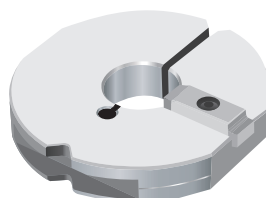




- ✓ Standard
- ✓ Especial
- ✓ Multifuros
- ✓ Multitools
- ✓ Acessórios



SOBRE A TRÊS-S

A Três-s Ferramentas de Precisão foi fundada em 1969, líder de mercado na produção de pinos retificados.

Desde o começo a empresa investiu em equipamentos e tecnologia de ponta para se tornar a principal fabricante de ferramentas para os setores de estamparia e injeção plástica do país.

Contamos com certificação ISO 9001 e uma equipe altamente treinada e qualificada, buscando sempre trazer inovações e melhorias através de um rigoroso controle no recebimento de matéria prima e no processo produtivo, com inspeção dimensional, visual e acabamentos.

Em 2020 inauguramos um novo e moderno parque fabril, que faz parte de um programa de expansão de nossas atividades. Nossa nova estrutura permite a melhoria de nossa eficiência e capacidade produtiva e pronta para atender com a melhor qualidade nossos clientes.

Agradecemos a confiança e temos total convicção que podemos evoluir ainda mais, melhorando sempre nosso atendimento e a qualidade Três-S que você já conhece.



E-COMMERCE



Desenvolvido para oferecer uma experiência mais moderna e qualificada, com informações cada vez mais claras e pertinentes para a sua tomada de decisão. O novo site da Três - S conta com uma estrutura de e-commerce, onde será possível realizar uma experiência cada vez mais próxima, será uma plataforma interativa onde será possível adquirir nossos produtos.



Linkedin



Instagram

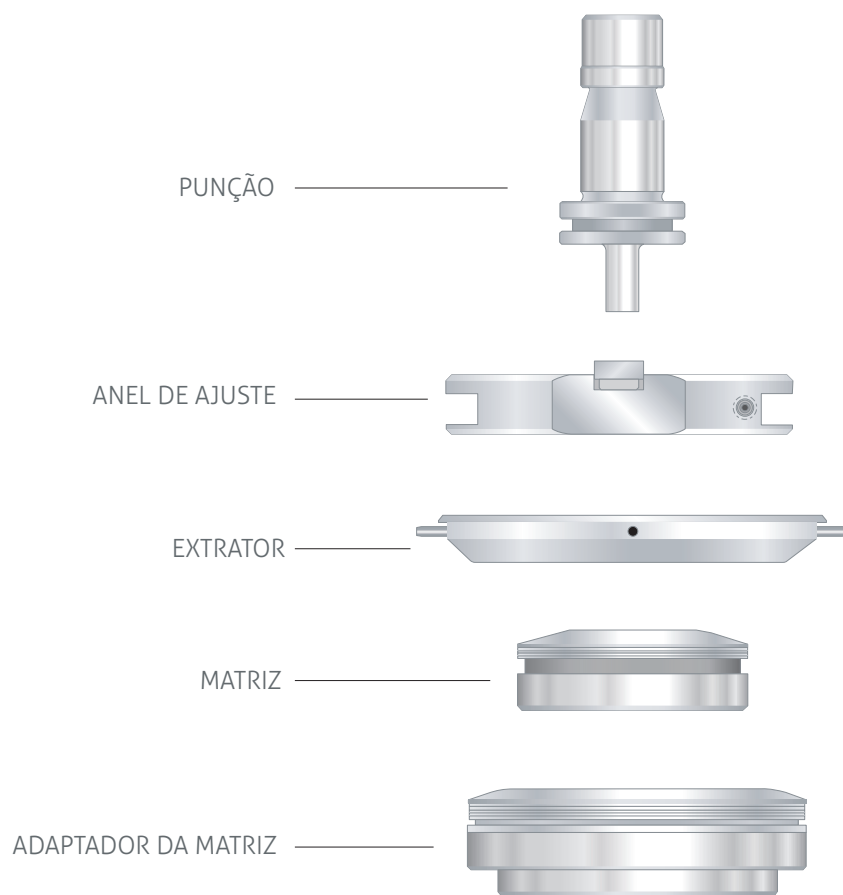


tres-s.com.br



Whatsapp

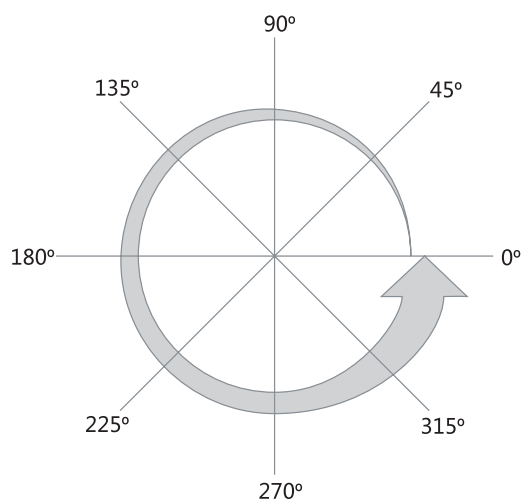
INFORMAÇÕES TÉCNICAS



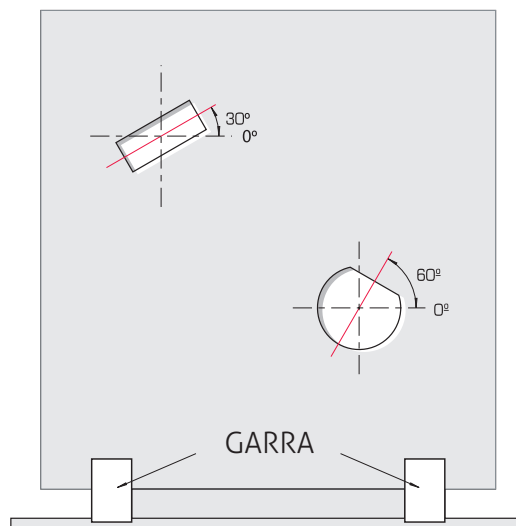
GRUPO DE MÁQUINAS

A	B	C	D	E	F	G	H	I	S
CN 700	CN 901E	CN 1200S	TRUMATIC	SUNIMAT	TRUMATIC	TRUMATIC	TRUMATIC	TRUMATIC	MINIMATIC
CN 900	CN 902	CN 1200A	20	400	150W	20aW	190R	2000R	100
CN 701	CS 75	CS 15	20a	TRUMATIC	152W	202W	200R	2010R	TRUMATIC
CN 901	CS 75.2	CS 20	202M	150K	180W	300W	500R	2020R	120R
		CS 20a		151K	180.2W	300LW	600L	5000R	
		MP 25		152K	180R	300PW		6000L	
		MP 25D		180K	180LW	300top		3000	
				180.2K	180.2LW	400W		1000	
				180KD	ELX/SWIFT				
				180LK	185				
				180.2LK	240				
				202K	240R				
				225K	250				
				235K	260R				
				300K					
				300LK					
				300PK					
				400K					

INFORMAÇÕES TÉCNICAS

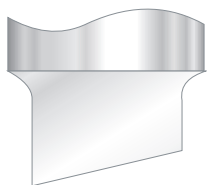


POSIÇÃO DA CHAVETA

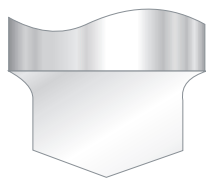


POSIÇÃO DA CHAVETA NA CHAPA
VISTA DE CIMA DA MÁQUINA

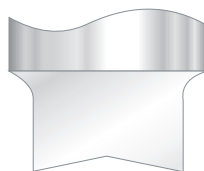
TIPO DE AFIAÇÃO



WHISPER 1X



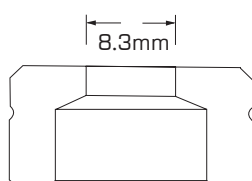
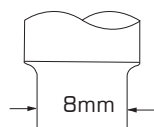
WHISPER 2X



WHISPER 2X
INVERTIDO



CORTE J.K



.8. 3-8mm = 0.3mm = Total de Folga

Folga total recomendada

Espessura do Material	Folga para alumínio	Folga para aço carbono	Folga para aço inoxidável
1.00	0.15	0.20	0.20
1.50	0.23	0.30	0.40
2.00	0.30	0.40	0.50
3.00	0.60	0.75	0.90
4.00	0.80	1.00	1.20
5.00	1.00	1.25	1.75
6.35	1.60	2.00	2.22

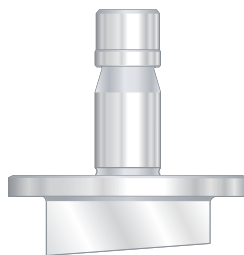
FERRAMENTAS STANDARD



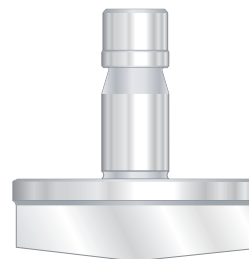
Postiço



Punção Flat



Punção Whisper 1x



Punção Whisper 2x

PUNÇÃO	
TAMANHO	Dimensão
TMO (6,0)	1.20-6.00mm
TMO (10,5)	6.01-10.50mm
TM1 (30)	1.20-30.00mm
TM2 (40)	30.01-40.00mm
TM2 (50)	40.01-50.08mm
TM2 (63)	50.81-60.00mm
TM2 (76)	60.01-76.2mm



Matriz TM1 (~30+2mm)



Matriz TM2 (30.01~76.2+2mm)

