



Setembro 2024

Correntes e Componentes

WE MAKE
YOUR
BUSINESS
MOVE 



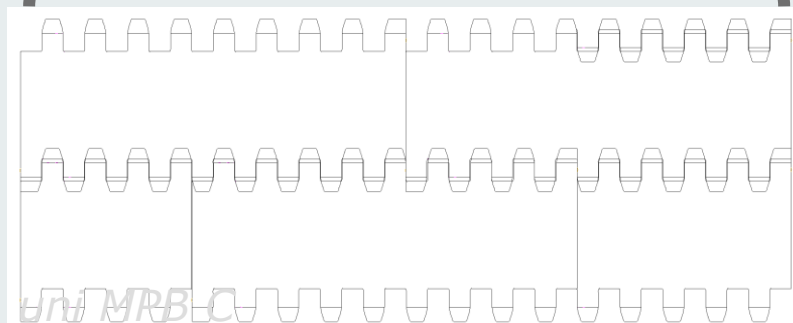
Correntes e Componentes



Diferença entre esteira modular e correntes

Esteiras

Padrão de parede de tijolos utilizado para aumentar a largura



Passo é medido entre os pinos (varetas)

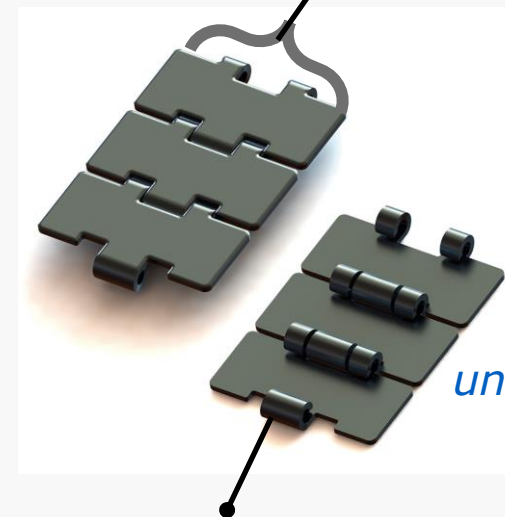
A carga é dividida entre os vários links

Mais de uma engrenagem são necessárias nos eixos motor e movido (a qde varia com a largura e carga)



Correntes

Moldado na largura



uni 810

A carga é concentrada em um link

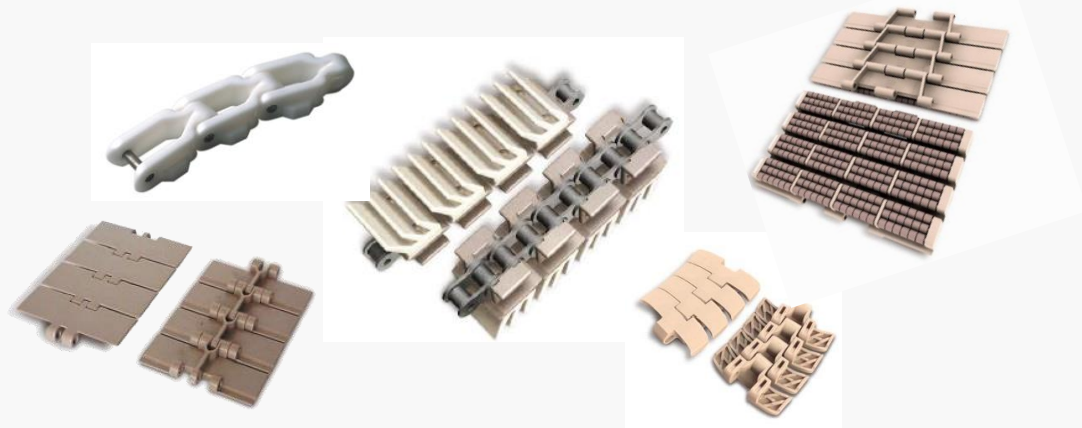
Apenas uma engrenagem em cada eixo (motor e movido)



Sobre o que estamos falando?



