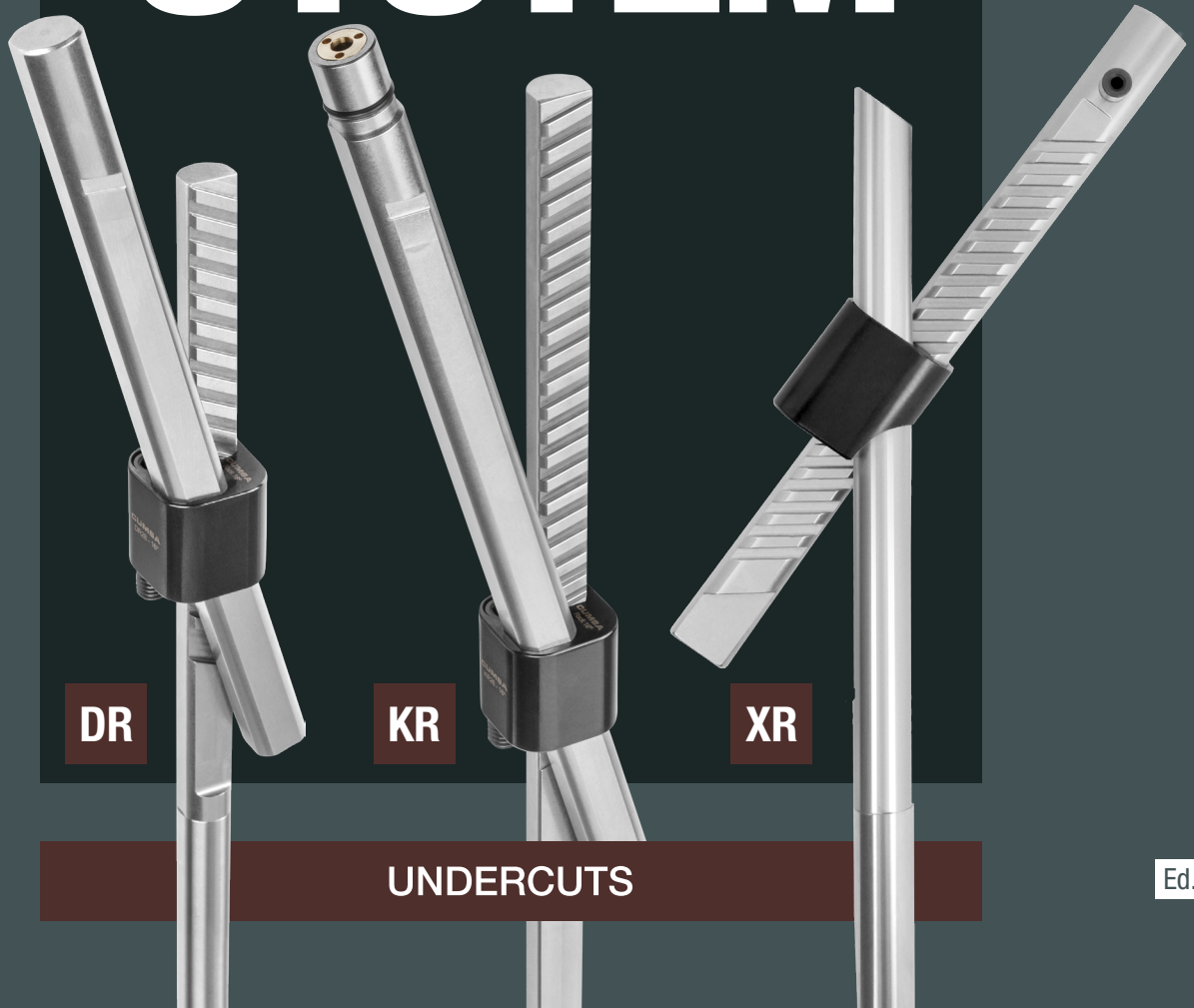


CUMSA

INNOVATIVE SOLUTIONS
FOR YOUR MOLDS

DOUBLE RACK SYSTEM



DR

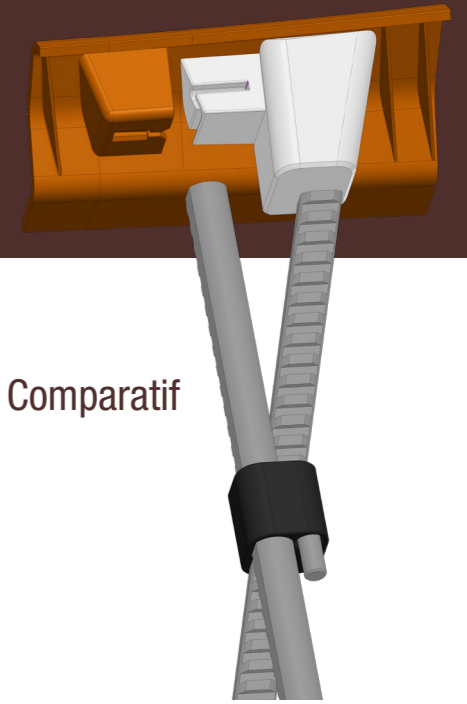
KR

XR

UNDERCUTS

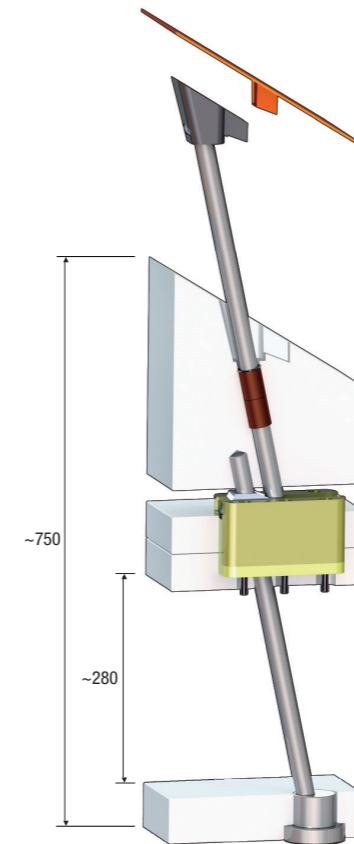
Ed. 2023-10

DOUBLE RACK SYSTEM by CUMSA

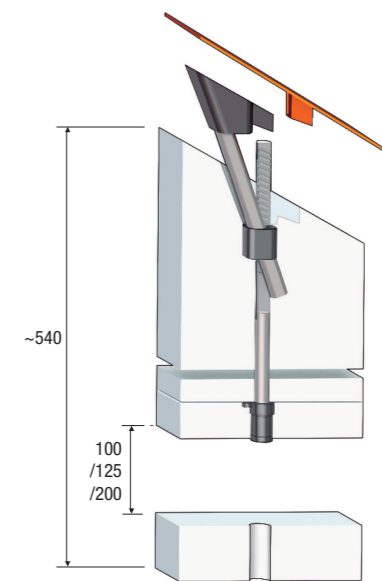


COMPARE

Comparativa · Vergleich · Confronto · Comparativo · Comparatif



CONVENTIONAL SYSTEM



DOUBLE RACK SYSTEM

EN Vertical function maximizing strength.

Smaller and less expensive injection machine required.

Eliminates the need for high-precision angled housings in the core plates.

ES Funcionamiento vertical que minimiza el esfuerzo del conjunto.
Permite usar una máquina de inyección más pequeña y económica.
Elimina los complicados taladros inclinados de alta precisión.

DE Vertikale Funktion mit maximaler Kraft.
Ein kleineres Werkzeug kann eventuell eine kleinere und günstigere Spritzgießmaschine benötigen.
Es wird keine hochpräzise Schrägbohrung in der Formplatte benötigt.

IT Funzionamento verticale che minimizza lo sforzo.
Permette di usare una macchina d'iniezione più piccola ed economica.
Elimina le complicate lavorazioni inclinate ad alta precisione.

PT Funcionamento na vertical minimizando o esforço.
Permite o uso de máquinas de injeção de menores dimensões e mais económicas.
Elimina a necessidade de furos inclinados com precisão.

FR Fonctionnement vertical réduisant les efforts.
Permet de réduire la dimension de la presse d'injection et ainsi de réaliser des économies.
Terminé les logements inclinés de haute précision.

