^\circ$ | | | | | | $\alpha = 1^\circ$ | |
| | 29 | 38 | 48 | 51 | 60 | 70 | 70 | 100 |
| 12 | | | | | | | | |
| 24 | | | | | | | | |

Forma de pedido: Bebedero B31 / a x L - Ejemplo: B31 / 72.5 x 15.

Order: Sprue bush B31 / a x L - Example: 31 / 72.5 x 15.

Auftragsform: Angußbuchse B31 / a x L - Beispiel: B31 / 72.5 x 15.

Otras medidas, bajo demanda

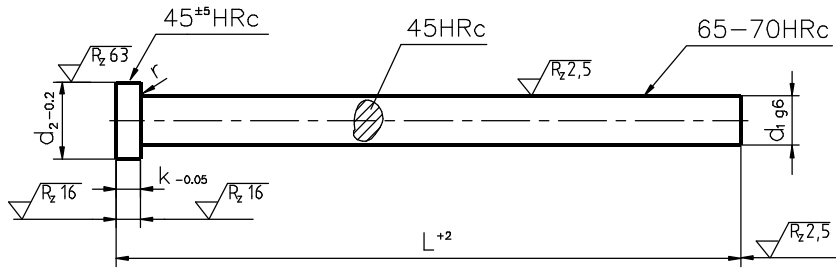
EXPULSORES

| | | <i>Pag.</i> |
|-----|---|-------------|
| A | Expulsor nitrurado / Nitrided ejector | 4/2 |
| AH | Expulsor c. cilíndrica / Ejector cyl. head | 4/3 |
| D | Expulsor cabeza cónica / Ejector pin w. conical head | 4/4 |
| EC | Expulsor mechado / Stepped ejector pin | 4/6 |
| CN | Expulsor mechado nitrurado / Nitrided stepped ejector pin | 4/7 |
| AL | Expulsor laminar / Flat ejector pin | 4/8 |
| ALN | Expulsor laminar nitrurado / Nitrided flat ejector pin | 4/9 |
| ETN | Expulsor tubular nitrurado / Nitrided ejector sleeve | 4/10 |

Cap

Material: DIN 1.2344

Norma: DIN 1530



Resistencia a la temperatura: 500 - 550 °C

| d ₁ | d ₂ | k | r | L | | | | | | | | | | | | | | |
|----------------|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|--|--|--|--|
| | | | | 100 | 125 | 160 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | | | | |
| 1,5 | 3 | 1,5 | 0,2 | | | | | | | | | | | | | | | |
| 2 | 4 | 2 | 0,2 | | | | | | | | | | | | | | | |
| 2,2 | 4 | 2 | 0,2 | | | | | | | | | | | | | | | |
| 2,5 | 5 | 2 | 0,3 | | | | | | | | | | | | | | | |
| 2,7 | 5 | 2 | 0,3 | | | | | | | | | | | | | | | |
| 3 | 6 | 3 | 0,3 | | | | | | | | | | | | | | | |
| 3,2 | 6 | 3 | 0,3 | | | | | | | | | | | | | | | |
| 3,5 | 7 | 3 | 0,3 | | | | | | | | | | | | | | | |
| 3,7 | 7 | 3 | 0,3 | | | | | | | | | | | | | | | |
| 4 | 8 | 3 | 0,3 | | | | | | | | | | | | | | | |
| 4,2 | 8 | 3 | 0,3 | | | | | | | | | | | | | | | |
| 4,5 | 8 | 3 | 0,3 | | | | | | | | | | | | | | | |
| 5 | 10 | 3 | 0,3 | | | | | | | | | | | | | | | |
| 5,2 | 10 | 3 | 0,3 | | | | | | | | | | | | | | | |
| 5,5 | 10 | 3 | 0,3 | | | | | | | | | | | | | | | |
| 6 | 12 | 5 | 0,5 | | | | | | | | | | | | | | | |
| 6,2 | 12 | 5 | 0,5 | | | | | | | | | | | | | | | |
| 6,5 | 12 | 5 | 0,5 | | | | | | | | | | | | | | | |
| 7 | 12 | 5 | 0,5 | | | | | | | | | | | | | | | |
| 8 | 14 | 5 | 0,5 | | | | | | | | | | | | | | | |
| 8,2 | 14 | 5 | 0,5 | | | | | | | | | | | | | | | |
| 8,5 | 14 | 5 | 0,5 | | | | | | | | | | | | | | | |
| 9 | 14 | 5 | 0,5 | | | | | | | | | | | | | | | |
| 10 | 16 | 5 | 0,5 | | | | | | | | | | | | | | | |
| 10,2 | 16 | 5 | 0,5 | | | | | | | | | | | | | | | |
| 10,5 | 16 | 5 | 0,5 | | | | | | | | | | | | | | | |
| 11 | 16 | 5 | 0,5 | | | | | | | | | | | | | | | |
| 12 | 20 | 7 | 0,8 | | | | | | | | | | | | | | | |
| 12,2 | 20 | 7 | 0,8 | | | | | | | | | | | | | | | |
| 12,5 | 20 | 7 | 0,8 | | | | | | | | | | | | | | | |
| 14 | 22 | 7 | 0,8 | | | | | | | | | | | | | | | |
| 16 | 22 | 7 | 0,8 | | | | | | | | | | | | | | | |
| 18 | 24 | 7 | 0,8 | | | | | | | | | | | | | | | |
| 20 | 26 | 8 | 1 | | | | | | | | | | | | | | | |
| 25 | 32 | 10 | 1 | | | | | | | | | | | | | | | |
| 32 | 40 | 10 | 1 | | | | | | | | | | | | | | | |

Forma de pedido: Expulsor A / d₁x L - **Ejemplo:** Expulsor A / 3 x 100.

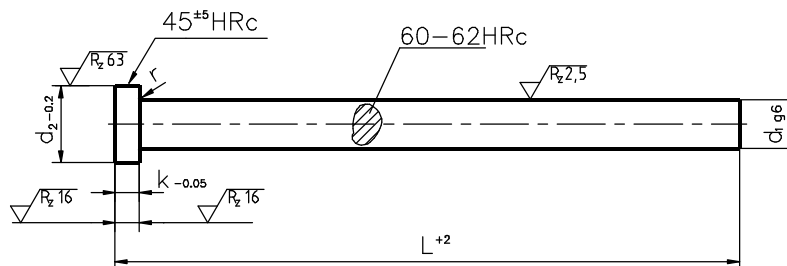
Order: Ejector A / d₁x L - **Example:** Ejector A / 3 x 100.

Auftragsform: Auswerfer A / d₁x L - **Beispiel:** Auswerfer A / 3 x 100.

Otras medidas, bajo demanda

Material: DIN 1.3505

Norma: DIN 1530



| d1 | d2 | k | r | L | | | | | | |
|------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | | 100 | 125 | 160 | 200 | 250 | 315 | 400 |
| 1,5 | 3 | 1,5 | 0,2 | | | | | | | |
| 1,6 | 3 | 1,5 | 0,2 | | | | | | | |
| 1,7 | 3 | 1,5 | 0,2 | | | | | | | |
| 1,8 | 3 | 1,5 | 0,2 | | | | | | | |
| 2 | 4 | 2 | 0,2 | | | | | | | |
| 2,2 | 4 | 2 | 0,2 | | | | | | | |
| 2,5 | 5 | 2 | 0,3 | | | | | | | |
| 2,7 | 5 | 2 | 0,3 | | | | | | | |
| 3 | 6 | 3 | 0,3 | | | | | | | |
| 3,2 | 6 | 3 | 0,3 | | | | | | | |
| 3,5 | 7 | 3 | 0,3 | | | | | | | |
| 3,7 | 7 | 3 | 0,3 | | | | | | | |
| 4 | 8 | 3 | 0,3 | | | | | | | |
| 4,2 | 8 | 3 | 0,3 | | | | | | | |
| 4,5 | 8 | 3 | 0,3 | | | | | | | |
| 4,7 | 8 | 3 | 0,3 | | | | | | | |
| 5 | 10 | 3 | 0,3 | | | | | | | |
| 5,2 | 10 | 3 | 0,3 | | | | | | | |
| 5,5 | 10 | 3 | 0,3 | | | | | | | |
| 6 | 12 | 5 | 0,5 | | | | | | | |
| 6,2 | 12 | 5 | 0,5 | | | | | | | |
| 6,5 | 12 | 5 | 0,5 | | | | | | | |
| 7 | 12 | 5 | 0,5 | | | | | | | |
| 8 | 14 | 5 | 0,5 | | | | | | | |
| 8,2 | 14 | 5 | 0,5 | | | | | | | |
| 8,5 | 14 | 5 | 0,5 | | | | | | | |
| 9 | 14 | 5 | 0,5 | | | | | | | |
| 10 | 16 | 5 | 0,5 | | | | | | | |
| 10,2 | 16 | 5 | 0,5 | | | | | | | |
| 10,5 | 16 | 5 | 0,5 | | | | | | | |
| 11 | 16 | 5 | 0,5 | | | | | | | |
| 12 | 20 | 7 | 0,8 | | | | | | | |
| 12,2 | 20 | 7 | 0,8 | | | | | | | |
| 12,5 | 20 | 7 | 0,8 | | | | | | | |
| 14 | 22 | 7 | 0,8 | | | | | | | |
| 16 | 22 | 7 | 0,8 | | | | | | | |
| 18 | 24 | 7 | 0,8 | | | | | | | |
| 20 | 26 | 8 | 1 | | | | | | | |

Forma de pedido: Expulsor AH / d1x L - Ejemplo: Expulsor AH / 3 x 100.

Order: Ejector AH / d1x L - Example: Ejector AH / 3 x 100.

Auftragsform: Auswerfer AH / d1x L - Beispiel: Auswerfer AH / 3 x 100.

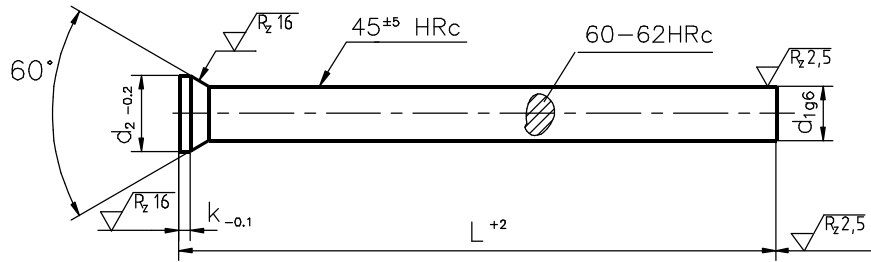
Otras medidas, bajo demanda

D

EXPULSOR CABEZA CONICA EJECTOR PIN W. CONICAL HEAD

Material: DIN 1.3505

Norma: DIN 1530



| d ₁ | d ₂ | k | L | | | | | |
|----------------|----------------|-----|-----|-----|-----|-----|-----|-----|
| | | | 100 | 125 | 160 | 200 | 250 | 315 |
| 1 | 1,8 | 0,5 | | | | | | |
| 1,1 | 1,8 | 0,5 | | | | | | |
| 1,2 | 2 | 0,5 | | | | | | |
| 1,25 | 2 | 0,5 | | | | | | |
| 1,3 | 2 | 0,5 | | | | | | |
| 1,4 | 2,2 | 0,5 | | | | | | |
| 1,5 | 2,2 | 0,5 | | | | | | |
| 1,6 | 2,5 | 0,5 | | | | | | |
| 1,7 | 2,5 | 0,5 | | | | | | |
| 1,75 | 2,8 | 0,5 | | | | | | |
| 1,8 | 2,8 | 0,5 | | | | | | |
| 1,9 | 2,8 | 0,5 | | | | | | |
| 2 | 3 | 0,5 | | | | | | |
| 2,1 | 3,2 | 0,5 | | | | | | |
| 2,2 | 3,2 | 0,5 | | | | | | |
| 2,25 | 3,5 | 0,5 | | | | | | |
| 2,3 | 3,5 | 0,5 | | | | | | |
| 2,4 | 3,5 | 0,5 | | | | | | |
| 2,5 | 3,5 | 0,5 | | | | | | |
| 2,6 | 4 | 0,5 | | | | | | |
| 2,7 | 4 | 0,5 | | | | | | |
| 2,75 | 4 | 0,5 | | | | | | |
| 2,8 | 4 | 0,5 | | | | | | |
| 2,9 | 4 | 0,5 | | | | | | |
| 3 | 4,5 | 0,5 | | | | | | |
| 3,1 | 4,5 | 0,5 | | | | | | |
| 3,2 | 4,5 | 0,5 | | | | | | |
| 3,25 | 4,5 | 0,5 | | | | | | |
| 3,3 | 4,5 | 0,5 | | | | | | |
| 3,4 | 4,5 | 0,5 | | | | | | |
| 3,5 | 5 | 0,5 | | | | | | |
| 3,6 | 5 | 0,5 | | | | | | |
| 3,7 | 5 | 0,5 | | | | | | |
| 3,75 | 5 | 0,5 | | | | | | |
| 3,8 | 5 | 0,5 | | | | | | |
| 3,9 | 5 | 0,5 | | | | | | |
| 4 | 5,5 | 0,5 | | | | | | |

Otras medidas, bajo demanda

Handwritten signature

EXPULSOR CABEZA CONICA EJECTOR PIN W. CONICAL HEAD

D

Material: DIN 1.3505

Norma: DIN 1530

| d ₁ | d ₂ | k | L | | | | | |
|----------------|----------------|-----|-----|-----|-----|-----|-----|-----|
| | | | 100 | 125 | 160 | 200 | 250 | 315 |
| 4,1 | 5,5 | 0,5 | | | | | | |
| 4,2 | 5,5 | 0,5 | | | | | | |
| 4,25 | 5,5 | 0,5 | | | | | | |
| 4,4 | 5,5 | 0,5 | | | | | | |
| 4,5 | 6 | 0,5 | | | | | | |
| 4,6 | 6 | 0,5 | | | | | | |
| 4,75 | 6 | 0,5 | | | | | | |
| 5 | 6,5 | 0,5 | | | | | | |
| 5,1 | 6,5 | 0,5 | | | | | | |
| 5,2 | 6,5 | 0,5 | | | | | | |
| 5,25 | 6,5 | 0,5 | | | | | | |
| 5,3 | 6,5 | 0,5 | | | | | | |
| 5,4 | 6,5 | 0,5 | | | | | | |
| 5,5 | 7 | 0,5 | | | | | | |
| 5,6 | 7 | 0,5 | | | | | | |
| 5,75 | 7 | 0,5 | | | | | | |
| 6 | 8 | 0,5 | | | | | | |
| 6,5 | 9 | 1 | | | | | | |
| 7 | 9 | 1 | | | | | | |
| 7,5 | 10 | 1 | | | | | | |
| 8 | 10 | 1 | | | | | | |
| 8,5 | 11 | 1 | | | | | | |
| 9 | 11 | 1 | | | | | | |
| 10 | 12 | 1 | | | | | | |
| 12 | 14 | 1 | | | | | | |
| 14 | 16 | 1,5 | | | | | | |
| 16 | 18 | 1,5 | | | | | | |

Forma de pedido: Expulsor D / d₁x L - Ejemplo: Expulsor D / 3 x 100.

Order: Ejector D / d₁x L - Example: Ejector D / 3 x 100.

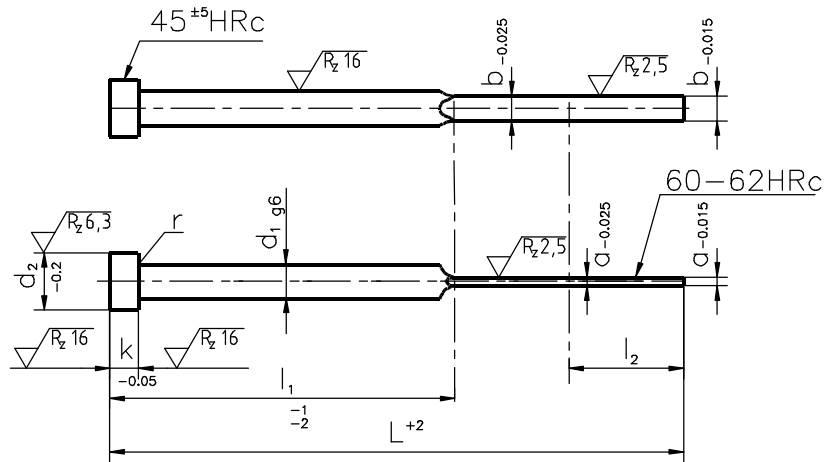
Auftragsform: Auswerfer D / d₁x L - Beispiel: Auswerfer D / 3 x 100.

Otras medidas, bajo demanda

Caj

Material: DIN 1.3505

Norma: DIN 1530



| d ₁ | L | a | b | l ₁ | l ₂ | d ₂ | k | r |
|----------------|-----|-----|-----|----------------|----------------|----------------|---|-----|
| 3 | 100 | 1 | 2 | 40 | 45 | 6 | 3 | 0,3 |
| 3 | 125 | 1 | 2 | 60 | 50 | 6 | 3 | 0,3 |
| 3 | 110 | 2 | 2 | 60 | 30 | 6 | 3 | 0,3 |
| 4 | 100 | 1,2 | 3,5 | 40 | 30 | 8 | 3 | 0,3 |
| 4 | 125 | 1,2 | 3,5 | 60 | 50 | 8 | 3 | 0,3 |
| 4 | 100 | 1 | 3,8 | 40 | 45 | 8 | 3 | 0,3 |
| 5 | 100 | 1,2 | 4,5 | 40 | 45 | 8 | 3 | 0,3 |
| 5 | 100 | 1,5 | 4,5 | 40 | 45 | 8 | 3 | 0,3 |
| 5 | 125 | 1,5 | 4,5 | 60 | 50 | 8 | 3 | 0,3 |
| 5 | 160 | 1,5 | 4,5 | 75 | 55 | 8 | 3 | 0,3 |
| 5 | 125 | 1,8 | 4,5 | 60 | 50 | 8 | 3 | 0,3 |
| 5 | 160 | 1,8 | 4,5 | 95 | 50 | 8 | 3 | 0,3 |
| 5 | 200 | 1,8 | 4,5 | 95 | 65 | 8 | 3 | 0,3 |
| 6 | 100 | 1,2 | 5,5 | 40 | 45 | 10 | 5 | 0,5 |
| 6 | 125 | 1,2 | 5,5 | 60 | 50 | 10 | 5 | 0,5 |
| 6 | 160 | 1,2 | 5,5 | 95 | 55 | 10 | 5 | 0,5 |
| 6 | 100 | 1,5 | 5,5 | 40 | 45 | 10 | 5 | 0,5 |
| 6 | 125 | 1,5 | 5,5 | 60 | 50 | 10 | 5 | 0,5 |
| 6 | 160 | 1,5 | 5,5 | 75 | 55 | 10 | 5 | 0,5 |
| 6 | 200 | 1,5 | 5,5 | 90 | 70 | 10 | 5 | 0,5 |
| 6 | 125 | 1,8 | 5,5 | 60 | 50 | 10 | 5 | 0,5 |
| 6 | 160 | 1,8 | 5,5 | 95 | 55 | 10 | 5 | 0,5 |
| 6 | 200 | 1,8 | 5,5 | 90 | 70 | 10 | 5 | 0,5 |

| d ₁ | L | a | b | l ₁ | l ₂ | d ₂ | k | r |
|----------------|-----|-----|-----|----------------|----------------|----------------|---|-----|
| 6 | 125 | 2 | 5,5 | 60 | 50 | 10 | 5 | 0,5 |
| 6 | 160 | 2 | 5,5 | 75 | 55 | 10 | 5 | 0,5 |
| 6 | 200 | 2 | 5,5 | 90 | 70 | 10 | 5 | 0,5 |
| 7 | 100 | 1,2 | 6 | 40 | 45 | 12 | 5 | 0,5 |
| 7 | 125 | 1,2 | 6 | 60 | 50 | 12 | 5 | 0,5 |
| 7 | 100 | 1,5 | 6 | 40 | 45 | 12 | 5 | 0,5 |
| 7 | 125 | 1,5 | 6 | 60 | 50 | 12 | 5 | 0,5 |
| 7 | 125 | 1,8 | 6 | 60 | 50 | 12 | 5 | 0,5 |
| 7 | 160 | 1,8 | 6 | 75 | 55 | 12 | 5 | 0,5 |
| 7 | 200 | 1,8 | 6 | 90 | 70 | 12 | 5 | 0,5 |
| 8 | 125 | 1,5 | 7,5 | 60 | 50 | 12 | 5 | 0,5 |
| 8 | 160 | 1,5 | 7,5 | 75 | 55 | 12 | 5 | 0,5 |
| 8 | 200 | 1,5 | 7,5 | 90 | 70 | 12 | 5 | 0,5 |
| 8 | 160 | 2 | 7,5 | 75 | 55 | 12 | 5 | 0,5 |
| 8 | 200 | 2 | 7,5 | 90 | 70 | 12 | 5 | 0,5 |
| 8 | 250 | 2 | 7,5 | 120 | 85 | 12 | 5 | 0,5 |
| 10 | 200 | 1,8 | 9,5 | 90 | 70 | 15 | 5 | 0,5 |
| 10 | 250 | 1,8 | 9,5 | 120 | 85 | 15 | 5 | 0,5 |
| 10 | 200 | 2 | 9,5 | 90 | 70 | 15 | 5 | 0,5 |
| 10 | 250 | 2 | 9,5 | 120 | 85 | 15 | 5 | 0,5 |
| 10 | 300 | 2 | 9,5 | 150 | 75 | 15 | 5 | 0,5 |

Forma de pedido: Expulsor AL / a x b x L - Ejemplo: Expulsor AL / 1.5 x 4.5 x 100.