Extrator

Chaveado

Grupo H/I



Extrator para grupo H/I

FORMAS PADRÕES



Retângulo



Oblongo



Quadrado



Singular



Duplo



Quadrângulo



Hexagonal



Octagonal

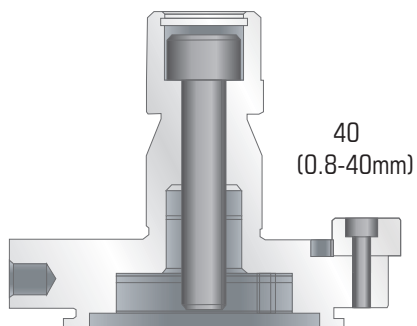


Diamante

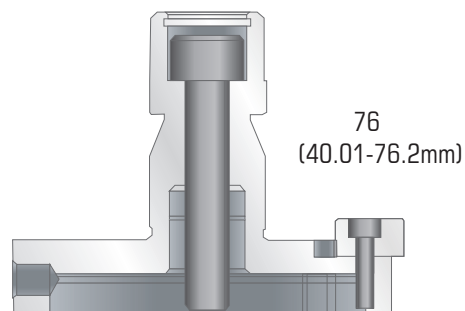


Triângulo

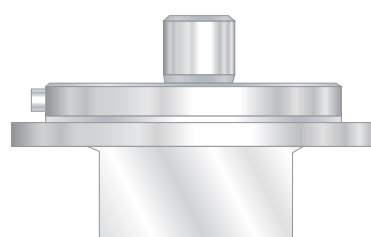
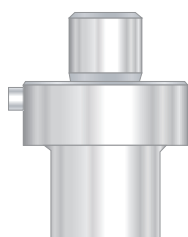
SISTEMA PARA SÉRIE (2.4.1)



Suporte, código: T4-PH



Suporte, código: T7-PH



Tamanho	4A 2.36-30.00mm	4B 30.01-40.00mm	7A 40.01-56mm	7B 56.01-66mm	7C 66.01-76.2mm
---------	--------------------	---------------------	------------------	------------------	--------------------

Inserção Matriz



Tamanho	Size 4 2.36-40.00mm	Size 7 40.01-56mm
---------	------------------------	----------------------

Suporte Matriz



Tamanho	4 2.36-40.00mm	7 40.01-56mm
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FORMAS PADRÕES



Retângulo



Oblongo



Quadrado



Singular



Duplo



Quadrângulo



Hexagonal



Octagonal

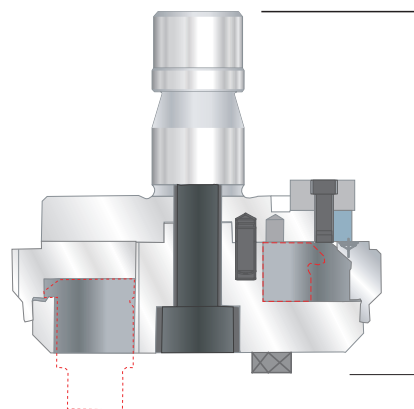


Diamante



Triângulo

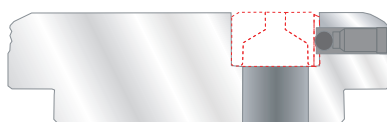
MULTITOOLS 5 ESTAÇÕES (Diagonal máximo 16mm)



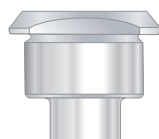
Punção Suporte



Extrator



Matriz Suporte



Punção - Inserto

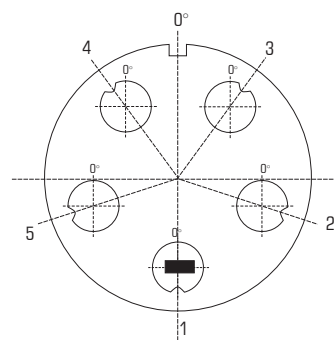
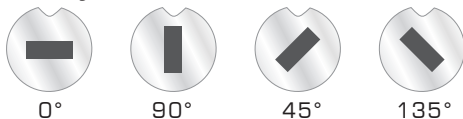


Matriz - Inserto

Posição de Perfil



Posição de matriz



Ângulo de ajuste

FORMAS PADRÕES



Retângulo



Oblongo



Quadrado



Singular



Duplo



Quadrângulo



Hexagonal



Octagonal

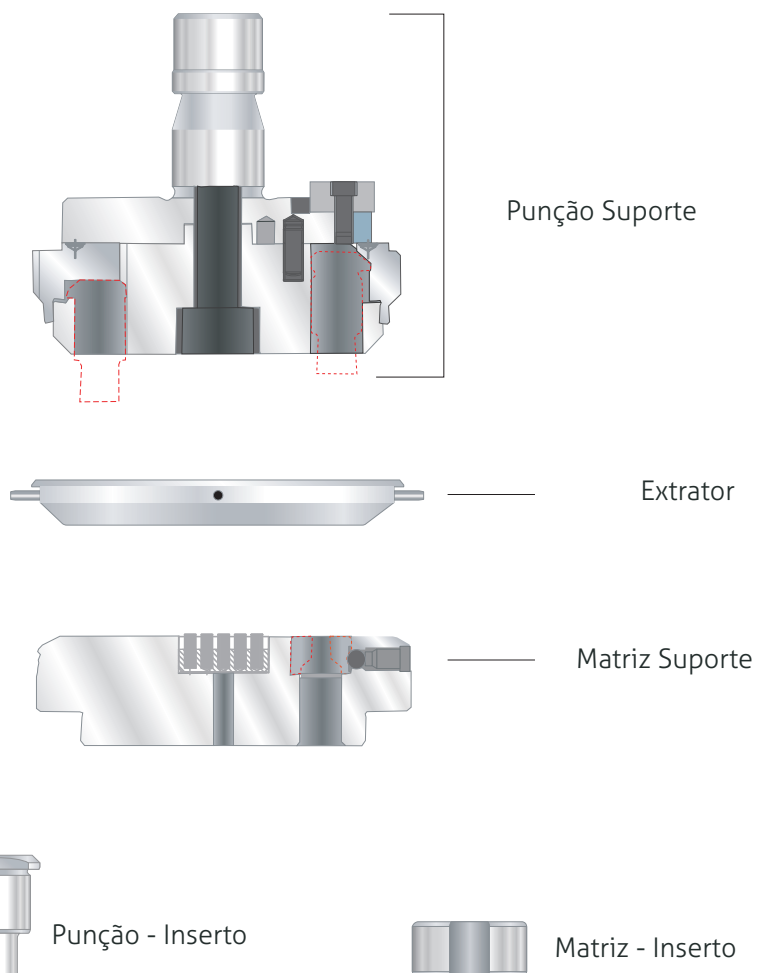


Diamante

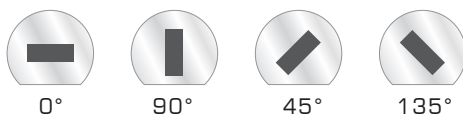


Triângulo

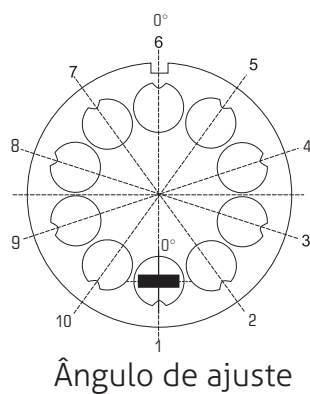
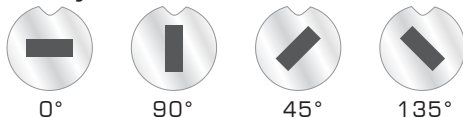
MULTITOOLS 10 ESTAÇÕES (Diagonal máxima 10,5mm)



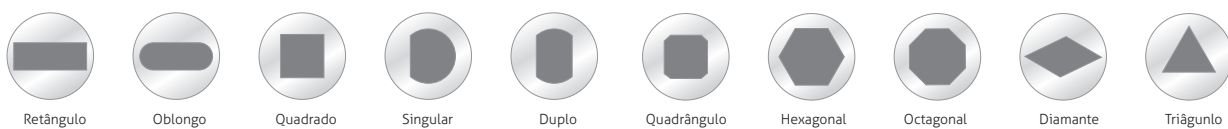
Posição do Perfil



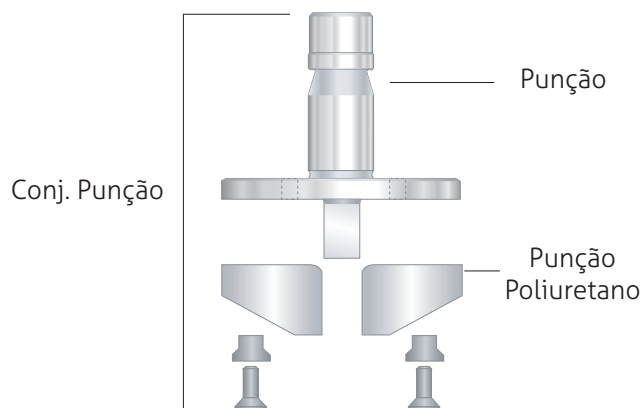
Posição da matriz



FORMAS PADRÕES

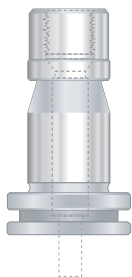


FERRAMENTA DE CORTE COM POLIURETANO



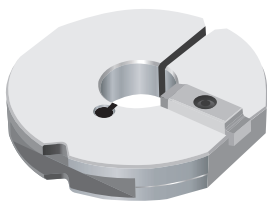
Ferramenta com Poliuretano

- *Faixa de largura : 10mm - 60mm
- *Faixa de comprimento : 76.2mm
- *Extrator é padrão
- *Matriz é padrão



Porta Postiço

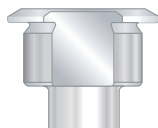
- TMO (6.0mm)
- TMO (10,5mm)