Correntes Plásticas

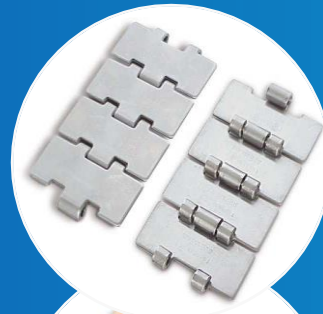


Correntes Metálicas





Chains overview



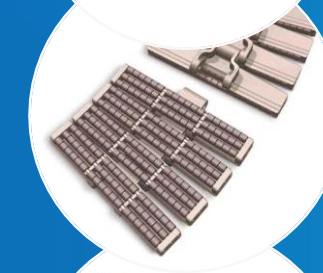
Corrente Metalica



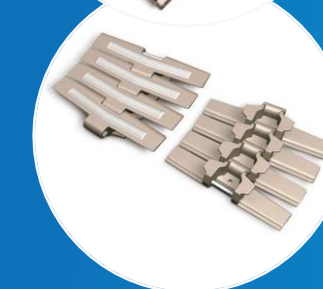
Corrente plástica



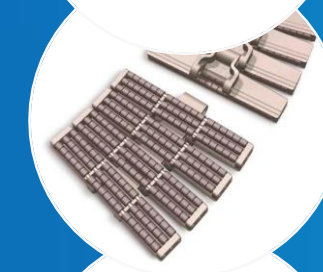
Chain Belts



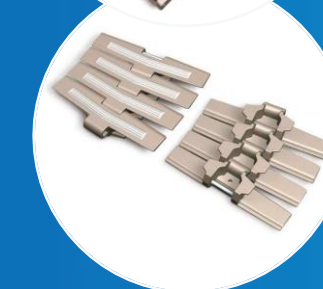
Plastic Snap-On Chains



Corrente para engradados

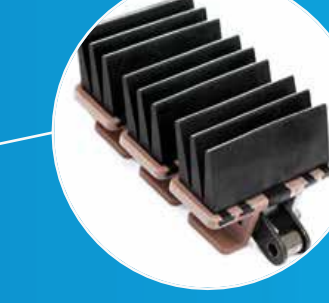
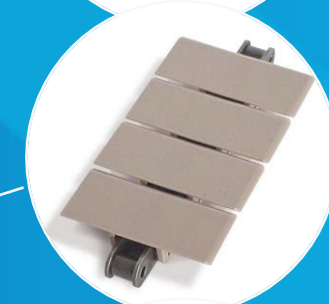


Corrente para baixa pressão de
acúmulo



Correntes com talisca

Correntes emborrachadas



Variedade

 <p>810/812/815 Pitch 1.50 in. (38.1 mm) Straight running</p>	 <p>800/802/805 Pitch 1.50 in. (38.1 mm) Straight running</p>	 <p>881 Pitch 1.50 in. (38.1 mm) Side flexing</p>	 <p>881 TAB Pitch 1.50 in. (38.1 mm) Side flexing</p>	 <p>881 Super Flex Pitch 1.50 in. (38.1 mm) Side flexing</p>	 <p>Magnet Type Pitch 1.50 in. (38.1 mm) Side flexing</p>	 <p>8811 Pitch 1.50 in. (38.1 mm) Side flexing</p>
 <p>8811 Tab Pitch 1.50 in. (38.1 mm) Side flexing</p>	 <p>8811 Super Flex Pitch 1.50 in. (38.1 mm) Side flexing</p>	 <p>820 Pitch 1.50 in. (38.1 mm) Straight running</p>	 <p>831 Pitch 1.50 in. (38.1 mm) Straight running</p>	 <p>821 Pitch 1.50 in. (38.1 mm) Straight running</p>	 <p>440 TAB Pitch 0.75 in. (19.05 mm) Side flexing</p>	 <p>879 Pitch 1.50 in. (38.1 mm) Side flexing</p>
 <p>879 TAB Pitch 1.50 in. (38.1 mm) Side flexing</p>	 <p>879 Super Flex Pitch 1.50 in. (38.1 mm) Side flexing</p>	 <p>880 Pitch 1.50 in. (38.1 mm) Side flexing</p>	 <p>880 TAB Pitch 1.50 in. (38.1 mm) Side flexing</p>	 <p>880 TAB-RT Pitch 1.50 in. (38.1 mm) Side flexing</p>	 <p>880 Super Flex Pitch 1.50 in. (38.1 mm) Side flexing</p>	 <p>882 Pitch 1.50 in. (38.1 mm) Side flexing</p>
 <p>882 TAB Pitch 1.50 in. (38.1 mm) Side flexing</p>	 <p>879 TAB Safety Pitch 1.50 in. (38.1 mm) Side flexing</p>	 <p>879 TAB Sfty. Finger Pitch 1.50 in. (38.1 mm) Side flexing</p>	 <p>882 SC-TAB Pitch 1.50 in. (38.1 mm) Side flexing</p>	 <p>880 Rib Pitch 1.50 in. (38.1 mm) Side flexing</p>	 <p>880 Rib Flex Pitch 1.50 in. (38.1 mm) Side flexing</p>	 <p>821-RO Pitch 1.50 in. (38.1 mm) Straight running</p>