Order: Ejector AL / a x b x L - Example: Ejector AL / 1.5 x 4.5 x 100.

Auftragsform: Auswerfer AL / a x b x L - Beispiel: Auswerfer AL / 1.5 x 4.5 x 100.

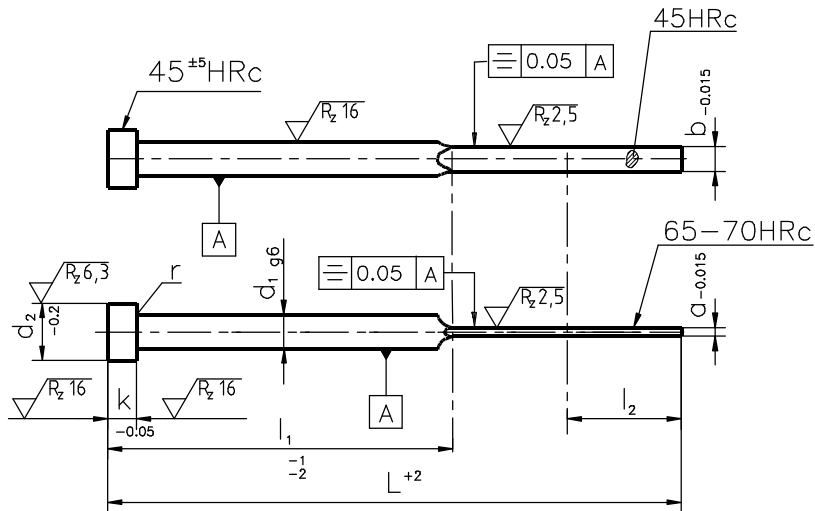
Otras medidas, bajo demanda

EXPULSOR LAMINAR NITRURADO NITRIDED FLAT EJECTOR PIN

ALN

Material: DIN 1.2344

Norma: DIN 1530



Resistencia a la temperatura: 500 - 550 °C

| d ₁ | L | a | b | l ₁ | l ₂ | d ₂ | k | r |
|----------------|-----|-----|-----|----------------|----------------|----------------|---|-----|
| 4 | 100 | 1,2 | 3,5 | 40 | 45 | 8 | 3 | 0,3 |
| 4 | 125 | 1,2 | 3,5 | 60 | 50 | 8 | 3 | 0,3 |
| 4 | 100 | 1 | 3,8 | 40 | 45 | 8 | 3 | 0,3 |
| 5 | 100 | 1,2 | 4,5 | 40 | 45 | 10 | 3 | 0,3 |
| 5 | 100 | 1,5 | 4,5 | 40 | 45 | 10 | 3 | 0,3 |
| 5 | 125 | 1,5 | 4,5 | 60 | 50 | 10 | 3 | 0,3 |
| 5 | 160 | 1,5 | 4,5 | 75 | 55 | 10 | 3 | 0,3 |
| 5 | 125 | 1,8 | 4,5 | 60 | 50 | 10 | 3 | 0,3 |
| 5 | 160 | 1,8 | 4,5 | 95 | 50 | 10 | 3 | 0,3 |
| 5 | 200 | 1,8 | 4,5 | 95 | 65 | 10 | 3 | 0,3 |
| 6 | 100 | 1,2 | 5,5 | 40 | 45 | 12 | 5 | 0,5 |
| 6 | 125 | 1,2 | 5,5 | 60 | 50 | 12 | 5 | 0,5 |
| 6 | 160 | 1,2 | 5,5 | 75 | 55 | 12 | 5 | 0,5 |
| 6 | 100 | 1,5 | 5,5 | 40 | 45 | 12 | 5 | 0,5 |
| 6 | 125 | 1,5 | 5,5 | 60 | 50 | 12 | 5 | 0,5 |
| 6 | 160 | 1,5 | 5,5 | 75 | 55 | 12 | 5 | 0,5 |
| 6 | 200 | 1,5 | 5,5 | 90 | 70 | 12 | 5 | 0,5 |
| 6 | 125 | 1,8 | 5,5 | 60 | 50 | 12 | 5 | 0,5 |
| 6 | 160 | 1,8 | 5,5 | 75 | 55 | 12 | 5 | 0,5 |
| 6 | 200 | 1,8 | 5,5 | 90 | 70 | 12 | 5 | 0,5 |
| 6 | 125 | 2 | 5,5 | 60 | 50 | 12 | 5 | 0,5 |
| 6 | 160 | 2 | 5,5 | 75 | 55 | 12 | 5 | 0,5 |
| 6 | 200 | 2 | 5,5 | 90 | 70 | 12 | 5 | 0,5 |
| 7 | 100 | 1,2 | 6 | 40 | 45 | 12 | 5 | 0,5 |
| 7 | 125 | 1,2 | 6 | 60 | 50 | 12 | 5 | 0,5 |
| 7 | 100 | 1,5 | 6 | 40 | 45 | 12 | 5 | 0,5 |
| 7 | 125 | 1,5 | 6 | 60 | 50 | 12 | 5 | 0,5 |
| 7 | 125 | 1,8 | 6 | 60 | 50 | 12 | 5 | 0,5 |
| 7 | 160 | 1,8 | 6 | 75 | 55 | 12 | 5 | 0,5 |
| 7 | 200 | 1,8 | 6 | 90 | 70 | 12 | 5 | 0,5 |
| 8 | 125 | 1,5 | 7,5 | 60 | 50 | 14 | 5 | 0,5 |
| 8 | 160 | 1,5 | 7,5 | 75 | 55 | 14 | 5 | 0,5 |

| d ₁ | L | a | b | l ₁ | l ₂ | d ₂ | k | r |
|----------------|-----|-----|-----|----------------|----------------|----------------|---|-----|
| 8 | 200 | 1,5 | 7,5 | 90 | 70 | 14 | 5 | 0,5 |
| 8 | 200 | 1,8 | 7,5 | 90 | 70 | 14 | 5 | 0,5 |
| 8 | 250 | 1,8 | 7,5 | 120 | 85 | 14 | 5 | 0,5 |
| 8 | 200 | 2 | 7,5 | 90 | 70 | 14 | 5 | 0,5 |
| 8 | 250 | 2 | 7,5 | 120 | 85 | 14 | 5 | 0,5 |
| 8 | 300 | 2 | 7,5 | 150 | 75 | 14 | 5 | 0,5 |
| 10 | 200 | 1,8 | 9,5 | 90 | 70 | 16 | 7 | 0,8 |
| 10 | 250 | 1,8 | 9,5 | 120 | 85 | 16 | 7 | 0,8 |
| 10 | 200 | 2 | 9,5 | 90 | 70 | 16 | 7 | 0,8 |
| 10 | 250 | 2 | 9,5 | 120 | 85 | 16 | 7 | 0,8 |
| 10 | 300 | 2 | 9,5 | 150 | 75 | 16 | 7 | 0,8 |
| 12 | 160 | 1,5 | 10 | 75 | 55 | 20 | 7 | 0,8 |
| 12 | 200 | 1,5 | 10 | 90 | 70 | 20 | 7 | 0,8 |
| 12 | 160 | 1,8 | 10 | 75 | 55 | 20 | 7 | 0,8 |
| 12 | 200 | 1,8 | 10 | 90 | 70 | 20 | 7 | 0,8 |
| 12 | 200 | 2 | 10 | 90 | 70 | 20 | 7 | 0,8 |
| 12 | 250 | 2 | 10 | 120 | 85 | 20 | 7 | 0,8 |
| 14 | 160 | 1,8 | 12 | 75 | 55 | 22 | 7 | 0,8 |
| 14 | 200 | 1,8 | 12 | 90 | 70 | 22 | 7 | 0,8 |
| 14 | 250 | 1,8 | 12 | 120 | 85 | 22 | 7 | 0,8 |
| 14 | 200 | 2 | 12 | 90 | 70 | 22 | 7 | 0,8 |
| 14 | 250 | 2 | 12 | 120 | 85 | 22 | 7 | 0,8 |
| 16 | 200 | 2 | 15 | 90 | 75 | 22 | 7 | 0,8 |
| 16 | 250 | 2 | 15 | 120 | 85 | 22 | 7 | 0,8 |
| 16 | 300 | 2 | 15 | 150 | 75 | 22 | 7 | 0,8 |
| 16 | 250 | 2,5 | 15 | 120 | 85 | 22 | 7 | 0,8 |
| 16 | 300 | 2,5 | 15 | 150 | 75 | 22 | 7 | 0,8 |
| 20 | 200 | 3 | 19 | 90 | 70 | 26 | 8 | 1 |
| 20 | 250 | 3 | 19 | 120 | 85 | 26 | 8 | 1 |
| 20 | 300 | 3 | 19 | 150 | 75 | 26 | 8 | 1 |
| 20 | 250 | 4 | 19 | 120 | 85 | 26 | 8 | 1 |
| 20 | 300 | 4 | 19 | 150 | 75 | 26 | 8 | 1 |

Forma de pedido: Expulsor ALN / a x b x L - Ejemplo: Expulsor ALN / 1.5 x 4.5 x 100.

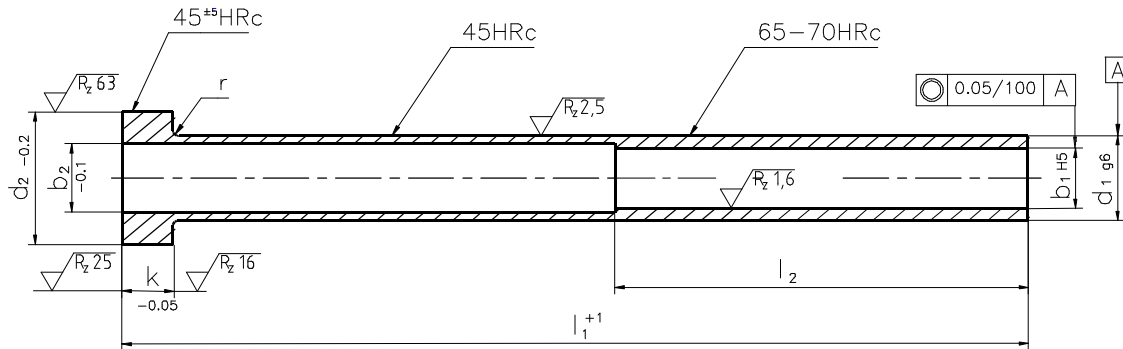
Order: Ejector ALN / a x b x L - Example: Ejector ALN / 1.5 x 4.5 x 100.

Auftragsform: Auswerfer ALN / a x b x L - Beispiel: Auswerfer ALN / 1.5 x 4.5 x 100.

Otras medidas, bajo demanda

Material: DIN 1.2344

Norma: DIN 1530



Resistencia a la temperatura: 500 - 550

| b ₁ | d ₁ | b ₂ | d ₂ | k | l ₂ | R | l ₁ | | | | | | | | | |
|----------------|----------------|----------------|----------------|---|----------------|-----|----------------|-----|-----|-----|-----|-----|-----|-----|--|--|
| | | | | | | | 75 | 100 | 125 | 150 | 175 | 200 | 225 | 250 | | |
| 2 | 4 | 2,4 | 8 | 3 | 35 | 0,3 | | | | | | | | | | |
| 2,2 | 4 | 2,4 | 8 | 3 | 35 | 0,3 | | | | | | | | | | |
| 2,5 | 5 | 3 | 10 | 3 | 35 | 0,3 | | | | | | | | | | |
| 2,7 | 5 | 3 | 10 | 3 | 40 | 0,3 | | | | | | | | | | |
| 3 | 5 | 3,3 | 10 | 3 | 40 | 0,3 | | | | | | | | | | |
| 3,2 | 5 | 3,5 | 10 | 3 | 40 | 0,3 | | | | | | | | | | |
| 3,5 | 6 | 3,8 | 12 | 5 | 40 | 0,5 | | | | | | | | | | |
| 3,7 | 6 | 4 | 12 | 5 | 40 | 0,5 | | | | | | | | | | |
| 4 | 6 | 4,3 | 12 | 5 | 45 | 0,5 | | | | | | | | | | |
| 4,2 | 8 | 4,8 | 14 | 5 | 45 | 0,5 | | | | | | | | | | |
| 4,5 | 8 | 4,8 | 14 | 5 | 45 | 0,5 | | | | | | | | | | |
| 5 | 8 | 5,3 | 14 | 5 | 45 | 0,5 | | | | | | | | | | |
| 5,2 | 8 | 5,5 | 14 | 5 | 45 | 0,5 | | | | | | | | | | |
| 5,5 | 9 | 5,8 | 16 | 5 | 45 | 0,5 | | | | | | | | | | |
| 6 | 10 | 6,3 | 16 | 5 | 45 | 0,5 | | | | | | | | | | |
| 6,2 | 10 | 6,5 | 16 | 5 | 45 | 0,5 | | | | | | | | | | |
| 8 | 12 | 8,3 | 20 | 7 | 45 | 0,8 | | | | | | | | | | |
| 8,2 | 12 | 8,5 | 20 | 7 | 45 | 0,8 | | | | | | | | | | |
| 10 | 14 | 10,3 | 22 | 7 | 50 | 0,8 | | | | | | | | | | |
| 12 | 16 | 12,5 | 22 | 7 | 50 | 0,8 | | | | | | | | | | |

Forma de pedido: Expulsor tubular ETN / b₁ x l₁ - Ejemplo: Expulsor tubular ETN / 6 x 100.

Order: Tubular Ejector ETN / b₁ x l₁ - Example: Tubular Ejector ETN / 6 x 100.

Auftragsform: Auswerferhülsen ETN / b₁ x l₁ - Beispiel: Auswerferhülsen ETN / 6 x 100.

Otras medidas, bajo demanda

Handwritten signature

REFRIGERACION

Pag.

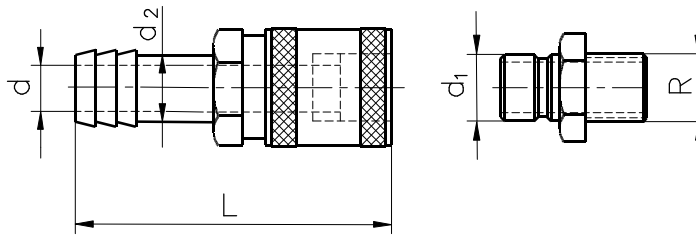
| | | |
|-----|--|-----|
| ER | Enchufe rápido / Quick release coupling | 5/2 |
| ERA | Enchufe rápido acodado / Angle quick release coupling | 5/2 |
| ERV | Enchufe rápido con válvula / Quick release coupling w. valve | 5/3 |
| EAV | Enchufe rápido con válvula acodado / Angle quick release coupling w. valve | 5/3 |
| BRM | Boquilla refrigeración / Water connector | 5/4 |
| BRH | Boquilla refrigeración / Water connector | 5/4 |
| AEM | Adaptador para enchufe rápido / Quick connection nozzle | 5/5 |
| AEH | Adaptador para enchufe rápido / Quick connection nozzle | 5/5 |
| TR | Tubo roscado / Water pipe | 5/6 |
| TC | Tapón rosca cónica / Preassure plug | 5/6 |
| JT | Junta tórica / O-ring | 5/7 |
| JER | Junta para enchufe rápido / Seal for quick-release coupling | 5/7 |

Cap

ER

ENCHUFE RAPIDO / QUICK RELEASE COUPLING

Material: Latón, Brass, Messing



| d | Medidas del adaptador | | | L |
|---|-----------------------|-----------------|-------|----|
| | d_1 | R | d_2 | |
| 6 | 9 | 1/8" y 1/4" Gas | 9 | 57 |
| 8 | 13 | 1/4" y 3/8" Gas | 11 | 72 |

Forma de pedido: Enchufe rápido ER / d - **Ejemplo:** ER / 6.

Order: Quick - Release coupling ER / d - **Example:** ER / 6.

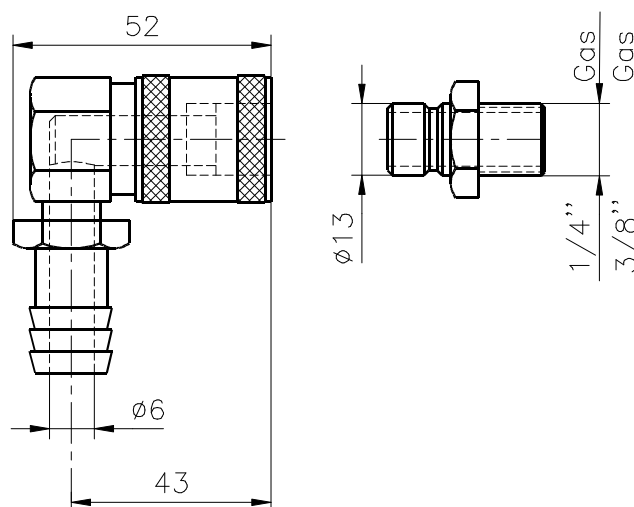
Auftragsform: Schnellkupplung ER / d - **Beispiel:** ER / 6.

Otras medidas, bajo demanda

ERA

ENCHUFE RAPIDO ACODADO ANGLE QUICK RELEASE COUPLING

Material: Latón, Brass, Messing



Forma de pedido: Enchufe rápido acodado ERA.

Order: Angled quick - Release coupling ERA.

Auftragsform: Schnellkupplung 90° ERA.

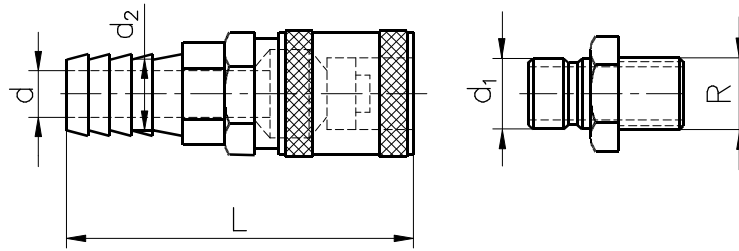
Otras medidas, bajo demanda

Logo

ENCHUFE RAPIDO CON VALVULA ACODADO QUICK RELEASE COUPLING W. VALVE

ERV

Material: Latón, Brass, Messing



| d | Medidas del adaptador | | d ₂ | L |
|---|-----------------------|-----------------|----------------|----|
| | d ₁ | R | | |
| 6 | 9 | 1/8" y 1/4" Gas | 9 | 70 |
| 8 | 13 | 1/4" y 3/8" Gas | 11 | 85 |

Forma de pedido: Enchufe rápido con válvula ERV / d - Ejemplo: ERV / 6.

Order: Quick - Release coupling with check valve ERV / d - Example: ERV / 6.

Auftragsform: Schnellverschlußkupplung ERV / d - Beispiel: ERV / 6.

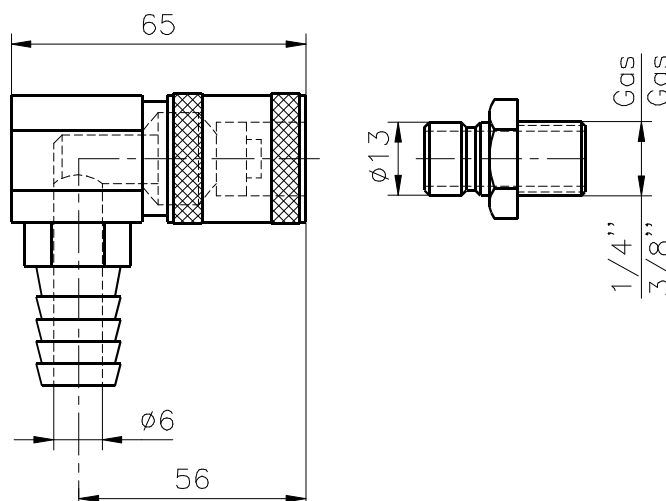
Otras medidas, bajo demanda

Cap

ENCHUFE RAPIDO CON VALVULA ANGLE QUICK RELEASE COUPLING V. VALVE

EAV

Material: Latón, Brass, Messing



Forma de pedido: Enchufe rápido con válvula acodado EAV.

