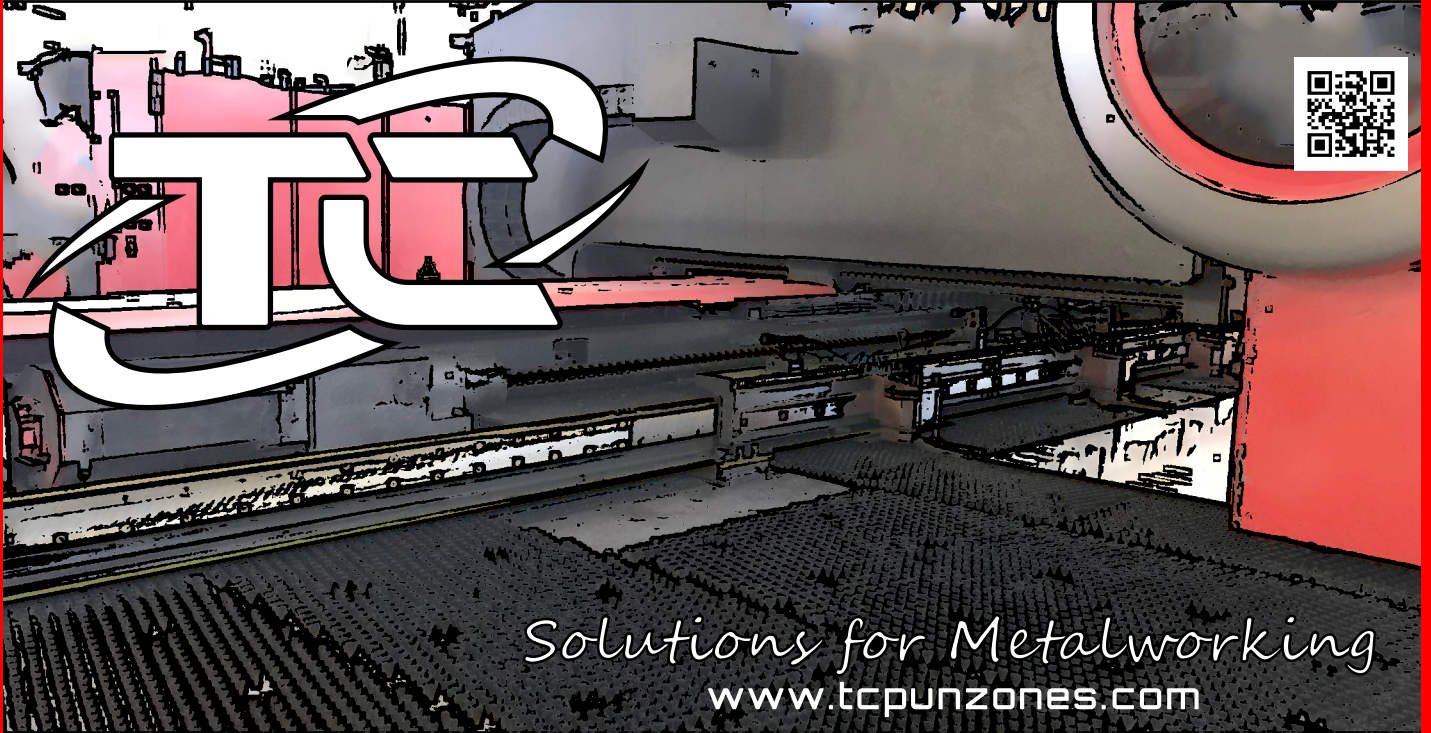




Solutions for Metalworking
www.tcpunzones.com



Thick Turret system

TC PUNZONES Y MATRICES
www.tcpunzones.com
Tlf. +34 934 228 023
info@tcpunzones.com

Thick Turret System

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Tipo D <i>Type D</i>	pág. 8
Tipo E <i>Type E</i>	pág. 9
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Embuticiones <i>Forming Tools</i>	pág. 21
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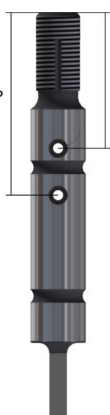




Sistema largo / Thick turret

***Tipo De Sistema
Por Posición Chaveta**
*System Type For
Key Position

59.5mm
Sistema HP
HP system



39mm
Sistema
WLS
WLS system



Sistema WT / WT system



Sistema UT / UT system

- **Figura máxima inscrita en Ø12,7mm**
- *Maximum shape inscribed in Ø12,7mm*
- **Suplementos de matriz de espesor**
- *Die supplement Shims*
- 0,3 - 0,5 mm**

Sistema largo / Thick turret



Porta Punzón
Sistema Largo
Punch Holder
Thick Turret System

Punzón
Intercambiable Ø6
Insert Punch Ø6

Casquillo Porta Punzón
Punch Holder Cap

Sistema WT / WT system

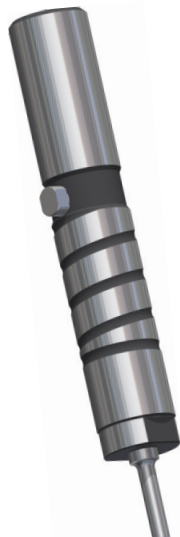


Porta Punzón
Sistema WT
Punch Holder
WT System

Punzón
Intercambiable Ø6
Insert Punch Ø6

Casquillo Porta Punzón
Punch Holder Cap

Sistema UT / UT system



Porta Punzón
Sistema UT
Punch Holder
UT System

Punzón
Intercambiable Ø6
Insert Punch Ø6

Casquillo Porta Punzón
Punch Holder Cap

TIPO B Grupo Estándar / TYPE B Standard Group

Sistema largo / Thick turret



Sistema Estándar
Standard System

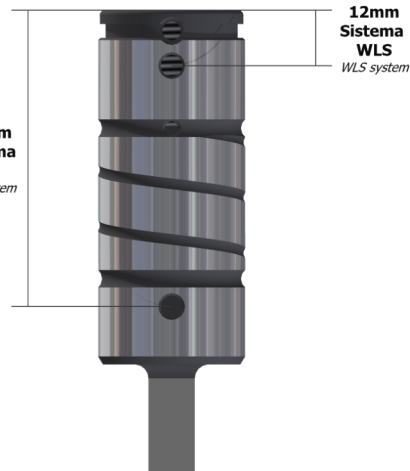


Sistema BR
Heavy duty BR System

Sistema WT / WT system

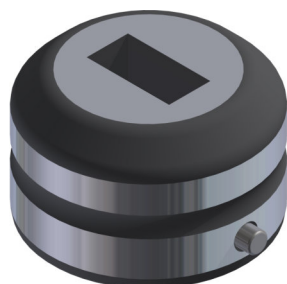


64mm
Sistema
HP
HP system



12mm
Sistema
WLS
WLS system

Sistema UT / UT system



- Figura máxima inscrita en Ø31,7mm
- Maximum shape inscribed in Ø31,7mm
- Suplementos de matriz de espesor
- Die supplement Shims
- 0,3 - 0,5 mm

Sistema largo / Thick turret



Vástago largo
Thick Turret Stem

Punzón
Intercambiable Ø10
Insert Punch Ø10

Porta Punzón
Sistema Largo
Punch Holder
Thick Turret System

Sistema WT / WT system



Punzón
Intercambiable Ø10
Insert Punch Ø10

Porta Punzón
Sistema WT
Punch Holder
WT System

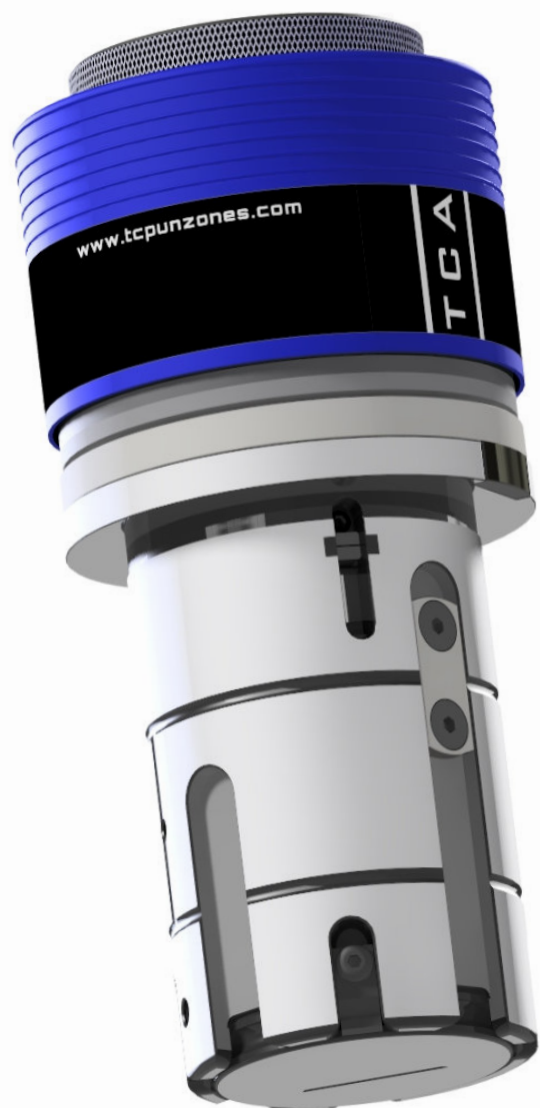
Sistema UT / UT system



Punzón
Intercambiable Ø10
Insert Punch Ø10

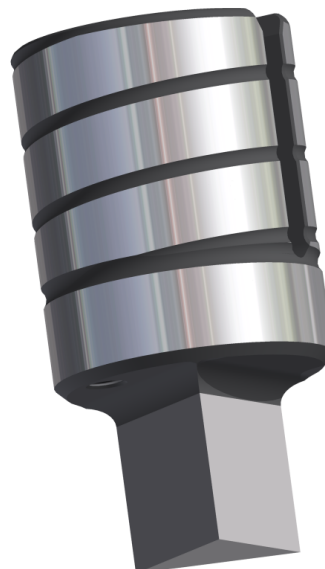
Porta Punzón
Sistema UT
Punch Holder
UT System