Anel de ajuste E/F/H/I

Tipo

- C/Rebaixo
- S/Rebaixo



Punção MTR 4



Matriz MTR 4



Punção MTR 6



Matriz MTR 6

FORMAS PADRÕES



Retângulo



Oblongo



Quadrado



Singular



Duplo



Quadrângulo



Hexagonal



Octogonal

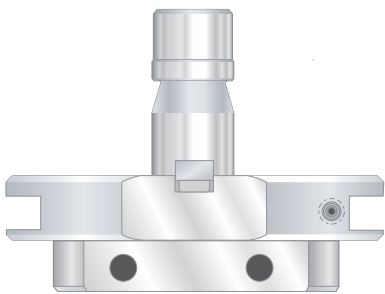


Diamante

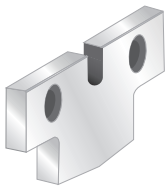


Triângulo

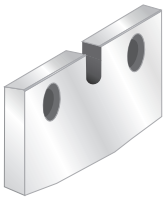
FERRAMENTAS DE CORTE ECONÔMICO



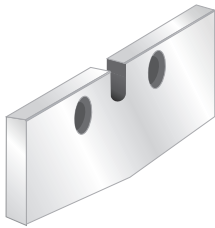
Punção com anel de ajuste integrado



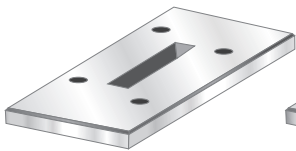
Punção Inserto



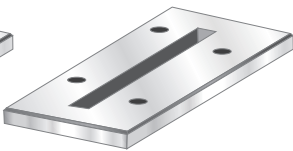
Punção Inserto



Punção Inserto



Matriz Inserto



Matriz Inserto



Matriz Inserto



Porta Inserto Matriz



Porta Inserto Matriz

*Forma Opcional: Oblongo Tamanho Opcional: 5XL < 76.2

FORMAS PADRÕES



Retângulo



Oblongo



Quadrado



Singular



Duplo



Quadrângulo



Hexagonal



Octagonal



Diamante



Triângulo

ACESSÓRIOS

Descrição
Cassete Universal



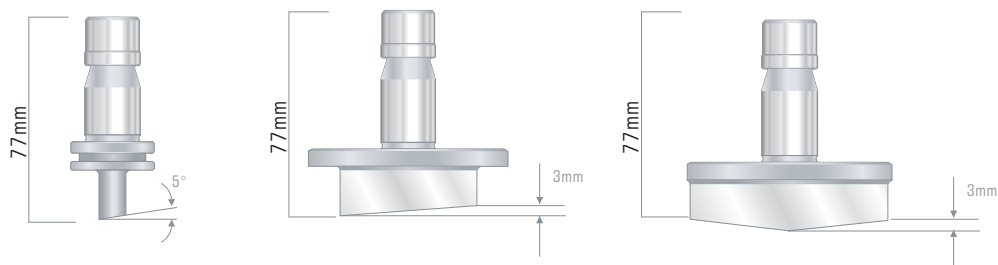
Descrição
Porta Matriz



Descrição
Adaptador de Matriz (tamanho 1-2)



Descrição
Anel C

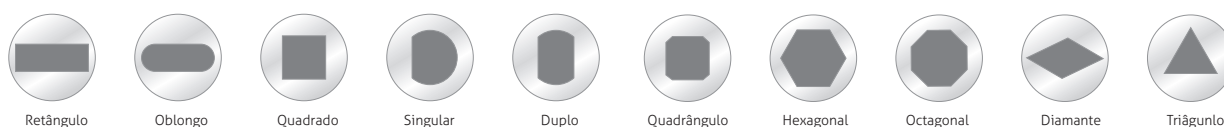


* Todos os punções são com comprimento de 77mm, se for de outro grupo com comprimento de 74mm, por favor especificar.

*Punção com perfil de 10mm até 35mm afiação em 5ºgrau, punção acima de 35mm afiação é feita em 3º grau.

*Punção Wisper pode reduzir o barulho e a tonelagem.

FORMAS PADRÕES



FORMAS ESPECIAIS



Multifuros



Escareado



Repuxo para Rosca



Côncavo



Repuxo



Nervura



Repuxo com Pré Furo



Repuxo e Furo



Repuxo Escareado



Semi Corte



Knockout Simples



Knockout Duplo



Marcação



Estampagem de logo



Corte e Dobra
em Ponte



Corte e Dobra



Veneziana



Dobradiça



Espiral de Rosca



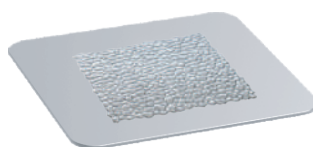
Forma com Rosca



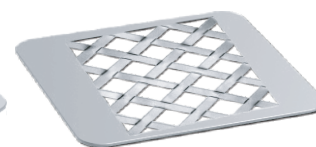
Metal Expandido



Scratch

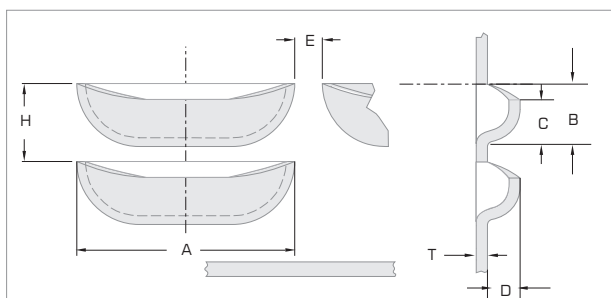


Ferramenta Texturizada

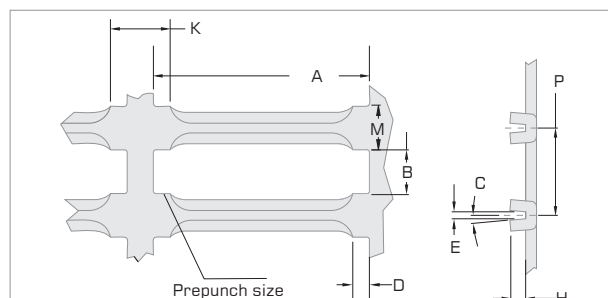


Metal Expandido
com Pré-Furo

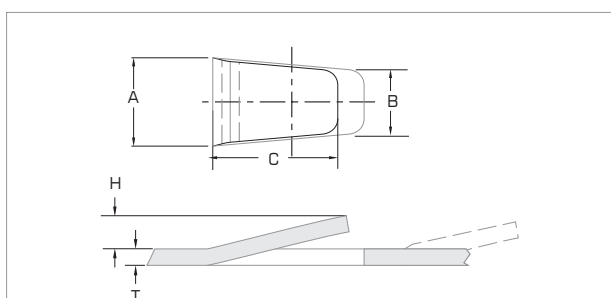
SÉRIE - T PLUS



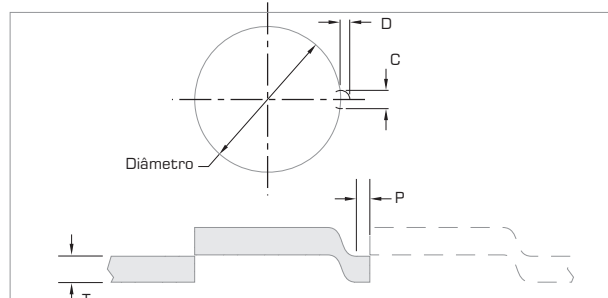
FERRAMENTA DE VENEZIANA, COMPRIMENTO MAX 95mm



CARTÃO GUIA, COMPRIMENTO MAX 80mm

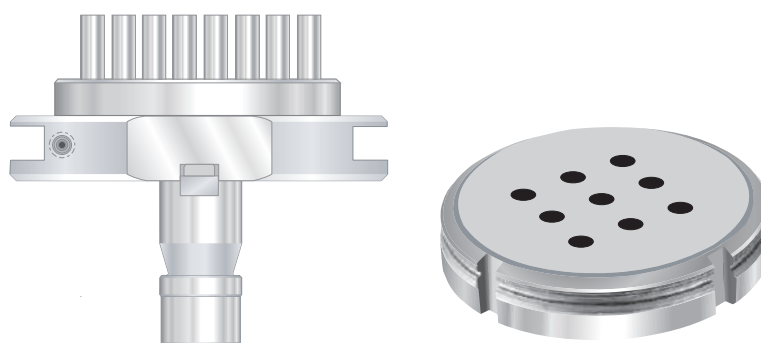
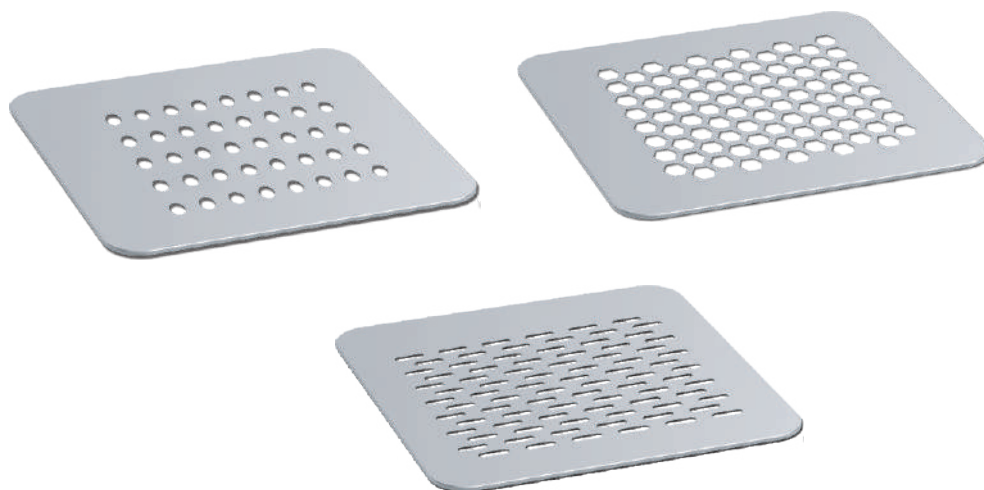