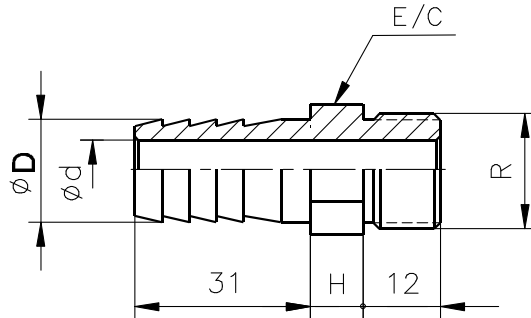
Order: Quick - Release coupling with angled check valve EAV.

Auftragsform: Schnellverschlußkupplung 90° EAV.

Otras medidas, bajo demanda

BRM BOQUILLA REFRIGERACION / WATER CONNECTOR

Material: Hierro pavonado o Latón
 Steel with preservative point or Brass
 Angestrichter Eisen oder Messing



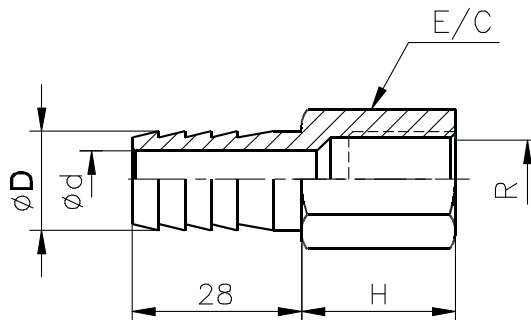
| R | D | d | E/C | H |
|----------|----|---|-----|----|
| 1/8" Gas | 13 | 6 | 14 | 7 |
| 1/4" Gas | 13 | 7 | 14 | 7 |
| 3/8" Gas | 13 | 7 | 17 | 10 |
| 3/8" Gas | 15 | 9 | 17 | 10 |

Forma de pedido: Boquilla refrigeración BRM / R / Mat. - Ejemplo: BRM / 1/8" / Latón.
 Order: Water connector BRM / R / Mat. - Example: BRM / 1/8" / Bras.
 Auftragsform: Schlauchtülle BRM / R / Mat. - Beispiel: BRM / 1/8" / Messing.

Otras medidas, bajo demanda

BRH BOQUILLA REFRIGERACION / WATER CONNECTOR

Material : Latón, Brass, Messing



| R | d | D | E/C | H |
|----------|----|----|-----|----|
| 1/8" Gas | 7 | 13 | 14 | 15 |
| 1/4" Gas | 7 | 13 | 16 | 15 |
| 3/8" Gas | 7 | 13 | 20 | 20 |
| 3/8" Gas | 10 | 15 | 20 | 20 |

Forma de pedido: Boquilla refrigeración BRH / R - Ejemplo: BRH / 1/8".
 Order: Water connector BRH / R - Example: BRH / 1/8".
 Auftragsform: Schlauchtülle BRH / R - Beispiel: BRH / 1/8".

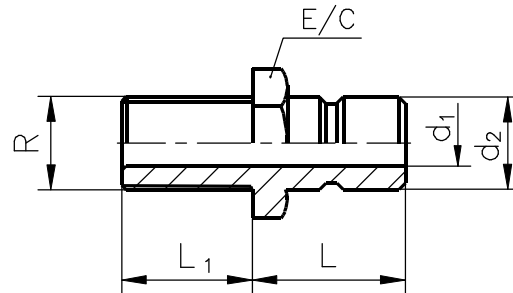
Otras medidas, bajo demanda

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ADAPTADOR PARA ENCHUFE RAPIDO QUICK CONNECTION NOZZLE

AEM

Material: Latón, Brass, Messing



| R | d ₁ | d ₂ | E/C | L | L ₁ |
|----------|----------------|----------------|-----|----|----------------|
| 1/8" Gas | 6 | 9 | 13 | 15 | 10 |
| 1/4" Gas | 6 | 9 | 13 | 15 | 10 |
| 1/4" Gas | 8 | 13 | 17 | 21 | 10 |
| 3/8" Gas | 8 | 13 | 17 | 21 | 10 |

Forma de pedido: Adaptador enchufe rápido AEM / R x d₁ - Ejemplo: AEM / 1/4" x 6.

Order: Quick connection nozzle AEM / R x d₁ - Example: AEM / 1/4" x 6.

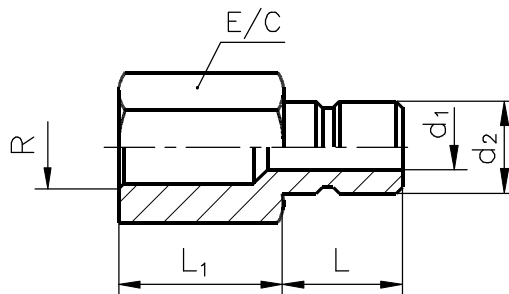
Auftragsform: Schnell - Anschluss Kühlungsdüse AEM / R x d₁ - Beispiel: AEM / 1/4" x 6.

Otras medidas, bajo demanda

ADAPTADOR PARA ENCHUFE RAPIDO QUICK CONNECTION NOZZLE

AEH

Material: Latón, Brass, Messing



| R | d ₁ | d ₂ | E/C | L | L ₁ |
|----------|----------------|----------------|-----|----|----------------|
| 1/8" Gas | 6 | 9 | 13 | 10 | 15 |
| 1/4" Gas | 6 | 9 | 17 | 10 | 15 |
| 1/4" Gas | 8 | 13 | 17 | 15 | 15 |
| 3/8" Gas | 8 | 13 | 17 | 15 | 15 |

Forma de pedido: Adaptador enchufe rápido AEH / R x d₁ - Ejemplo: AEH / 1/4" x 6.

Order: Quick connection nozzle AEH / R x d₁ - Example: AEH / 1/4" x 6.

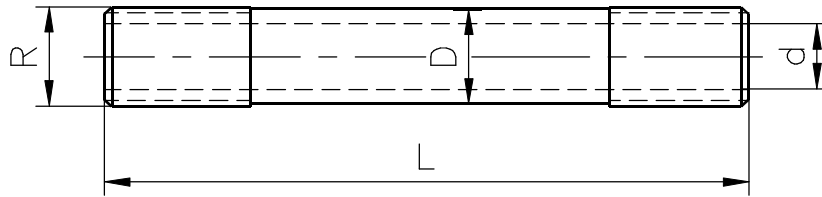
Auftragsform: Schnell - Anschluss Kühlungsdüse AEH / R x d₁ - Beispiel: AEH / 1/4" x 6.

Otras medidas, bajo demanda

TR

TUBO ROSCADO / WATER PIPE

Material: Hierro, Steel, Eissen.



| R | d | D | L | | | | | | |
|----------|----|----|----|----|-----|-----|-----|-----|-----|
| | | | 50 | 75 | 100 | 150 | 200 | 250 | 300 |
| 1/8" Gas | 7 | 10 | | | | | | | |
| 1/4" Gas | 9 | 13 | | | | | | | |
| 3/8" Gas | 12 | 16 | | | | | | | |

Forma de pedido: Tubo roscado TR / R x L - Ejemplo: TR / 1/4" x 200.

Order: Water pipe TR / R x L - Example: TR / 1/4" x 200.

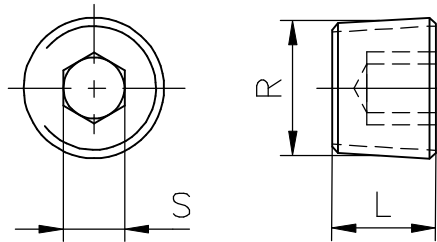
Auftragsform: Kühlrohr TR / R x L - Beispiel: TR / 1/4" x 200.

Otras medidas, bajo demanda

TC

TAPON ROSCA CONICA / PREASSURE PLUG

Material: Latón, Brass, Messing



| R | S | L |
|----------|----|----|
| 1/8" Gas | 5 | 8 |
| 1/4" Gas | 6 | 10 |
| 3/8" Gas | 10 | 12 |
| 1/2" Gas | 10 | 12 |

Forma de pedido: Tapón TC / R - Ejemplo: TC / 1/4".

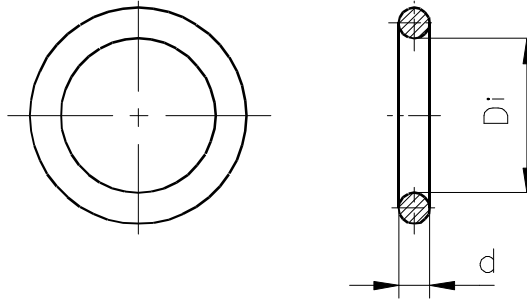
Order: Preassure plug TC / R - Example: TC / 1/4".

Auftragsform: Versclußschraube konisch TC / R - Beispiel: TC / 1/4".

Otras medidas, bajo demanda

Handwritten signature

Material: Caucho sintético, vitón



| Di | d | Di | d | Di | d | Di | d | Di | d |
|----|-----|----|-----|----|-----|----|-----|-----|-----|
| 6 | 2 | 16 | 1,5 | 30 | 3,5 | 50 | 5 | 100 | 2,5 |
| 6 | 2,5 | 16 | 2 | 30 | 4 | 52 | 2,5 | 100 | 6 |
| 8 | 2 | 17 | 3 | 32 | 3,5 | 59 | 3 | 105 | 4 |
| 10 | 2,5 | 18 | 2 | 35 | 3 | 60 | 3 | 120 | 2,5 |
| 10 | 3 | 20 | 2,5 | 38 | 3,5 | 60 | 4 | 130 | 6 |
| 12 | 1,8 | 20 | 3 | 40 | 3,6 | 70 | 3,5 | 140 | 6 |
| 12 | 2 | 20 | 4 | 40 | 4 | 70 | 5 | 150 | 3 |
| 12 | 3 | 22 | 3 | 43 | 3,5 | 80 | 3 | 150 | 4 |
| 13 | 3,5 | 26 | 3 | 45 | 5 | 80 | 4 | 184 | 6 |
| 14 | 2 | 27 | 3 | 48 | 6 | 85 | 6 | 185 | 3 |
| 14 | 3 | 30 | 3 | 50 | 3 | 90 | 4 | 210 | 5 |

Forma de pedido: Junta tórica JT / Di x d x Material - Ejemplo: JT / 20 x 2,5 Viton.

Order: O-ring JT / Di x dx Material - Example: JT / 20 x 2,5 Viton.

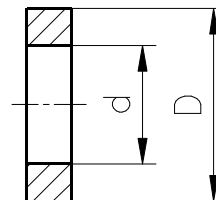
Auftragsform: O-ringe JT / Di x d x Material - Beispiel: JT / 20 x 2,5 Viton.

Otras medidas, bajo demanda

JUNTA PARA ENCHUFE RAPIDO
SEAL FOR QUICK - RELEASE COUPLING

Material: Silicona

| d | D |
|---|----|
| 6 | 9 |
| 9 | 13 |



Forma de pedido: Junta JER / d - Ejemplo: JER / 6.

Order: Seal for quick - Release coupling JER / d - Example: JER / 6.

Auftragsform: Dichtung für Schnellkupplung JER / d - Beispiel: JER / 6.

Otras medidas, bajo demanda

ESCARIADORES Y FRESAS

Pag.

| | | |
|-----|--|-----|
| ESC | Escariador helicoidal para entrada material / Helical mandrel | 6/2 |
| EMC | Escariador media caña para entrada material / Mandrel half round | 6/2 |
| FD | Fresa dentada / Drill for injection nozzle | 6/3 |
| FC | Fresa media caña / Drill for injection nozzle, half round | 6/3 |
| FA | Fresa para alojamientos / Drill for shoulder pin | 6/4 |
| EP | Escariador de alta precisión / Reamer | 6/5 |
| EG | Escariador para máquina «Gammon» / Reamer for «Gammon» machine | 6/6 |
| EM | Escariador para máquina Din 208 / Reamer for Din 208 machine | 6/7 |

MUELAS

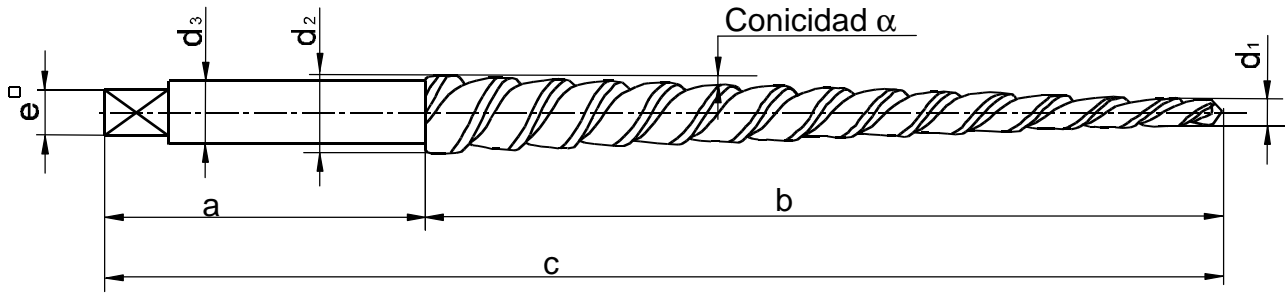
| | | |
|-------|--|------|
| MPL | Muela plana / Flat millstone | 6/8 |
| MCR | Muela tipo copa recta / Millstone type straight cup | 6/8 |
| MCC | Muela tipo copa cónica / Millstone type conical cup | 6/8 |
| MPT | Muela tipo platillo / Millstone type dish | 6/8 |
| MA MB | Muelas montadas sobre eje / Millstone mounted on shaft | 6/9 |
| W | Muelas montadas sobre eje / Millstone mounted on shaft | 6/10 |

LIMAS

| | | |
|-----|---|------|
| LD | Limatones de diamante / Diamond limes | 6/10 |
| LDA | Limatones de diamante / Diamond limes | 6/11 |
| LG | Codillos para grabar y cincelar / Riffler files | 6/11 |
| LR | Limatones con mango redondo / Needle files | 6/13 |
| LI | Limas suavizadoras / Polishing stones and limes | 6/14 |

ESC

ESCARIADOR HELICOIDAL PARA ENTRADA MATERIAL HELICAL MANDREL



| a | b | c | d ₁ | d ₂ | d ₃ | e | α |
|----|-----|-----|----------------|----------------|----------------|-------|----|
| 40 | 100 | 140 | 3 | 10.0 | 8 | 6.50 | 2° |
| 40 | 150 | 190 | 5 | 15.5 | 13 | 10.00 | 2° |
| 40 | 120 | 160 | 3 | 7.0 | 6 | 5.00 | 1° |
| 40 | 206 | 246 | 5 | 12.0 | 12 | 9.00 | 1° |

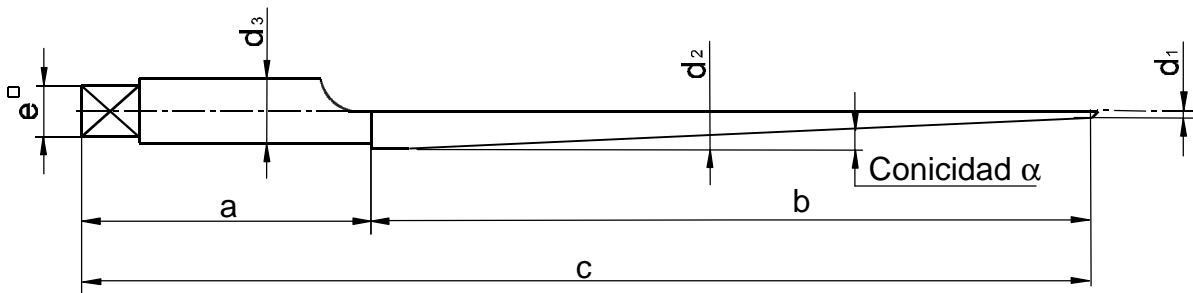
Forma de pedido: Escariador ESC / d₁ x d₂ - **Ejemplo:** ESC / 3 x 10.

Order: Helical mandrel ESC / d₁ x d₂ - **Example:** ESC / 3 x 10.

Auftragsform: Reibahle, schräggezahnt ESC / d₁ x d₂ - **Beispiel:** ESC / 3 x 10.

EMC

ESCARIADOR MEDIA CAÑA PARA ENTRADA MATERIAL MANDREL HALF ROUND



| a | b | c | d ₁ | d ₂ | d ₃ | e | α |
|----|-----|-----|----------------|----------------|----------------|-------|----|
| 40 | 100 | 140 | 3 | 10.0 | 8 | 6.50 | 2° |
| 40 | 150 | 190 | 5 | 15.5 | 13 | 10.00 | 2° |
| 40 | 120 | 160 | 3 | 7.0 | 6 | 5.00 | 1° |
| 40 | 200 | 240 | 5 | 12.0 | 12 | 9.00 | 1° |

Forma de pedido: Escariador EMC / d₁ x d₂ - **Ejemplo:** EMC / 3 x 10.

Order: Mandrel half round EMC / d₁ x d₂ - **Example:** EMC / 3 x 10.

Auftragsform: Reibahle, halbrund EMC / d₁ x d₂ - **Beispiel:** EMC / 3 x 10.

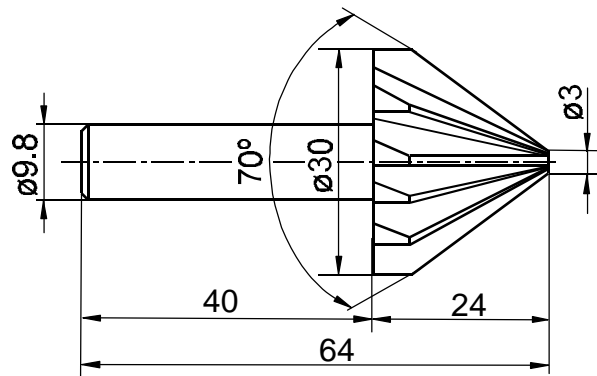
Otras medidas, bajo demanda

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FRESA DENTADA PARA ASIENTO TETILLA INYECCIÓN DRILL FOR INJECTION NOZZLE, TOOTHED

FD

Material: Acero rápido R3. Quick steel. Schnellstahl.



Forma de pedido: Fresa dentada para asiento, tetilla de inyección, tipo FD.

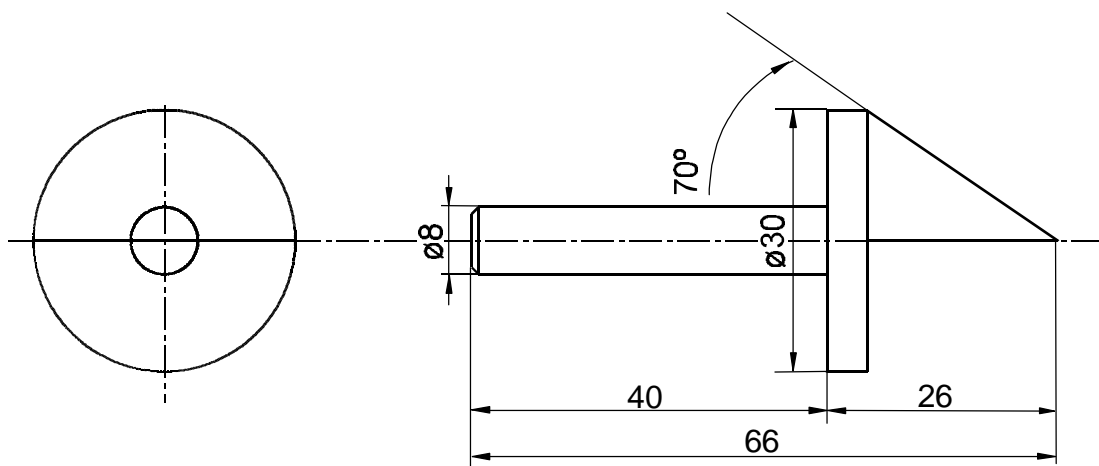
Order: Drill for injection nozzle, toothed, type FD.

Auftragsform: Fräse gezahnt, für einspritzdüse, type FD.

FRESA MEDIA CAÑA PARA ASIENTO TETILLA INYECCIÓN DRILL FOR INJECTION NOZZLE, HALF ROUND

FC

Material: Acero rápido R3. Quick steel. Schnellstahl.



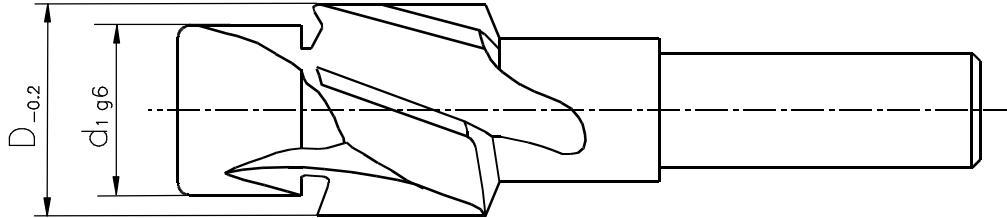
Forma de pedido: Fresa media caña para asiento, tetilla de inyección, tipo FC.