DR

UNDERCUTS

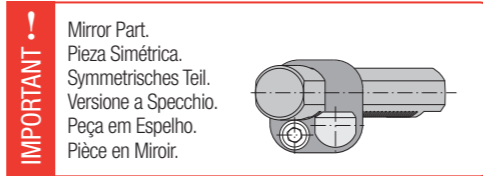
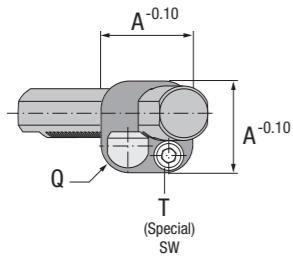
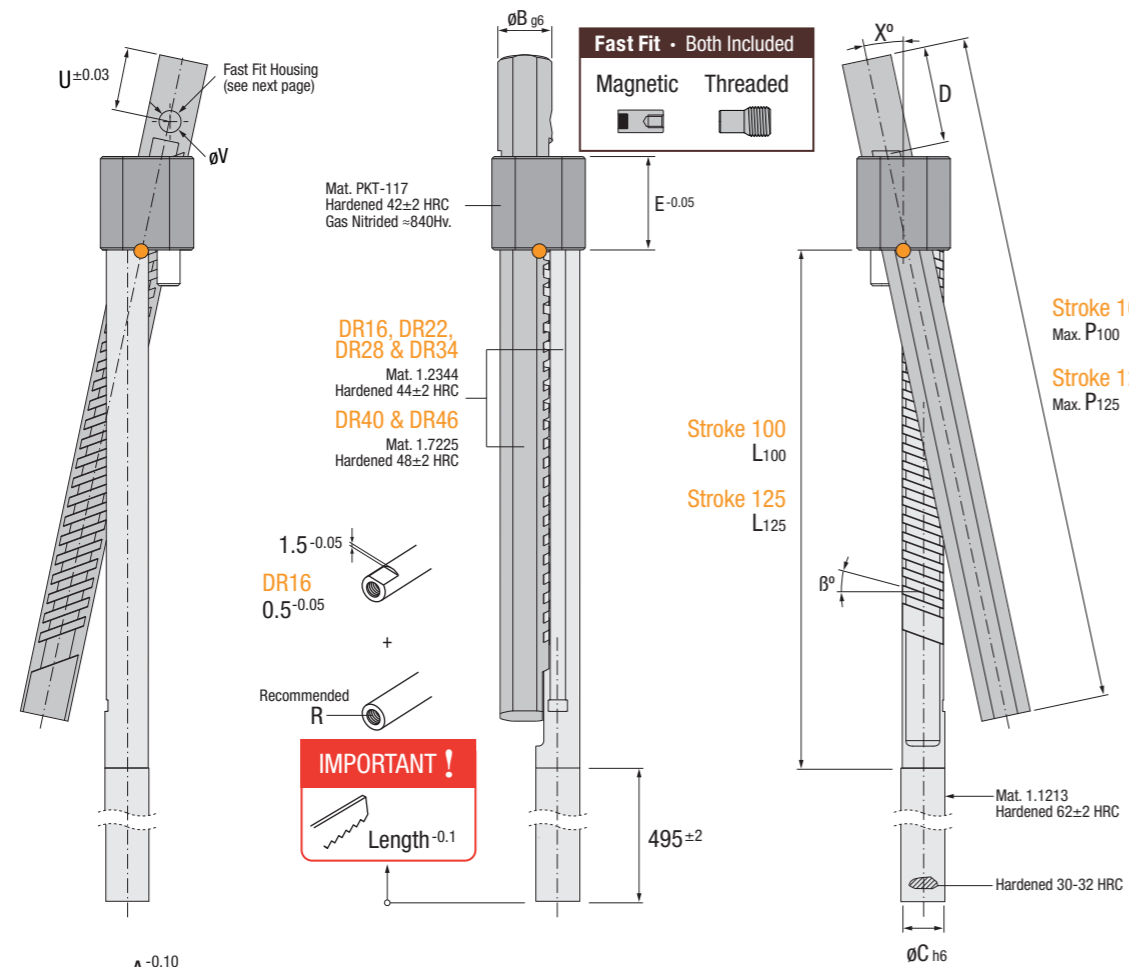


Patented

DOUBLE RACK LIFTER

ES Doble Cremallera DE Zweifach Zahnstangen-System
IT Doppia Cremagliera PT Duplo Rack FR Double Cremaillere

● Cad Insertion Point



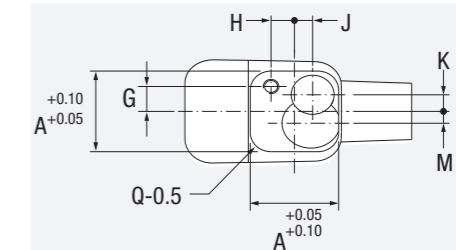
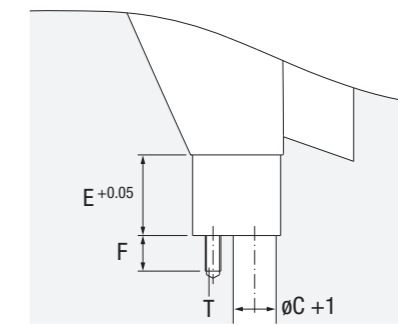
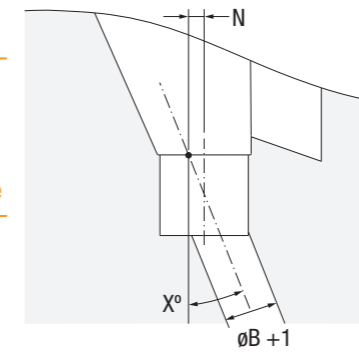
| Stroke 100 | Stroke 125 | X° | A | B | C | D | E | L100 | P100 | L125 | P125 | Q | R | T | U | V | Stroke 100-S | Stroke 125-S |
|-------------|-------------|------------|-------|-------|----------|-----|-------|------|------|------|------|----|----|---|---|---|---------------|---------------|
| DR.16100L-x | - | 8 12 16 | - 16 | 9 8 | 20 20 | 142 | 178 | - | - | 4 | M5 | M5 | 10 | 6 | | | DR.16100L-x-S | - |
| DR.22100L-x | DR.22125L-x | 8 12 16 20 | 22 12 | 12 30 | 22 148 | 202 | 202 | 261 | 6.5 | M6 | M6 | 17 | 8 | | | | DR.22100L-x-S | DR.22125L-x-S |
| DR.28100L-x | DR.28125L-x | 8 12 16 20 | 28 16 | 14 36 | 28 152.5 | 214 | 194.5 | 266 | 8.5 | M8 | M8 | 23 | 8 | | | | DR.28100L-x-S | DR.28125L-x-S |
| DR.34100L-x | DR.34125L-x | 8 12 16 20 | 34 20 | 16 36 | 34 160.5 | 227 | 188.5 | 264 | 10.5 | M8 | M8 | 23 | 8 | | | | DR.34100L-x-S | DR.34125L-x-S |
| DR.40100L-x | DR.40125L-x | 8 12 16 20 | 40 22 | 20 36 | 40 170 | 244 | 204 | 284 | 10.5 | M10 | M10 | 20 | 10 | | | | DR.40100L-x-S | DR.40125L-x-S |
| DR.46100L-x | DR.46125L-x | 8 12 16 20 | 46 24 | 24 42 | 46 175 | 258 | 201 | 289 | 10.5 | M10 | M12 | 26 | 10 | | | | DR.46100L-x-S | DR.46125L-x-S |

IMPORTANT!
Replace the **X** in the reference with the required X° dimension (8°, 12°, 16° or 20°) and indicate the required B°.
Sustituir la **X** de la referencia por la cota X° deseada (8°, 12°, 16° o 20°), e indique el ángulo B° requerido.
Ersetzen Sie das **X** der Referenz durch den gewünschten X° Winkel (8°, 12°, 16° oder 20°). Geben Sie den benötigten B° Winkel an.
Sostituite la **X** del codice con l'angolo X° desiderato (8°, 12°, 16° o 20°) e indiate la B° richiesta.
Substituir o **X** da referencia pela cota X° desejada (8°, 12°, 16° o 20°), e indique o angulo B° pretendido.
Remplacez la valeur **X** par la valeur angulaire X° désirée (8°, 12°, 16° ou 20°). Ensuite indiquez l'angle B° correspondant.