CORTE E DOBRA, COMPRIMENTO MAX 80mm

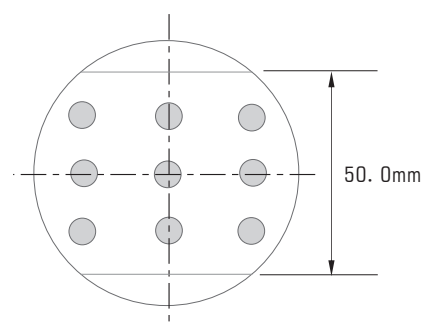
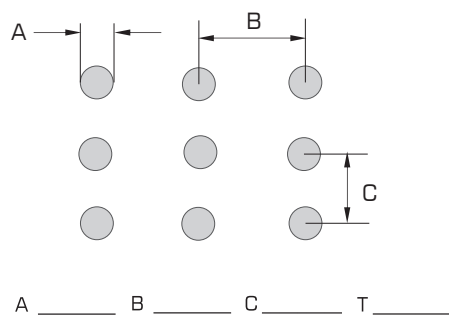


KNOCKOUT SIMPLES DIÂMETRO MAX 85mm

MULTIFUROS



ORIENTAÇÃO



REPUXO PARA ROSCA



ORIENTAÇÃO

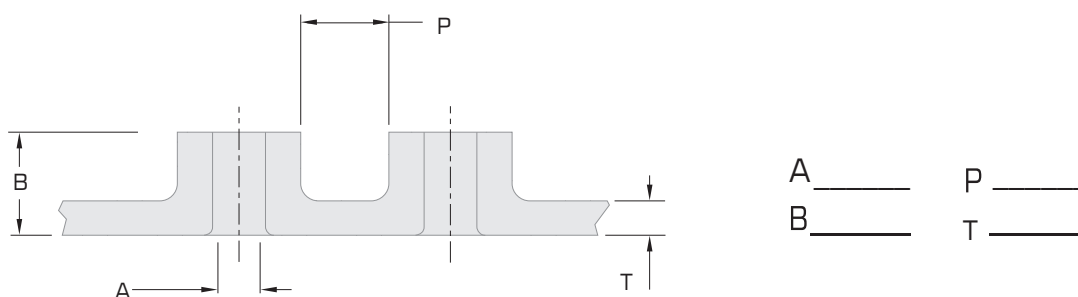
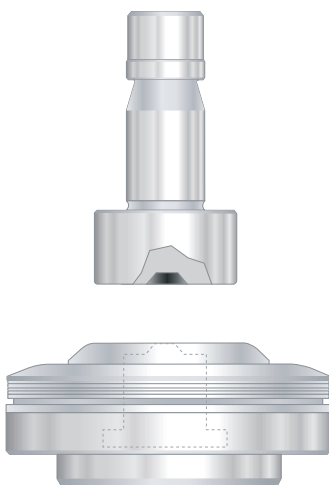
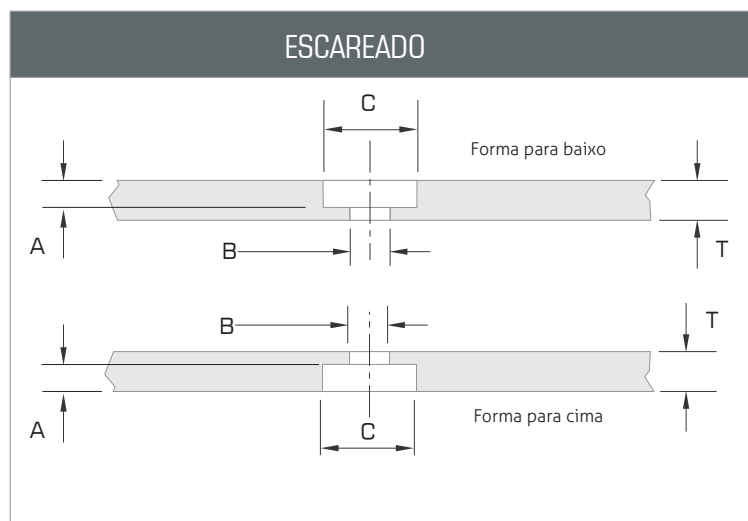
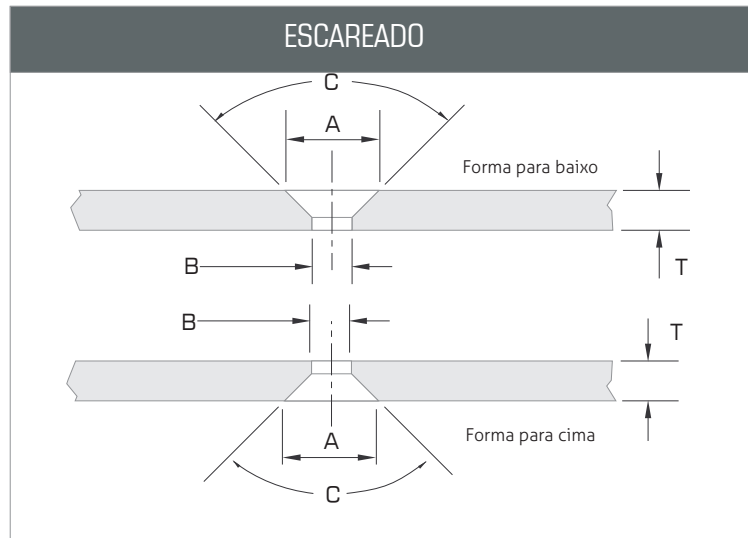
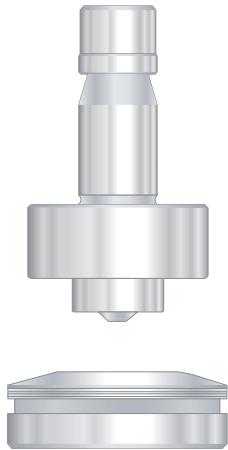


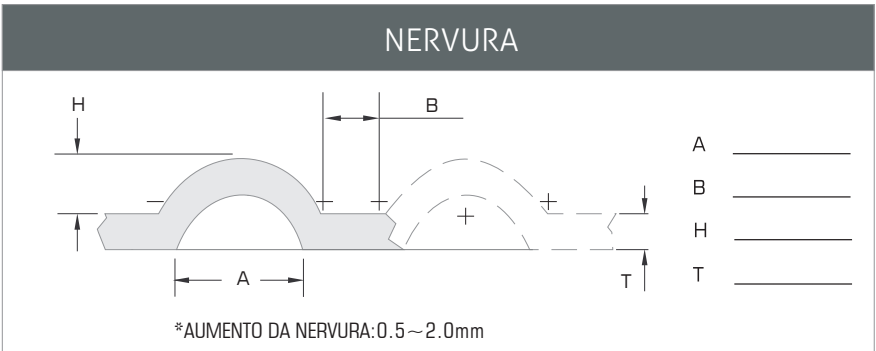
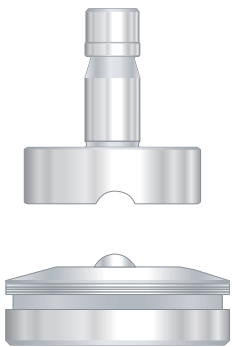
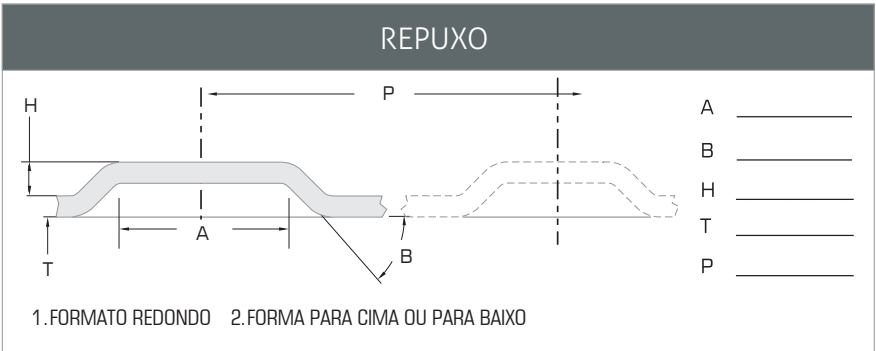
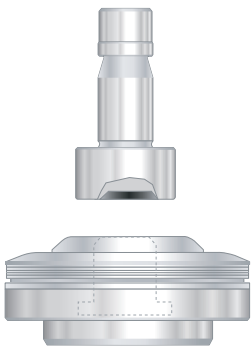
TABELA DE TAMANHO

Material	Tamanho do Rosqueamento	Espessura	0.8	1.0	1.2	1.6	2.0	2.3
Alúminio Aço Carbono	M2.6	2.21	1.3	1.3	1.3	1.6	N/A	N/A
	M3	2.57	1.3	1.3	1.6	1.6	N/A	N/A
	M4	3.40	2.0	2.0	2.0	2.3	2.3	2.5
	M5	4.30	N/A	2.3	2.3	2.8	2.8	3.0
	M6	5.20	N/A	N/A	N/A	3.0	3.8	3.8
Aço Inoxidável	M2.6	2.21	1.3	1.3	N/A	N/A	N/A	N/A
	M3	2.57	1.3	1.6	1.8	N/A	N/A	N/A
	M4	3.40	2.0	2.0	2.0	N/A	N/A	N/A
	M5	4.30	N/A	2.3	2.3	N/A	N/A	N/A
	M6	5.20	N/A	3.0	3.0	N/A	N/A	N/A