Order: Drill for injection nozzle, half round, type FC.

Auftragsform: Fräse für einspritzdüse, halbrund, type FC.

FA FRESA PARA ALOJAMIENTOS CABEZAS, EXPULSORES Y GUÍAS DRILL FOR SHOULDER PIN AND EJECTORS

Material: Acero rápido R3. Quick steel. Schnellstahl.



| d | D | d | D |
|-----|------|------|------|
| 1,5 | 3,2 | 8,0 | 14,5 |
| 2,0 | 4,3 | 10,0 | 12,5 |
| 2,5 | 5,3 | 10,0 | 15,5 |
| 3,0 | 6,3 | 10,0 | 16,5 |
| 3,5 | 6,3 | 12,0 | 15,5 |
| 3,5 | 7,3 | 12,0 | 17,5 |
| 4,0 | 8,3 | 12,0 | 20,5 |
| 4,5 | 8,3 | 14,0 | 17,5 |
| 5,0 | 8,3 | 14,0 | 20,5 |
| 5,0 | 10,5 | 14,0 | 22,5 |
| 5,5 | 8,3 | 16,0 | 19,5 |
| 5,5 | 10,5 | 16,0 | 20,5 |
| 6,0 | 10,5 | 16,0 | 22,5 |
| 6,0 | 12,5 | 18,0 | 22,5 |
| 6,5 | 10,5 | 20,0 | 24,5 |
| 6,5 | 12,5 | 20,0 | 26,5 |
| 7,0 | 12,5 | 25,0 | 30,5 |
| 7,5 | 12,5 | 25,0 | 32,5 |
| 7,5 | 14,5 | 30,0 | 35,5 |
| 8,0 | 12,5 | 40,0 | 45,5 |

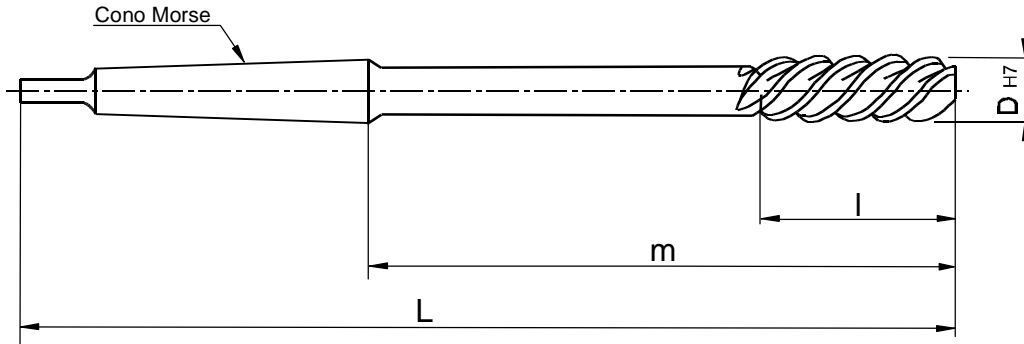
Forma de pedido: Fresa FA / d x D - **Ejemplo:** FA / 3 x 6,3 .

Order : Drill FA / d x D - **Example:** FA / 3 x 6,3.

Auftragsform: Fräse FA / d x D - **Beispiel :** FA / 3 x 6,3.

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Material: Acero rápido R3. Quick steel. Schnellstahl.



Corte a derecha - Hélice a izquierda 45° a 50°.
Dentado regular - Tallado Gammon.

| D | l | L | m | Cono Morse nº. |
|----|----|-----|-------|----------------|
| 8 | 33 | 156 | 90,5 | 1 |
| 9 | 36 | 162 | 96,5 | 1 |
| 10 | 38 | 168 | 102,5 | 1 |
| 11 | 41 | 175 | 109,5 | 1 |
| 12 | 44 | 182 | 116,5 | 1 |
| 13 | 44 | 182 | 116,5 | 1 |
| 14 | 47 | 189 | 123,5 | 1 |
| 15 | 50 | 204 | 124 | 2 |
| 16 | 52 | 210 | 130 | 2 |
| 17 | 54 | 214 | 134 | 2 |
| 18 | 56 | 219 | 139 | 2 |
| 19 | 58 | 223 | 143 | 2 |
| 20 | 60 | 228 | 148 | 2 |
| 21 | 62 | 232 | 152 | 2 |
| 22 | 64 | 237 | 157 | 2 |
| 23 | 66 | 241 | 161 | 2 |
| 24 | 68 | 268 | 169 | 3 |
| 25 | 68 | 268 | 169 | 3 |
| 26 | 70 | 273 | 174 | 3 |
| 27 | 71 | 277 | 178 | 3 |
| 28 | 71 | 277 | 178 | 3 |
| 29 | 73 | 281 | 182 | 3 |
| 30 | 73 | 281 | 182 | 3 |
| 31 | 75 | 285 | 186 | 3 |
| 32 | 77 | 317 | 193 | 4 |
| 33 | 77 | 317 | 193 | 4 |
| 34 | 78 | 321 | 197 | 4 |
| 35 | 78 | 321 | 197 | 4 |

Forma de pedido: Escariador EG / D - Ejemplo: EG / 10.

Order: Reamer EG / D - Example: EG / 10.

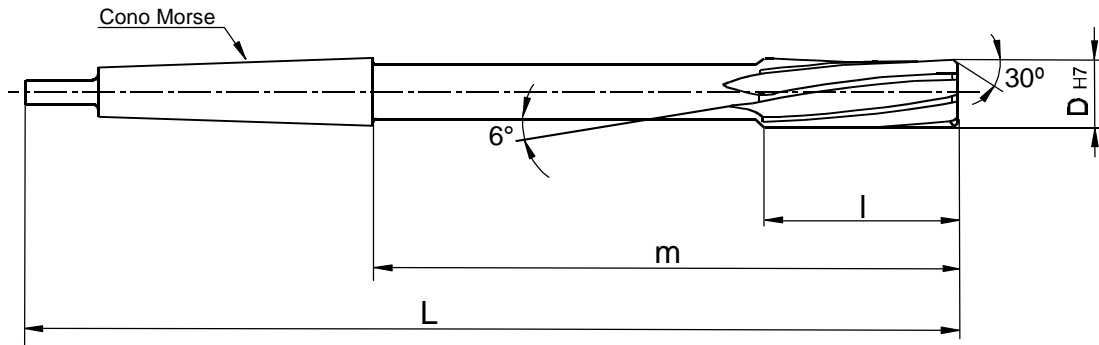
Auftragsform: Reibahle EG / D - Beispiel: EG / 10.

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ESCARIADOR PARA MÁQUINA DIN 208 REAMER FOR DIN 208 MACHINE

EM

Material: Acero rápido R3. Quick steel. Schnellstahl.



Corte a derecha - Hélice a izquierda 8°
Dentado irregular

| D | l | L | m | Cono Morse n.º. | D | l | L | m | Cono Morse n.º. |
|----|----|-----|-------|-----------------|----|----|-----|-----|-----------------|
| 4 | 19 | 138 | 72,5 | 1 | 26 | 70 | 273 | 174 | 3 |
| 5 | 23 | 138 | 72,5 | 1 | 27 | 71 | 277 | 178 | 3 |
| 6 | 26 | 138 | 72,5 | 1 | 28 | 71 | 277 | 178 | 3 |
| 7 | 31 | 150 | 84,5 | 1 | 29 | 73 | 281 | 182 | 3 |
| 8 | 33 | 156 | 90,5 | 1 | 30 | 73 | 281 | 182 | 3 |
| 9 | 36 | 162 | 96,5 | 1 | 31 | 75 | 285 | 186 | 3 |
| 10 | 38 | 168 | 102,5 | 1 | 32 | 77 | 317 | 193 | 4 |
| 11 | 41 | 175 | 109,5 | 1 | 33 | 77 | 317 | 193 | 4 |
| 12 | 44 | 182 | 116,5 | 1 | 34 | 78 | 321 | 197 | 4 |
| 13 | 44 | 182 | 116,5 | 1 | 35 | 78 | 321 | 197 | 4 |
| 14 | 47 | 189 | 123,5 | 1 | 36 | 79 | 325 | 201 | 4 |
| 15 | 50 | 204 | 124 | 2 | 38 | 81 | 329 | 205 | 4 |
| 16 | 52 | 210 | 130 | 2 | 40 | 81 | 329 | 205 | 4 |
| 17 | 54 | 214 | 134 | 2 | 42 | 82 | 333 | 209 | 4 |
| 18 | 56 | 219 | 139 | 2 | 44 | 83 | 336 | 212 | 4 |
| 19 | 58 | 223 | 143 | 2 | 45 | 83 | 336 | 212 | 4 |
| 20 | 60 | 228 | 148 | 2 | 46 | 84 | 340 | 216 | 4 |
| 21 | 62 | 232 | 152 | 2 | 48 | 86 | 344 | 220 | 4 |
| 22 | 64 | 237 | 157 | 2 | 50 | 86 | 344 | 220 | 4 |
| 23 | 66 | 241 | 161 | 2 | | | | | |
| 24 | 68 | 268 | 196 | 3 | | | | | |
| 25 | 68 | 268 | 169 | 3 | | | | | |

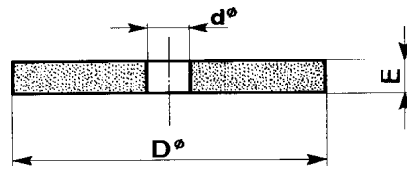
Forma de pedido: Escariador EM / D - Ejemplo: EM / 10.

Order: Reamer EM / D - Example: EM / 10.

Auftragsform: Reibahle EM / D - Beispiel: EM / 10.

MPL

MUELA PLANA / FLAT MILLSTONE



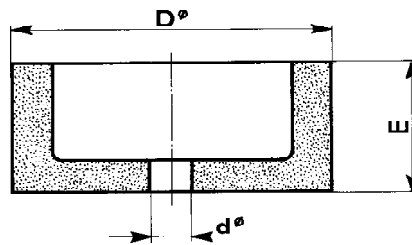
Forma de pedido: MPL / D x d x E

Order: MPL / D x d x E

Auftragsform: MPL / D x d x E

MCR

MUELA TIPO COPA RECTA MILLSTONE TYPE STRAIGHT CUP



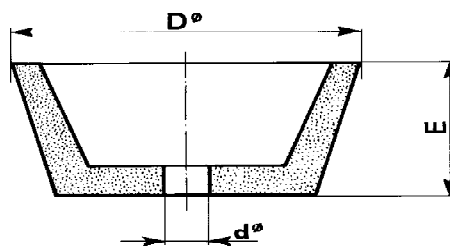
Forma de pedido: MCR / D x d x E

Order: MCR / D x d x E

Auftragsform: MCR / D x d x E

MCC

MUELA TIPO COPA CONICA MILLSTONE TYPE CONICAL CUP



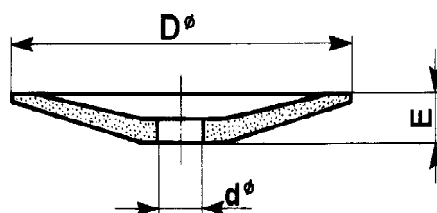
Forma de pedido: MCC / D x d x E

Order: MCC / D x d x E

Auftragsform: MCC / D x d x E

MPT

MUELA TIPO PLATILLO / MILLSTONE TYPE DISH



Forma de pedido: MPT / D x d x E

Order: MPT / D x d x E

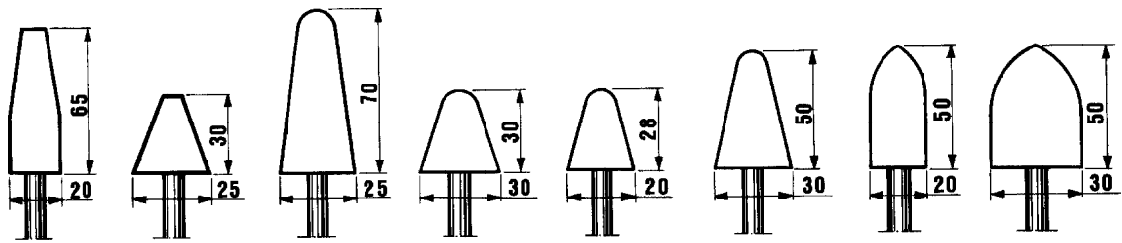
Auftragsform: MPT / D x d x E

AL FORMULAR EL PEDIDO ES INDISPENSABLE INDICAR SU UTILIZACION

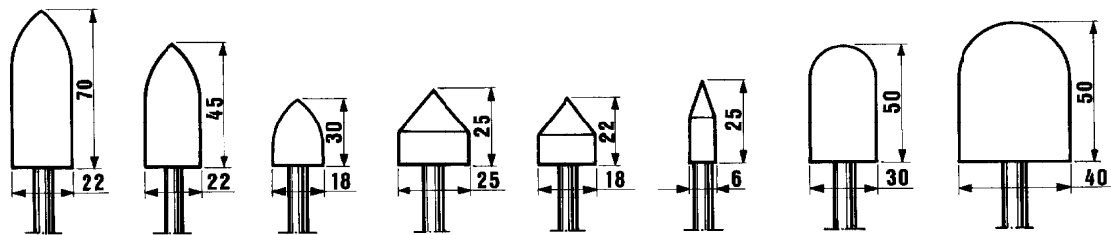
MUELAS MONTADAS SOBRE EJE MILLESTONES MOUNTED ON SHAFT

MA MB

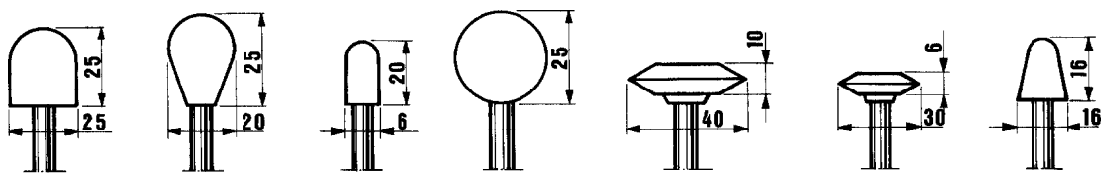
Tipo MA eje Ø 6 mm. Tipo MB eje Ø 3 mm. Longitud ejes 40 mm.



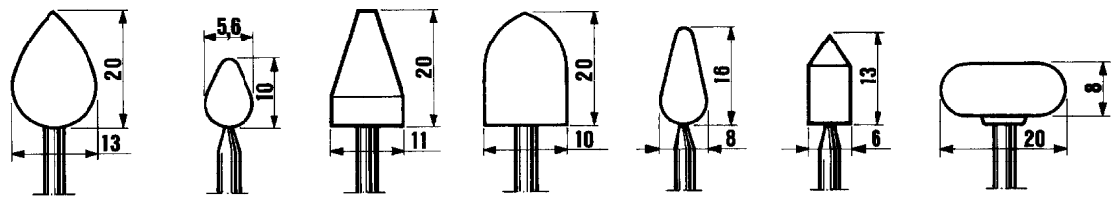
MA 1 MA 2 MA 3 MA 4 MA 5 MA 7 MA 8 MA 9



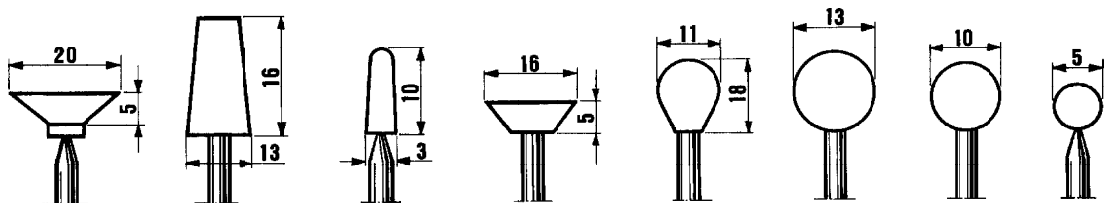
MA 10 MA 11 MA 12 MA 13 MA 14 MA 15 MA 19 MA 20



MA 21 MA 23 MA 24 MA 25 MA 36 MA 37 MB 41



MB 42 MB 44 MB 51 MB 52 MB 53 MB 54 MB 61



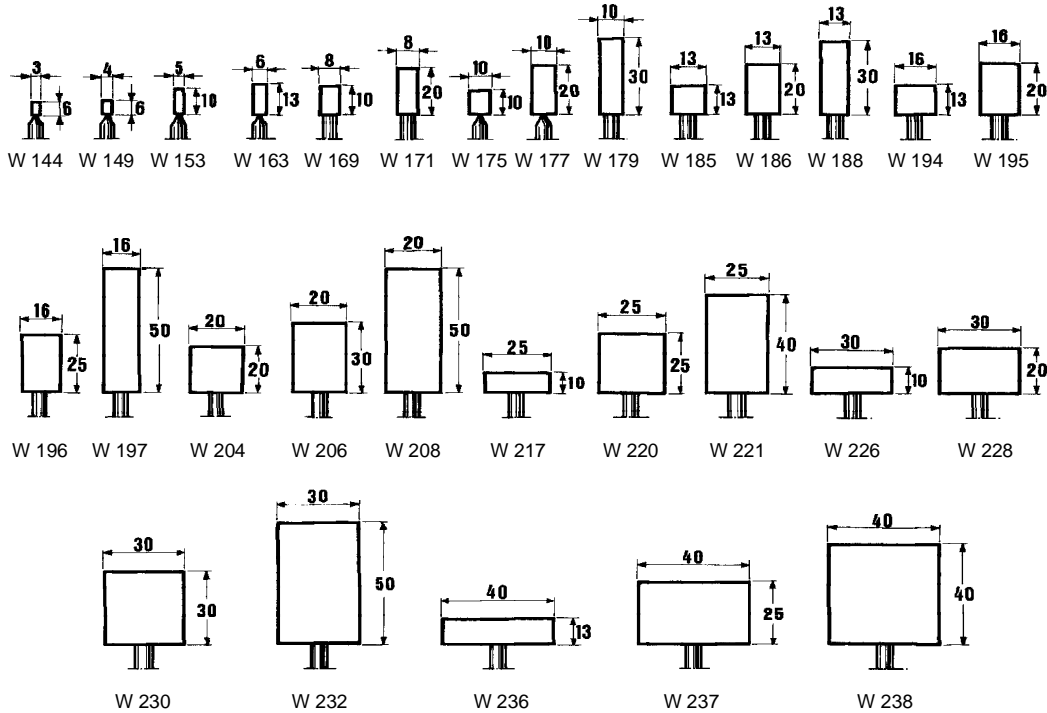
MB 81 MB 91 MB 97 MB 103 MB 111 MB 121 MB 122 MB 123

Logo

W

MUELAS MONTADAS SOBRE EJE MILLSTONES MOUNTED ON SHAFT

Eje Ø 3 mm. del tipo W 144 al W 186. Otras formas, eje Ø 6 mm., longitud 40 mm.



Forma de pedido: W/Ref. N° - Ejemplo: W / 175.

Order: W/Ref. N° - Example: W / 175.

Auftragsform: W/Ref. N° - Beispiel: W / 175.

LD

LIMATONES DE DIAMANTE / DIAMOND LIMES

Ejecución: Mango redondo Ø 3 mm.- Largo total 140 mm.- Longitud diamantada 70 mm.

| Perfil de la lima | Sección mm. | Ref. N.º | Perfil de la lima | Sección mm. | Ref. N.º | | |
|-------------------|----------------|----------|-------------------|-------------|---------------------------------|-------|-------|
| | plano romo | 5 x 1 | 2112 | | cuchillo | 5 x 1 | 2172 |
| | plano en punta | 5 x 2 | 2122 | | espada | 5 x 2 | 2182 |
| | triangular | 3 | 2132 | | lenticular | 5 x 2 | 2192 |
| | cuadrado | 3 | 2142 | | birrete | 5 x 2 | 2102t |
| | media caña | 5 x 2 | 2152 | | plano romo con cantos redon. | 5 x 1 | 2112r |
| | redondo | 3 | 2162 | | plano con punta y cantos redon. | 5 x 1 | 2122r |

Forma de pedido: LD/Ref. N° - Ejemplo: LD / 2152.

Order: LD/Ref. N° - Example: LD / 2152.

Auftragsform: LD/Ref. N° - Beispiel: LD / 2152.

Tamaño de grano D 126 (120 mesh)

LIMAS DE DIAMANTE PARA ACANALAR / RIFFLER FILES LDA

Indicar en el pedido: LDA/Ref. N.º



Tamaño de grano D 126 (120 mesh)

| Perfil de la lima | | | | | | |
|-------------------|------------|------------|--------------|------------|--------|--------|
| Sección mm. | 4 x 2 x 25 | 4 x 2 x 25 | 3 x 1,5 x 25 | 2 x 2 x 25 | 3 x 25 | 3 x 25 |
| Referencia N.º | RF 15 | RF 16 | RF 18 | RF 20 | RF 22 | RF 24 |

Forma de pedido: LDA/Ref. N.º - **Ejemplo:** LDA /RF18.