INSTALLATION GUIDELINES

ES Consejos de Instalación DE Richtlinien zur Installation
IT Consigli di Installazione PT Instruções de Instalação FR Mode d'Installation

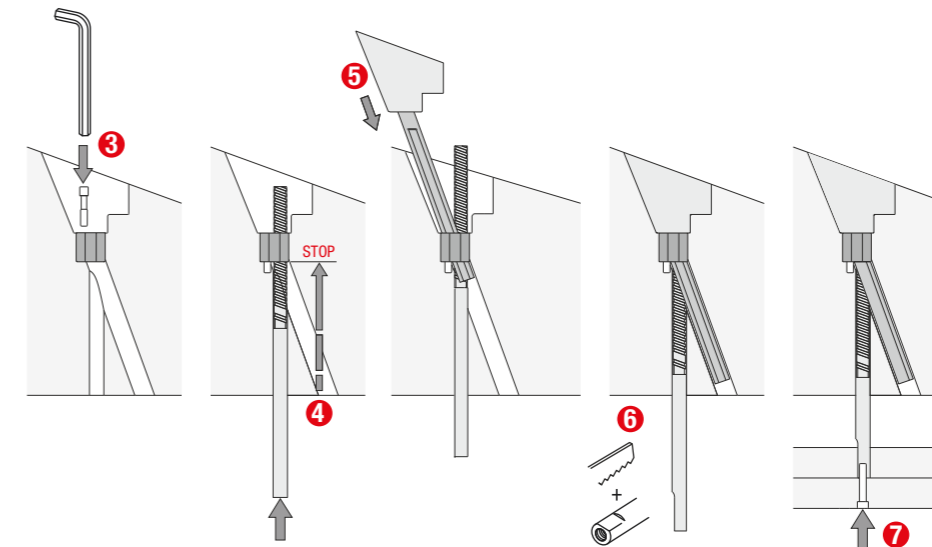
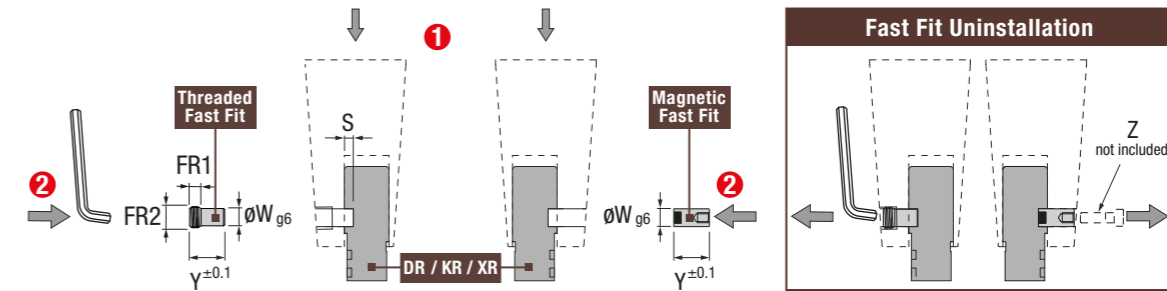
Core Housing
Alojamiento Placa Punzón
Einbaumaße DR Führung
Sede nel Punzone
Alojamento Bucha
Logement dans l'empreinte



| Stroke 100 | Stroke 125 | Stroke 200 | F | FR1 | FR2 | G | H | J | K | M | N | S | T | W | Y | Z | SW | SW2 |
|--------------|-----------------------------|--------------|----|-----|---------|------|------|-----|------|------|-----|-----|-----|----|------|----|----|-----|
| DR.16100L-.. | - | - | 10 | 4.9 | M8x1 | 4.6 | 4.6 | 3 | 2.35 | 3 | 2.8 | 2.5 | M5 | 6 | 9 | M4 | 4 | 3 |
| DR.22100L-.. | DR.22125L-.. / KR.22125L-.. | - | 13 | 5.3 | M10x1 | 5.6 | 5.6 | 4.2 | 3.7 | 4.2 | 3.5 | 2.5 | M6 | 8 | 12 | M4 | 5 | 4 |
| DR.28100L-.. | DR.28125L-.. / KR.28125L-.. | - | 16 | 5.3 | M10x1 | 7.5 | 7.5 | 5 | 5.4 | 4.8 | 4.8 | 2.5 | M8 | 8 | 13.5 | M4 | 5 | 5 |
| DR.34100L-.. | DR.34125L-.. / KR.34125L-.. | - | 16 | 5.3 | M10x1 | 10.5 | 8 | 7 | 7 | 5 | 6 | 4 | M8 | 8 | 16 | M4 | 5 | 5 |
| DR.40100L-.. | DR.40125L-.. | - | 20 | 8.5 | M12x1 | 11 | 11 | 7 | 8 | 7 | 7 | 4 | M10 | 10 | 20 | M6 | 6 | 6 |
| DR.46100L-.. | DR.46125L-.. | - | 25 | 8.5 | M12x1 | 13 | 13 | 8 | 8 | 9 | 9 | 5 | M12 | 10 | 24 | M6 | 6 | 8 |
| - | - | KR.58200L-.. | 28 | 8.5 | M16x1.5 | 15.5 | 15.5 | 10 | 12.2 | 11.2 | 10 | 5 | M14 | 12 | 30 | M6 | 8 | 12 |
| - | - | KR.76200L-.. | 36 | 14 | M16x1.5 | 21 | 21 | 13 | 15.2 | 15.2 | 12 | 6 | M18 | 12 | 36 | M6 | 8 | 14 |

Installation Guidelines

Consejos de Instalación · Richtlinien zur Installation · Consigli di Installazione · Instruções de Instalação · Mode d'Installation



DR

UNDERCUTS



DK

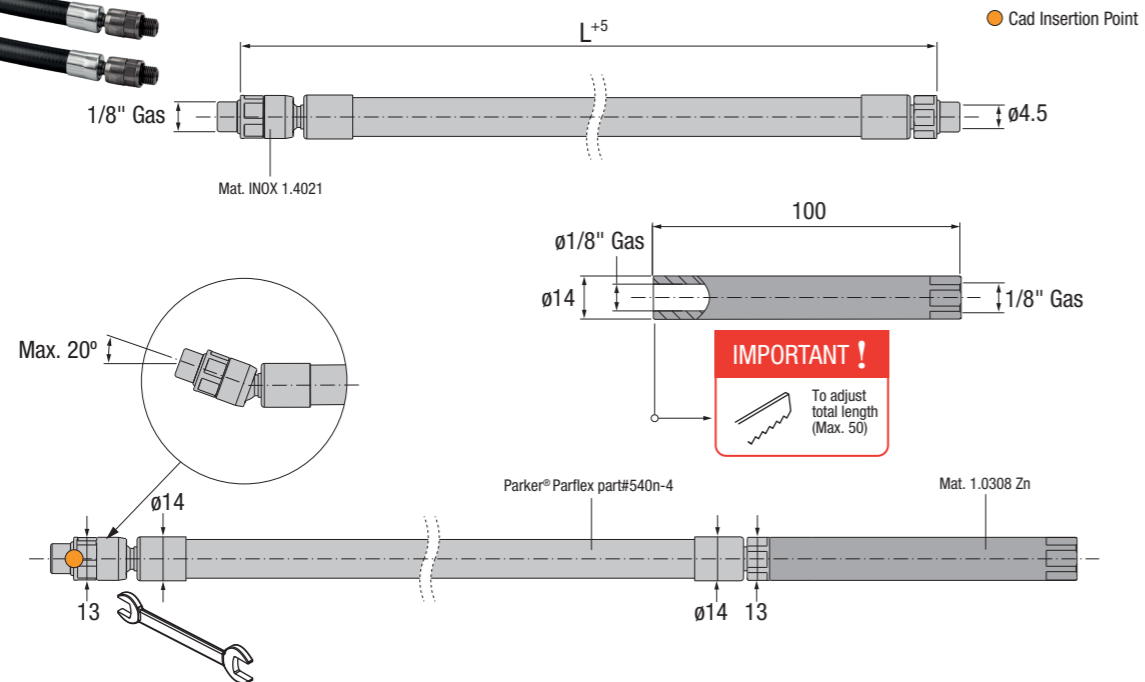
UNDERCUTS



Max. Cooling Fluid 50°C

DR COOLING HOSE

ES Refrigeración DR DE Kühlungsschlauch für DR
IT Refrigerazione DR PT Refrigeração DR FR Refroidissement DR