- Figura máxima inscrita en Ø10mm
- Maximum shape incirbed in Ø10mm

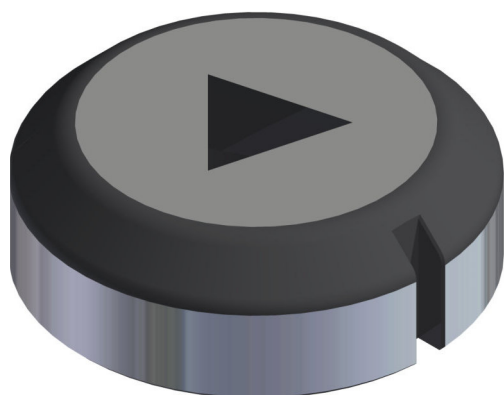


Sistema largo / Thick turret

Sistema UT / UT system



Sistema WT / WT system

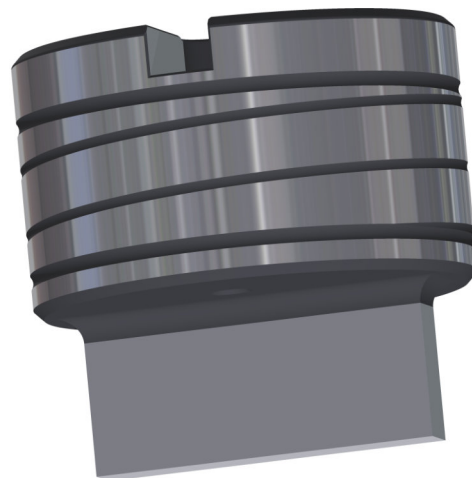


- **Figura máxima inscrita en Ø50,8mm**
- *Maximum shape inscribed in Ø50,8mm*
- **Suplementos de matriz de espesor**
- *Die supplement Shims*
- 0,3 - 0,5 mm**

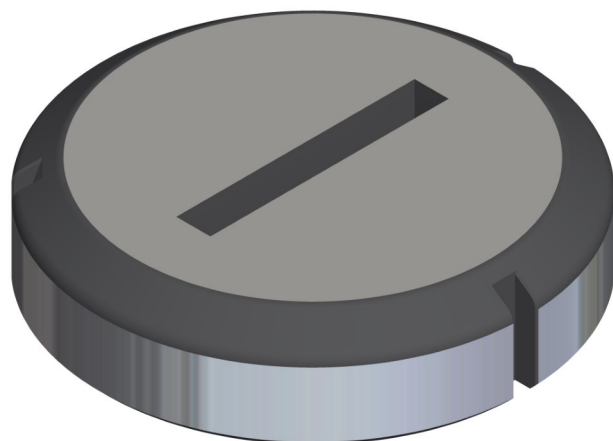
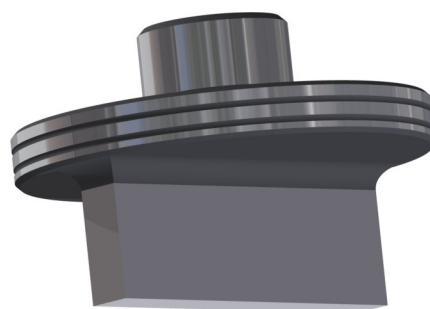


Sistema largo / Thick turret

Sistema UT / UT system



Sistema WT / WT system

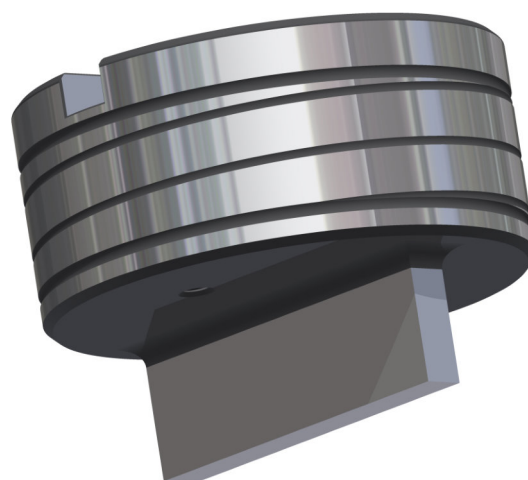


- **Figura máxima inscrita en Ø88,9mm**
- Maximum shape incirbed in Ø88,9mm
- **Suplementos de matriz de espesor**
- Die supplement Ring
0,3 - 0,5 mm

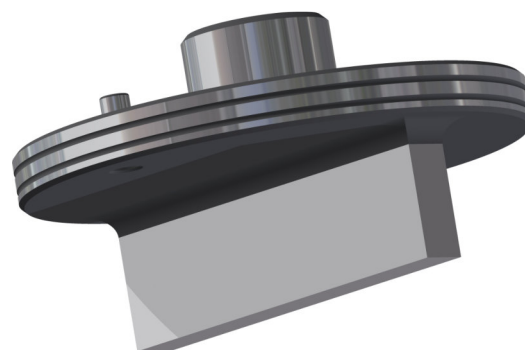
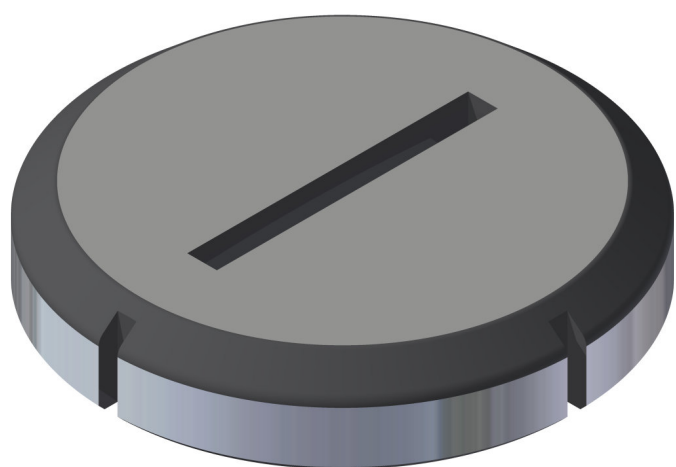


Sistema largo / Thick turret

Sistema UT / UT system



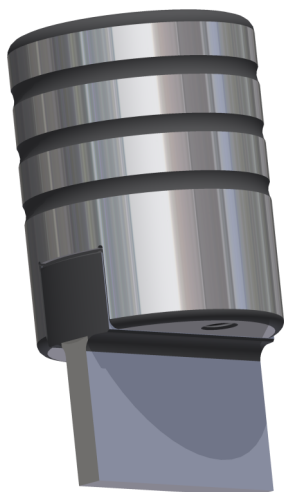
Sistema WT / WT system



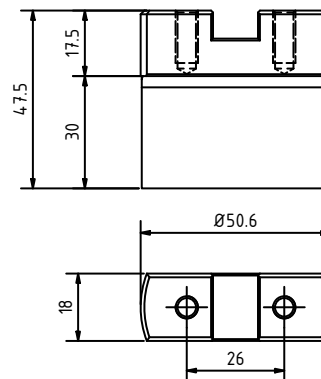
- **Figura máxima inscrita en Ø114,3mm**
- *Maximum shape inscribed in Ø114,3mm*
- **Suplementos de matriz de espesor**
- *Die supplement Shims*
- 0,3 - 0,5 mm**

Tipo C y D Porta Cuchillas / Type C & D Blade Holder

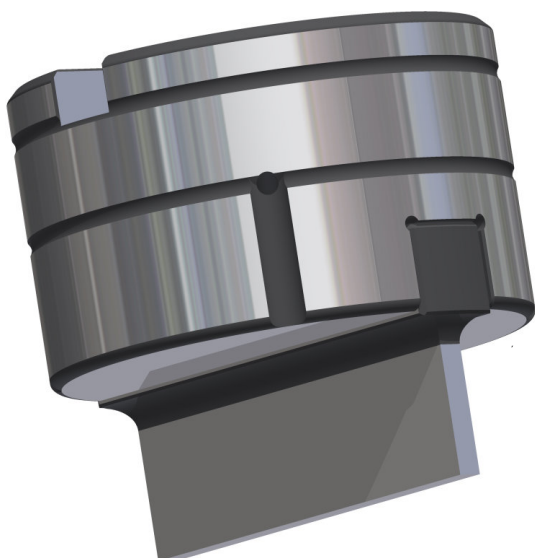
Tipo C / Type C



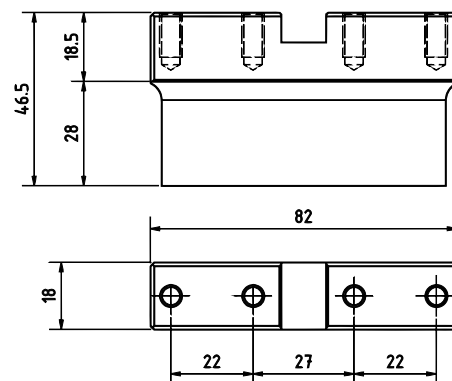
Cuchilla Estándar / Standard Blade



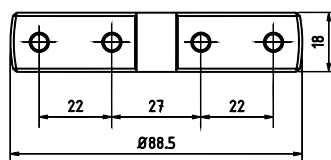
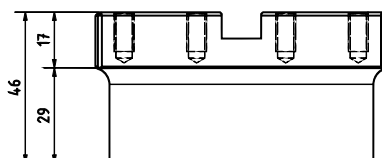
Tipo D / Type D



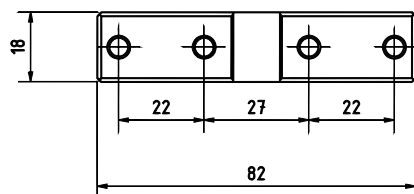
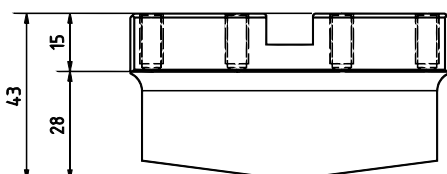
Cuchilla Estándar / Standard Blade



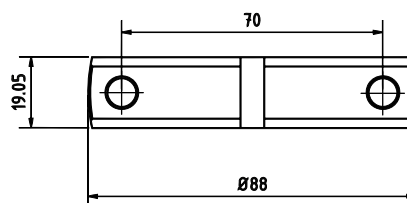
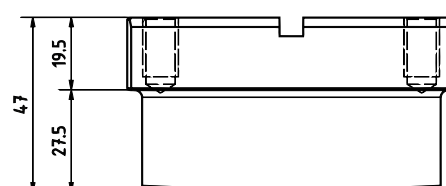
Cuchilla TC / TC Blade