Order: LDA/Ref. N.º - **Example:** LDA /RF18.

Auftragsform: LDA/Ref. N.º - **Beispiel:** LDA /RF18.

Disponemos de los mangos especiales para estas limas

CODILLOS PARA GRABAR Y CINCELAR / RIFFLER FILES LG



| L mm. | T/H/C | | | |
|--------------|-------|---|---|---|
| | 0 | 2 | 4 | 6 |
| 150 | | | | |

| | | | | | | | | | |
|--|-------|--|-------|--|-------|--|-------|--|-------|
| | 12900 | | 12901 | | 12902 | | 12910 | | 12911 |
| | 12912 | | 12913 | | 12914 | | 12915 | | 12916 |
| | 12917 | | 12918 | | 12919 | | 12920 | | 12930 |
| | 12931 | | 12940 | | 12941 | | 12942 | | 12943 |
| | 12950 | | 12951 | | 12952 | | 12953 | | 12954 |
| | 12955 | | 12956 | | 12957 | | 12958 | | 12960 |
| | 12961 | | 12962 | | 12963 | | 12964 | | 12965 |
| | 12970 | | 12971 | | 12972 | | 12973 | | 12974 |
| | 12975 | | 12980 | | 12981 | | 12982 | | 12983 |

Forma de pedido: LG/ N.º Ref. y T/H/C.- **Ejemplo:** LG/12900/2.

Order: LG/ N.º Ref. y T/H/C.- **Example:** LG/12900/2.

Auftragsform: LG/ N.º Ref. y T/H/C.- **Beispiel:** LG/12900/2.



| L mm. | T/H/C | | | |
|--------------|-------|---|---|---|
| | 0 | 2 | 4 | 6 |
| 150 | | | | |

| | | | | |
|-------|-------|-------|-------|-------|
| 12984 | 12985 | 12986 | 12987 | 12988 |
| 12990 | 12991 | 12995 | 12996 | 12997 |



| L mm. | T/H/C | | |
|--------------|-------|---|---|
| | 0 | 2 | 4 |
| 170 | | | |

| | | | | |
|-------|-------|-------|-------|-------|
| 12810 | 12813 | 12816 | 12818 | 12830 |
| 12831 | 12843 | 12855 | 12856 | 12857 |
| 12862 | 12864 | 12865 | 12871 | 12872 |
| 12874 | 12875 | 12881 | 12882 | 12883 |
| | 12884 | 12885 | 12896 | |



























Forma de pedido: LG/ N.º Ref. y T/H/C.- **Ejemplo:** LG/12900/2.

Order: LG/ N.º Ref. y T/H/C.- **Example:** LG/12900/2.

Auftragsform: LG/ N.º Ref. y T/H/C.- **Beispiel:** LG/12900/2.

Handwritten signature

Carp

| | L mm. | T/H/C | | | | | | | L mm. | T/H/C | | | | | | |
|--|----------|-------|---|---|---|---|---|---|----------|-------|---|---|---|---|------|------|
| | | 00 | 0 | 1 | 2 | 3 | 4 | | | 00 | 0 | 1 | 2 | 3 | 4 | |
|  2401 | 100 | | | | | | |  | 100 | | | | | | | 2408 |
|  | 140 | | | | | | |  | 140 | | | | | | | |
| | 160 | | | | | | | | 160 | | | | | | | |
| | 180 | | | | | | | | 180 | | | | | | | |
| | 200 | | | | | | | | 200 | | | | | | | |
|  2402 | 100 | | | | | | |  | 100 | | | | | | 2409 | |
|  | 140 | | | | | | |  | 140 | | | | | | | |
| | 160 | | | | | | | | 160 | | | | | | | |
| | 180 | | | | | | | | 180 | | | | | | | |
| | 200 | | | | | | | | 200 | | | | | | | |
|  2403 | 100 | | | | | | |  | 100 | | | | | | 2410 | |
|  | 140 | | | | | | |  | 140 | | | | | | | |
| | 160 | | | | | | | | 160 | | | | | | | |
| | 180 | | | | | | | | 180 | | | | | | | |
| | 200 | | | | | | | | 200 | | | | | | | |
|  2405 | 100 | | | | | | |  | 100 | | | | | | 2411 | |
|  | 140 | | | | | | |  | 140 | | | | | | | |
| | 160 | | | | | | | | 160 | | | | | | | |
| | 180 | | | | | | | | 180 | | | | | | | |
| | 200 | | | | | | | | 200 | | | | | | | |
|  2406 | 100 | | | | | | |  | 100 | | | | | | 2415 | |
|  | 140 | | | | | | |  | 140 | | | | | | | |
| | 160 | | | | | | | | 160 | | | | | | | |
| | 180 | | | | | | | | 180 | | | | | | | |
| | 200 | | | | | | | | 200 | | | | | | | |
|  2407 | 100 | | | | | | |  | 100 | | | | | | 2416 | |
|  | 140 | | | | | | |  | 140 | | | | | | | |
| | 160 | | | | | | | | 160 | | | | | | | |
| | 180 | | | | | | | | 180 | | | | | | | |
| | 200 | | | | | | | | 200 | | | | | | | |
|  2419 | | | | | | | |  | | | | | | | | |

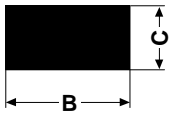
L 160 mm. T 3

Forma de pedido: LR/N.º Ref./L y T/H/C.- Ejemplo: LR/2401/100/1.

Order: LR/N.º Ref./L y T/H/C.- Example: LR/2401/100/1.

Auftragsform: LR/N.º Ref./L y T/H/C.- Beispiel: LR/2401/100/1.

PIEDRAS DE BANCO

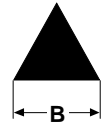


Largo = L

| Medidas B x C x L | Referencia | | Grano | |
|----------------------|------------|--------|-------|------|
| | 89 A | C | 240 | 400 |
| 25 x 6 x 100 | FB 00 | FB 100 | Medio | Fino |
| 25 x 13 x 100 | FB 01 | FB 101 | | |
| 40 x 20 x 125 | FB 02 | FB 102 | | |
| 50 x 25 x 150 | FB 05 | FB 105 | | |
| 50 x 25 x 200 | FB 07 | FB 107 | | |

LIMAS TRIANGULARES

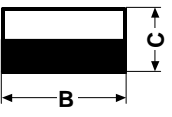
| Medidas B x L | Referencia | | Grano | |
|------------------|------------|--------|-------|------|
| | 89 A | C | 240 | 400 |
| 6 x 100 | FD 33 | FD 133 | Medio | Fino |
| 10 x 100 | FD 35 | FD 135 | | |
| 13 x 150 | FD 37 | FD 137 | | |
| 16 x 150 | FD 38 | FD 138 | | |
| 20 x 200 | FD 40 | FD 140 | | |



Largo = L

PIEDRAS COMBINADAS

Un lado grueso para desbaste y el otro fino para el acabado del filo.

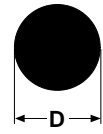


Largo = L

| Medidas B x C x L | Referencia | | Grano | |
|----------------------|------------|--------|------------|-----|
| | 89 A | C | 150 | 400 |
| 25 x 13 x 100 | FK 09 | FK 109 | Basto/fino | |
| 40 x 20 x 125 | FK 10 | FK 110 | | |
| 50 x 25 x 150 | FK 11 | FK 111 | | |
| 50 x 25 x 200 | FK 12 | FK 112 | | |

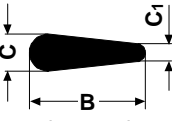
LIMAS REDONDAS

| Medidas D x L | Referencia | | Grano | |
|------------------|------------|--------|-------|------|
| | 89 A | C | 240 | 400 |
| 6 x 100 | FR 43 | FR 143 | Medio | Fino |
| 10 x 100 | FR 45 | FR 145 | | |
| 13 x 150 | FR 47 | FR 147 | | |
| 16 x 150 | FR 48 | FR 148 | | |
| 20 x 200 | FR 50 | FR 150 | | |



Largo = L

PIEDRAS PARA CUCHILLAS ACANALADAS (GUBIAS).

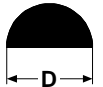


Largo = L

| Medidas B x C/C1 x L | Referencia | | Grano | |
|-------------------------|------------|---------|-------|------|
| | 89 A | C | 240 | 200 |
| 25 x 6/1 x 100 | FHM 13 | FHM 113 | Medio | Fino |
| 40 x 10/3 x 100 | FHM 14 | FHM 114 | | |
| 45 x 6/2 x 115 | FHM 15 | FHM 115 | | |
| 50 x 16/5 x 150 | FHM 18 | FHM 118 | | |

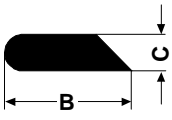
LIMAS MEDIA CAÑA

| Medidas D x L | Referencia | | Grano | |
|------------------|------------|---------|-------|------|
| | 89 A | C | 240 | 400 |
| 6 x 100 | FHR 51 | FHR 151 | Medio | Fino |
| 10 x 100 | FHR 53 | FHR 153 | | |
| 13 x 150 | FHR 55 | FHR 155 | | |
| 16 x 150 | FHR 56 | FHR 156 | | |
| 20 x 200 | FHR 57 | FHR 157 | | |



Largo = L

PIEDRAS DE LOMO REDONDEADO

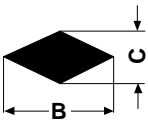


Largo = L

| Medidas B x C x L | Referencia | | Grano | |
|----------------------|------------|----------|-------|------|
| | 89 A | C | 240 | 200 |
| 45 x 10 x 100 | FHOR 19 | FHOR 119 | Medio | Fino |
| 45 x 13 x 150 | FHOR 21 | FHOR 121 | | |

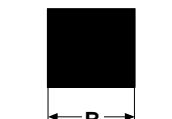
LIMAS ROMBICAS

| Medidas B x C x L | Referencia | | Grano | |
|----------------------|------------|---------|-------|------|
| | 89 A | C | 240 | 400 |
| 10 x 5 x 100 | FRA 65 | FRA 165 | Medio | Fino |



Largo = L

LIMAS CUADRADAS



Largo = L

| Medidas B x L | Referencia | | Grano | |
|------------------|------------|--------|-------|------|
| | 89 A | C | 240 | 400 |
| 6 x 100 | FV 23 | FV 123 | Medio | Fino |
| 10 x 100 | FV 25 | FV 125 | | |
| 13 x 150 | FV 27 | FV 127 | | |
| 16 x 150 | FV 28 | FV 128 | | |
| 20 x 200 | FV 30 | FV 130 | | |

LIMAS PLANAS

| Medidas B x C x L | Referencia | | Grano | |
|----------------------|------------|--------|-------|------|
| | 89 A | C | 240 | 400 |
| 6 x 3 x 100 | FF 58 | FF 158 | Medio | Fino |
| 10 x 5 x 100 | FF 60 | FF 160 | | |
| 13 x 6 x 150 | FF 62 | FF 162 | | |
| 30 x 13 x 200 | FF 64 | FF 164 | | |



Largo = L

Handwritten signature

INDICE CAPITULO 7

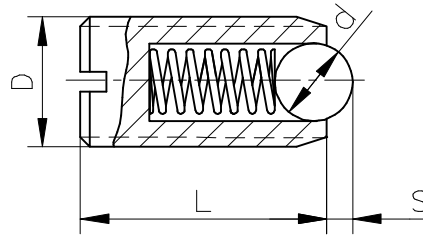
TORNILLERIA

| | | |
|-----|---|------|
| POS | Posicionador de bola / <i>Spring loaded stop</i> | 7/2 |
| TP | Tope placa expulsadora / <i>Stop for ejection plate</i> | 7/2 |
| TPS | Tope placa expulsadora / <i>Stop for ejection plate</i> | 7/3 |
| CA | Columna de apoyo / <i>Support pillar</i> | 7/3 |
| MUP | Muelles de platillo / <i>Disc spring</i> | 7/4 |
| TOG | Tornillo cabeza cilíndrica / <i>Socket cap screw</i> | 7/6 |
| TOK | Tornillo cabeza cilíndrica / <i>Socket cap screw</i> | 7/7 |
| TOA | Tornillo avellanado / <i>Socket head screw</i> | 7/8 |
| VRA | Espárrago / <i>Set screw hexagon socket</i> | 7/9 |
| VRB | Espárrago / <i>Set screw hexagon socket</i> | 7/10 |
| VRC | Espárrago / <i>Set screw hexagon socket</i> | 7/11 |
| VRD | Espárrago / <i>Set screw hexagon socket</i> | 7/12 |
| LLA | Llave exagonal acodada / <i>Allen key</i> | 7/13 |
| CAN | Cáncamo / <i>Lifting eye bolt</i> | 7/14 |

Cap

POS

POSICIONADOR DE BOLA SPRING LOADED STOP



| D | L | S | d | Presión Kgr. |
|-----|----|-----|-----|--------------|
| M4 | 9 | 0,8 | 2,5 | 0,4 - 1 |
| M5 | 12 | 0,9 | 3 | 0,6 - 1,1 |
| M6 | 14 | 1 | 3,5 | 0,9 - 1,3 |
| M8 | 16 | 2 | 5 | 1,5 - 3 |
| M10 | 19 | 2 | 6 | 2 - 3,5 |
| M12 | 22 | 3 | 8 | 3 - 5,5 |
| M14 | 22 | 3,5 | 9 | 5 - 9 |
| M16 | 24 | 3,5 | 10 | 6,5 - 12,5 |
| M18 | 26 | 4,5 | 12 | 8 - 15 |

Forma de pedido: Posicionador de bola POS / D - **Ejemplo:** POS / M10.

Order: Spring loaded stop POS / D - **Example:** POS / M10.

Auftragsform: Kugelraste POS / D - **Beispiel:** POS / M10.

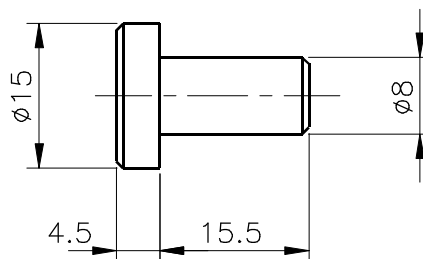
Otras medidas, bajo demanda

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TP

TOPE PLACA EXPULSORA STOP FOR EJECTION PLATE

Material: DIN 1.7242



Forma de pedido: Tope placa expulsora / TP.

Order: Stop for ejection plate / TP.

Auftragsform: Anschlag für auswerferplatte / TP.

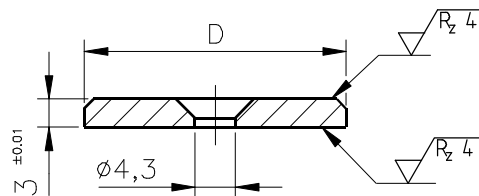
Otras medidas, bajo demanda

Edición 1/98

TOPE PLACA EXPULSORA
STOP FOR EJECTION PLATE

TPS

Material: DIN 1.7242



| D |
|----|
| 18 |
| 28 |

Forma de pedido: Tope placa expulsora TPS / D - Ejemplo: TPS / 18.

Order: Stop for ejection plate TPS / D - Example: TPS / 18.

Auftragsform: Anschlag für auswerferplatte TPS / D - Beispiel: TPS / 18.

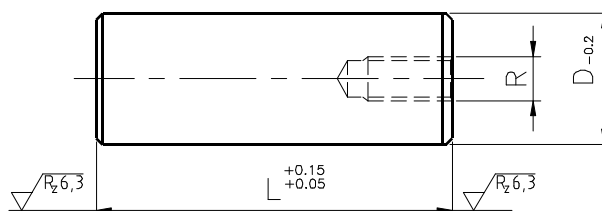
Otras medidas, bajo demanda

Car

COLUMNA DE APOYO
SUPPORT PILLAR

CA

Material: DIN 1.3505



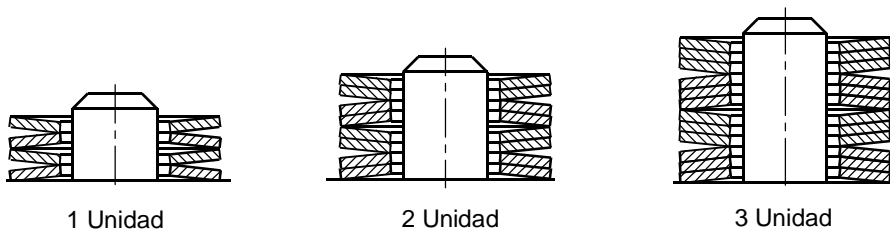
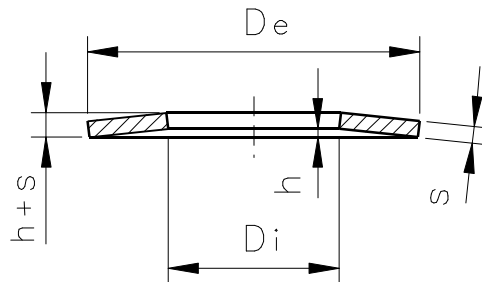
| D | R | L | | | | | | |
|-----|-----|----|----|----|----|-----|-----|-----|
| | | 50 | 60 | 70 | 90 | 110 | 120 | 150 |
| 30 | M10 | | | | | | | |
| 40 | M10 | | | | | | | |
| 50 | M10 | | | | | | | |
| 60 | M12 | | | | | | | |
| 80 | M12 | | | | | | | |
| 100 | M16 | | | | | | | |

Forma de pedido: Columna de apoyo CA / D x L - Ejemplo: CA / 50 x 90.

Order: Support pillar CA / D x L - Example: CA / 50 x 90.

Auftragsform: Stützsäule CA / D x L - Beispiel: CA / 50 x 90.

Otras medidas, bajo demanda



p = Fuerza de compresión (Kp)

f = Carrera elástica, flecha (mm).

| De | Di | s | h | h+s | f = 0,25 h | | f = 0,50 h | | f = 0,75 h | |
|-------------|-----|------------|------|------|------------|-------|------------|-------|------------|-------|
| | | | | | p | f | p | f | p | f |
| 8 | 4,2 | 0,3 | 0,25 | 0,55 | 5,3 | 0,063 | 9,1 | 0,125 | 12 | 0,188 |
| 8 | 4,2 | 0,4 | 0,2 | 0,6 | 8 | 0,05 | 15 | 0,1 | 21,4 | 0,15 |
| 10 | 5,2 | 0,4 | 0,3 | 0,7 | 9 | 0,075 | 15,7 | 0,15 | 21,3 | 0,225 |
| 10 | 5,2 | 0,5 | 0,25 | 0,75 | 12,5 | 0,063 | 23,2 | 0,125 | 33,2 | 0,188 |
| 12,5 | 6,2 | 0,5 | 0,35 | 0,85 | 12,3 | 0,088 | 21,9 | 0,175 | 29,9 | 0,263 |
| 12,5 | 6,2 | 0,7 | 0,3 | 1 | 24,3 | 0,075 | 46,4 | 0,15 | 67 | 0,225 |
| 14 | 7,2 | 0,5 | 0,4 | 0,9 | 12,2 | 0,1 | 21,3 | 0,2 | 28,4 | 0,3 |
| 14 | 7,2 | 0,8 | 0,3 | 1,1 | 28,9 | 0,075 | 55,8 | 0,15 | 81 | 0,225 |
| 16 | 8,2 | 0,6 | 0,45 | 1,05 | 17,6 | 0,113 | 31,1 | 0,225 | 41,8 | 0,338 |
| 16 | 8,2 | 0,9 | 0,35 | 1,25 | 37,2 | 0,088 | 70,8 | 0,175 | 103 | 0,263 |
| 18 | 9,2 | 0,7 | 0,5 | 1,2 | 23,8 | 0,125 | 42,4 | 0,25 | 57,6 | 0,375 |
| 18 | 9,2 | 1 | 0,4 | 1,4 | 45,9 | 0,1 | 88 | 0,2 | 128 | 0,3 |

Forma de pedido: Muelle de platillo MUP / De x s - Ejemplo: MUP / 20 x 0.8.

Order: Disc spring MUP / De x s - Example: MUP / 20 x 0.8.

Auftragsform: Tellerfeder MUP / De x s - Beispiel: MUP / 20 x 0.8.