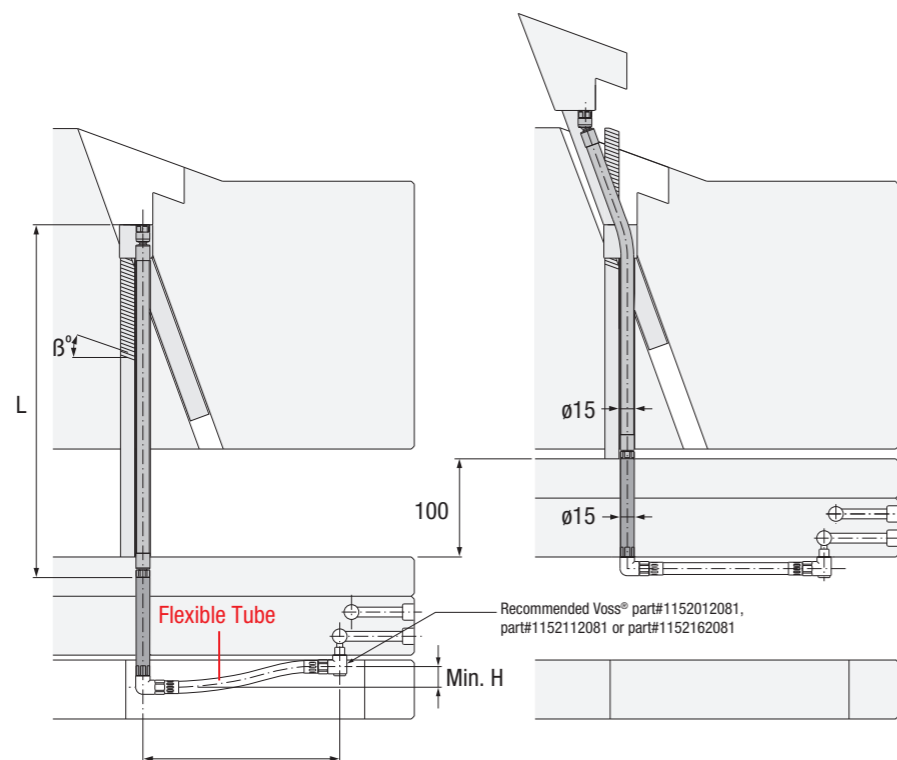


| Ref. | β° | H | | | |
|---------------|----------------|------------|-------------|-------------|-------------|
| | | DR.xxxxx-8 | DR.xxxxx-12 | DR.xxxxx-16 | DR.xxxxx-20 |
| DK.141818-... | Negative to 0° | 10 | 10 | 10 | 10 |
| | +1° to +9° | 10 | 10 | 10 | 15 |
| | +10° to +20° | 10 | 15 | 20 | 25 |
| | >+20° | 15 | 20 | 25 | 30 |

IMPORTANT !
Indicate the required **L** dimension; the length will be rounded up to the next multiple of 25mm.
Indicar la cota **L** deseada. Se suministrará redondeada al múltiplo superior de 25mm.
Gewünschte Länge **L** angeben. Die Länge wird auf die nächste Vielfachen von 25 mm abgerundet.
Indicare la lunghezza **L** desiderata; la quota richiesta sarà arrotondata al multiplo di 25mm superiore.
Indicar a cota **L** desejada. Será fornecido com a dimensão múltipla de 25mm seguinte.
Indiquer la cote **L** désirée. Celle-ci sera arrondie à un multiple supérieur de 25 mm.

Installation Guidelines

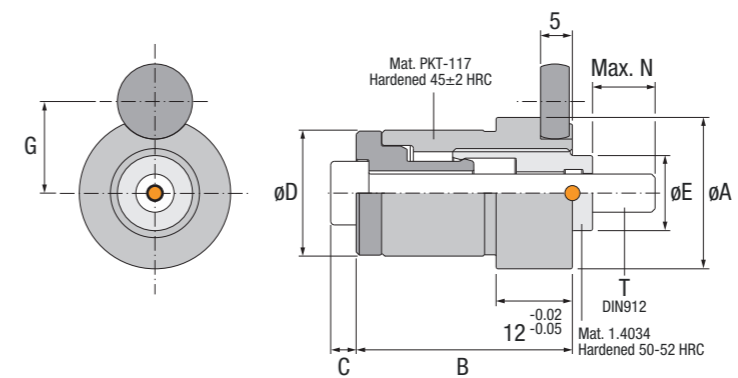
Consejos de Instalación · Richtlinien zur Installation · Consigli di Installazione · Instruções de Instalação · Mode d'Installation



ADJUSTABLE FIXING

ES Fijación Regulable DE Einstellbare Befestigung
IT Fissaggio Regolabile PT Fixação Regulável FR Fixation Reglable

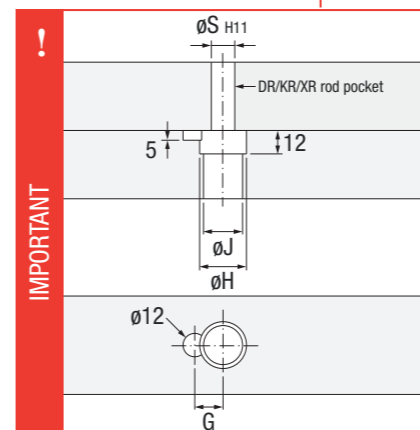
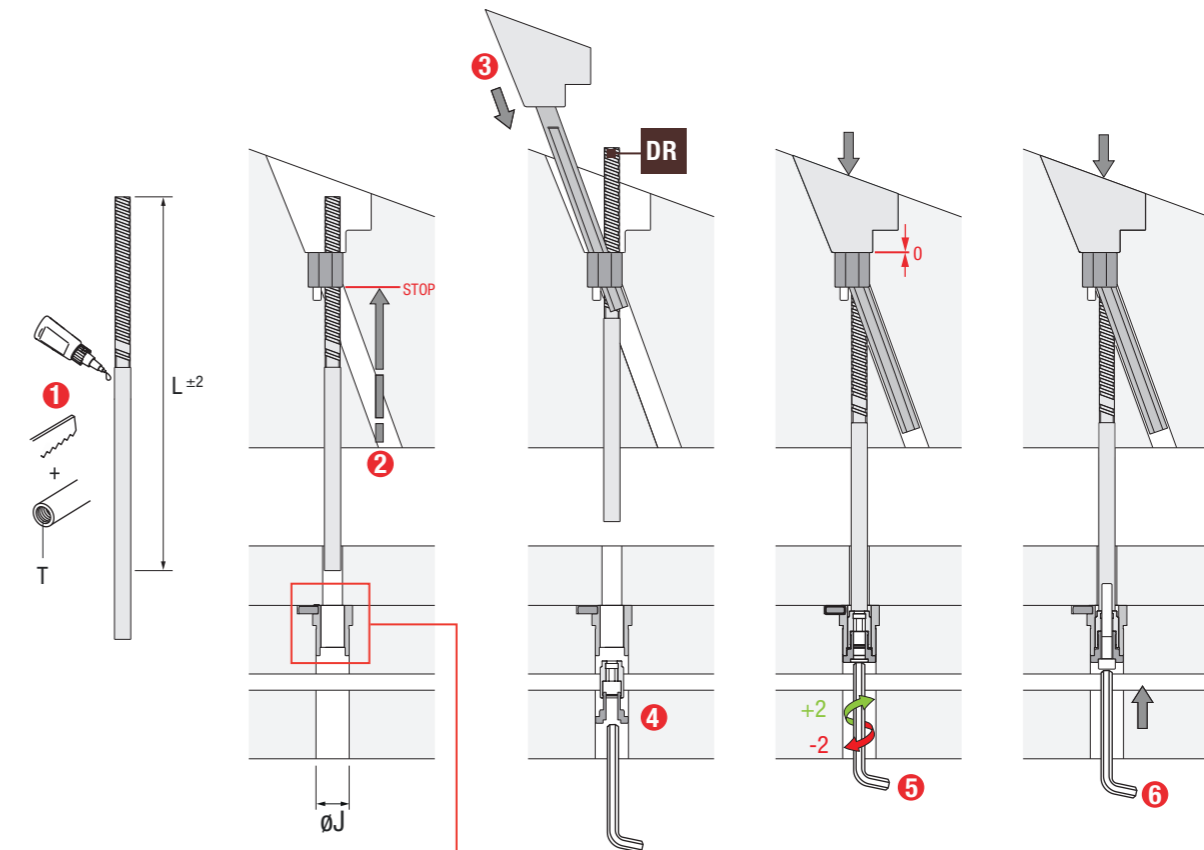
● Cad Insertion Point



| Ref. | A | B | C | D | E | G | H | J | N | T | S | Compatible with |
|-----------|------|----|---|------|------|------|----|----|----|--------|-------|-------------------------------|
| RF.161605 | 19.8 | 34 | 3 | 15.8 | 7.8 | 12.5 | 20 | 16 | 18 | M5x45 | 8 | DR16 |
| RF.222006 | 23.8 | 34 | 4 | 19.8 | 11.8 | 14.5 | 24 | 20 | 18 | M6x45 | 12 | DR22/KR22 |
| RF.282408 | 27.8 | 42 | 0 | 23.8 | 13.8 | 16.5 | 28 | 24 | 20 | M8x50 | 14-16 | DR28/DR34/KR28/KR34/XR34 |
| RF.403210 | 35.8 | 42 | 0 | 31.8 | 19.8 | 20.5 | 36 | 32 | 24 | M10x50 | 20-24 | DR40/DR46/KR40/KR46/XR40/XR46 |

Installation Guidelines

Consejos de Instalación · Richtlinien zur Installation · Consigli di Installazione · Instruções de Instalação · Mode d'Installation



IMPORTANT !