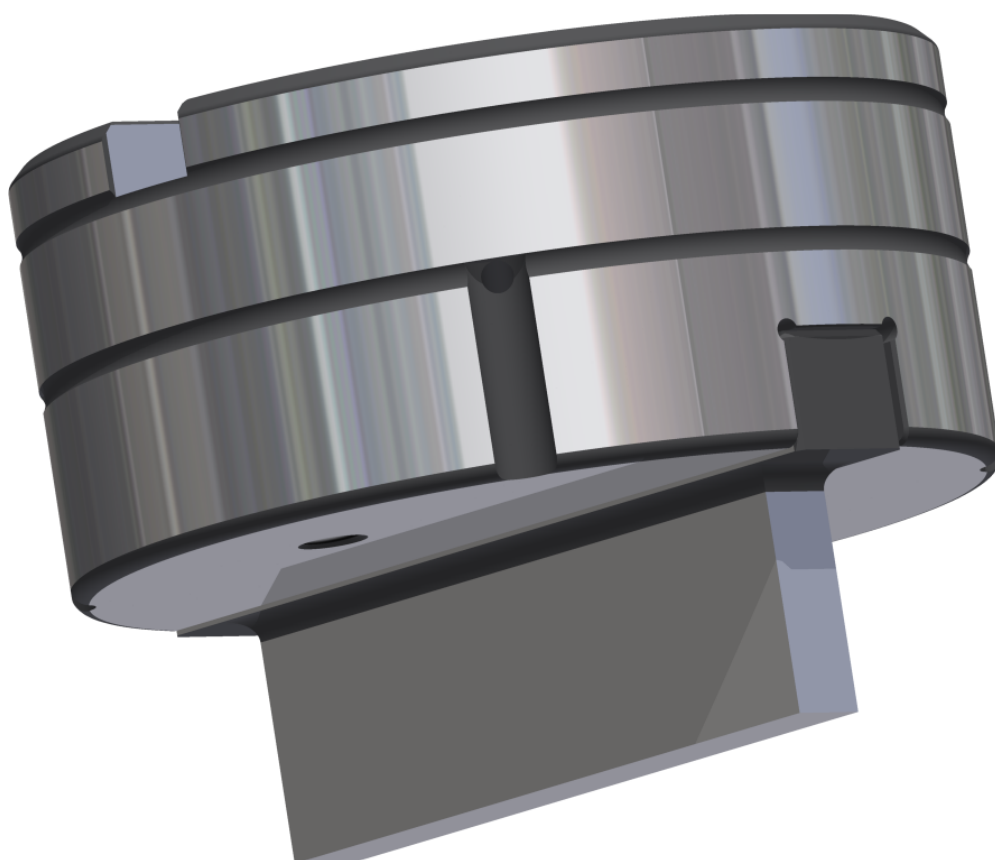


Cuchilla UT / UT Blade

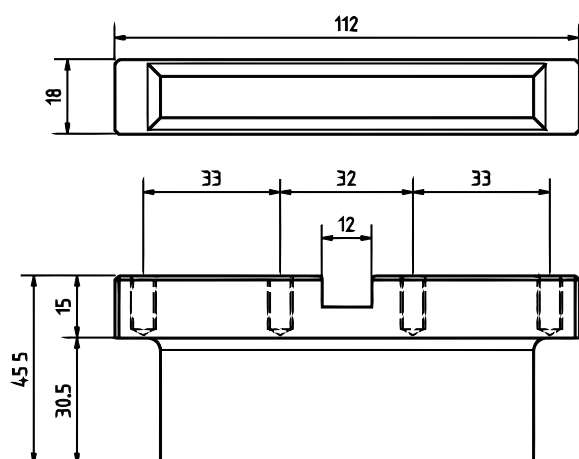


Cuchilla WT / WT Blade

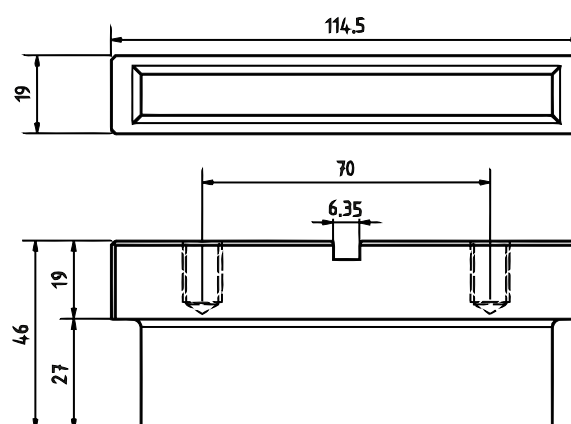




Cuchilla TC / TC Blade



Cuchilla WT / WT Blade



THICK TURRET



Tipo B / Type B
Sistema largo / Thick turret

Tipo B / Type B
Sistema WT / WT system



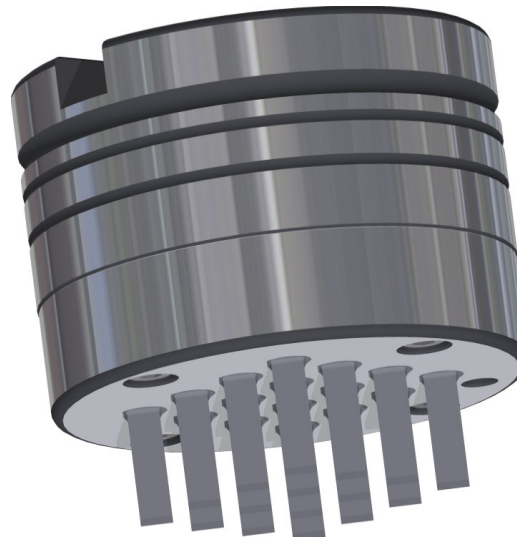
Tipo B / Type B
Sistema UT / UT system



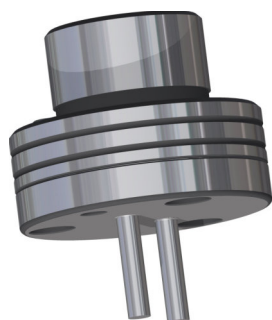
Tipo C / Type C
Sistema largo / Thick turret
Sistema UT / UT System



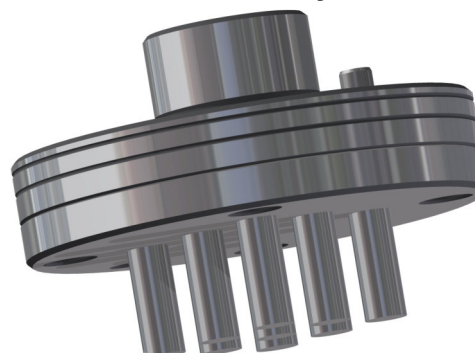
Tipo D o E / Type D or E
Sistema largo / Thick turret
Sistema UT / UT System



Tipo C / Type C
Sistema WT / WT system



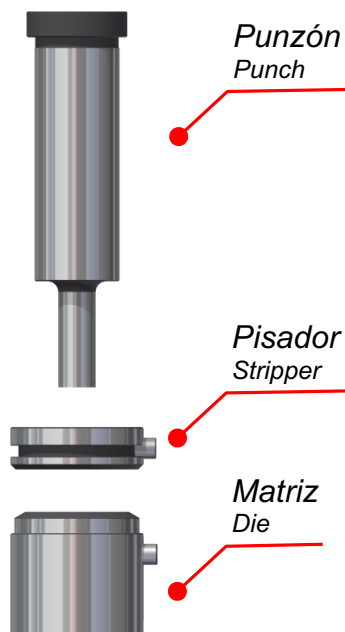
Tipo D o E / Type D or E
Sistema WT / WT system



Todos los múltiples requieren un estudio previo.
All clusters needs previus study.

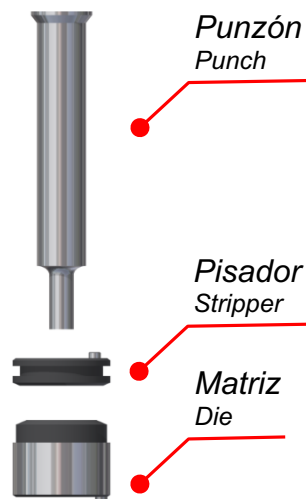
MT-10 Ø16

- Figura máxima inscrita en Ø16mm
- Maximum shape inscribed in Ø16mm



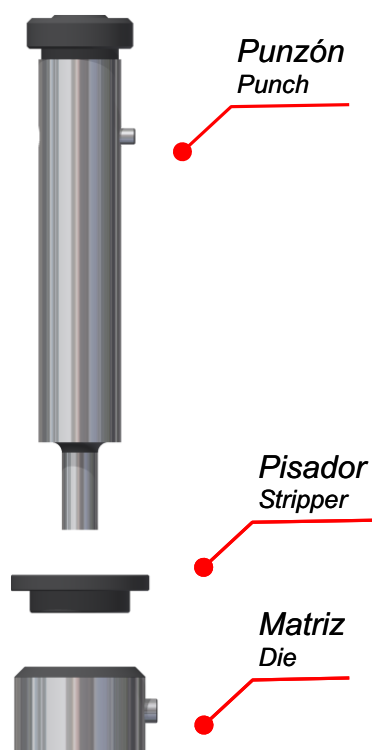
MT-20/24 Ø8

- Figura máxima inscrita en Ø8mm
- Maximum shape inscribed in Ø8mm



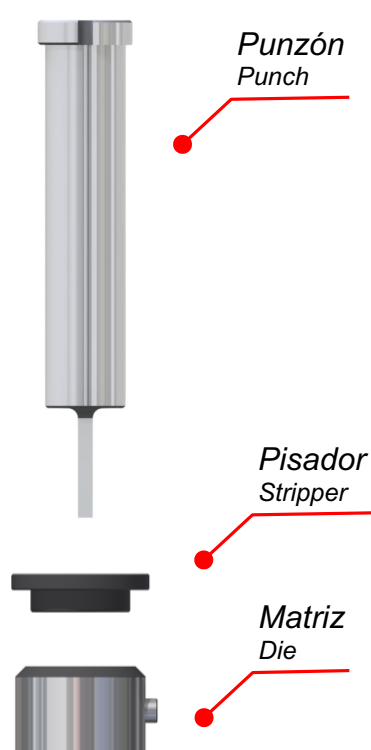
MT-8 Ø16

- Figura máxima inscrita en Ø16mm
- Maximum shape inscribed in Ø16mm



MT-8i Ø16

- Figura máxima inscrita en Ø16mm
- Maximum shape inscribed in Ø16mm



- Los avellanadores se componen de punzón+pisador+matriz
- The countersinks are composed of punch+stripper+die
- Es necesario un taladro previo al avellanado
- It is necessary pre-punch before countersink