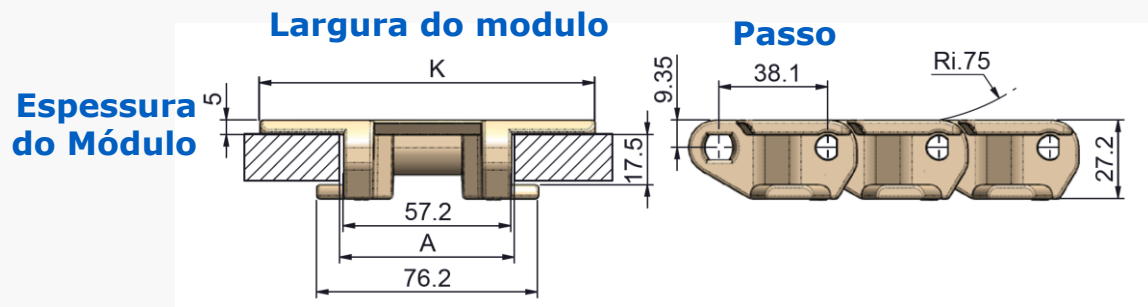
Variedade

 <p>821-PRR4 Pitch 1.50 in. (38.1 mm) Straight running</p>	 <p>821-PRR Pitch 1.50 in. (38.1 mm) Straight running</p>	 <p>879 TAB-R-G4 Pitch 1.50 in. (38.1 mm) Side flexing</p>	 <p>NH78 Pitch 2.61 in. (66.3 mm) Straight running</p>	 <p>3200 Pitch 2.00 in. (50.8 mm) Straight running</p>	 <p>3200 TAB Pitch 2.00 in. (50.8 mm) Side flexing</p>	 <p>843 Pitch 0.50 in. (12.7 mm) Straight running</p>
 <p>SK843 Pitch 0.50 in. (12.7 mm) Straight running</p>	 <p>1843 Pitch 0.50 in. (12.7 mm) Side flexing</p>	 <p>863 Pitch 0.75 in. (19.1 mm) Straight running</p>	 <p>863 TAB Pitch 0.75 in. (19.1 mm) Straight running</p>	 <p>963 Pitch 0.75 in. (19.1 mm) Straight running</p>	 <p>963 TAB Pitch 0.75 in. (19.1 mm) Straight running</p>	 <p>1873 ST Pitch 0.75 in. (19.1 mm) Straight running</p>
 <p>1873 Pitch 0.75 in. (19.1 mm) Side flexing</p>	 <p>1873 SE Pitch 0.75 in. (19.1 mm) Side flexing</p>	 <p>3873 Pitch 0.75 in. (19.1 mm) Side flexing</p>	 <p>Grip 1873-G3 Pitch 0.75 in. (19.1 mm) Side flexing</p>	 <p>Grip 1873-G4 Pitch 0.75 in. (19.1 mm) Side flexing</p>	 <p>Grip 1873-G4L Pitch 0.75 in. (19.1 mm) Side flexing</p>	 <p>Grip 1873-D Pitch 0.75 in. (19.1 mm) Side flexing</p>