RF

UNDERCUTS



KR

UNDERCUTS

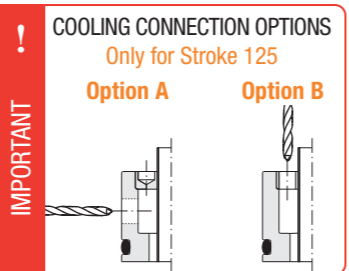
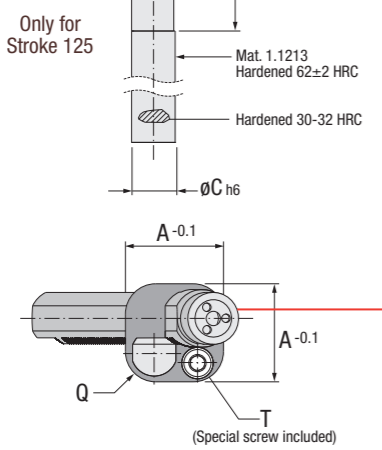
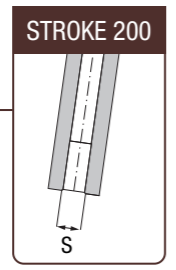
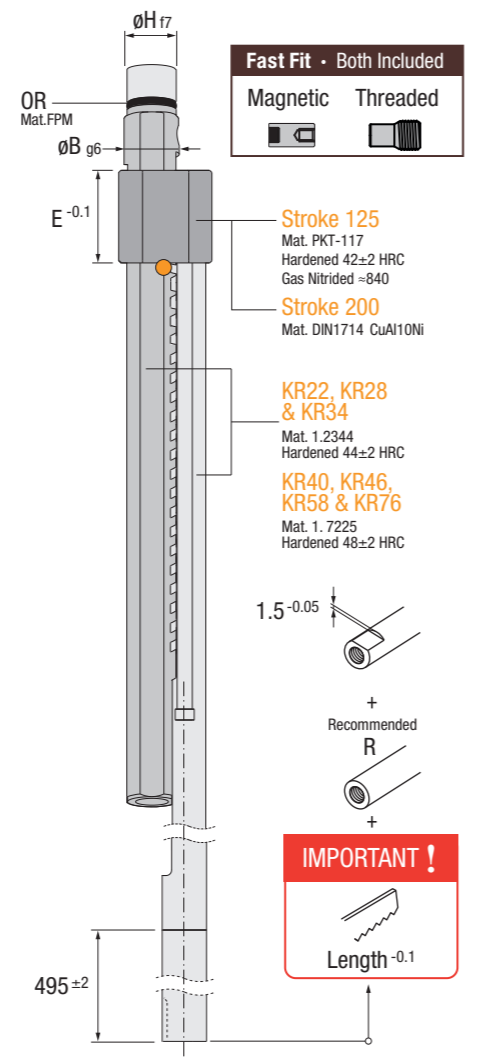
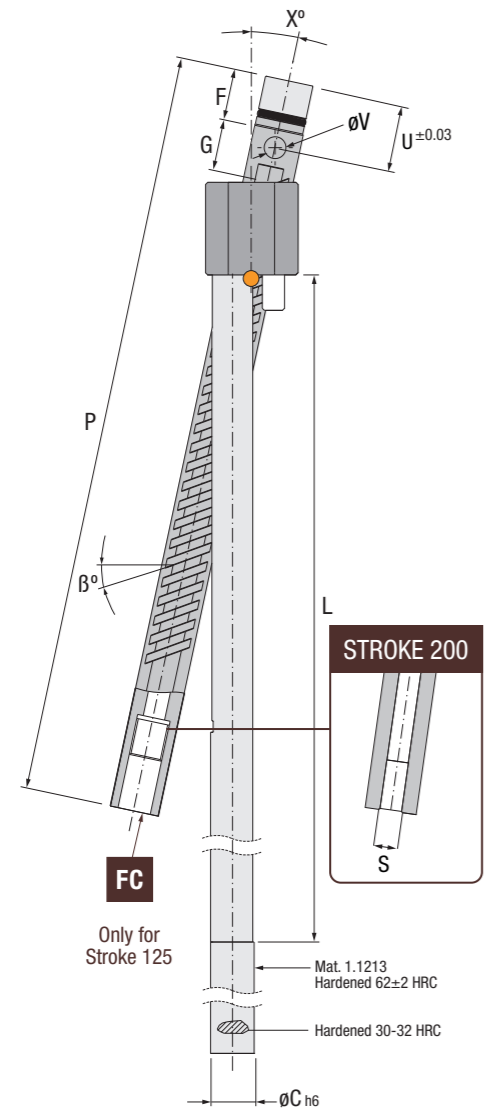


Patented

COOLED RACK LIFTER

ES Doble Cremallera Refrigerada DE Gekühltes Zweifach Zahnstangen System
IT Doppia Cremagliera con Refrigerazione PT Duplo Rack Refrigerado FR Double Rack Réfrigéré

● Cad Insertion Point



IMPORTANT !
Mirror part.
Pieza simétrica.
Symmetrisches Teil.
Versione a specchio.
Peça em espelho.
Pièce en miroir.

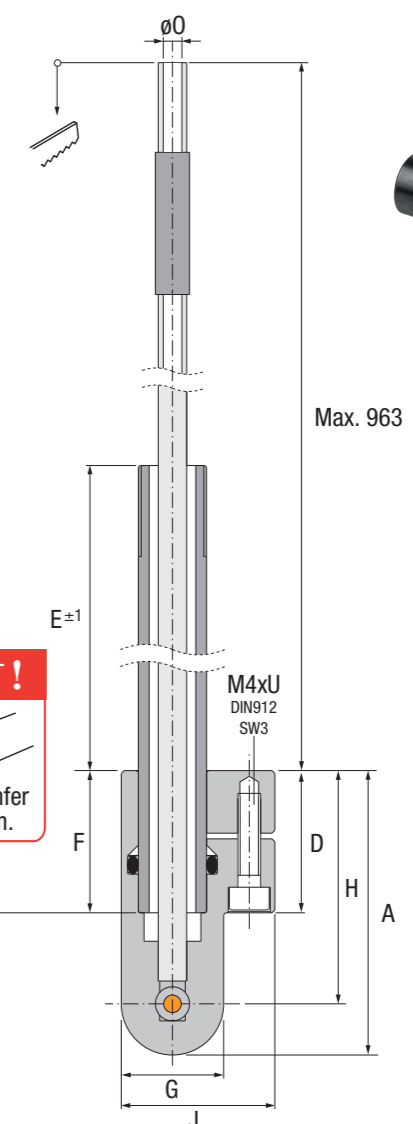
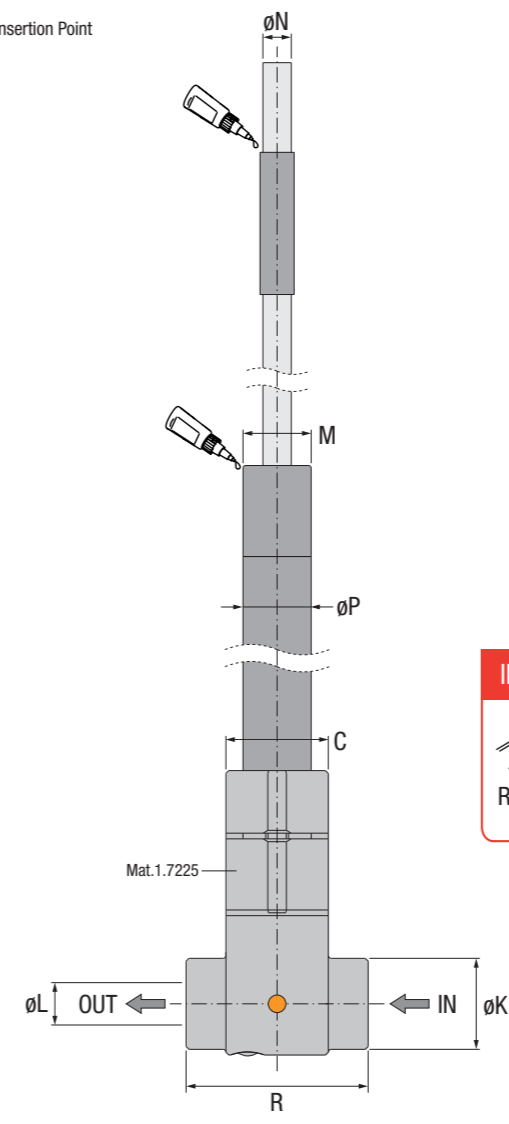
| | Ref. | X° | A | B | C | E | F | G | H | L | P | Q | R | S | T | U | V | OR | Mirror Ref. -S |
|------------|-------------|------------|----|----|----|----|----|----|------|-------|-----|------|-----|---------|-----|----|----|----------|----------------|
| Stroke 125 | KR.22125L-x | 8 12 16 20 | 22 | 12 | 12 | 22 | 16 | 20 | 10.8 | 282 | 260 | 6.5 | M6 | - | M6 | 23 | 8 | ø8x1.25 | KR.22125L-x-S |
| | KR.28125L-x | 8 12 16 20 | 28 | 16 | 14 | 28 | 16 | 20 | 13.8 | 294.5 | 272 | 8.5 | M8 | - | M8 | 23 | 8 | ø11x1.3 | KR.28125L-x-S |
| | KR.34125L-x | 8 12 16 20 | 34 | 20 | 16 | 34 | 18 | 20 | 17.8 | 311.5 | 275 | 10.5 | M8 | - | M8 | 25 | 8 | ø14x1.78 | KR.34125L-x-S |
| | KR.40125L-x | 8 12 16 20 | 40 | 22 | 20 | 40 | 20 | 25 | 19.8 | 342 | 350 | 10.5 | M10 | - | M10 | 28 | 10 | ø16x2 | KR.40125L-x-S |
| | KR.46125L-x | 8 12 16 20 | 46 | 24 | 24 | 46 | 22 | 25 | 21.8 | 361 | 350 | 10.5 | M12 | - | M12 | 30 | 10 | ø18x2 | KR.46125L-x-S |
| Stroke 200 | KR.58200L-x | 8 12 16 - | 58 | 30 | 30 | 66 | 25 | 55 | 26 | 362 | 430 | 13.5 | M20 | 1/4"Gas | M14 | 60 | 12 | ø21x2.5 | KR.58200L-x-S |
| | KR.76200L-x | 8 12 16 - | 76 | 40 | 40 | 80 | 30 | 60 | 34 | 392 | 470 | 17 | M24 | 3/8"Gas | M18 | 70 | 12 | ø28x3 | KR.76200L-x-S |