Avellanadores hacia abajo *Down direction countersink*

*Todos los tipos y MT (previo estudio)

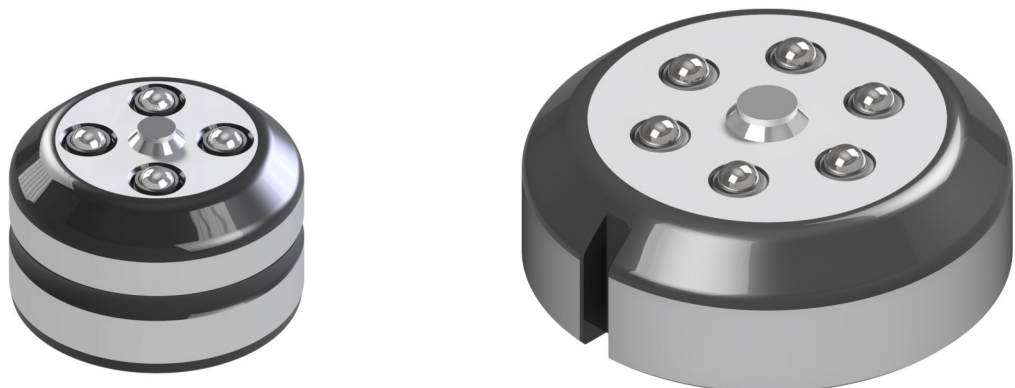
* All types and MT (previous study)



Avellanadores hacia arriba *Up direction countersink*

* tipo B - C - D - MT6/8 Ø24 (previo estudio)

* Type B - C - D - MT6/8 Ø24 (previous study)



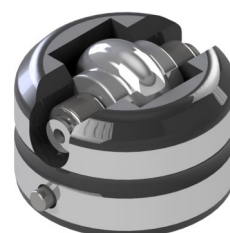


Tipo B Embutidor
Type B Form Tool

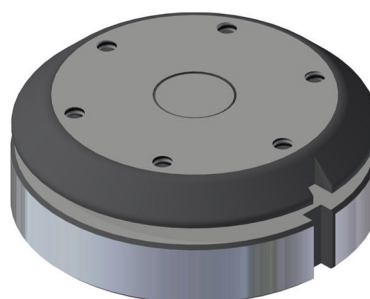


Tipo B Roller
Type B Roller Tool

Roller Nervio
Rib Roller
Roller Incisor
Incisor Roller
Roller Reborde
Offset Roller
Roller Escritura
Marking Roller



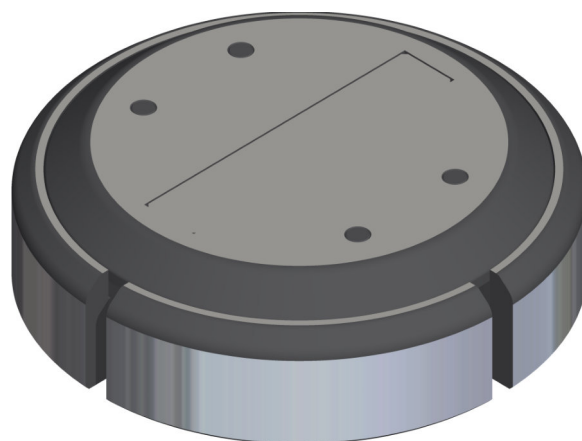
Tipo C Embutidor
Type C Form Tool



- Todos los embutidores requieren un estudio previo.
- All form tools needs previous study.
- Figuras embutidas estándar ver pág. 21-22.
- Standard forms look at page 21-22.
- La imagen mostrada es un ejemplo de embutidor.
- The image show is an example of form tool.



Tipo D Embutidor
Type D Form Tool



Tipo LOGOS
Type MARK Tool



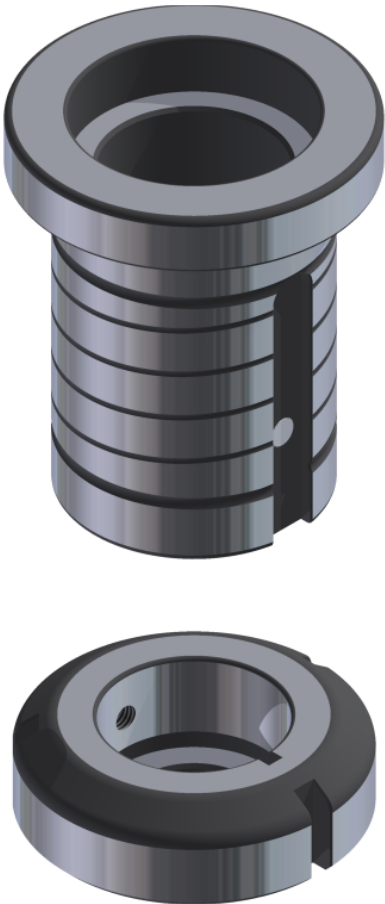
- Alto relieve y estampado.
- High relief and marking.
- Dirección tanto hacia arriba como hacia abajo.
- Up and down direction of form.
- Tamaño de tipo dependiendo del logo o forma.
- Size of type depending of the mark.

- Todos los embutidores requieren un estudio previo.
- All form tools needs previous study.
- Figuras embutidas estándar ver pág. 21-22.
- Standard forms look at page 21-22.
- La imagen mostrada es un ejemplo de embutidor.
- The image show is an example of form tool.

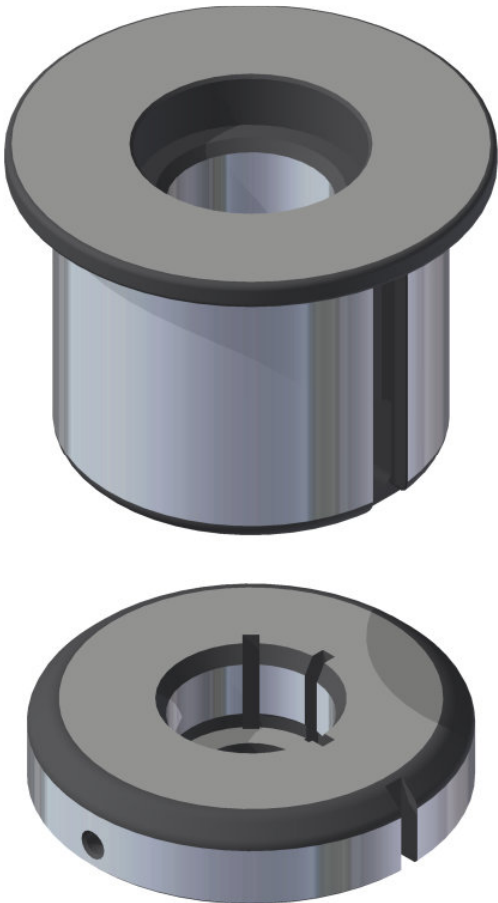
Reductora de B a A
Adapter of B to A



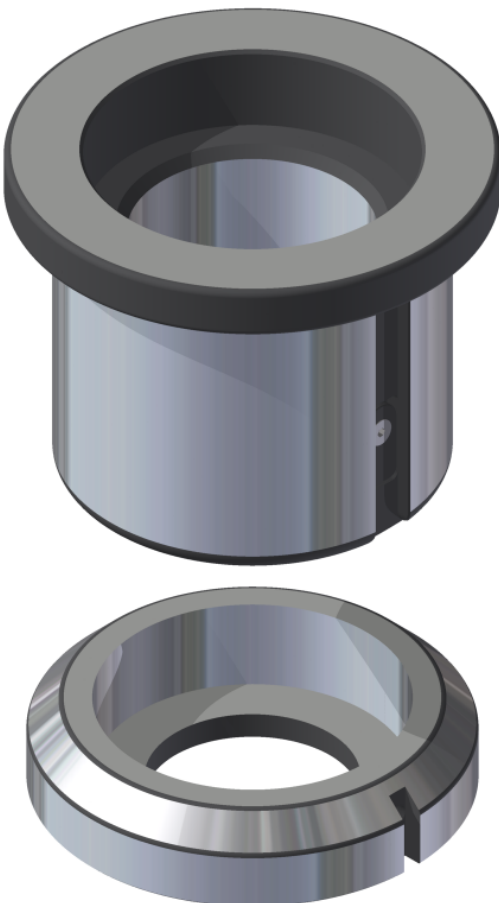
Reductora de C a B
Adapter of C to B



Reductora de D a B
Adapter of D to B

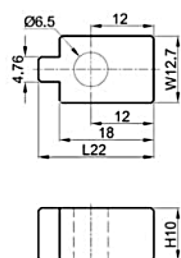


Reductora de D a C
Adapter of D to C

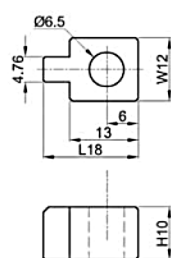


THICK TURRET

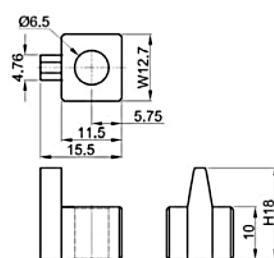
**Estación A y B
Superior
Station A & B
Upper Key**



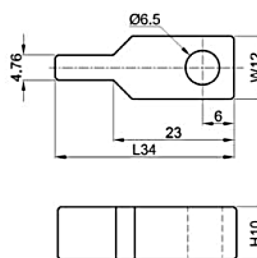
**Estación B
Superior Index
Station B
Upper Index Key**



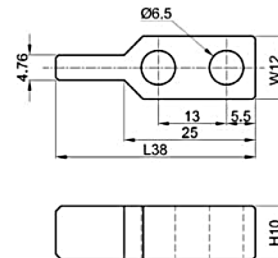
**Estación A y B
Superior EM 30tn
Station A & B
Upper Key EM 30tn**