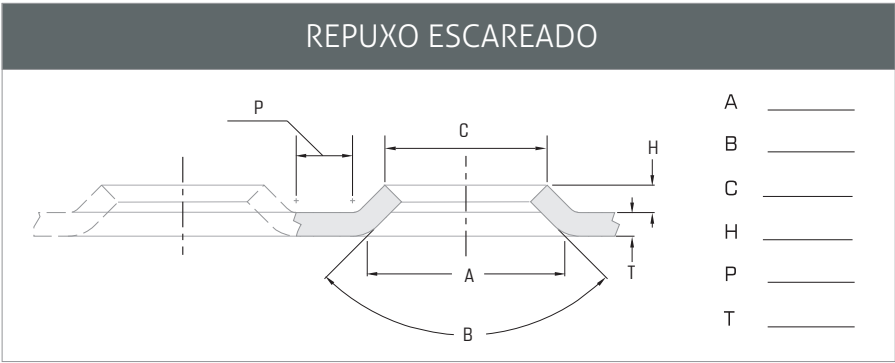
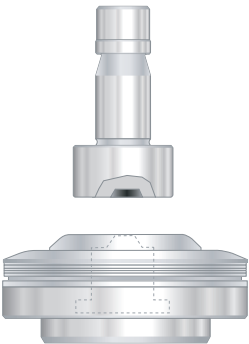
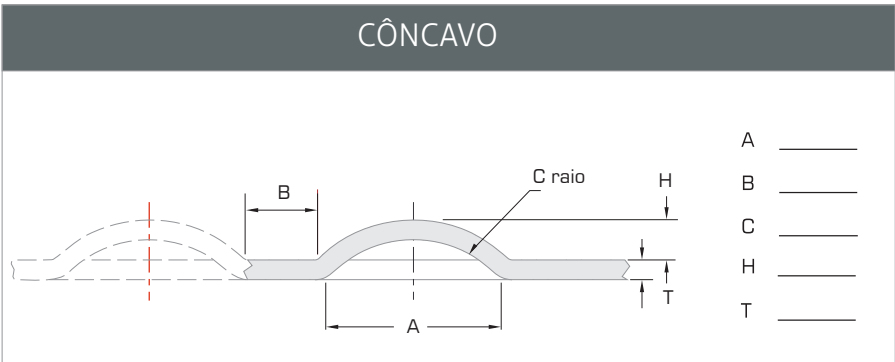
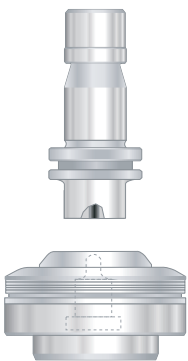
ESCAREADO



REPUXO / NERVURA



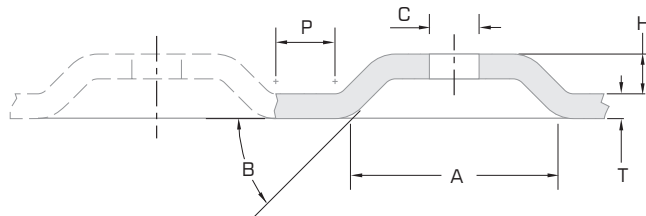
CÔNCAVO / REPUXO ESCAREADO



REPUXO COM PRÉ FURO



REPUXO COM PRÉ FURO

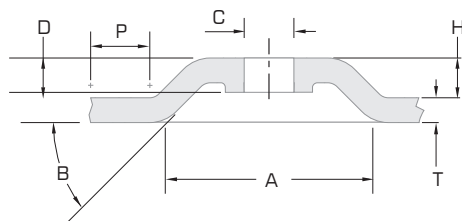


- A _____
- B _____
- C _____
- H _____
- P _____
- T _____

Obs: A ferramenta precisa do pré-furo.



REPUXO E FURO

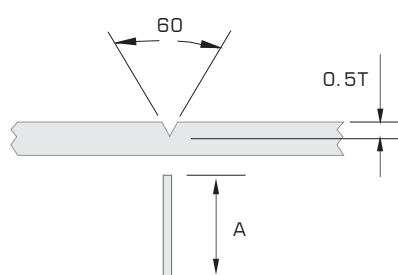


- A _____
- B _____
- C _____
- D _____
- H _____
- P _____
- T _____

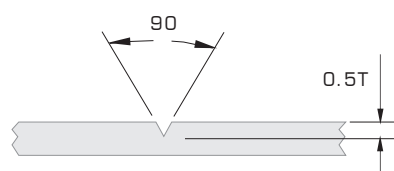
FERRAMENTA DE ESTAMPAGEM



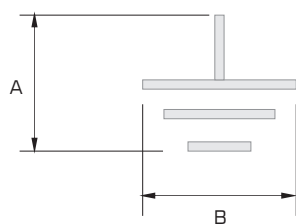
LINHA DE MARCAÇÃO



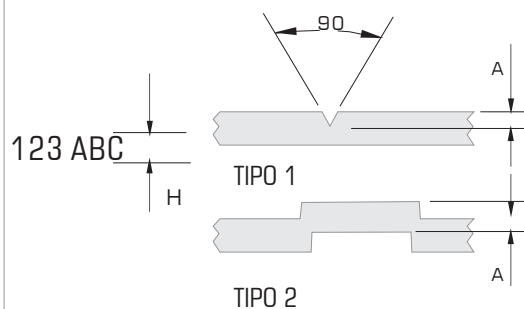
PONTO CENTRAL



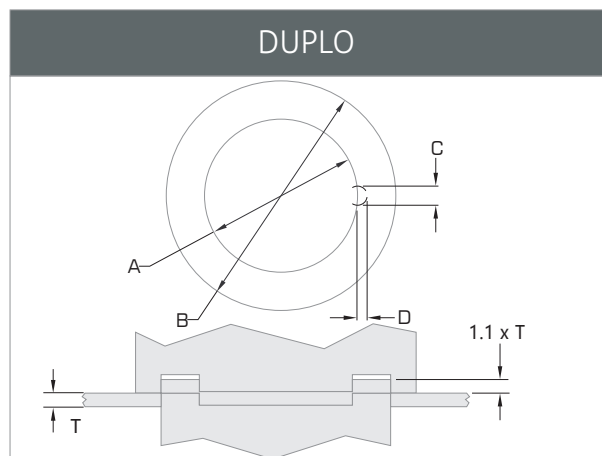
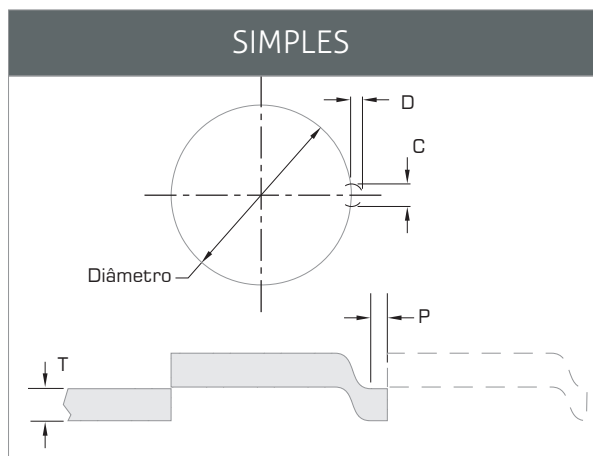
ATERRAMENTO