IMPORTANT !
Replace the **x** in the reference with the required X° dimension (8°, 12°, 16° or 20°) and indicate the required β°.
Sostituire la **x** della referencia por la cota X° deseada (8°, 12°, 16° o 20°), e indique el ángulo β° requerido.
Ersetzen Sie das **x** der Referenz durch den gewünschten X° Winkel (8°, 12°, 16° oder 20°). Geben Sie den benötigten β° Winkel an.
Sostituire la **x** del codice con l'angolo X° desiderato (8°, 12°, 16° o 20°) e indichiate la β° richiesta.
Substituir o **x** da referencia pela cota X° desejada (8°, 12°, 16° o 20°), e indique o angulo β° pretendido.
Remplacez la valeur **x** par la valeur angulaire X° désirée (8, 12, 16 ou 20). Ensuite indiquez l'angle β° correspondant.

KR COOLING HOSE

ES Tubo Refrigeración KR DE KR Kühlungsschlauch IT Sistema Refrigerazione KR PT Tubo de Refrigeração KR FR Tube de Refroidissement KR

● Cad Insertion Point

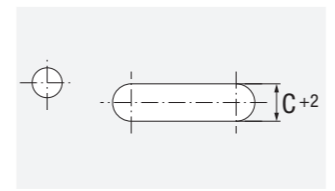


IMPORTANT !
Radius/Chamfer
Min. 0.8mm.

| Ref. | A | C | D | E | F | H | M | N | O | P | U | Compatible With |
|-----------|----|----|----|-------|------|----|-------|-----|-----|----|----|-----------------------|
| FC.220500 | 40 | 15 | 18 | 483.5 | 16.5 | 31 | M8x1 | 3.5 | 3 | 8 | 10 | KR.22125L |
| FC.280500 | 50 | 18 | 25 | 475 | 25 | 41 | M10x1 | 4.5 | 4 | 10 | 16 | KR.28125L |
| FC.340500 | 50 | 18 | 25 | 475 | 25 | 41 | M12x1 | 5 | 4.5 | 12 | 16 | KR.34125L |
| FC.400500 | 54 | 20 | 25 | 475 | 25 | 44 | M14x1 | 7 | 6.5 | 14 | 16 | KR.40125L / KR.46125L |

Installation Guidelines

Consejos de Instalación · Richtlinien zur Installation · Consigli di Installazione · Instruções de Instalação · Mode d'Installation



IMPORTANT !

| R ef. | Q | | | | | |
|--------------|------|----------|-----------|-----------|-----------|-----------|
| | β≤0° | 0°<β≤10° | 10°<β≤20° | 20°<β≤25° | 25°<β≤30° | 30°<β≤35° |
| KR.xx125L-8 | 10 | 15 | 18 | 20 | 23 | 25 |
| KR.xx125L-12 | 10 | 16 | 22 | 25 | 29 | - |
| KR.xx125L-16 | 10 | 18 | 26 | 31 | - | - |
| KR.xx125L-20 | 10 | 20 | 31 | - | - | - |

FC

UNDERCUTS



Max. 80°C

XR

UNDERCUTS



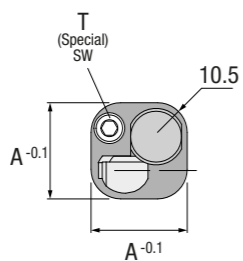
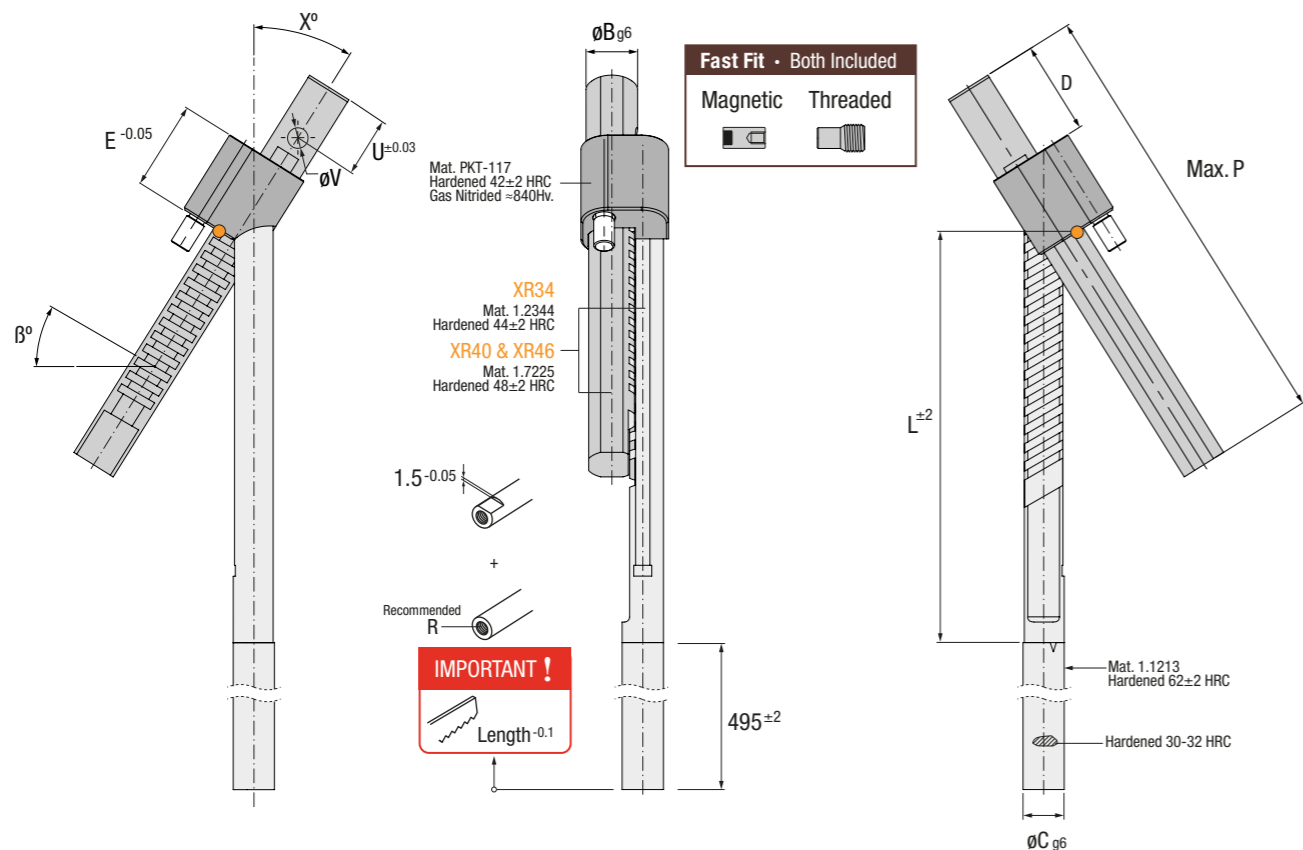
Patented

Max. 120°C

XTREME DOUBLE RACK

ES Doble Cremallera Xtreme DE Xtreme Double Rack
IT Doppia cremagliera Xtreme PT Xtreme Double Rack FR Double Crémaillere Xtreme

● Cad Insertion Point



IMPORTANT !
Mirror Part.
Pieza Simétrica.
Symmetrisches Teil.
Versione specchiata.
Peça em Espelho.
Pièce en Miroir.