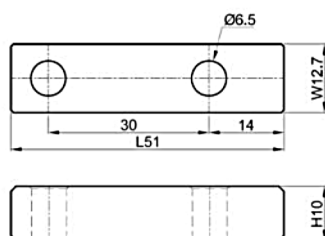
**Estación A y B
Superior 100 Orbit
Station A & B
Upper Key 100 Orbit**



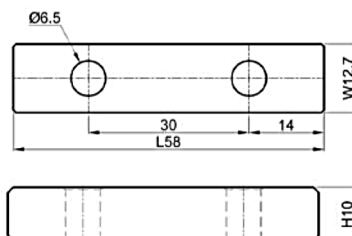
**Estación A y B
Superior 300 Orbit
Station A & B
Upper Key 300 Orbit**



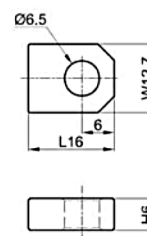
**Estación C
Superior 30ST
Station C
Upper Key 30ST**



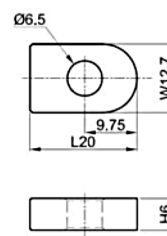
**Estación C
Superior 58ST
Station C
Upper Key 58ST**



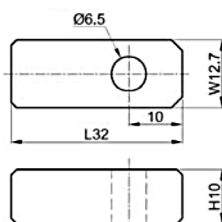
**Estación D
Superior mod.1
Station D
Upper Key mod.1**



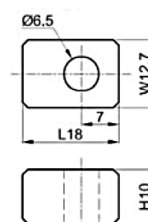
**Estación D
Superior mod.2
Station D
Upper Key mod.2**



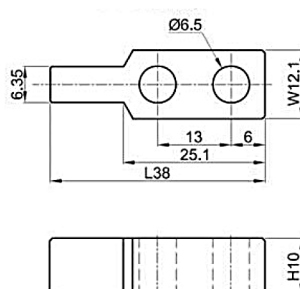
**Estación E
Superior mod.1
Station E
Upper Key mod.1**



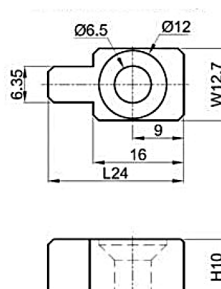
**Estación E
Superior mod.2
Station E
Upper Key mod.2**



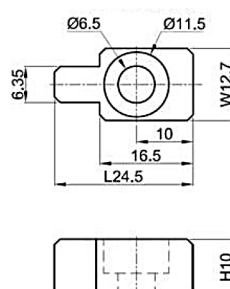
**Estación C
Inferior
Station C
Lower**



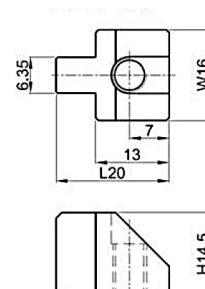
**Estación C / D / E
Inferior
Station C / D / E
Lower**

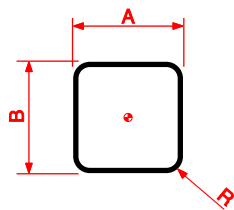


**Estación D
Inferior mod.1
Station D
Lower Key mod.1**

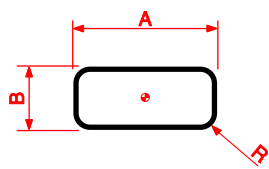


**Estación D
Inferior mod.2
Station D
Lower Key mod.2**

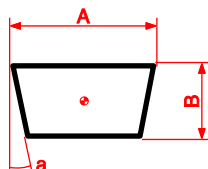




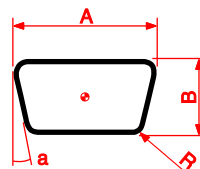
B1



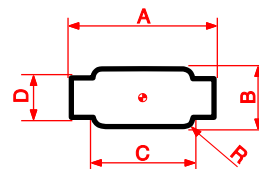
B2



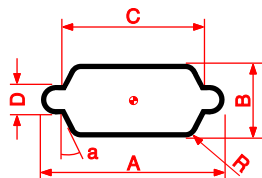
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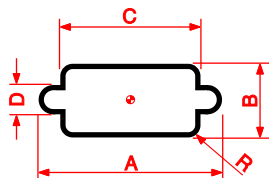
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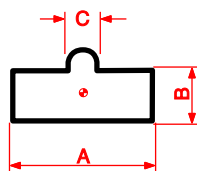
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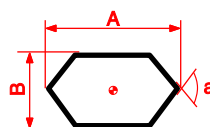
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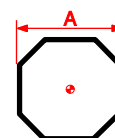
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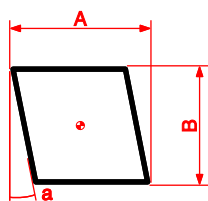
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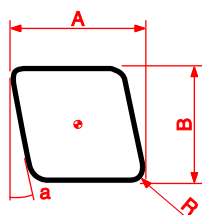
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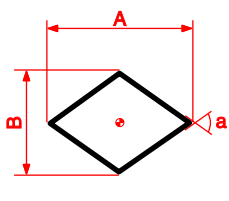
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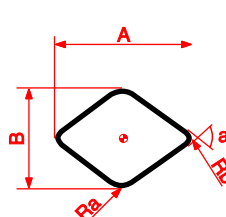
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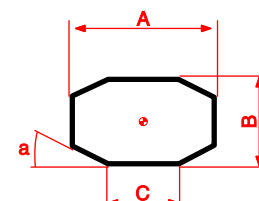
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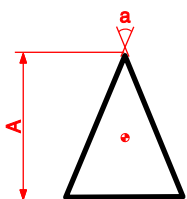
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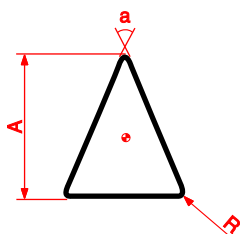
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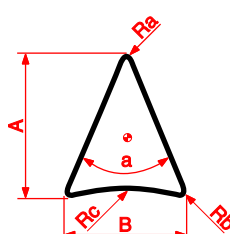
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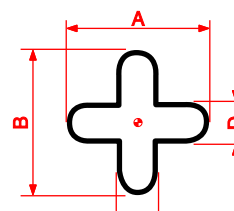
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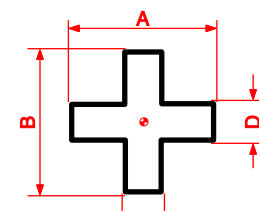
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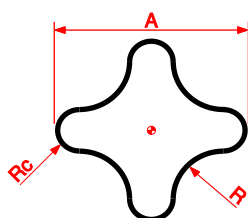
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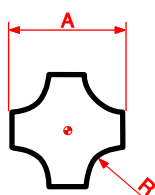
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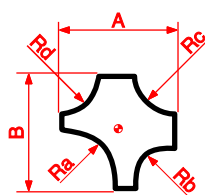
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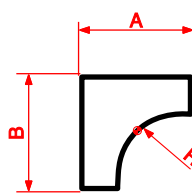
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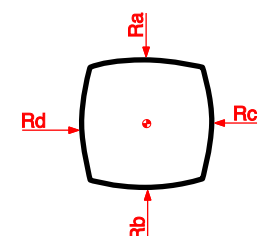
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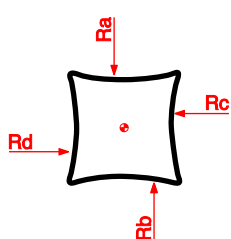
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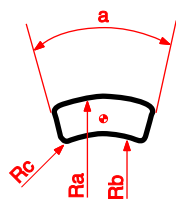
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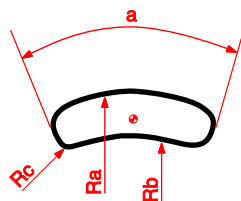
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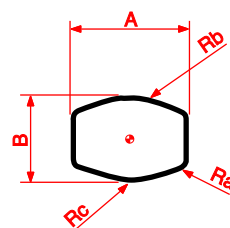
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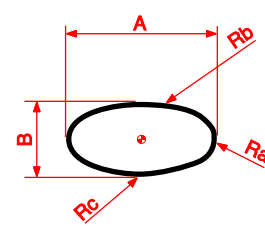
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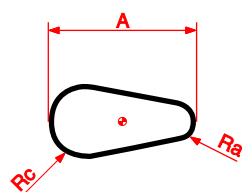
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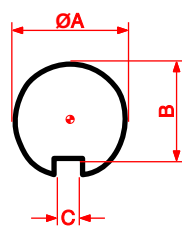
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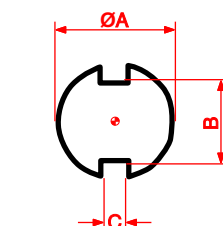
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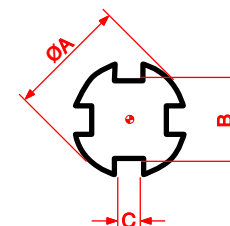
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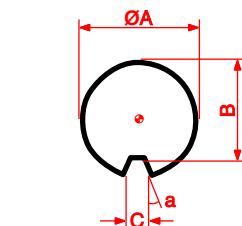
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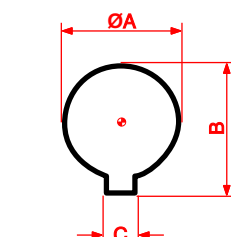
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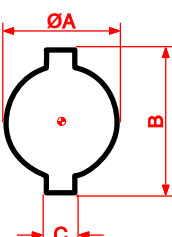
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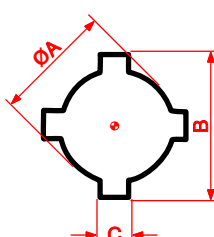
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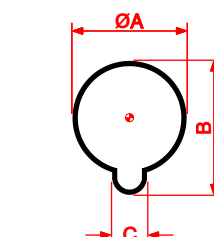
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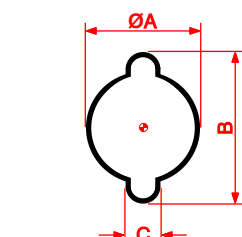
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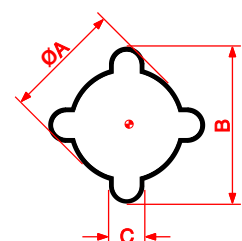
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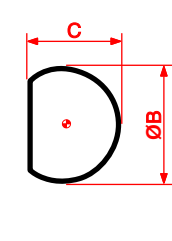
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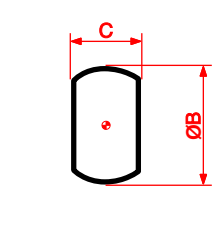
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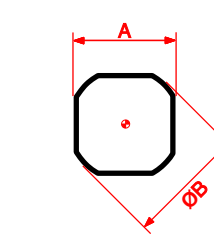
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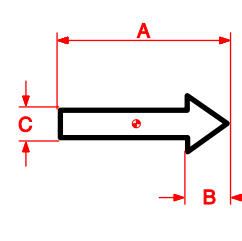
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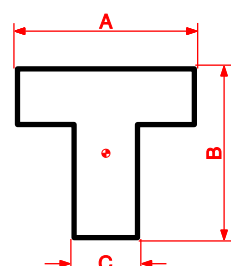
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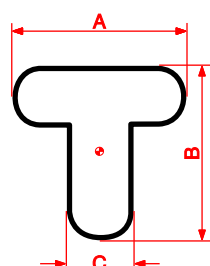
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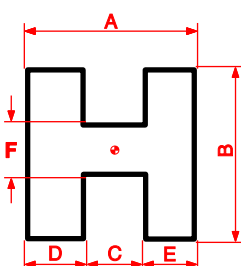
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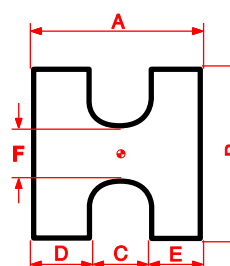
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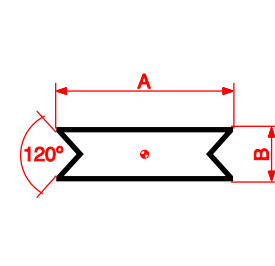
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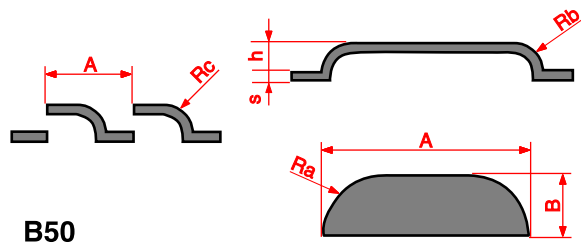
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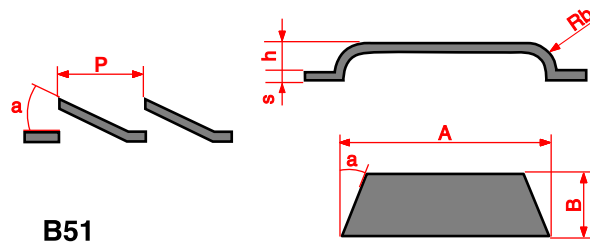
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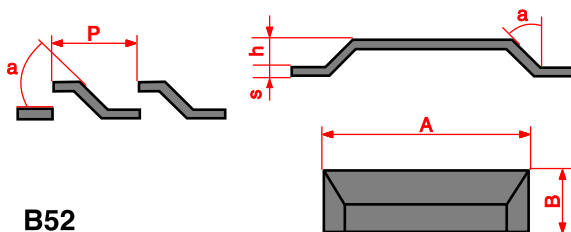
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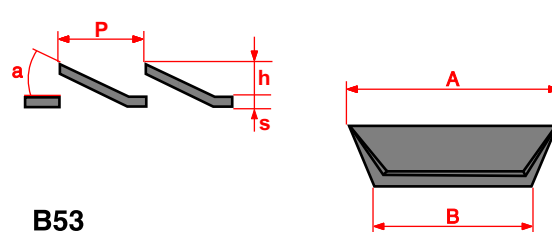
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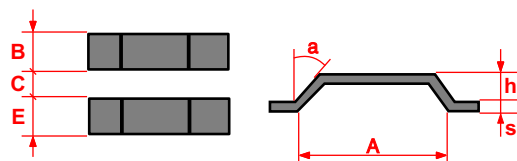
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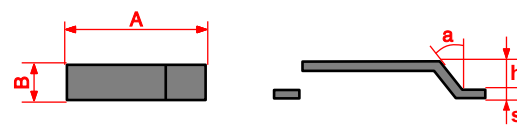
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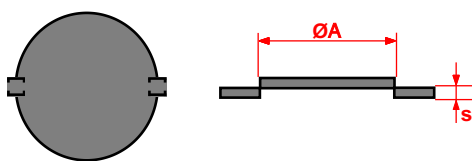
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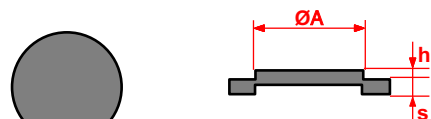
B54