MARCAÇÃO DO LOGO

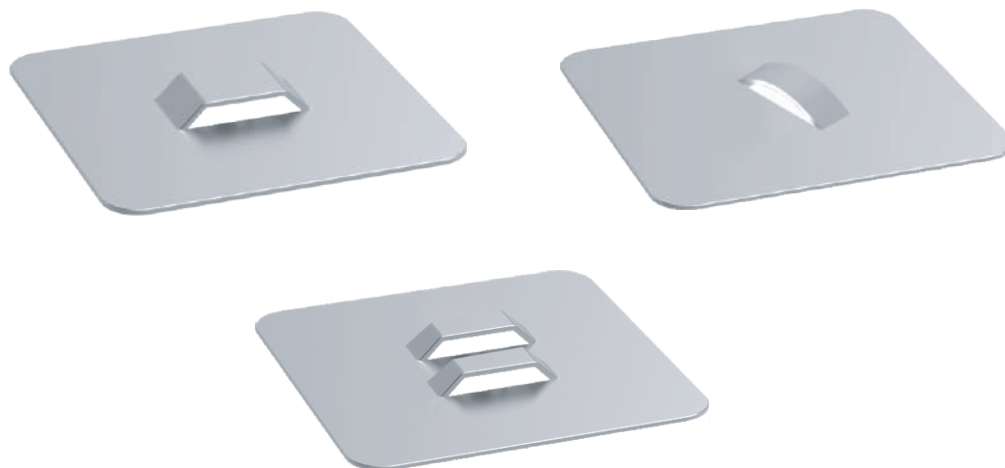


KNOCKOUT

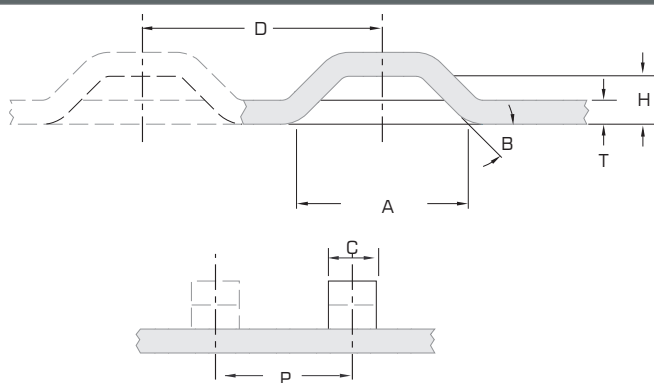


- A _____
- B _____
- C _____
- D _____
- P _____
- T _____

CORTE E DOBRA EM PONTE

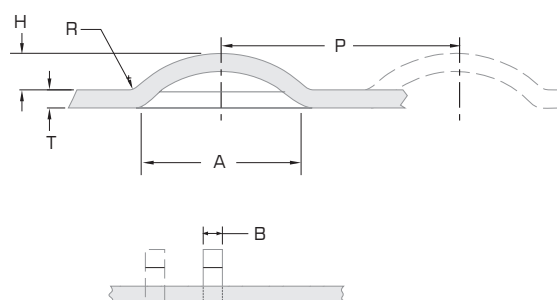


TOPO DA PONTE PLANA



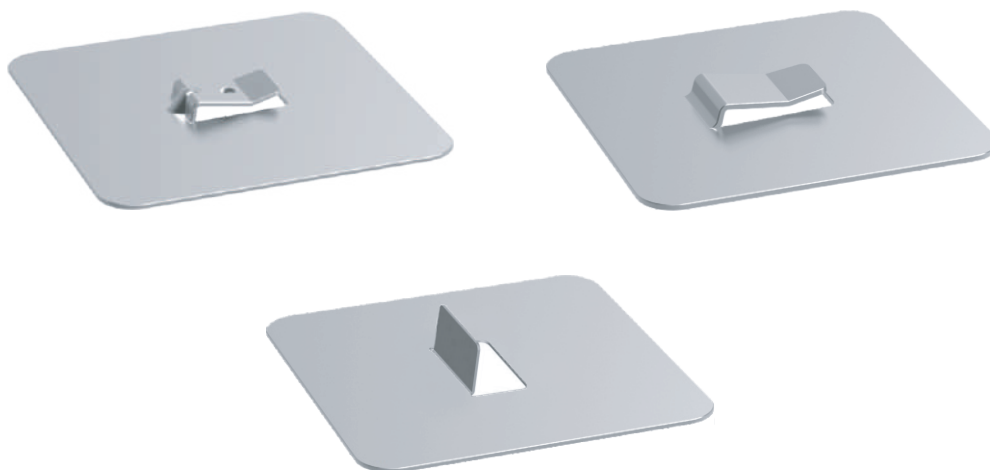
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 B _____
 C _____
 D _____
 H _____
 P _____
 T _____

TOPO DA PONTE PLANA - RAIO

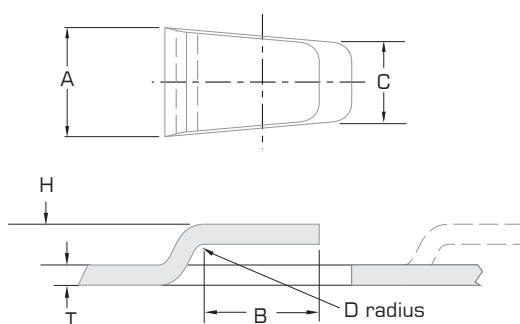


A _____
 B _____
 P _____
 H _____
 R _____
 T _____

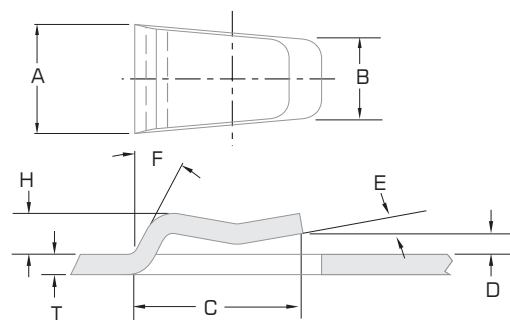
CORTE E DOBRA



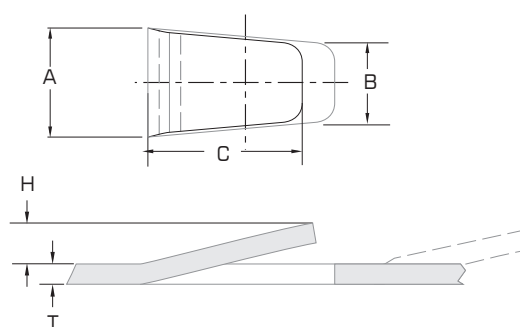
GRAMPO



GRAMPO DE MOLA

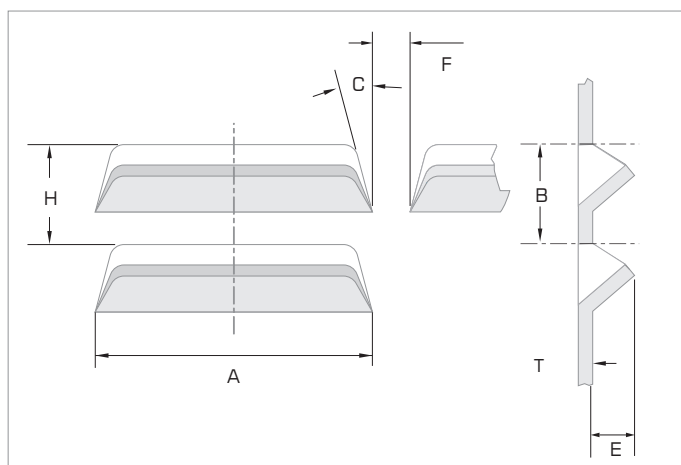
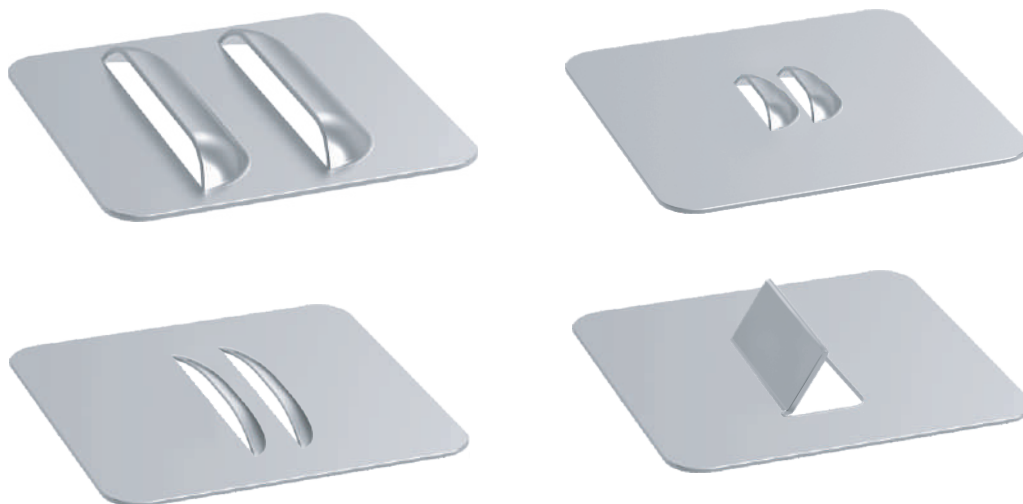


ABA



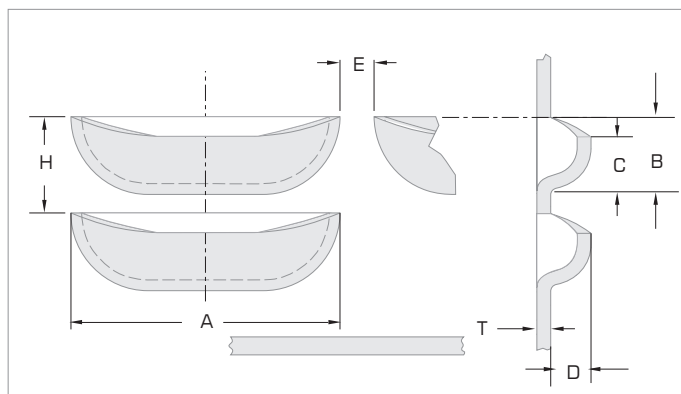
- A _____
- B _____
- C _____
- D _____
- E _____
- F _____
- H _____
- T _____

VENEZIANA



VENEZIANA ABERTA

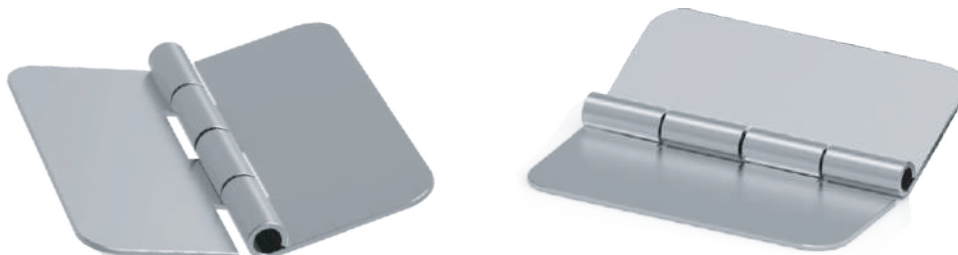
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B	_____	F	_____
C	_____	G	_____
		T	_____