Otras medidas, bajo demanda

| D | Di | s | h | h+s | f = 0,25 h | | f = 0,50 h | | f = 0,75 h | |
|------|------|------|------|------|------------|-------|------------|-------|------------|-------|
| | | | | | p | f | p | f | p | f |
| 20 | 10,2 | 0,8 | 0,55 | 1,35 | 31,2 | 0,138 | 55,8 | 0,275 | 76,2 | 0,413 |
| 20 | 10,2 | 1,1 | 0,45 | 1,55 | 56,2 | 0,113 | 107 | 0,225 | 155 | 0,338 |
| 22,5 | 11,2 | 0,8 | 0,65 | 1,45 | 31,4 | 0,163 | 54,4 | 0,325 | 72,2 | 0,488 |
| 22,5 | 11,2 | 1,25 | 0,5 | 1,75 | 70,7 | 0,125 | 136 | 0,25 | 197 | 0,375 |
| 25 | 12,2 | 0,9 | 0,7 | 1,6 | 37,3 | 0,175 | 65,6 | 0,35 | 87,7 | 0,525 |
| 25 | 12,2 | 1,5 | 0,55 | 2,05 | 106 | 0,138 | 204 | 0,275 | 298 | 0,413 |
| 28 | 14,2 | 1 | 0,8 | 1,8 | 48,5 | 0,2 | 84,6 | 0,4 | 113 | 0,6 |
| 28 | 14,2 | 1,5 | 0,65 | 2,15 | 105 | 0,163 | 201 | 0,325 | 289 | 0,488 |
| 31,5 | 16,3 | 1,25 | 0,9 | 2,15 | 80,4 | 0,225 | 143 | 0,45 | 194 | 0,675 |
| 31,5 | 16,3 | 1,75 | 0,7 | 2,45 | 142 | 0,175 | 272 | 0,35 | 398 | 0,525 |
| 35,5 | 18,3 | 1,25 | 1 | 2,25 | 74,4 | 0,25 | 130 | 0,5 | 173 | 0,75 |
| 35,5 | 18,3 | 2 | 0,8 | 2,8 | 190 | 0,2 | 364 | 0,4 | 528 | 0,6 |
| 40 | 20,4 | 1,5 | 1,15 | 2,65 | 113 | 0,288 | 199 | 0,575 | 267 | 0,863 |
| 40 | 20,4 | 2,25 | 0,9 | 3,15 | 238 | 0,225 | 456 | 0,45 | 662 | 0,675 |
| 45 | 22,4 | 1,75 | 1,3 | 3,05 | 156 | 0,325 | 275 | 0,65 | 372 | 0,975 |
| 45 | 22,4 | 2,5 | 1 | 3,5 | 283 | 0,25 | 542 | 0,5 | 787 | 0,75 |
| 50 | 25,4 | 2 | 1,4 | 3,4 | 198 | 0,35 | 356 | 0,7 | 485 | 1,05 |
| 50 | 25,4 | 3 | 1,1 | 4,1 | 435 | 0,275 | 836 | 0,55 | 1220 | 0,825 |
| 56 | 28,5 | 2 | 1,6 | 3,6 | 194 | 0,4 | 340 | 0,8 | 452 | 1,2 |
| 56 | 28,5 | 3 | 1,3 | 4,3 | 420 | 0,325 | 805 | 0,65 | 1159 | 0,975 |
| 63 | 31 | 2,5 | 1,75 | 4,25 | 315 | 0,435 | 512 | 0,9 | 740 | 1,3 |
| 63 | 31 | 3,5 | 1,4 | 4,9 | 558 | 0,35 | 1070 | 0,7 | 1550 | 1,05 |
| 71 | 36 | 2,5 | 2 | 4,5 | 294 | 0,5 | 480 | 1 | 690 | 1,5 |
| 71 | 36 | 4 | 1,6 | 5,6 | 756 | 0,4 | 1450 | 0,8 | 2100 | 1,2 |
| 80 | 41 | 3 | 2,3 | 5,3 | 468 | 0,6 | 765 | 1,2 | 1100 | 1,7 |
| 80 | 41 | 5 | 1,7 | 6,7 | 1260 | 0,45 | 2415 | 0,9 | 3500 | 1,3 |
| 90 | 46 | 3,5 | 2,5 | 6 | 617 | 0,62 | 1000 | 1,25 | 1450 | 1,85 |
| 90 | 46 | 5 | 2 | 8 | 1152 | 0,5 | 2210 | 1 | 3200 | 1,5 |
| 100 | 51 | 3,5 | 3,5 | 2,8 | 574 | 0,7 | 935 | 1,4 | 1350 | 2,1 |
| 100 | 51 | 6 | 2,2 | 8,2 | 1764 | 0,55 | 3381 | 1,1 | 4900 | 1,65 |

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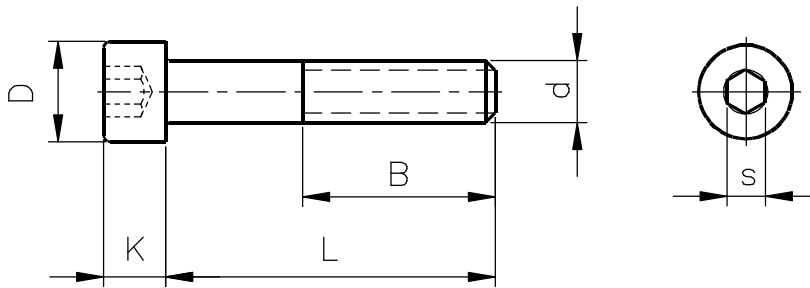
Forma de pedido: Muelle de platillo MUP / De x s - Ejemplo: MUP / 20 x 0.8.

Order: Disc spring MUP / De x s - Example: MUP / 20 x 0.8.

Auftragsform: Tellerfeder MUP / De x s - Beispiel: MUP / 20 x 0.8.

Otras medidas, bajo demanda

Norma: DIN 912



Calidad 8.8 (8 G)

Resistencia a la tracción: 80 - 100 Kg / mm.²

| d | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 |
|---|-----|----|----|----|----|-----|-----|-----|-----|
| B | 12 | 14 | 16 | 18 | 22 | 26 | 30 | 34 | 38 |
| D | 5,5 | 7 | 9 | 10 | 13 | 16 | 18 | 22 | 24 |
| K | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 |
| s | 2,6 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 |

| Longitud L | 6 | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 |
|------------|---|----|----|----|----|----|-----|-----|-----|-----|
| | 8 | | | | | | | | | |
| 10 | | | | | | | | | | |
| 12 | | | | | | | | | | |
| 14 | | | | | | | | | | |
| 16 | | | | | | | | | | |
| 18 | | | | | | | | | | |
| 20 | | | | | | | | | | |
| 22 | | | | | | | | | | |
| 25 | | | | | | | | | | |
| 30 | | | | | | | | | | |
| 35 | | | | | | | | | | |
| 40 | | | | | | | | | | |
| 45 | | | | | | | | | | |
| 50 | | | | | | | | | | |
| 55 | | | | | | | | | | |
| 60 | | | | | | | | | | |
| 70 | | | | | | | | | | |
| 80 | | | | | | | | | | |
| 90 | | | | | | | | | | |
| 100 | | | | | | | | | | |
| 110 | | | | | | | | | | |
| 120 | | | | | | | | | | |
| 130 | | | | | | | | | | |
| 140 | | | | | | | | | | |
| 150 | | | | | | | | | | |

Forma de pedido: Tornillo TOG / d x L - Ejemplo: TOG / M10 x 25.

Order: Socket cap screw TOG / d x L - Example: TOG / M10 x 25.

Auftragsform: Zylinderschraube mit innensechskant TOG / d x L - Beispiel: TOG / M10 x 25.

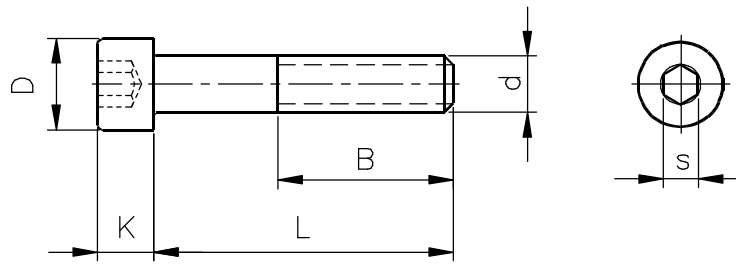
Otras medidas, bajo demanda

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TORNILLO CABEZA CILINDRICA CON EXAGONO INTERIOR SOCKET CAP SCREW

TOK

Norma: DIN 912



Calidad 12.9 (12 K)

Resistencia a la tracción: 130 - 140 Kg / mm.²

| d | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M24 |
|---|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| B | 12 | 15 | 18 | 22 | 25 | 28 | 30 | 35 | 40 | 40 | 50 |
| D | 7 | 9 | 10 | 13 | 16 | 18 | 22 | 24 | 27 | 30 | 36 |
| K | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 24 |
| s | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 14 | 17 | 19 |

| Longitud L | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M24 |
|------------|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| 6 | | | | | | | | | | | |
| 8 | | | | | | | | | | | |
| 10 | | | | | | | | | | | |
| 12 | | | | | | | | | | | |
| 14 | | | | | | | | | | | |
| 15 | | | | | | | | | | | |
| 16 | | | | | | | | | | | |
| 18 | | | | | | | | | | | |
| 20 | | | | | | | | | | | |
| 22 | | | | | | | | | | | |
| 25 | | | | | | | | | | | |
| 30 | | | | | | | | | | | |
| 35 | | | | | | | | | | | |
| 40 | | | | | | | | | | | |
| 45 | | | | | | | | | | | |
| 50 | | | | | | | | | | | |
| 55 | | | | | | | | | | | |
| 60 | | | | | | | | | | | |
| 70 | | | | | | | | | | | |
| 80 | | | | | | | | | | | |
| 90 | | | | | | | | | | | |
| 100 | | | | | | | | | | | |
| 110 | | | | | | | | | | | |
| 120 | | | | | | | | | | | |
| 130 | | | | | | | | | | | |
| 140 | | | | | | | | | | | |
| 150 | | | | | | | | | | | |
| 160 | | | | | | | | | | | |
| 170 | | | | | | | | | | | |
| 180 | | | | | | | | | | | |
| 190 | | | | | | | | | | | |
| 200 | | | | | | | | | | | |
| 210 | | | | | | | | | | | |
| 220 | | | | | | | | | | | |
| 230 | | | | | | | | | | | |
| 240 | | | | | | | | | | | |
| 250 | | | | | | | | | | | |

Cap

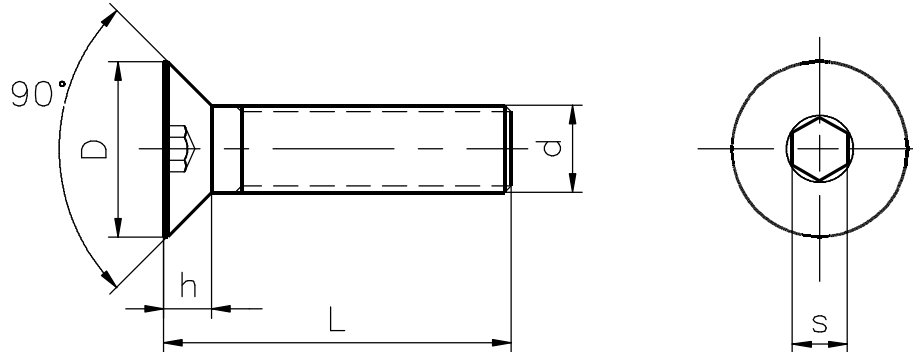
Edición 1 / 98

Forma de pedido: Tornillo TOK / d x L - Ejemplo: TOK / M10 x 25.

Order: Socket cap screw TOK / d x L - Example: TOK / M10 x 25.

Auftragsform: Zylinderschraube mit innensechskant TOK / d x L - Beispiel: TOK / M10 x 25.

Otras medidas, bajo demanda



Calidad 12.9 (12 K)

Resistencia a la tracción: 130 - 140 Kg / mm.²

| d | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M20 |
|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| D | 6 | 8 | 10 | 12 | 16 | 20 | 24 | 27 | 30 | 36 |
| h | 1,7 | 2,3 | 2,8 | 3,3 | 4,4 | 5,5 | 6,5 | 7 | 7,5 | 8,5 |
| s | 2 | 2,5 | 3 | 4 | 5 | 6 | 8 | 10 | 10 | 12 |

| | | | | | | | | | | |
|------------|----|--|--|--|--|--|--|--|--|--|
| Longitud L | 8 | | | | | | | | | |
| | 10 | | | | | | | | | |
| | 12 | | | | | | | | | |
| | 16 | | | | | | | | | |
| | 18 | | | | | | | | | |
| | 20 | | | | | | | | | |
| | 25 | | | | | | | | | |
| | 30 | | | | | | | | | |
| | 35 | | | | | | | | | |
| | 40 | | | | | | | | | |
| | 45 | | | | | | | | | |
| | 50 | | | | | | | | | |
| | 55 | | | | | | | | | |
| | 60 | | | | | | | | | |
| | 70 | | | | | | | | | |
| | 80 | | | | | | | | | |
| 90 | | | | | | | | | | |
| 100 | | | | | | | | | | |

Forma de pedido: Tornillo avellanado TOA / d x L - Ejemplo: TOA / M8 x 20.

Order: Socket head screw countersunk head TOA / d x L - Example: TOA / M8 x 20.

Auftragsform: Zylinderschraube mit innensechskant TOA / d x L - Beispiel: TOA / M8 x 20.

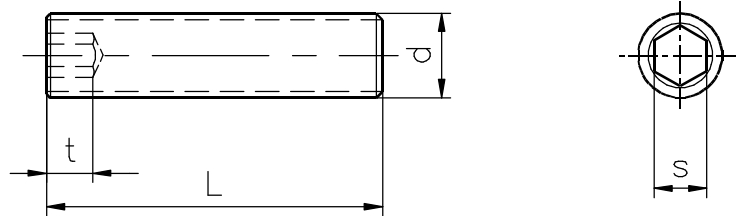
Otras medidas, bajo demanda

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ESPARRAGO SET SCREW HEXAGON SOCKET

VRA

Norma: DIN 913



Calidad 12.9 (12 K)

Resistencia a la tracción: 120 Kg / mm.²

| d | M2.5 | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M20 | M24 |
|---|------|-----|----|-----|----|----|-----|-----|-----|-----|-----|-----|
| s | 1,25 | 1,5 | 2 | 2,5 | 3 | 4 | 5 | 6 | 6 | 8 | 10 | 12 |
| t | 2 | 2,5 | 3 | 3,5 | 4 | 5 | 6 | 8 | 8 | 10 | 12 | 15 |

| | | | | | | | | | | | | |
|------------|----|--|--|--|--|--|--|--|--|--|--|--|
| Longitud L | 3 | | | | | | | | | | | |
| | 4 | | | | | | | | | | | |
| | 5 | | | | | | | | | | | |
| | 6 | | | | | | | | | | | |
| | 8 | | | | | | | | | | | |
| | 10 | | | | | | | | | | | |
| | 12 | | | | | | | | | | | |
| | 16 | | | | | | | | | | | |
| | 20 | | | | | | | | | | | |
| | 25 | | | | | | | | | | | |
| | 30 | | | | | | | | | | | |
| | 35 | | | | | | | | | | | |
| | 40 | | | | | | | | | | | |
| | 45 | | | | | | | | | | | |
| | 50 | | | | | | | | | | | |
| | 55 | | | | | | | | | | | |
| | 60 | | | | | | | | | | | |
| | 70 | | | | | | | | | | | |
| 80 | | | | | | | | | | | | |
| 90 | | | | | | | | | | | | |
| 100 | | | | | | | | | | | | |

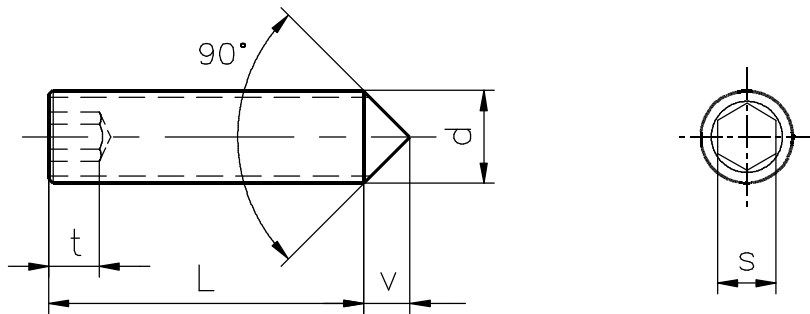
Car

Forma de pedido: Espárrago VRA / d x L - Ejemplo: VRA / M6 x 25.

Order: Set screw hexagon socket VRA / d x L - Example: VRA / M6 x 25.

Auftragsform: Gewindestift mit innensechskant VRA / d x L - Beispiel: VRA / M6 x 25.

Otras medidas, bajo demanda



Calidad 12.9 (12 K)

Resistencia a la tracción: 120 Kg / mm.²

| d | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 |
|---|-----|----|-----|-----|----|-----|-----|-----|-----|
| s | 1,5 | 2 | 2,5 | 3 | 4 | 5 | 6 | 6 | 8 |
| t | 2,5 | 3 | 3,5 | 4 | 5 | 6 | 8 | 8 | 10 |
| v | 1,5 | 2 | 2,5 | 2,5 | 3 | 4 | 5 | 5 | 6 |

| Longitud L | 4 | | | | | | | | |
|------------|----|--|--|--|--|--|--|--|--|
| | 5 | | | | | | | | |
| | 6 | | | | | | | | |
| | 8 | | | | | | | | |
| | 10 | | | | | | | | |
| | 12 | | | | | | | | |
| | 16 | | | | | | | | |
| | 20 | | | | | | | | |
| | 25 | | | | | | | | |
| | 30 | | | | | | | | |
| | 35 | | | | | | | | |
| | 40 | | | | | | | | |
| | 45 | | | | | | | | |
| 50 | | | | | | | | | |
| 60 | | | | | | | | | |

Forma de pedido: Espárrago VRB / d x L - Ejemplo: VRB / M6 x 25.

Order: Set screw hexagon socket VRB / d x L - Example: VRB / M6 x 25.

Auftragsform: Gewindestift mit innensechskant VRB / d x L - Beispiel: VRB / M6 x 25.

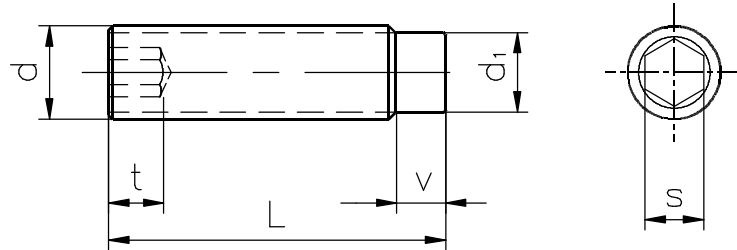
Otras medidas, bajo demanda

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ESPARRAGO SET SCREW HEXAGON SOCKET

VRC

Norma: DIN 915



Calidad 12.9 (12 K)

Resistencia a la tracción: 120 Kg / mm.²

| d | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 |
|----|-----|----|-----|-----|----|-----|-----|-----|-----|
| s | 1,5 | 2 | 2,5 | 3 | 4 | 5 | 6 | 6 | 8 |
| t | 2,5 | 3 | 3,5 | 4 | 5 | 6 | 8 | 8 | 10 |
| d1 | 1,4 | 2 | 2,5 | 3 | 5 | 6 | 7 | 8 | 10 |
| v | 2,5 | 3 | 3 | 3,5 | 5 | 5,5 | 7 | 7 | 9 |

| Longitud L | 5 | | | | | | | | |
|------------|----|--|--|--|--|--|--|--|--|
| | 6 | | | | | | | | |
| | 8 | | | | | | | | |
| | 10 | | | | | | | | |
| | 12 | | | | | | | | |
| | 16 | | | | | | | | |
| | 20 | | | | | | | | |
| | 25 | | | | | | | | |
| | 30 | | | | | | | | |
| | 35 | | | | | | | | |
| | 40 | | | | | | | | |
| | 45 | | | | | | | | |
| | 50 | | | | | | | | |
| | 60 | | | | | | | | |
| | 80 | | | | | | | | |

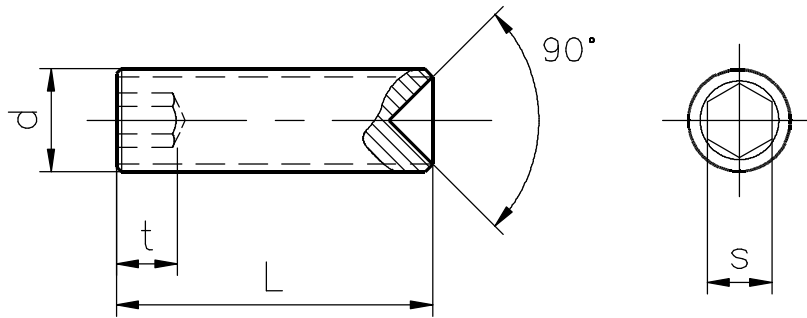
Forma de pedido: Espárrago VRC / d x L - Ejemplo: VRC / M6 x 25.

Order: Set screw hexagon socket VRC / d x L - Example: VRC / M6 x 25.

Auftragsform: Gewindestift mit innensechskant VRC / d x L - Beispiel: VRC / M6 x 25.