B55



B56*

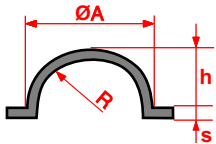
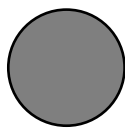


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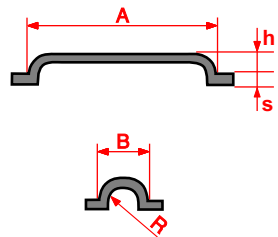
***Simple o Doble**

**Single or double*

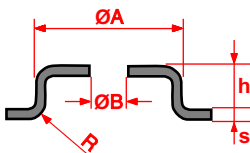
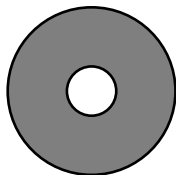
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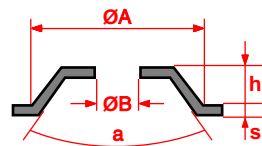
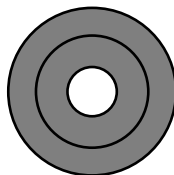
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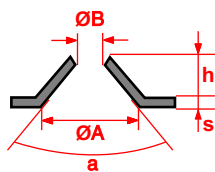
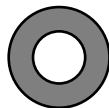
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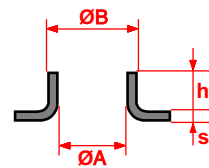
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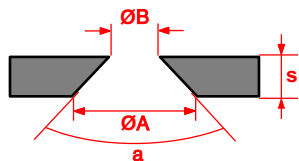
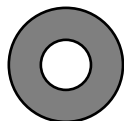
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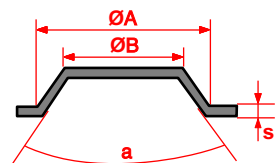
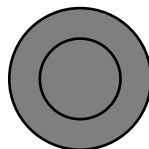
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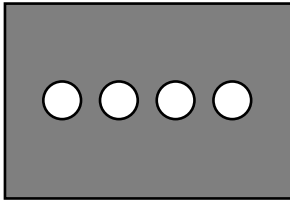


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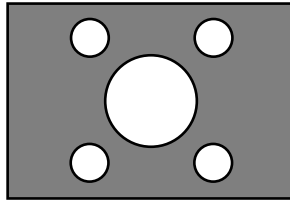


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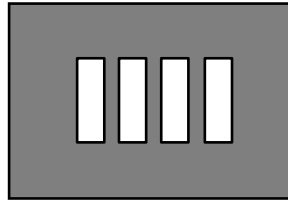




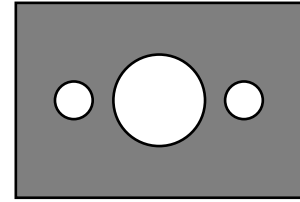
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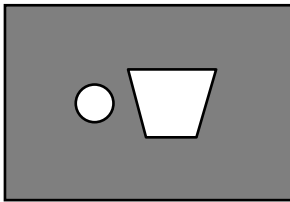
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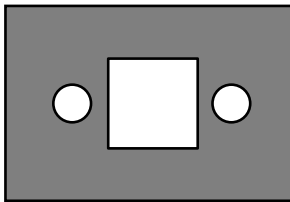
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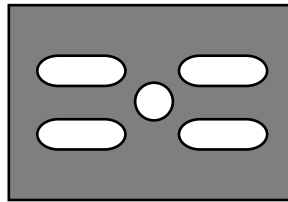
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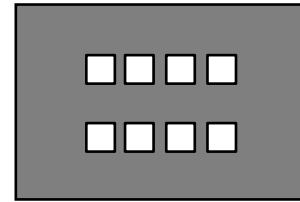
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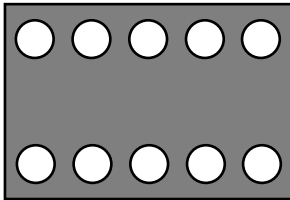
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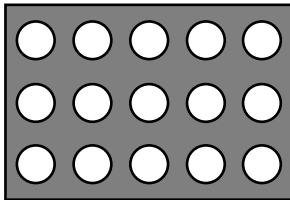
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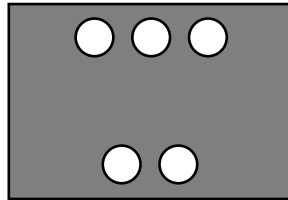
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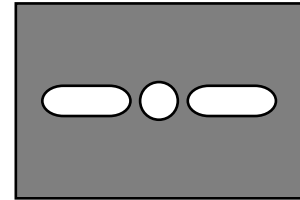
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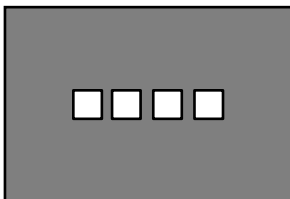
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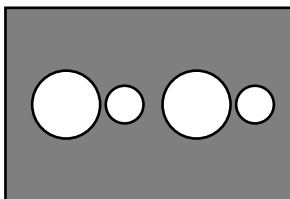
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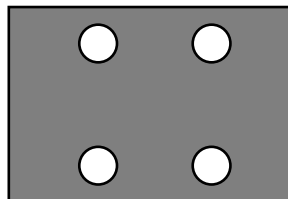
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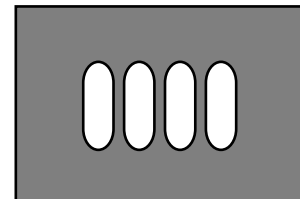
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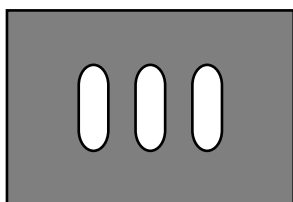
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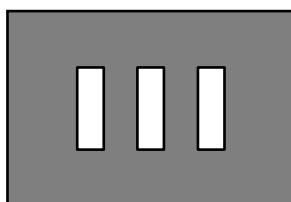
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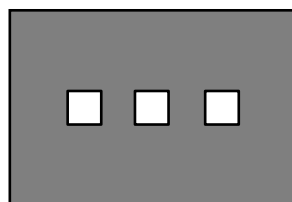
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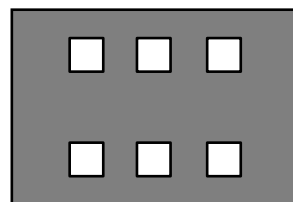
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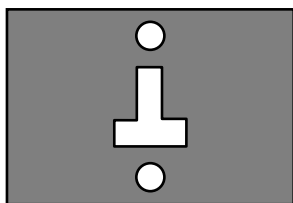
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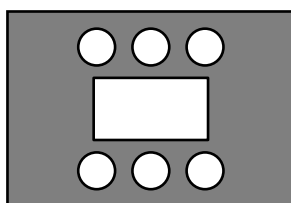
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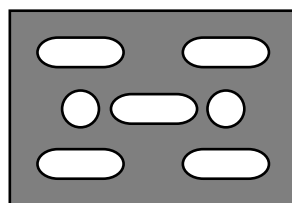
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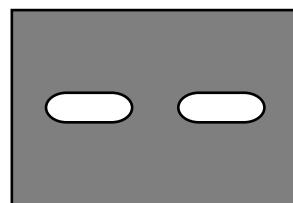
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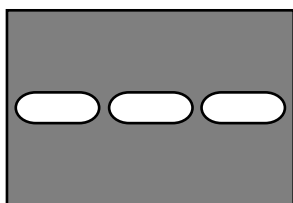
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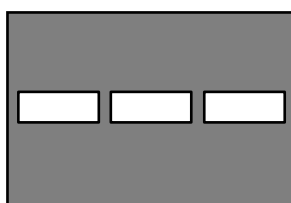
B122