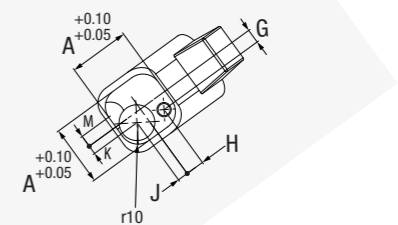
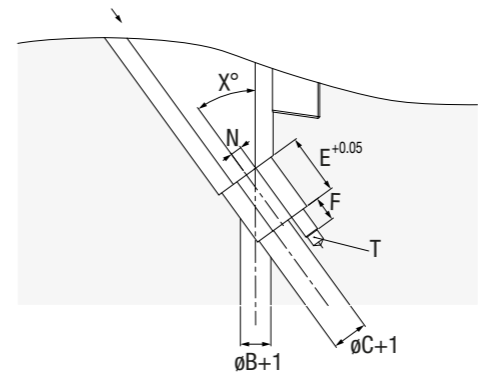
| Stroke 100 | X° | A | B | C | D | E | L | P | R | T | U | V | Stroke 100-S |
|------------|-------------|----|----|----|----|----|-----|-----|-----|-----|----|----|--------------|
| XR34100L-x | 24 28 32 36 | 34 | 20 | 16 | 36 | 34 | 159 | 225 | M8 | M8 | 23 | 8 | XR34100L-x-S |
| XR40100L-x | 24 28 32 36 | 40 | 22 | 20 | 36 | 40 | 170 | 240 | M10 | M10 | 20 | 10 | XR40100L-x-S |
| XR46100L-x | 24 28 32 36 | 46 | 24 | 24 | 42 | 46 | 174 | 255 | M10 | M12 | 26 | 10 | XR46100L-x-S |

IMPORTANT !
Replace the **X** in the reference with the required X° dimension (24°, 28°, 32° or 36°) and indicate the required B°.
Sustituir la **X** de la referencia por la cota X° deseada (24°, 28°, 32° o 36°), e indique el ángulo B° requerido.
Ersetzen Sie das **X** der Referenz durch den gewünschten X° Winkel (24°, 28°, 32° oder 36°). Geben Sie den benötigten B° Winkel an.
Sostituite la **X** del codice con l'angolo X° desiderato (24°, 28°, 32° o 36°) e indicate la B° richiesta.
Substituir o **X** da referencia pela cota X° desejada (24°, 28°, 32° o 36°), e indique o angulo B° pretendido.
Remplacez la valeur **X** par la valeur angulaire X° désirée (24°, 28°, 32° ou 36°). Ensuite indiquez l'angle B° correspondant.

INSTALLATION GUIDELINES

ES Consejos de Instalación DE Richtlinien zur Installation
IT Consigli di Installazione PT Instruções de Instalação FR Mode d'Installation

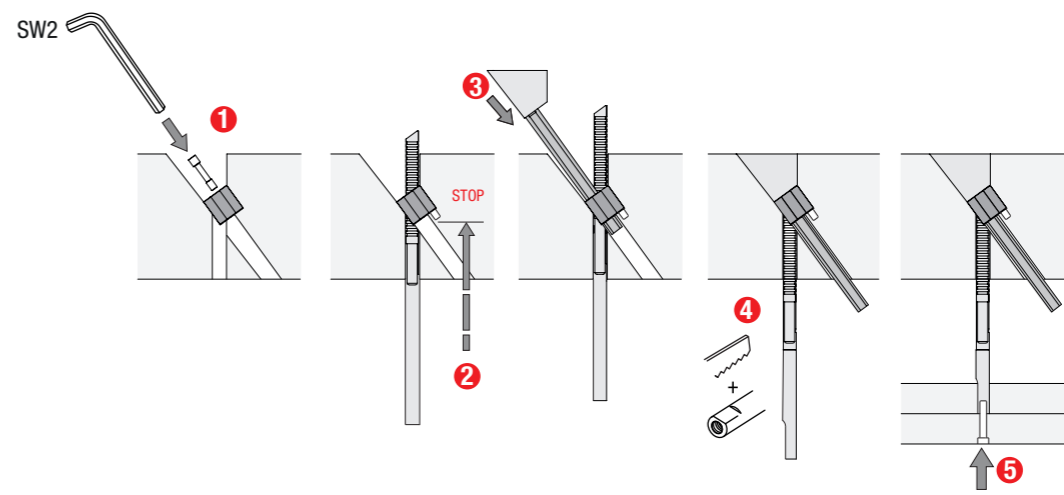
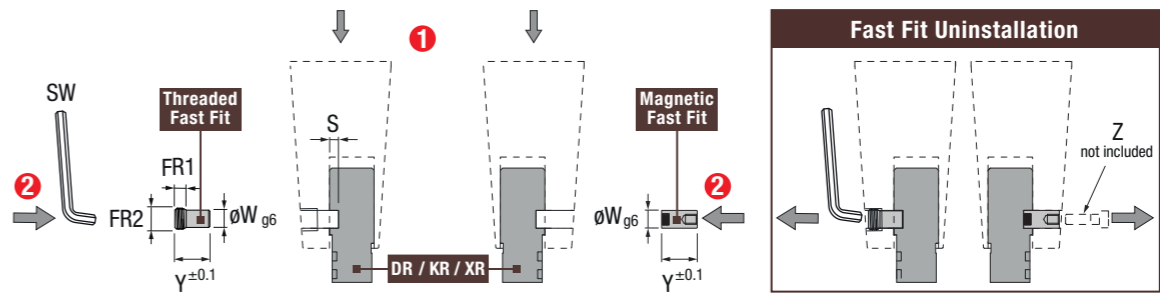
Core Housing
Alojamiento Placa Punzón
Einbaumaße DR Führung
Sede nel Punzone
Alojamento Bucha
Logement dans l'empreinte



| Stroke 100 | F | FR1 | FR2 | G | H | J | K | M | N | S | T | W | Y | Z | SW | SW2 |
|-------------|----|-----|-------|----|------|---|---|---|---|---|-----|----|----|----|----|-----|
| XR34100L-.. | 16 | 5.3 | M10x1 | 8 | 10.5 | 6 | 5 | 7 | 6 | 4 | M8 | 8 | 16 | M4 | 5 | 5 |
| XR40100L-.. | 20 | 8.5 | M12x1 | 11 | 11 | 7 | 7 | 8 | 7 | 4 | M10 | 10 | 20 | M6 | 8 | 12 |
| XR46100L-.. | 25 | 8.5 | M12x1 | 13 | 13 | 9 | 9 | 8 | 8 | 5 | M12 | 10 | 24 | M6 | 8 | 14 |

Installation Guidelines

Consejos de Instalación · Richtlinien zur Installation · Consigli di Installazione · Instruções de Instalação · Mode d'Installation



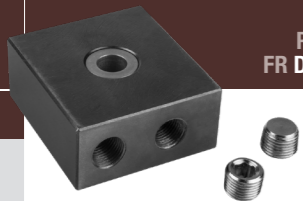
XR

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RD

COOLING DISTRIBUTOR
 ES Distribuidor Refrigeración
 DE Verteilerschlauch
 IT Distributore Refrigerazione
 PT Distribuidor de Refrigeração
 FR Distribution de Refroidissement



Cad Insertion Point

MK

CONNECTION HOSE
 ES Tubo Conexión
 DE Verbindungsschlauch
 IT Tubo Collegamento
 PT Tubo de Ligação
 FR Tube de Liaison



Cad Insertion Point

COOLING CONNECTOR
 ES Conector Refrigeración
 DE Kühlung Kupplungsstück
 IT Attacco Refrigerazione
 PT Conector de Refrigeração
 FR Connexion de Refroidissement



RL

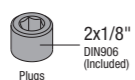
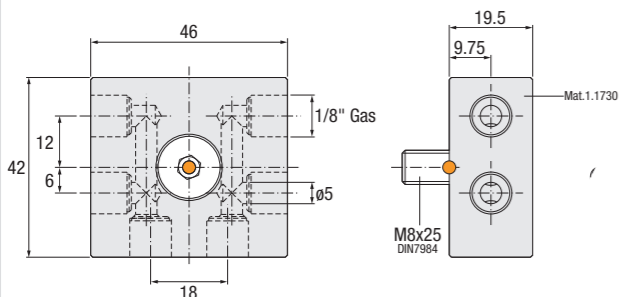
HOSE RETAINER
 ES Sujeta Tubos
 DE Schlauchhalter
 IT Ferma Cavi
 PT Retensor de Mangueira
 FR Retenu de Tuyau