Otras medidas, bajo demanda

Cast



Calidad 12.9 (12 K)

Resistencia a la tracción: 120 Kg / mm.²

| d | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M20 | M24 |
|---|-----|----|-----|----|----|-----|-----|-----|-----|-----|-----|
| s | 1,5 | 2 | 2,5 | 3 | 4 | 5 | 6 | 6 | 8 | 10 | 12 |
| t | 2,5 | 3 | 3,5 | 4 | 5 | 6 | 8 | 8 | 10 | 12 | 15 |

| Longitud L | 3 | | | | | | | | | | | |
|------------|----|--|--|--|--|--|--|--|--|--|--|--|
| | 4 | | | | | | | | | | | |
| | 5 | | | | | | | | | | | |
| | 6 | | | | | | | | | | | |
| | 8 | | | | | | | | | | | |
| | 10 | | | | | | | | | | | |
| | 12 | | | | | | | | | | | |
| | 16 | | | | | | | | | | | |
| | 20 | | | | | | | | | | | |
| | 25 | | | | | | | | | | | |
| | 30 | | | | | | | | | | | |
| | 35 | | | | | | | | | | | |
| | 40 | | | | | | | | | | | |
| | 45 | | | | | | | | | | | |
| | 50 | | | | | | | | | | | |
| | 55 | | | | | | | | | | | |
| 60 | | | | | | | | | | | | |
| 70 | | | | | | | | | | | | |
| 80 | | | | | | | | | | | | |
| 100 | | | | | | | | | | | | |

Forma de pedido: Espárrago VRD / d x L - Ejemplo: VRD / M6 x 25.

Order: Set screw hexagon socket VRD / d x L - Example: VRD / M6 x 25.

Auftragsform: Gewindestift mit innensechskant VRD / d x L - Beispiel: VRD / M6 x 25.

Otras medidas, bajo demanda

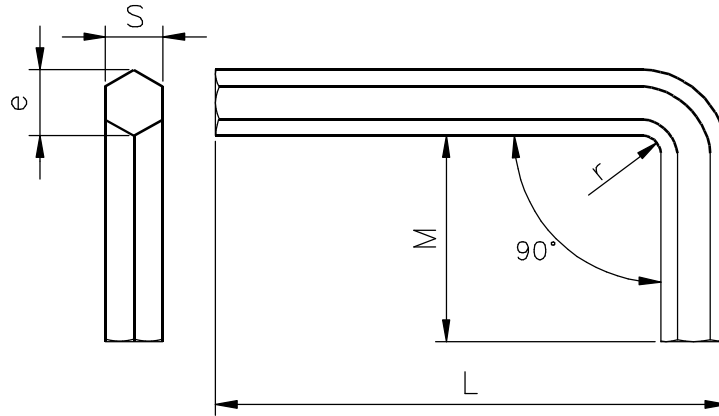
VRD

LLAVE EXAGONAL ACODADA ALLEN KEY

LLA

Norma: DIN 911

Material: Acero especial tratado



Dureza: 45 - 50 HRc

Resistencia: 140 - 165 Kg / mm.²

| ENTRECARAS | | e | L | M | r | | | | |
|------------|------------|--------|------|-----|----|-----------|--------------|-------------|-----------|
| s | Tolerancia | | | | | | | | |
| 1,5 | 0 | 1,73 | 50 | 12 | 2 | | | M3 | |
| 2 | | 2,3 | 55 | 15 | 2 | | M3 | M4 | |
| 2,5 | | -0,025 | 2,9 | 60 | 18 | 2,5 | M3 | 1/8" | M4 |
| 3 | 0 | 3,5 | 65 | 20 | 3 | M4 | 5/32" | M5 | M6 - M7 |
| 4 | | 4,6 | 72 | 25 | 4 | M5 | 3/16" | M6 | M8 - M9 |
| 5 | | -0,048 | 5,8 | 80 | 28 | 5 | M6 | 1/4" | M8 |
| 6 | 0 | 6,9 | 90 | 32 | 6 | M8 | 5/16" | M10 | M12 - M14 |
| 8 | | 9,2 | 100 | 36 | 8 | M10 | 3/8" - 7/16" | M12 | M16 - M18 |
| 10 | | -0,058 | 11,5 | 112 | 40 | 10 | M12 | 1/2" | M14 - M16 |
| 12 | 0 | 13,8 | 125 | 45 | 12 | M14 | 9/16" | M18 - M20 | M22 - M24 |
| 14 | | 16,2 | 140 | 55 | 14 | M16 - M18 | 5/8" | | |
| 17 | | -0,07 | 19,6 | 160 | 60 | 16 | M20 - M22 | 3/4" - 7/8" | |
| 18 | | 22 | 180 | 70 | 18 | M24 | | | |

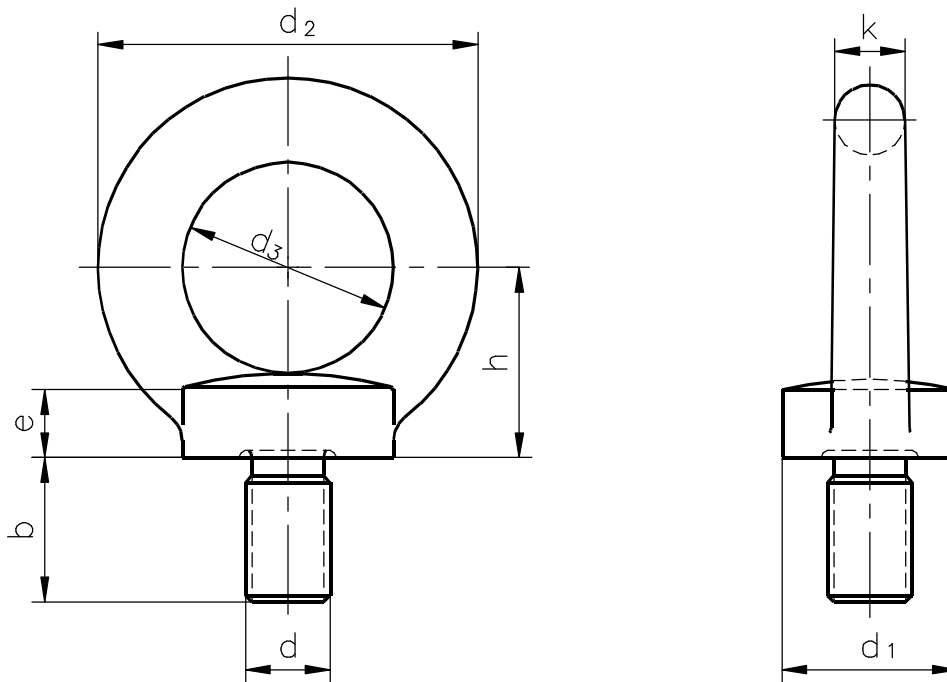
Forma de pedido: Llave exagonal acodada LLA / s - Ejemplo: LLA / 8.

Order: Allen key LLA / s - Example: LLA / 8.

Auftragsform: Inbusschüssel LLA / s - Beispiel: LLA / 8.

Otras medidas, bajo demanda

Norma: DIN 580



| d | | d_2 | b | d_3 | d_1 | e | h | k | Carga Máxima en Kg. |
|--------------------|------------------|-------|----|-------|-------|----|----|----|---------------------------|
| ROSCA Wihtworth | ROSCA Métrica | | | | | | | | |
| 5/16" | M8 | 36 | 15 | 20 | 20 | 6 | 18 | 8 | 85 |
| 3/8" | M10 | 45 | 18 | 25 | 25 | 8 | 22 | 10 | 150 |
| 1/2" | M12 M14 | 54 | 22 | 30 | 30 | 10 | 26 | 12 | 220 |
| 5/8" | M16 | 63 | 28 | 35 | 35 | 12 | 30 | 14 | 380 |
| 3/4" | M20 | 78 | 30 | 40 | 40 | 14 | 35 | 16 | 570 |
| 1" | M24 | 90 | 38 | 50 | 50 | 18 | 45 | 20 | 1050 |
| 1 1/4" | M30 | 108 | 45 | 60 | 65 | 22 | 55 | 24 | 1700 |
| 1 1/2" | M36 | 126 | 55 | 70 | 75 | 26 | 65 | 28 | 2500 |
| 1 3/4" | M42 | 144 | 65 | 80 | 85 | 30 | 75 | 32 | 3400 |
| 2" | M48 | 166 | 70 | 90 | 100 | 35 | 85 | 38 | 5200 |

Forma de pedido: Cáncamo CAN / d - **Ejemplo:** CAN / 5/8" o CAN / M16.

Order: Eye bolt CAN / d - **Example:** CAN / 5/8" or CAN / M16.

Auftragsform: Ringschraube CAN / d - **Beispiel:** CAN / 5/8" oder CAN / M16.

Otras medidas, bajo demanda

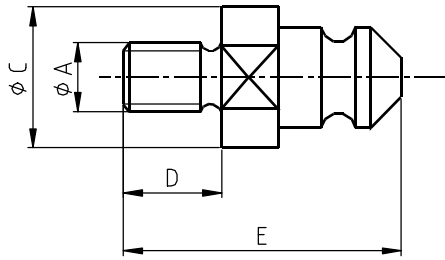
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MECANISMOS

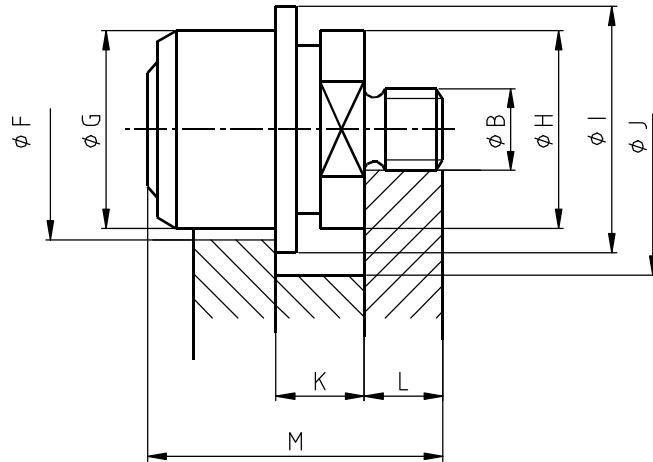
| | | <i>Pag.</i> |
|---------|--|-------------|
| RA | Recuperación adelantada / Quick knockout coupler | 8/2 |
| S4D | Cilindro hidráulico / Hydraulic cylinder | 8/3 |
| EPF EPR | Enclavamiento placas / Plates locks | 8/4 |
| TEN | Tirante de enclavamiento / Latch locks | 8/5 |
| BLF BLR | Barra de liberación / Baffle bars | 8/6 |
| EPF EPR | Enclavamiento placas / Latch locks | 8/7 |
| CSP | Correderas para molde SP / Sliders for moulds | 8/8 |

Cast

Tipos: RA302, RA402, RA412, RA422 (Hembras)



Tipos: RA301, RA401, RA411,
RA421 (Machos)



| Tipo | A | C | D | E |
|-------|--|------|----|------|
| RA301 | M10x150 M12x175 M14x200 | 22,8 | 20 | 45,5 |
| RA401 | M10x150 M12x175 M14x200 | 25,8 | 20 | 55 |
| RA411 | M16x200 M18x250 M20x250 M24x300 M27x300 M30x350 | 35 | 25 | 68 |
| RA421 | M24x300 M27x300 M30x350 M36x400 | 43 | 30 | 80 |

| Dispositivo | | | |
|-------------|-------|--------|-----------|
| Nombre | Macho | Hembra | Carga |
| Micro | RA301 | RA302 | 1500 Kg. |
| Migno | RA401 | RA402 | 2400 Kg. |
| Normal | RA411 | RA412 | 3200 Kg. |
| Extra | RA421 | RA422 | 18000 Kg. |

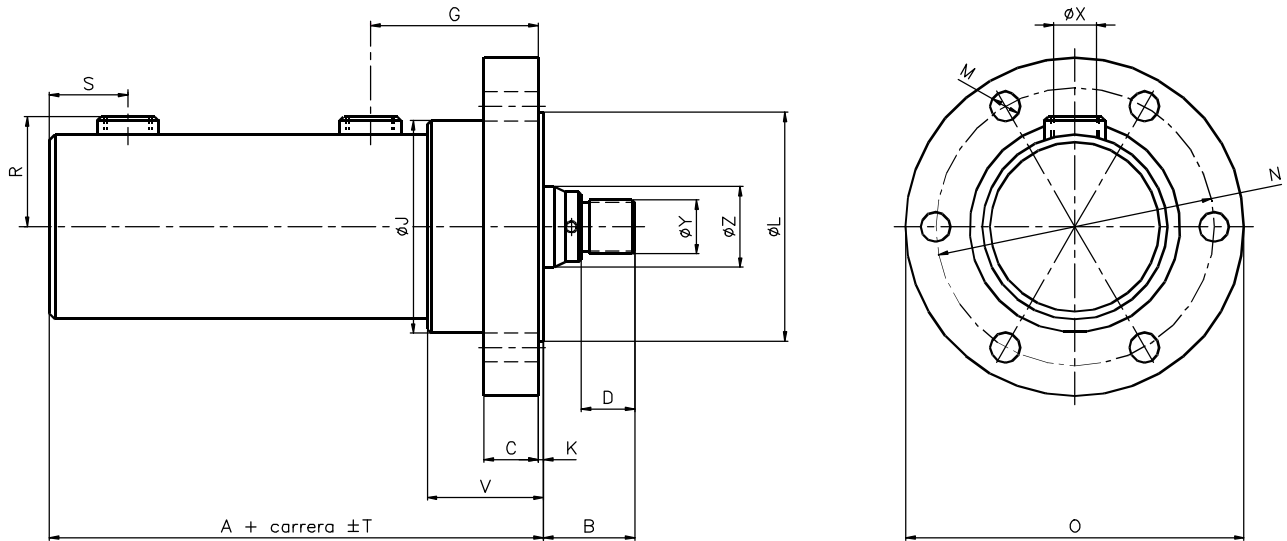
| Tipo | B | F | G | H | I | J | K | L | M |
|-------|--|----|----|----|----|----|----|----|------|
| RA302 | M16x150 | 34 | 32 | 32 | 39 | 43 | 9 | 15 | 42,5 |
| RA402 | M16x150 | 40 | 38 | 38 | 48 | 53 | 13 | 15 | 52 |
| RA412 | M16x150 M18x150 M20x150 M24x150 M27x150 M30x150 | 58 | 56 | 52 | 65 | 70 | 17 | 18 | 68 |
| RA422 | M24x150 M27x150 M30x150 M36x200 | 66 | 64 | 60 | 74 | 79 | 22 | 23 | 84 |

Forma de pedido: Recuperación adelantada RA / A - **Ejemplo:** RA401 / M10x150.

Order: Automatic ejector, return rods RA / A - **Example:** RA401 / M10x150.

Auftragsform: Rückzugvorrichtung RA / A - **Beispiel:** RA401 / M10x150.

Presión máx: 210 bars



Temperatura: mínima -20°C
máxima +70°C

Apto para trabajar con velocidades máximas comprendidas entre 6 y 10 m/minuto

Presión mínima de trabajo = 15 bars

Fluido : aceites minerales de viscosidades comprendidas entre 2.5º y 6º Engler a 50°C

Presión máxima de trabajo sin golpes = 210 bars

Punto de anilina 90º

Presión normal de servicio continuo = 160 bars

Antioxidante, Antiespumante

| Tipo | ØY | ØX | A | B | C | D | G | J | K | L | M | N | O | R | S | T | V |
|---------------------|----------|--------------|-----|-----|----|-----|-----|-----|---|-----|----|-----|-----|-----|-----|---|-----|
| CHL 3 -16 | M12x1.25 | R 1/4" gas | 106 | 30 | 15 | 16 | 48 | 52 | 2 | 52 | 7 | 67 | 80 | 31 | 26 | 2 | 32 |
| CHL 4 -22 -28 | M16x1,5 | R 3/8" gas | 126 | 35 | 17 | 20 | 60 | 62 | 2 | 60 | 9 | 82 | 100 | 39 | 25 | 2 | 40 |
| CHL 5 -28 -36 | M20x1,5 | R 3/8" gas | 136 | 41 | 20 | 25 | 62 | 74 | 2 | 75 | 11 | 103 | 125 | 44 | 29 | 2 | 41 |
| CHL 6 -36 -45 | M27x2 | R 1/2" gas | 149 | 48 | 24 | 32 | 62 | 89 | 2 | 90 | 13 | 120 | 145 | 54 | 35 | 2 | 39 |
| CHL 8 -45 -56 | M33x2 | R 1/2" gas | 168 | 59 | 28 | 40 | 72 | 112 | 2 | 110 | 15 | 142 | 170 | 65 | 40 | 2 | 46 |
| CHL 10 -56 -70 | M42x2 | R 3/4" gas | 189 | 70 | 34 | 50 | 81 | 135 | 3 | 135 | 17 | 170 | 202 | 77 | 45 | 3 | 52 |
| CHL 12 -70 -90 | M52x2 | R 3/4" gas | 203 | 80 | 40 | 55 | 85 | 170 | 3 | 168 | 21 | 210 | 250 | 92 | 57 | 3 | 53 |
| CHL 16 -90 -110 | M68x3 | R 1" gas | 255 | 100 | 54 | 70 | 109 | 218 | 3 | 215 | 29 | 270 | 320 | 118 | 72 | 3 | 67 |
| CHL 20 -110 -140 | M90x3 | R 1 1/4" gas | 297 | 125 | 65 | 90 | 124 | 272 | 3 | 270 | 32 | 330 | 385 | 145 | 90 | 3 | 80 |
| CHL 25 -140 -180 | M110x3 | R 1 1/4" gas | 338 | 150 | 65 | 110 | 150 | 335 | 5 | 330 | 29 | 390 | 440 | 174 | 103 | 4 | 105 |

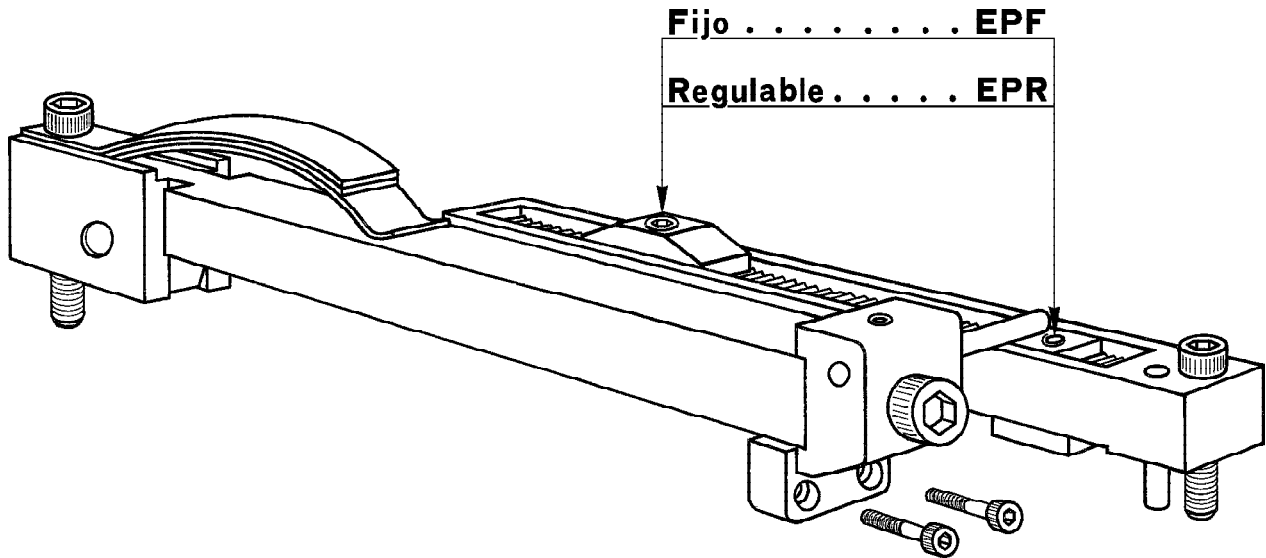
Forma de pedido: Cilindro Tipo / Carrera - **Ejemplo:** CHL 8-56 S4D / Carrera 50 mm.

Order: Type Cylinder / Stroke - **Example:** CHL 8-56 S4D / Stroke 50 mm.

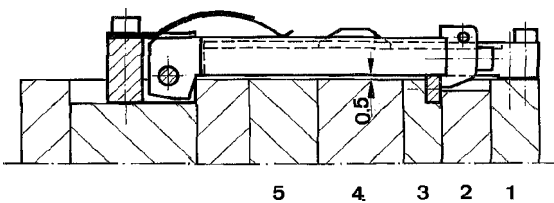
Auftragsform: Type Zylinder / Hub - **Beispiel:** CHL 8-56 S4D / Hub 50 mm.