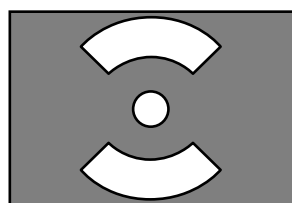
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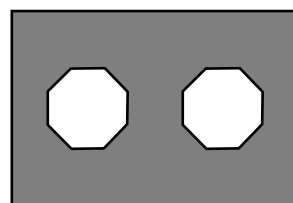
B124



B125



B126



B127

TOLERANCIAS (mm) entre PUNZÓN y MATRIZ
CLEARANCE (mm) between PUNCH & DIE

Espesores en mm. Thickness in mm	Hierro / Fe Mild Steel	Ac. Inox Stainless Steel	Aluminio Aluminium	Cobre / Latón Copper / Brass
	Tolerancia Clearance R	Tolerancia Clearance R	Tolerancia Clearance R	Tolerancia Clearance R
0,5 - 0,6	0,08 - 0,10 0,10	0,10 - 0,12 0,12	0,06 - 0,08 0,08	0,05 - 0,06 0,06
0,8	0,14 - 0,15 0,15	0,15 - 0,20 0,20	0,10 - 0,14 0,10	0,08 - 0,10 0,08
1,0	0,16 - 0,20 0,20	0,18 - 0,24 0,24	0,12 - 0,16 0,14	0,10 - 0,14 0,12
1,2	0,20 - 0,24 0,24	0,25 - 0,30 0,26	0,15 - 0,20 0,16	0,12 - 0,15 0,14
1,5	0,25 - 0,30 0,30	0,27 - 0,35 0,34	0,18 - 0,24 0,22	0,15 - 0,20 0,18
2,0	0,34 - 0,40 0,40	0,36 - 0,45 0,45	0,24 - 0,30 0,26	0,20 - 0,25 0,24
2,5	0,45 - 0,50 0,50	0,46 - 0,55 0,55	0,32 - 0,35 0,35	0,25 - 0,30 0,28
3,0	0,50 - 0,60 0,60	0,60 - 0,70 0,65	0,35 - 0,45 0,40	0,30 - 0,40 0,36
4,0	0,65 - 0,80 0,80	0,70 - 0,95 0,90	0,45 - 0,60 0,55	0,40 - 0,50 0,48
5,0	0,85 - 1,00 1,00	0,90 - 1,15 1,10	0,60 - 0,80 0,70	0,55 - 0,65 0,60
6,0	0,95 - 1,20 1,20	1,10 - 1,40 1,35	0,75 - 0,95 0,85	0,70 - 0,85 0,72

R Recomendable
Recommended

RESISTENCIA AL CORTE
TENSILE STRENGTH
Kg x mm²

Hierro Fe Mild Steel	Hierro Fe Mild Steel	Acero Inox. Stainless Steel	Aluminio Aluminium	Cobre Copper	Latón Brass
40 (0,1 % C)	50 (0,2 % C)	70	20	32	40

FÓRMULA PARA EL CÁLCULO DE TONELAJE (T)
TONNAGE CALCULATION FORMULA (T)

$$\frac{P \cdot n \cdot t \cdot Rc}{1000}$$

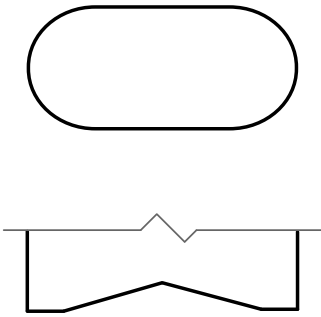
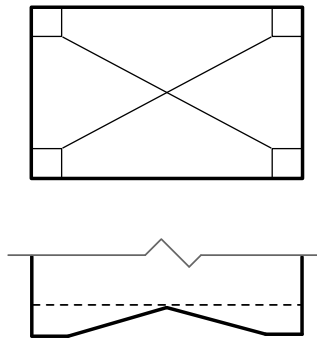
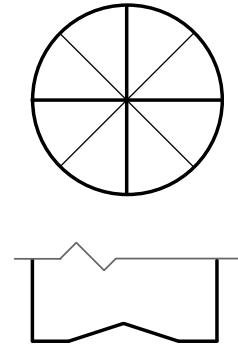
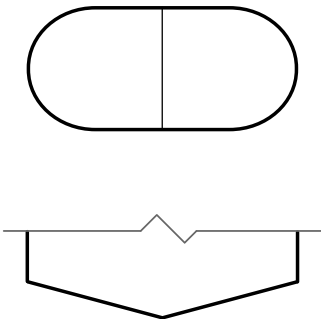
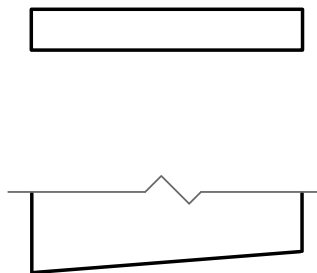
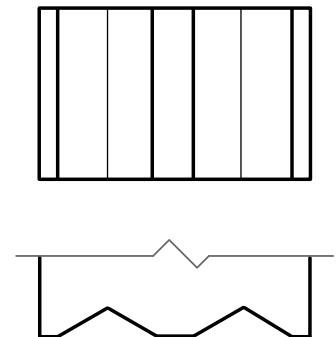
P = Perímetro (mm)
Perimeter (mm)

n = Número de punzones
Number of punches

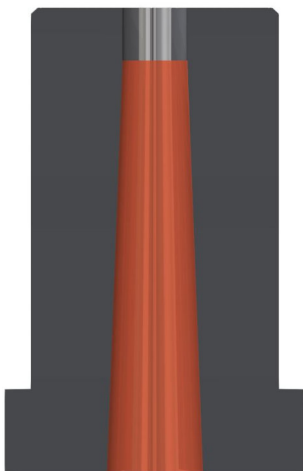
t = Espesor de chapa (mm)
Sheet Thickness (mm)

Rc = Resistencia al Corte (Kgxmm²)
Tensile strength (Kgxmm²)

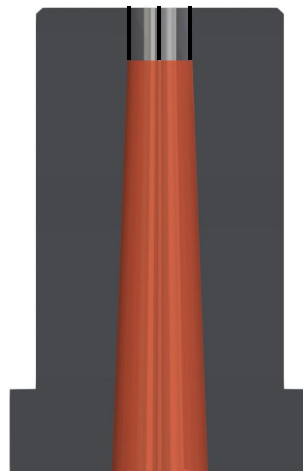
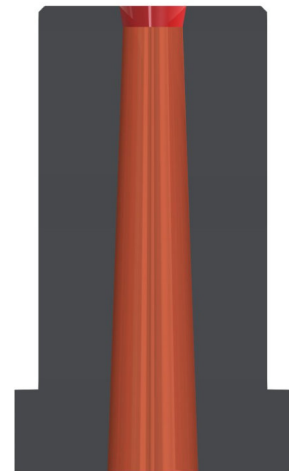
Rectificado de Punzón

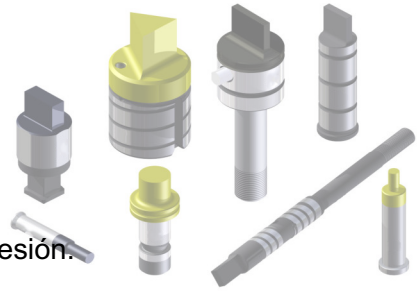
A**B****C****D****E****F**

Tipo de Matriz

RR

Matriz Estándar

R2CMatriz de Retención
por FilamentosMatriz de Retención
por Dos Conos



DUR-TiN

- COLOR / COLOR: Amarillo oro / Yellow gold
- APLICACIONES / APPLICATIONS: General / General
- PROPIEDADES / PROPERTIES: Reduce el desgaste por abrasión y adhesión.
Reduces wear by abrasion and accession.

DUR-ALUM

- COLOR / COLOUR: Gris negro / Black grey
- APLICACIONES / APPLICATIONS: Aluminios, latón y derivados / Aluminium, brass and derivative
- PROPIEDADES / PROPERTIES: Reduce el desgaste por adhesión.
Reduces wear by accession.
Bajo coeficiente de fricción.
Low coefficient of friction.
Buenas propiedades de deslizamiento.
Good slip properties.