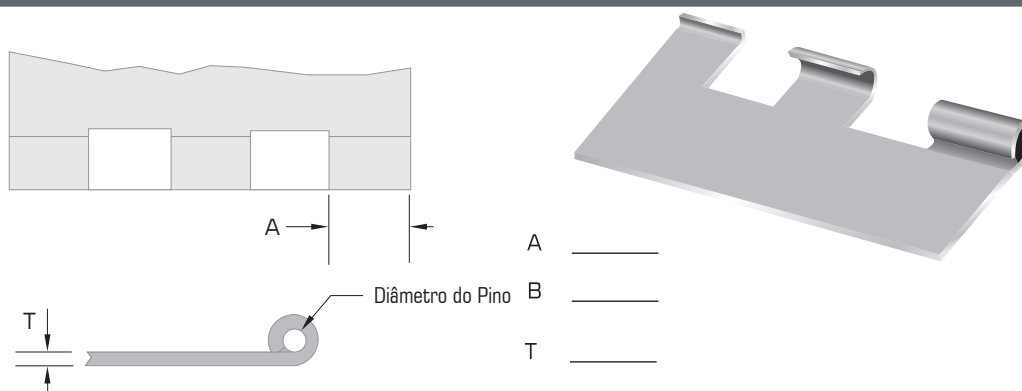
RAIO FECHADO

A	_____	E	_____
B	_____	H	_____
C	_____	T	_____
D	_____		

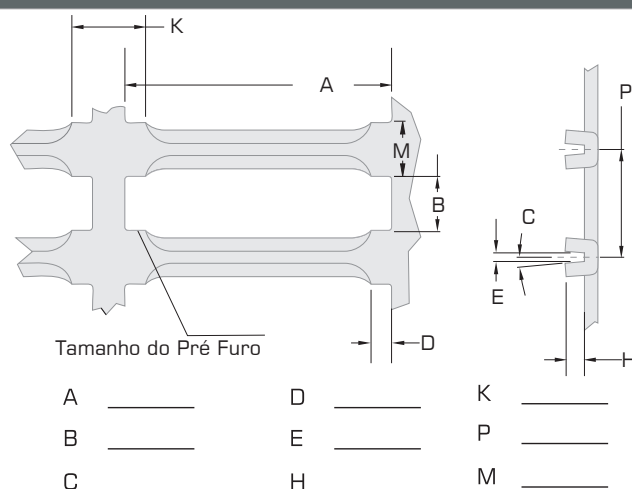
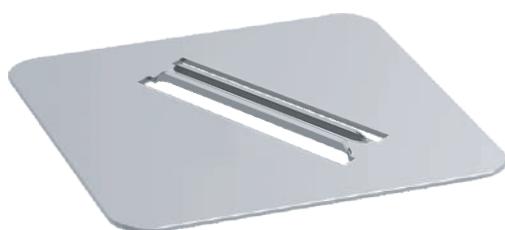
DOBRADIÇA / GUIA DE CARTÃO



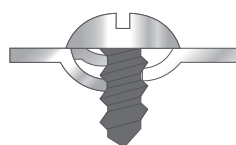
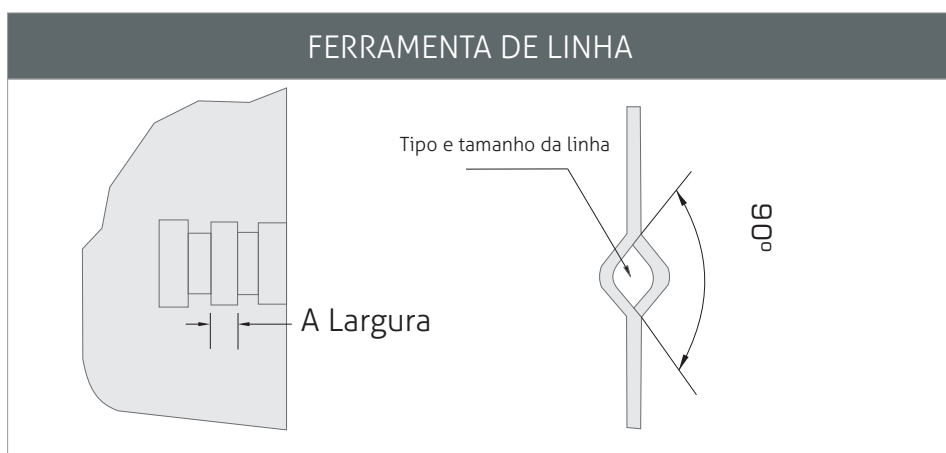
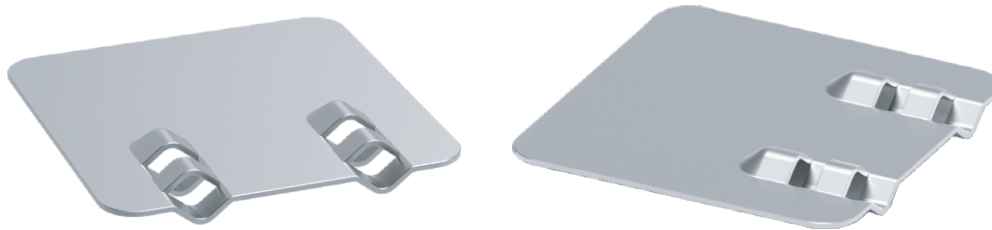
FERRAMENTA DE DOBRADIÇA



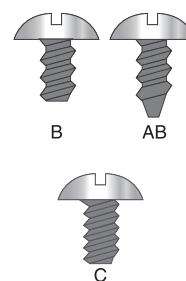
GUIA DE CARTÃO



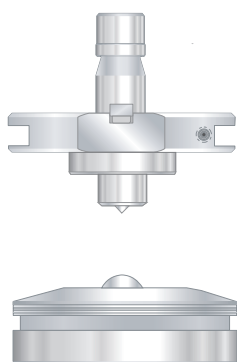
ESPIRAL DE ROSCA



FORMA DE ROSCA

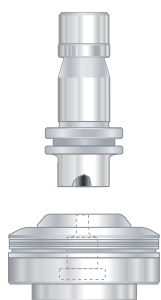


MULTI TRAÇADORA / SEMI CORTE

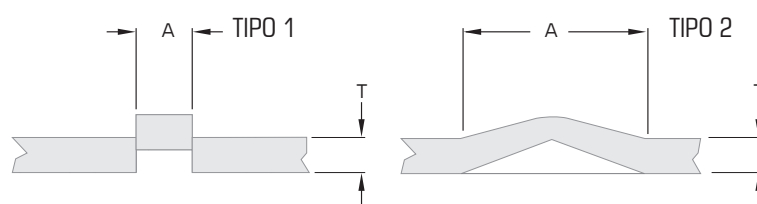


MULTI TRAÇADORA

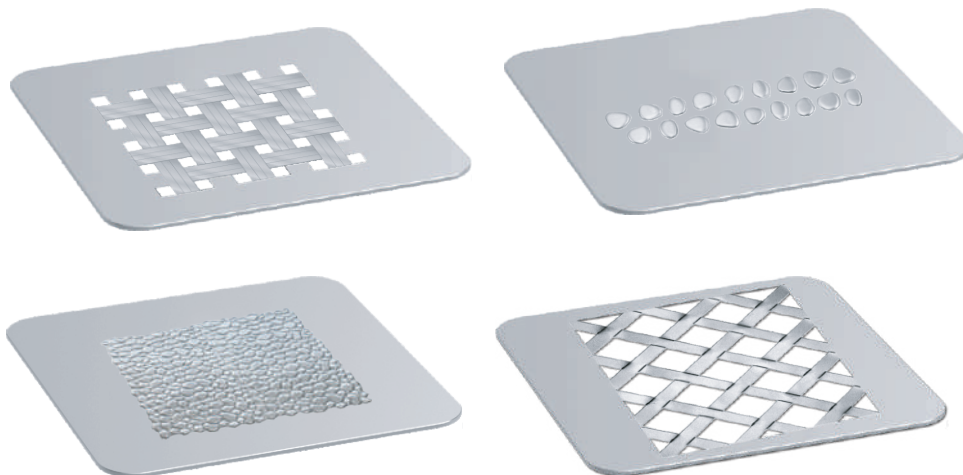
MUDANÇA DE MOLA PARA DIFERENTES CHAPAS DE METAL EM TABELAS AUTOMÁTICAS DE POSIÇÃO



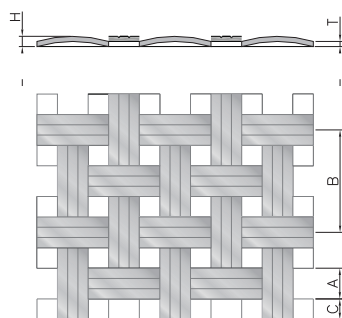
SEMI CORTE



TEXTURIZADA / SCRATCH/EXPANDIDO

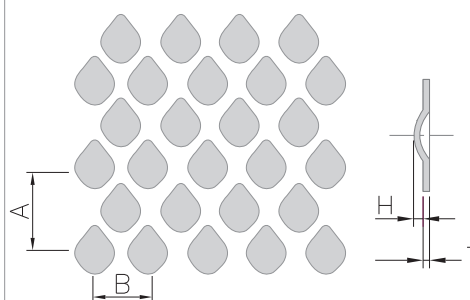


METAL EXPANDIDO



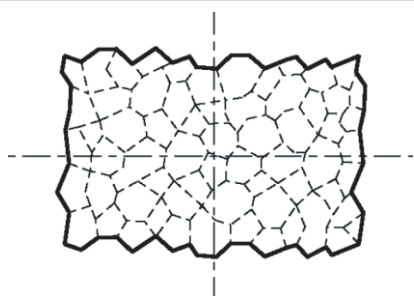
A: _____
B: _____ H: _____
C: _____ T: _____

FERRAMENTA SCRATCH



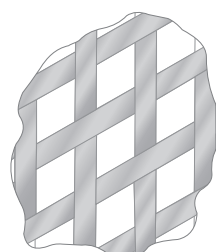
A: _____ H: _____
B: _____ T: _____

TEXTURIZADA



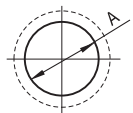
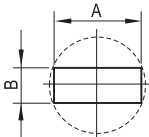
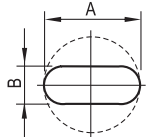
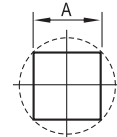
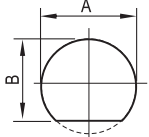
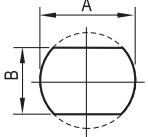
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Altura de gravação: 0.5mm

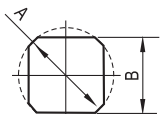
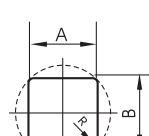
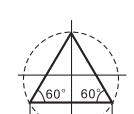
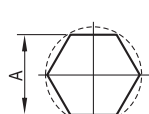
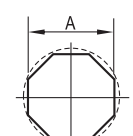
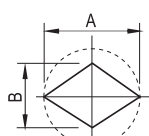
METAL EXPANDIDO