Otras medidas, bajo demanda

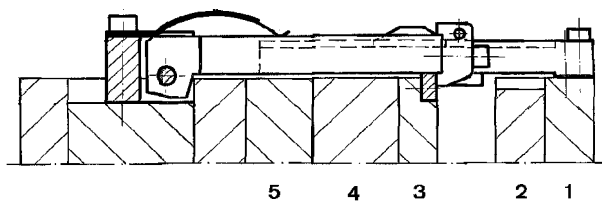
PARA MOLDES QUE NECESITAN UNA SEPARACIÓN DE PLACAS ADICIONAL



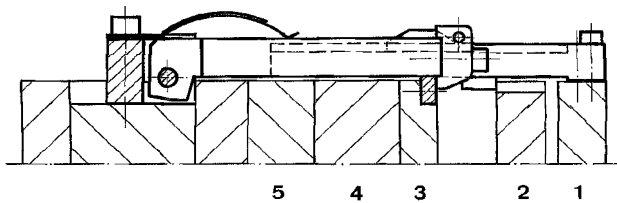
EJEMPLO DE APLICACIÓN / APPLICATION EXAMPLE



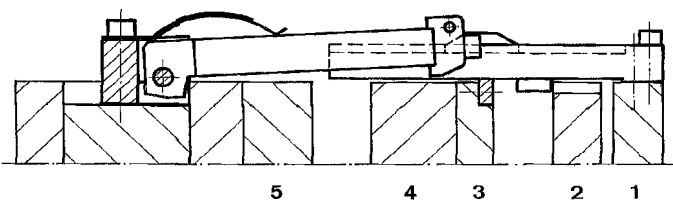
1.- Molde cerrado.



2.- Abertura entre 2 y 3 para rotura de la colada capilar.



3.- Abertura entre 1 y 2 para la expulsión de la colada (unión mecánica entre 2 y 3).



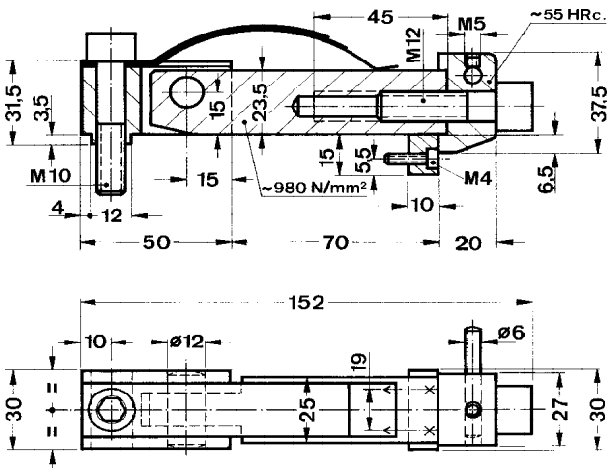
4.- Abertura entre 4 y 5 para expulsión de las piezas y limitación opcional carrera placa 2 por el tope.

CONSULTAR PARA OTRAS POSIBLES APLICACIONES

C&P

TIRANTE DE ENCLAVAMIENTO LATCH LOCKS

TEN



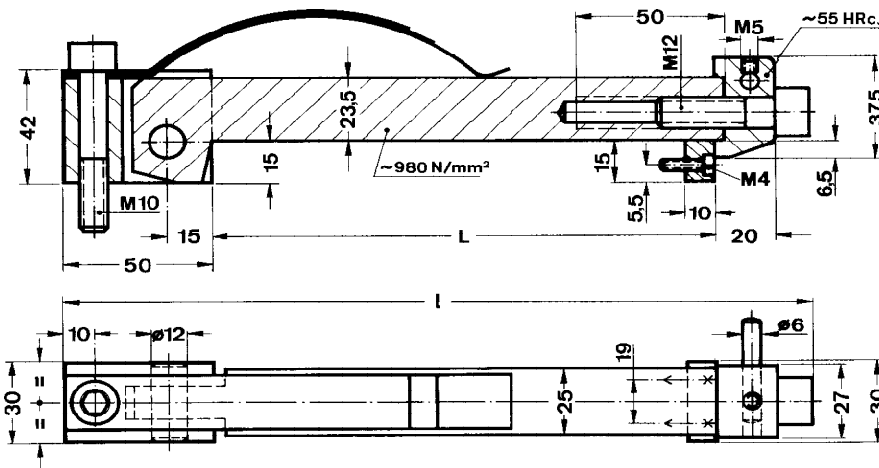
La longitud "L" es ajustable en todos los tipos.
El TIRANTE no está templado, puede acortarse.

El taladro roscado para la fijación de la cabeza
tiene suficiente profundidad.

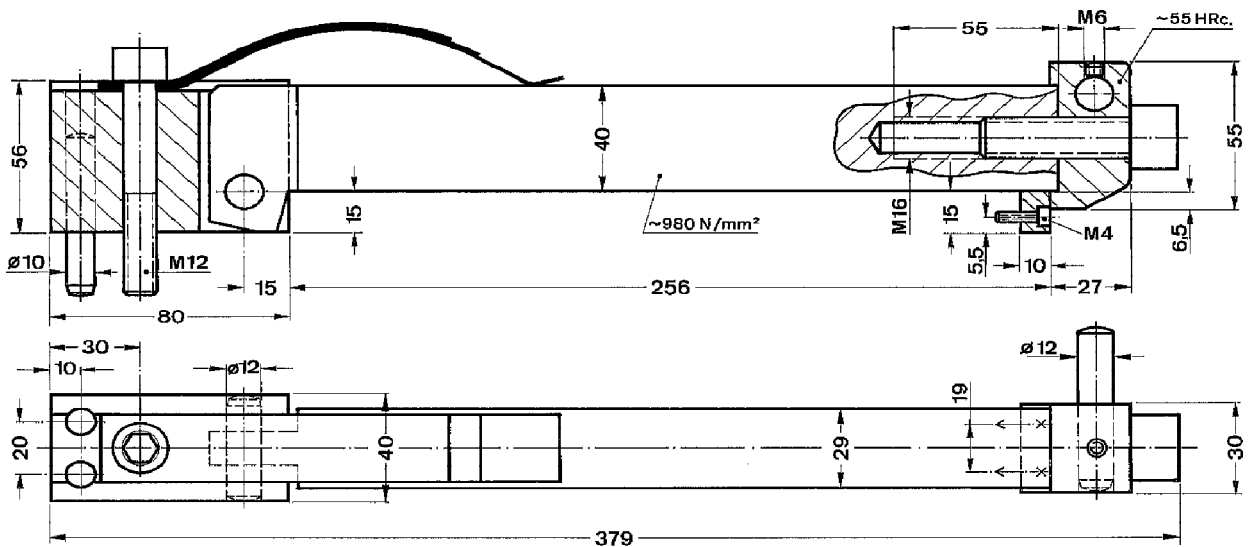
Construidos en acero aleado protegido contra la
oxidación.

Zonas de desgaste templadas.

REFERENCIA: TEN 070



| REFERENCIA | L | I |
|------------|-----|-----|
| TEN 090 | 90 | 172 |
| TEN 170 | 170 | 252 |
| TEN 220 | 220 | 302 |
| TEN 270 | 270 | 352 |



REFERENCIA: TEN 256

Formas de pedido:

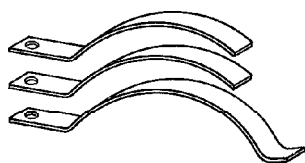
Para asegurar el paralelismo de las placas, son necesarios como mínimo dos conjuntos por molde. Normalmente se suministran en cajas con las combinaciones más empleadas.

| FIJO | CONTENIDO | | REGULABLE | CONTENIDO | |
|-----------|-----------|--------------------|-----------|-----------|--------------------|
| REF. CAJA | CANT. | REFERENCIA | REF. CAJA | CANT. | REFERENCIA |
| EPF 200 | 2 2 | TEN 170 BLF 200 | EPR 70140 | 2 2 | TEN 070 BLR 140 |
| EPF 250 | 2 2 | TEN 220 BLF 250 | EPR 90140 | 2 2 | TEN 090 BLR 140 |
| EPF 300 | 2 2 | TEN 270 BLF 300 | EPR 200 | 2 2 | TEN 170 BLR 200 |
| EPF 400 | 2 2 | TEN 256 BLF 400 | EPR 250 | 2 2 | TEN 220 BLR 250 |

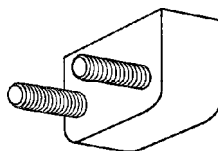
Indicar referencia caja. **Ejemplo:** EPF 200.

Opcionalmente pueden pedirse en subconjuntos independientes, cuando las necesidades de montaje lo requieran. Indicar cantidad y referencia subconjuntos. Ejemplo: 2 TEN 170 + 2 BLF 250.

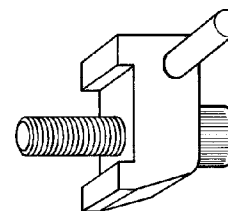
IDENTIFICACIÓN PIEZAS DE RECAMBIO



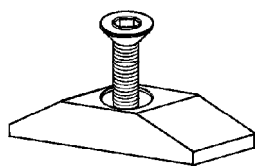
JUEGO DE MUELLES
Ref: MEP / ...



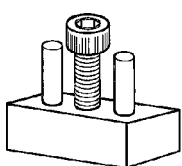
UÑA ENCLAVAMIENTO
Ref. UEP



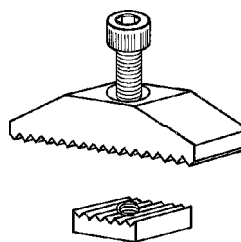
CABEZA ENCLAVAMIENTO
Ref: CEP / ...



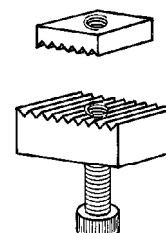
LEVA (Fijos)
Ref: LEF / ...



TOPE
Ref: TOF / ...



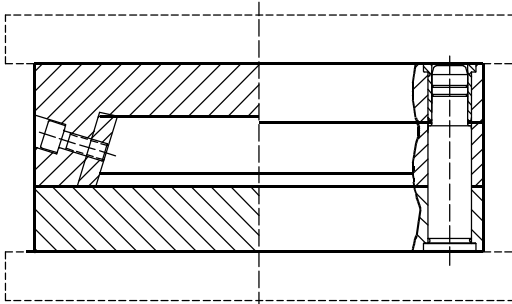
LEVA (Regulables)
Ref: LER



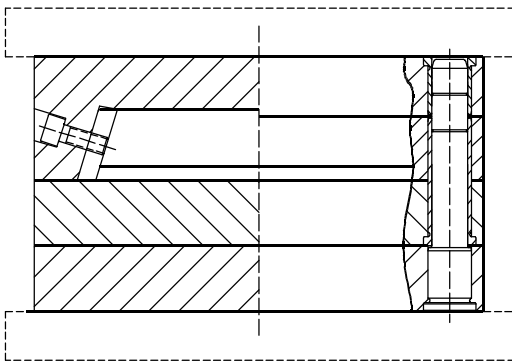
TOPE
Ref: TOR

Los recambios identificados únicamente por tres letras son comunes para todos los conjuntos. En los demás, deben sustituirse los puntos por la referencia del subconjunto donde van a montarse.

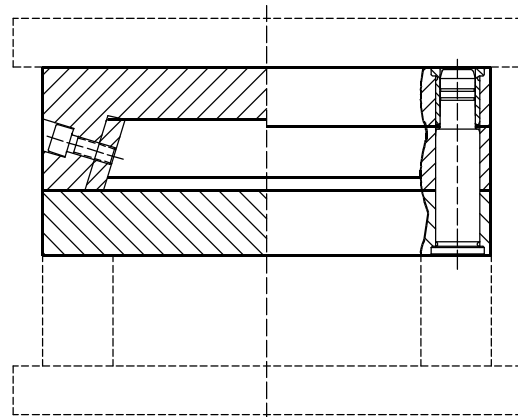
Ejemplo: JUEGO DE MUELLES MEP / TEN 070



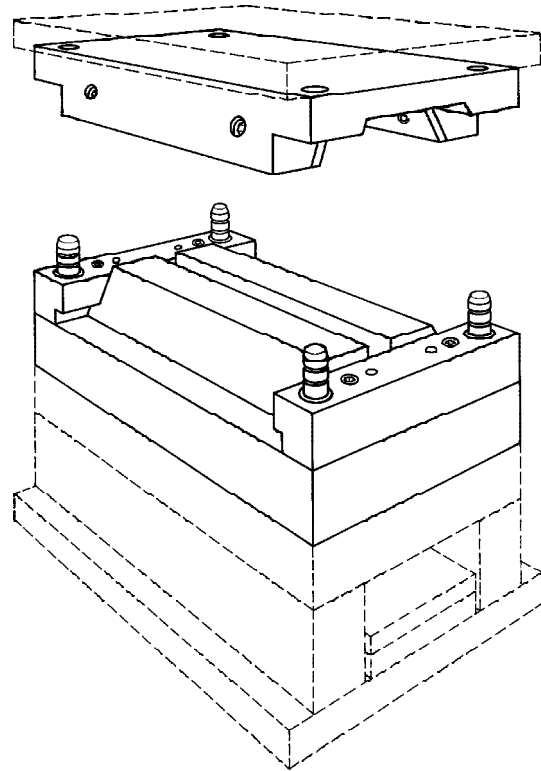
CSP - 2



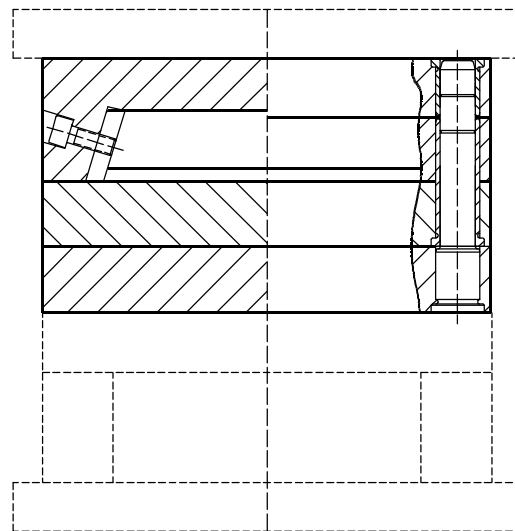
CSP - 3



CSP - 4



CSP - 5



CSP - 6

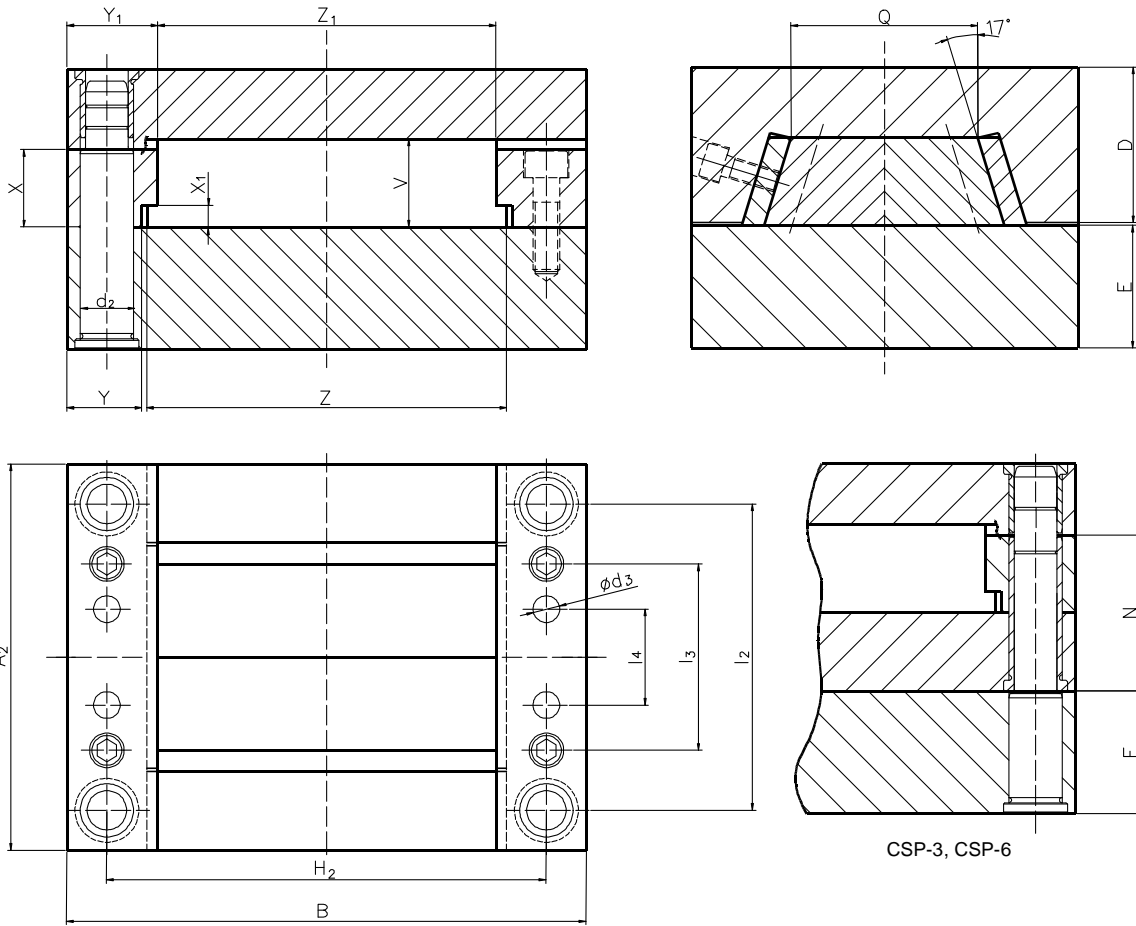
Handwritten signature

Forma de pedido: Correderas CSP-nº. ... / Tipo ... x D x E x N - Ejemplo: CSP-3 /145 x 195 x 46 x 22 x 27.

Order: Slides CSP-nº. ... / Type ... x D x E x N - Example: CSP-3 /145 x 195 x 46 x 22 x 27.

Auftragsform: Backen CSP-nº. ... / Type ... x D x E x N - Beispiel: CSP-3 /145 x 195 x 46 x 22 x 27.

CORREDERAS PARA MOLDES SP / SLIDES FOR MOULDS **CSP**



CSP-3, CSP-6

| TIPO (A2xB) | D | E-N | H2 | l2 | l3 | l4 | Q | V | X | X1 | Y | Y1 | Z | Z1 | d2 | d3 |
|----------------|-------------|----------------|-----|-----|-----|-----|------------|-------------|-------|----|------|------|-----|-----|----|----|
| 130x145 | 46-56 | 18 27-46 | 119 | 104 | 65 | 36 | 60 | 22-32 | 19-29 | 8 | 24 | 29 | 95 | 87 | 16 | 10 |
| 145x195 | 46-56 | 22 27-46 | 165 | 115 | 70 | 36 | 70 | 22-32 | 19-29 | 8 | 29 | 34 | 135 | 127 | 20 | 10 |
| 175x175 | 36 56-76 | 22-27 36-56 | 140 | 140 | 90 | 50 | 100 80 | 18 36-46 | 20-40 | 10 | 32.5 | 37.5 | 108 | 100 | 20 | 12 |
| 175x260 | 36 56-76 | 22-27 36-56 | 225 | 140 | 90 | 50 | 100 80 | 18 36-46 | 20-40 | 10 | 34 | 40 | 190 | 180 | 20 | 12 |
| 175x360 | 36 56-76 | 22-27 36-56 | 320 | 135 | 80 | 40 | 100 80 | 18 36-46 | 20-40 | 10 | 34 | 45 | 280 | 270 | 25 | 12 |
| 215x215 | 36 56-76 | 22-27 36-56 | 180 | 180 | 125 | 80 | 100 | 18 36-46 | 20-40 | 10 | 34 | 40 | 145 | 135 | 20 | 12 |
| 215x295 | 36 56-76 | 22-27 36-56 | 255 | 175 | 125 | 80 | 120 100 | 18 36-46 | 20-40 | 10 | 39 | 46 | 215 | 203 | 25 | 12 |
| 245x245 | 36 76-96 | 27-36 56-76 | 203 | 203 | 140 | 80 | 130 120 | 27 46-56 | 20-40 | 10 | 39 | 46 | 165 | 153 | 25 | 15 |
| 245x360 | 36 76-96 | 27-36 56-76 | 318 | 203 | 140 | 80 | 130 120 | 27 46-56 | 20-40 | 10 | 39 | 46 | 280 | 268 | 25 | 15 |
| 295x450 | 36 76-96 | 27-36 56-76 | 395 | 240 | 170 | 110 | 200 180 | 27 46-56 | 24-40 | 12 | 49 | 55 | 350 | 340 | 30 | 16 |
| 345x550 | 36 76-96 | 27-36 56-76 | 485 | 280 | 200 | 130 | 230 220 | 27 46-56 | 24-40 | 12 | 59 | 65 | 432 | 420 | 40 | 18 |

VAP DISPONE DE UNA AMPLIA GAMA DE PRODUCTOS QUE CUBREN TODAS LAS NECESIDADES DEL PROFESIONAL DEL MOLDE, CONSULTENOS SI TIENE ALGUNA DUDA.