DUR-INOX

- COLOR / COLOUR: Gris violeta / Purple grey
- APLICACIONES / APPLICATIONS: Fe, galvanizados, Ac. inoxidables / Fe, Fe. galvanized and stainless steel
- PROPIEDADES / PROPERTIES: Relación optimizada entre dureza y tensión residual compresiva.
Optimized ratio between hardness and compressive residual stress.
Desgaste uniforme.
Uniform wear.
Buenas propiedades de deslizamiento.
Good slip properties.

DUR-EXTREM

- COLOR / COLOUR: Gris azulado / Bluish grey
- APLICACIONES / APPLICATIONS: General; recomendado para Ac. Inoxidable.
General; recommended to stainless steel.
- PROPIEDADES / PROPERTIES: Resistencia al desgaste muy elevada y excelente dureza en caliente.
Very high wear resistance and excellent hot hardness.
Muy buena estabilidad al choque térmico.
Very good stability to thermal shock.
Velocidad de corte notablemente más altas.
Higher cutting speed.

DUR-EXTREM PLUS

- COLOR / COLOUR: Cromo / Chrome
- APLICACIONES / APPLICATIONS: General; especialmente indicado para Ac. Inoxidable.
General; especially suitable to stainless steel.
- PROPIEDADES / PROPERTIES: La mayor dureza superficial.
The higher surface hardness.
Menor tendencia al calor.
Less heat tendency.
Mayor protección especialmente en los bordes contra el inicio y propagación de grietas.
Increased protection especially in the edges against the beginning and propagation of cracks.
Puede prolongar la vida útil del punzón hasta un 100%
Can explode punch life up to 100%.

AFILADO DE LOS PUNZONES

Como norma general, no se debería permitir que los punzones llegasen a necesitar un afilado mayor de 0,10 mm. Y sería óptimo rectificar en pasadas suaves (Z) de entre 0,01 y 0,02 mm. Estos parámetros indicarían un correcto mantenimiento de los punzones.

Para punzones con recubrimientos especiales: DUR-TiN, DUR-ALUM, DUR-INOX, DUR-EXTREM y DUR-EXTREM PLUS emplear los mismos indicadores; y dependiendo de la máquina que se utilice, rectificar con las más altas revoluciones de muela posibles y con avances entre 2.500 y 4.000 mm/min.

Una vez hecho el afilado del punzón, comprobar que la zona perimetral del corte ha quedado completamente limpia y no presenta gripado por adhesión de partículas del material punzonado, en caso de estas, limpiar esa zona con papel de lija fino hasta dejarla pulida.

SHARPENED OF PUNCHES

As general norm, it's not recommended sharpening punches more than 0,10mm. The correct form to sharp is doing it with smooth feeds (z) about 0,01 and 0,02mm. It will be the correct maintenance of the punches.

For punches with special coatings: DUR-TiN, DUR-ALUM, DUR-INOX, DUR-EXTREM and DUR-EXTREM PLUS, use the same indicators; using the highest revolutions of the grinding wheel for shapening, with feed rates between 2.500 and 4.000 mm/min.

Once realised the sharpened of the punch, verify that the peripheral zone of the cut is completely clean and if it's necessary polish the surface with a lightly stone.

Important: to avoid the heating of the pieces during the sharpening, always use a suitable coolant.

AFILADO DE MATRICES

Manteniendo las matrices en corte vivo, alargará la vida de los punzones, pues éstos no tendrán que embutir la chapa antes de ser cortada, se evitarán rebabas, ruido excesivo y se dejará una calidad correcta en el corte.

Sirven los mismos parámetros de muela, avances y pasadas tanto en el punzón como en la matriz; y antes de dar por bueno el afilado de la matriz, comprobar que en la parte interior del perímetro de corte, no han quedado restos de partículas de chapa adheridas, que vayan a friccionar con el puzón al iniciar de nuevo el trabajo.

Evitar el calentamiento de las piezas, usando siempre un refrigerante adecuado o taladrinas.

La energía producida por la fricción de la muela con los aceros, hará que estos hayan quedado ligeramente imantados; desmagnetizar las herramientas antes de iniciar el trabajo.

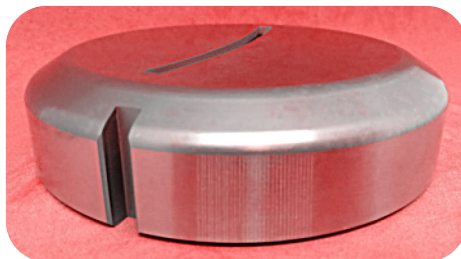
SHARPENED OF DIES

The correct maintenance of the dies will extend the life of punches, because these will not emboss the sheet before being cut, it will avoid burrs and excessive noise, and it give a correct quality of the cut.

For sharpening dies used the same procedures that with punches, feed rates and griding wheel, verify that the cut zone is completely clean of burrs and if it is necessary polish it to assure the correct work of the punch.

To avoid the heating of the pieces, always use a suitable coolant.

Demagnetize the resharpened tools before to start works.



Servicio y Reparación

El servicio de reparación y ajuste de TC consiste en la comprobación, reparación, ajuste o modificación de cualquier componente fijo, móvil y/o accesorios de todo tipo de grupos de punzonado, matricería e incluso componentes de máquina sin importar marca y modelo.

Comprobación

Revisión de todos los elementos, comprobación de los mismos (medidas, chavetas, tornillo, etc.)

Reparación

Sustitución de cualquier elemento que interfiera en el buen funcionamiento del grupo, tanto por desgaste como por rotura.

Ajuste

Ajustamos los grupos para su correcto funcionamiento modificando alturas, recorridos, etc.

Modificación

Estudiamos la posibilidad de modificaciones y cambios en grupos de punzonado y matricería, realizando elementos nuevos y/o modificando los ya existentes.

Service & Repair

Tc's adjustment and repair consist of checking, repairing, adjusting, or modifying any fixed and mobile component and / or accessories of all types of punch groups, dies and even machine components of all brands.

Verification

Review all elements, checking them (measurements, keys, screws, ...).

Repair

Replacement of any element that interferes with the proper fuction of group for breakage and / or attrition.

Adjustement

We adjust the groups for their correct operation by modifying heights, courses, ...

Modification

We study the possibility of modifications and changes of punch groups and tooling, making new elements and / or modifying existing ones.

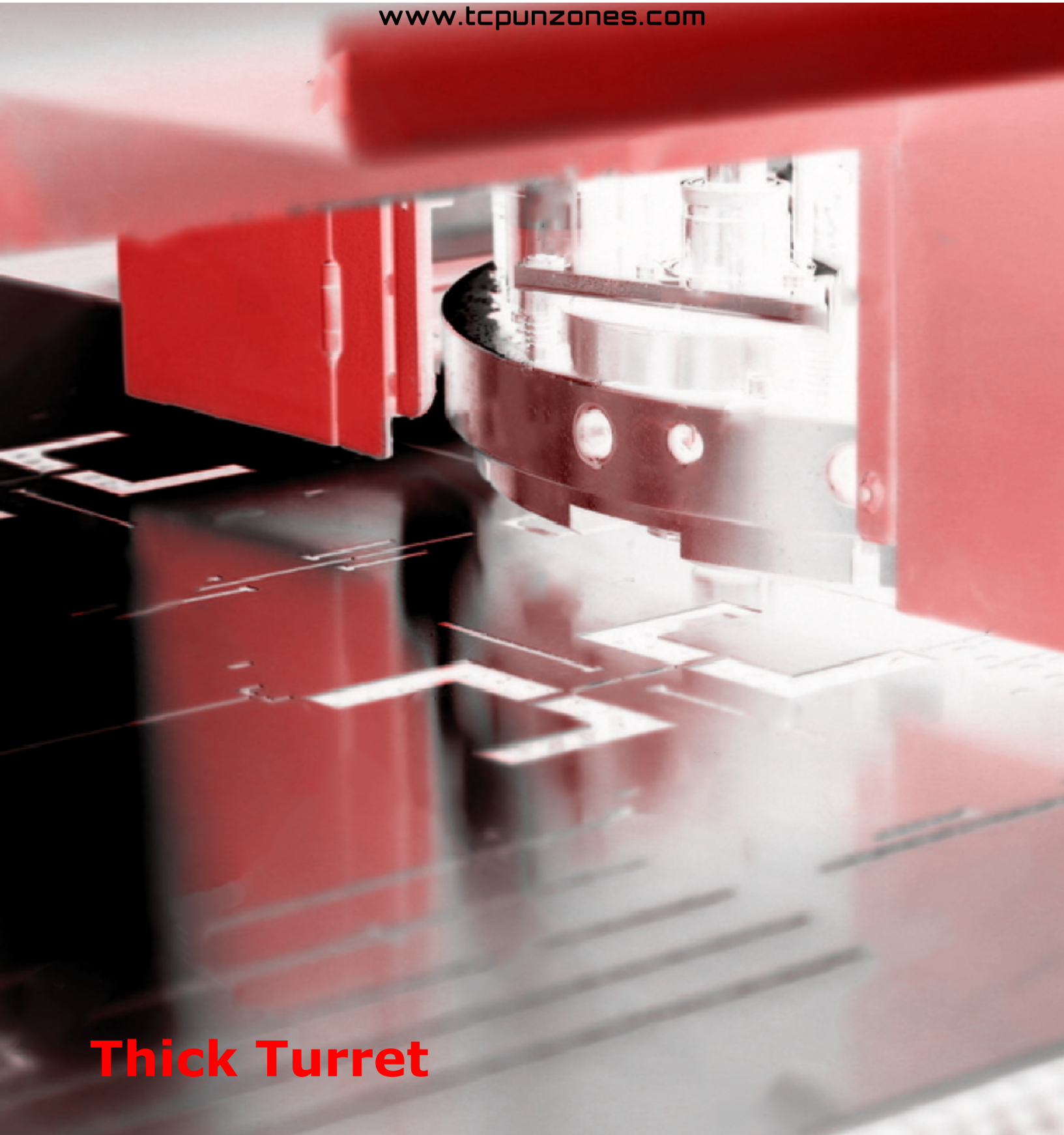


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