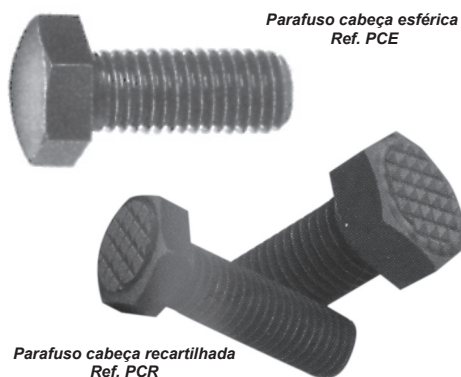


Acessórios para dispositivos de usinagem

• Parafuso cabeça esférica/recartilhada



| Ref. (recartilhada) | Ref. (esférica) | DIN 933-12.9 DxL |
|------------------------|--------------------|---------------------|
| PCR-5 | PCE-5 | M5x10 |
| PCR-6 | PCE-6 | M6x12 |
| PCR-8 | PCE-8 | M8x16 |
| PCR-10 | PCE-10 | M10x20 |
| PCR-12 | PCE-12 | M12x30 |
| PCR-14 | PCE-14 | M14x35 |
| PCR-16 | PCE-16 | M16x40 |
| PCR-18 | PCE-18 | M18x45 |
| PCR-20 | PCE-20 | M20x50 |
| PCR-24 | PCE-24 | M24x55 |

• Parafuso esfera recartilhada/lisa



| Ref. (recartilhada) | Ref. (lisa) | DIN 933-12.9 DxL |
|------------------------|----------------|---------------------|
| PER-5 | PEL-5 | M5x15 |
| PER-6 | PEL-6 | M6x20 |
| PER-8 | PEL-8 | M8x25 |
| PER-10 | PEL-10 | M10x30 |
| PER-12 | PEL-12 | M12x35 |
| PER-14 | PEL-14 | M14x40 |
| PER-16 | PEL-16 | M16x40 |
| PER-18 | PEL-18 | M18x40 |
| PER-20 | PEL-20 | M20x50 |
| PER-24 | PEL-24 | M24x60 |

• Ponteira esfera recartilhada/lisa



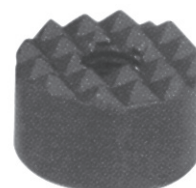
| Ref. Parafuso (recartilhada) | Ref. Parafuso (lisa) | Ref. Porca Recartilhada | Classe 12.9 DxL |
|---------------------------------|-------------------------|----------------------------|--------------------|
| SER-5 | SEL-5 | XER-5 | M5x15 |
| SER-6 | SEL-6 | XER-6 | M6x20 |
| SER-8 | SEL-8 | XER-8 | M8x25 |
| SER-10 | SEL-10 | XER-10 | M10x30 |
| SER-12 | SEL-12 | XER-12 | M12x35 |
| SER-14 | SEL-14 | XER-14 | M14x40 |
| SER-16 | SEL-16 | XER-16 | M16x40 |
| SER-18 | SEL-18 | XER-18 | M18x40 |
| SER-20 | SEL-20 | XER-20 | M20x50 |
| SER-24 | SEL-24 | XER-24 | M24x60 |

• Algem sem cabeça esférico, recartilhado e liso



| Ref. (recartilhada) | Ref. (lisa) | Classe 12.9 DxL |
|------------------------|----------------|--------------------|
| AER-5 | AEL-5 | M5x15 |
| AER-6 | AEL-6 | M6x20 |
| AER-8 | AEL-8 | M8x25 |
| AER-10 | AEL-10 | M10x30 |
| AER-12 | AEL-12 | M12x35 |
| AER-14 | AEL-14 | M14x40 |
| AER-16 | AEL-16 | M16x40 |
| AER-18 | AEL-18 | M18x40 |
| AER-20 | AEL-20 | M20x50 |
| AER-24 | AEL-24 | M24x60 |

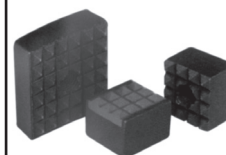
• Botão recartilhado Redondo



Botão recartilhado Redondo - Ref. BOR

| Ref. | Classe 12.9 DxL |
|--------|--------------------|
| BOR-10 | Ø10x10 |
| BOR-12 | Ø12x12 |
| BOR-14 | Ø14x14 |
| BOR-16 | Ø16x16 |
| BOR-18 | Ø18x18 |
| BOR-20 | Ø20x20 |
| BOR-22 | Ø22x22 |
| BOR-24 | Ø24x24 |
| BOR-30 | Ø30x30 |

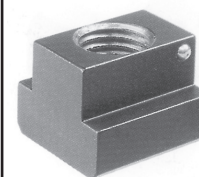
• Botão recartilhado Quadrado



Botão recartilhado Quadrado - Ref. BOQ

| Ref. | Classe 12.9 DxL |
|--------|--------------------|
| BOQ-10 | Ø 10x10 |
| BOQ-12 | Ø 12x12 |
| BOQ-14 | Ø 14x14 |
| BOQ-16 | Ø 16x16 |
| BOQ-18 | Ø 18x18 |
| BOQ-20 | Ø 20x20 |
| BOQ-22 | Ø 22x22 |
| BOQ-24 | Ø 24x24 |
| BOQ-30 | Ø 30x30 |

• Porca "T" esfera DIN 508-E



Porca "T" esferada para dispositivo

| Referência | d | $\frac{A}{d}$ |
|------------|-----|---------------|
| PTE 6 | M06 | 8 |
| PTE 8 | M08 | 10 |
| PTE 10 | M10 | 12 |
| PTE 12 | M12 | 14 |
| PTE 14 | M14 | 16 |
| PTE 16 | M16 | 18 |
| PTE 18 | M18 | 20 |
| PTE 20 | M20 | 22 |
| PTE 24 | M22 | 24 |
| PTE 30 | M24 | 28 |
| PTE 36 | M24 | 30 |

• Arruela temperada côncava



Arruela temperada côncava, usar com porca sextavada alta DIN 6330B

| Ref.(S) injetora/prensa | d2 | para parafuso | d1 |
|----------------------------|----|---------------|------|
| ATC 06 | 19 | M06 | 6,4 |
| ATC 08 | 25 | M08 | 8,5 |
| ATC 10 | 32 | M10 | 10,5 |
| ATC 12 | 45 | M12 | 13,0 |
| ATC 14 | 45 | M14 | 15,0 |
| ATC 16 | 45 | M16 | 17,0 |
| ATC 18 | 45 | M18 | 19,0 |
| ATC 20 | 50 | M20 | 21,0 |
| ATC 22 | 50 | M22 | 23,0 |
| ATC 24 | 60 | M24 | 25,0 |
| ATC 30 | 68 | M30 | 31,0 |
| ATC 36 | 76 | M36 | 38,0 |