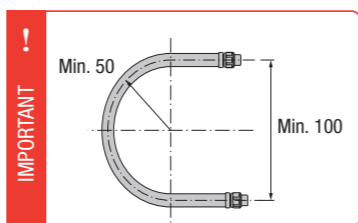
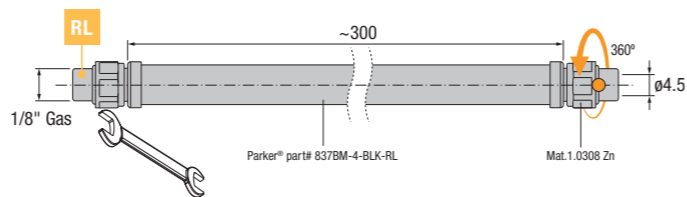
SM

EJECTION

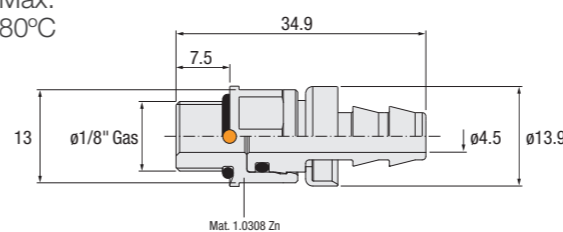
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Ref.
RD.182012



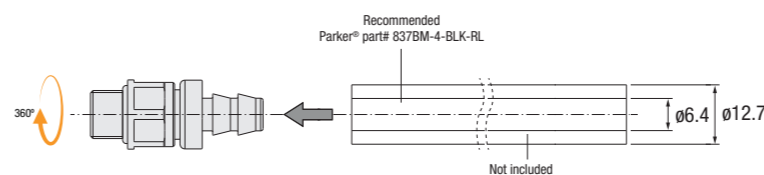
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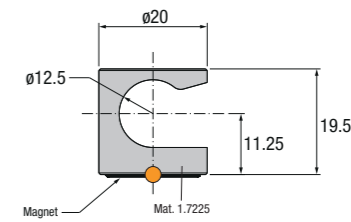
Ref.
RL.181235

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 Consigli di Installazione · Instruções de Instalação
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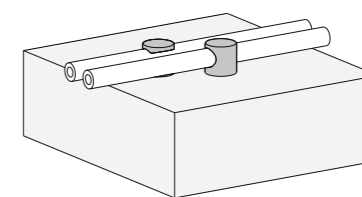
Cad Insertion Point



Ref.
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 Consigli di Installazione · Instruções de Instalação
 Mode d'Installation

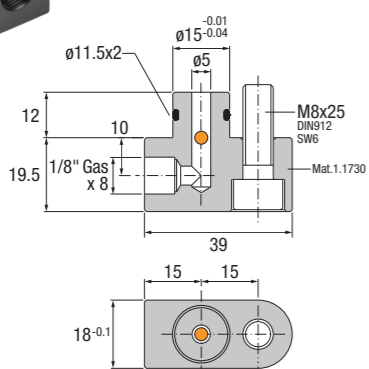


CK

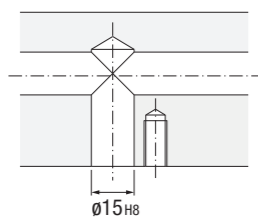
90° PLATE CONNECTOR
 ES Conector Placa a 90°
 DE 90° Platten-Verbindungsstück
 IT Collegamento Piastra a 90°
 PT Conector de Placa a 90°
 FR Connexion Dans la Plaque de 90°



Cad Insertion Point



Ref.
CK.181839

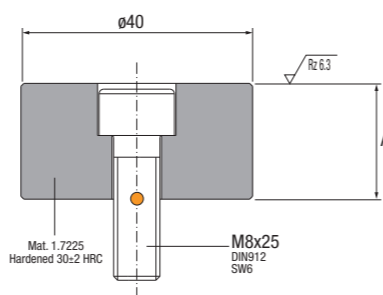


TR

EJECTOR PLATE SPACER
 ES Distancador Placa
 DE Auswerferplatte Abstandhalter
 IT Distanziale Piastra
 PT Espaçador de Chapas
 FR Entretoise de Passage



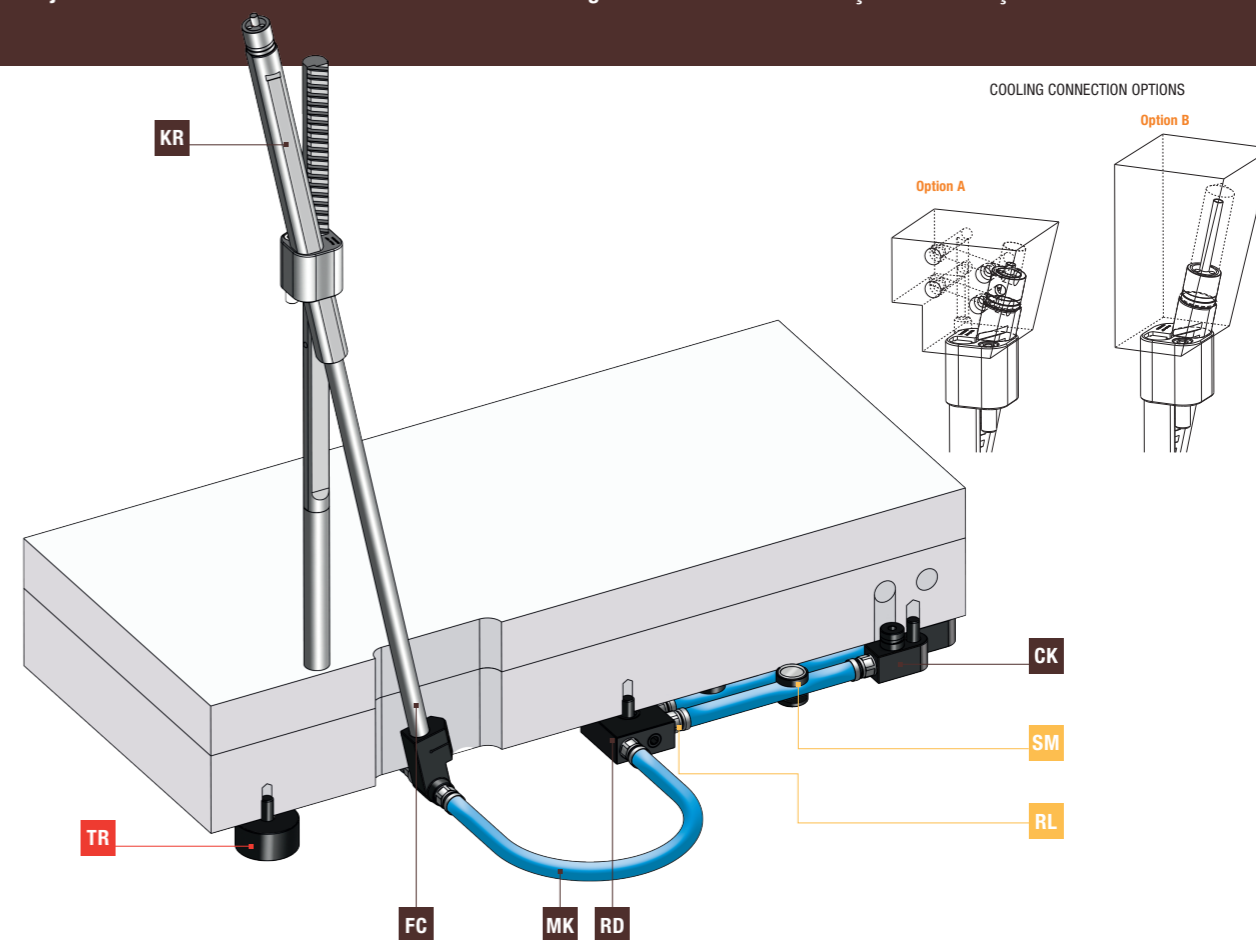
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|-----------|----|
| TR.204008 | 20 |
| TR.404008 | 40 |

INSTALLATION GUIDELINES

ES Consejos de Instalación DE Richtlinien zur Installation IT Consigli di Installazione PT Instruções de Instalação FR Mode d'Installation



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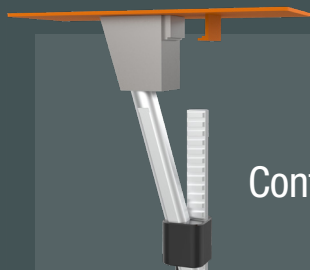
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