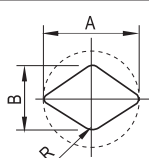
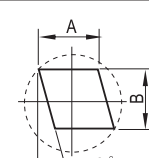
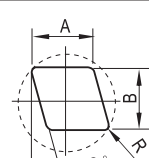
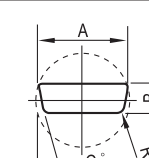
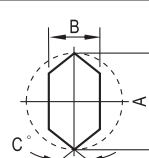
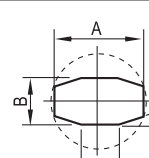


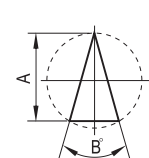
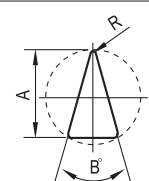
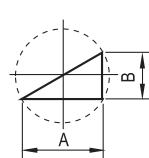
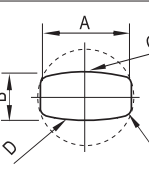
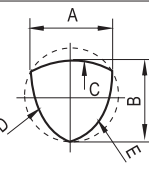
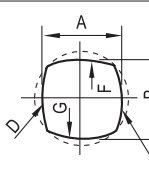
A textura precisa de pré - furo

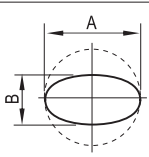
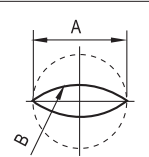
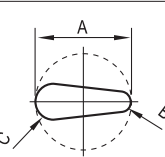
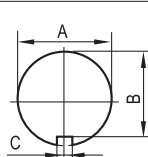
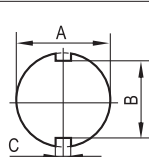
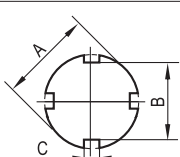
FORMATOS

					
Nome: Redondo	Nome: Rectangle	Nome: Oblongo	Nome: Tamanho:	Nome: Único D	Name: Duplo D
Tamanho: A	Tamanho: B/A	Tamanho: B/A	Tamanho: A	Tamanho: B/A	Tamanho: B/A

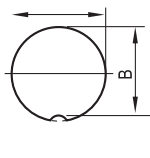
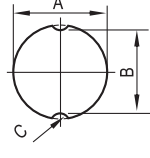
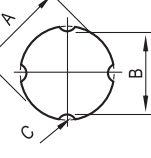
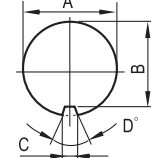
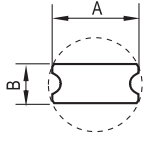
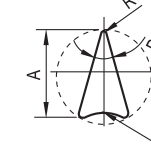
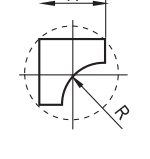
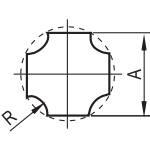
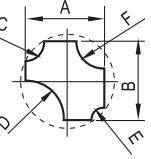
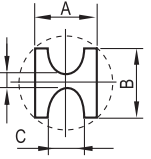
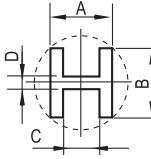
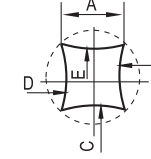
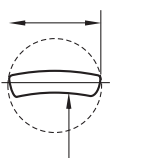
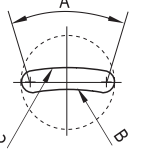
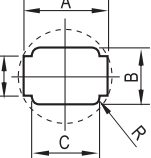
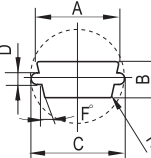
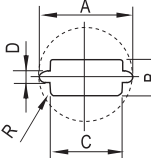
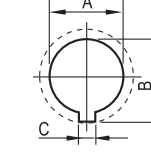
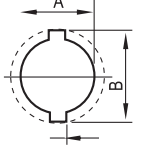
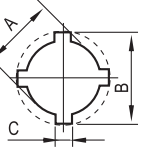
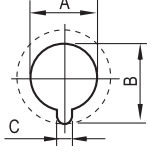
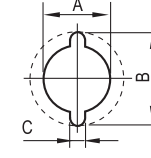
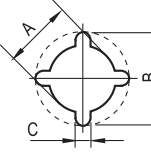
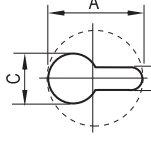
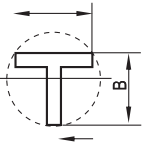
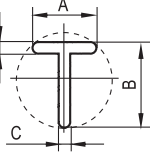
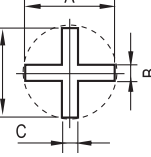
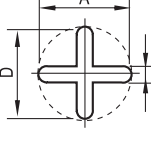
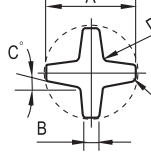
					
Nome: Quad D	Nome: Quad R	Nome: Triângulo Equi.	Nome: Hexagonal	Nome: Octagono	Name: Diamante
Tamanho: B/A	Tamanho: B/A/A	Tamanho: A	Tamanho: A	Tamanho: A	Tamanho: B/A

					
Nome: Diamante	Nome: Diamante	Nome: Diamante	Nome: Cabo Conector	Nome: Oito Cantos	Name: Oito Cantos
Tamanho: B/A/R	Tamanho: B/A/C	Tamanho: B/A/C/R	Tamanho: B/A/C/R	Tamanho: B/A/C	Tamanho: C/B/A/D

					
Nome: Triângulo	Nome: Tri. R	Nome: Right Tri.	Nome: Duplo R	Nome: Tri-R	Name: Quad-R
Tamanho: B/A	Tamanho: A/B/R	Tamanho: B/A	Tamanho: B/A/C/D/R	Tamanho: B/A/C/D/E	Tamanho: B/A/D/E/F/G

					
Nome: Elipse	Nome: Football	Nome: Fechadura	Nome: Chaveta	Nome: Chaveta Dupla	Nome: Chaveta Quadrada
Tamanho: B/A/C/R	Tamanho: A/B	Tamanho: A/B/C	Tamanho: C/B/A	Tamanho: C/B/A	Tamanho: C/B/A

FORMATOS

					
Nome: Chaveta	Nome: Chaveta Dupla	Nome: Chaveta - Quad	Nome: Chaveta	Nome: Micro - Articulação	Nome: Triângulo R
Tamanho: C/B/A	Tamanho: C/B/A	Tamanho: C/B/A	Tamanho: C/B/A/D	Tamanho: B/A	Tamanho: A/B/C/R
					
Nome: Raio de Sent. Único	Nome: Raio de Quatro Vias	Nome: Quatro Raios	Nome: H Com Raio	Nome: Corpo H	Nome: Quatro Raios
Tamanho: B/A/R	Tamanho: A/R	Tamanho: A/B/C/D/E/F	Tamanho: D/C/B/A	Tamanho: D/C/A/B	Tamanho: A/B/C/D/E
					
Nome: Banana	Nome: Banana	Nome: Connector	Nome: Connector	Nome: Connector	Nome: Keyhole
Tamanho: A/C/D/R	Tamanho: B/C/A	Tamanho: D/B/C/A/R	Tamanho: D/B/A/C/F/R	Tamanho: D/B/C/A/R	Tamanho: C/A/B
					
Nome: Fechadura	Nome: Fechadura	Nome: Fechadura	Nome: Fechadura	Nome: Fechadura	Nome: Fechadura
Tamanho: C/A/B	Tamanho: C/A/B	Tamanho: C/A/B	Tamanho: C/A/B	Tamanho: C/A/B	Tamanho: B/C/A
					
Nome: Corpo T	Nome: Corpo T	Nome: Cruz	Nome: Cruz	Nome: Cruz	
Tamanho: D/C/B/A	Tamanho: D/C/A/B	Tamanho: C/B/D/A	Tamanho: B/A/D	Tamanho: B/A/C/D/R	



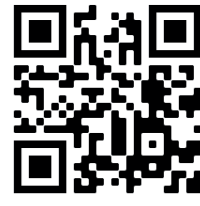
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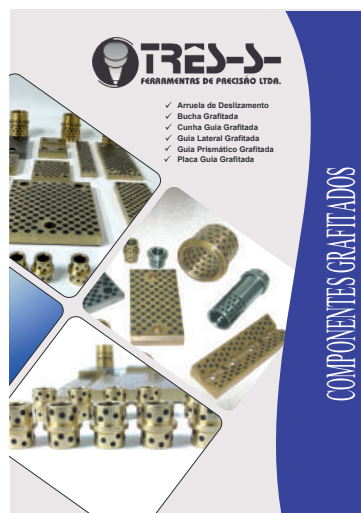
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ÍNDICE GERAL

Ferramentas Standard.....	06
Sistema para Série (2.4.1).....	07
Multitools 5 Estações.....	08
Multitools 10 Estações.....	09
Ferramenta de Corte com Poliuretano.....	10
Ferramentas de Corte Econômico.....	11
Acessórios.....	12
Formas.....	13
Série T Plus.....	14
Multifuros.....	15
Repuxo para Rosca.....	16
Escareado.....	17
Repuxo.....	18
Côncavo/Repuxo Escareado.....	19
Repuxo com Pré Furo.....	20
Ferramenta de Estampagem.....	21
Knockout.....	22
Corte e Dobra em Ponte.....	23
Corte e Dobra.....	24
Veneziana.....	25
Dobradiça/Guia de cartão.....	26
Esperiral de Rosca.....	27
Multi Traçadora/Semi Corte.....	28
Texturizada/Scratch/Expandido.....	29
Formatos.....	30