Variedade

 <p>1700 Pitch 1.97 in. (50.0 mm) Side flexing</p>	 <p>1701 Pitch 1.97 in. (50.0 mm) Side flexing</p>	 <p>1701 TAB/TAB-R Pitch 1.97 in. (50.0 mm) Side flexing</p>	 <p>1701 TAB-R-ST Pitch 1.97 in. (50.0 mm) Side flexing</p>	 <p>1702 Pitch 1.97 in. (50.0 mm) Side flexing</p>	 <p>1702 M Pitch 1.97 in. (50.0 mm) Side flexing</p>	 <p>1702 H Pitch 1.97 in. (50.0 mm) Side flexing</p>
 <p>1703 Pitch 1.97 in. (50.0 mm) Side flexing</p>	 <p>1704 Pitch 1.97 in. (50.0 mm) Side flexing</p>	 <p>1705 Pitch 1.97 in. (50.0 mm) Side flexing</p>	 <p>1706 Pitch 1.97 in. (50.0 mm) Side flexing</p>	 <p>1707 Pitch 1.97 in. (50.0 mm) Side flexing</p>	 <p>2500 Pitch 2.50 in. (63.5 mm) Side flexing</p>	 <p>2600-C Pitch 2.50 in. (63.5 mm) Side flexing</p>
 <p>2600-CV Pitch 2.50 in. (63.5 mm) Side flexing</p>	 <p>2600-TAB-C Pitch 2.50 in. (63.5 mm) Side flexing</p>	 <p>2600-O Pitch 2.50 in. (63.5 mm) Side flexing</p>	 <p>2600-OV Pitch 2.50 in. (63.5 mm) Side flexing</p>	 <p>2600 TAB-O Pitch 2.50 in. (63.5 mm) Side flexing</p>	 <p>2600 TAB-O-M Pitch 2.50 in. (63.5 mm) Side flexing</p>	 <p>2700/2700-R Pitch 2.76 in. (70.0 mm) Side flexing</p>
 <p>2700 H/2700 H-R Pitch 2.76 in. (70.0 mm) Side flexing</p>	 <p>2700 LH Pitch 2.76 in. (70.0 mm) Side flexing</p>	 <p>3000 Pitch 3.15 in. (80.1 mm) Side flexing</p>	 <p>1400 Pitch 3.25 in. (82.5 mm) Side flexing</p>	 <p>1400 TAB Pitch 3.25 in. (82.5 mm) Side flexing</p>	 <p>2800 Pitch 3.25 in. (82.5 mm) Side flexing</p>	 <p>2800 TAB Pitch 3.25 in. (82.5 mm) Side flexing</p>

Modulo da corrente (Link)



Espeçura Total

Passo

- É a distância entre o centro dos pinos
- Passo Pequeno
 - Reduz a ação polygonal e vibração
 - Reduz o ruído
 - Transferências mais precisas

Dobradiça

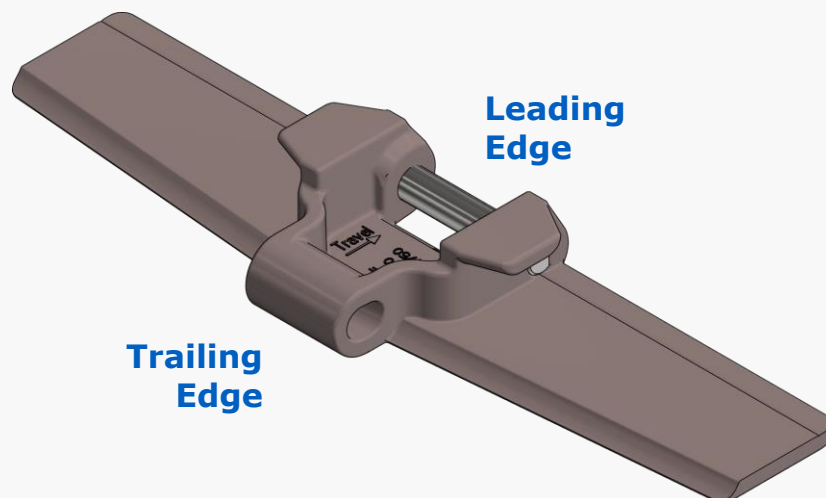
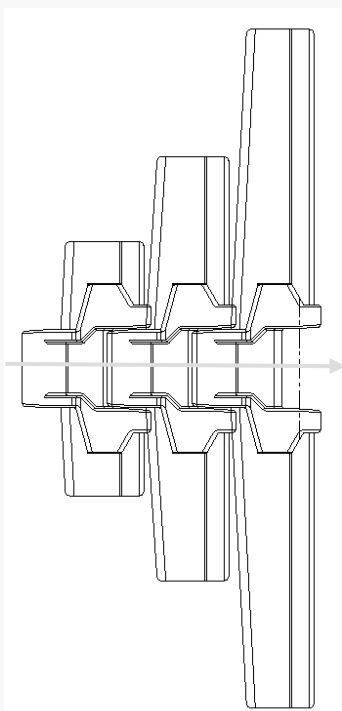
- A dobradiça se mantém do mesmo tamanho não importa a largura da corrente
- Modelos com dobradiça maior aumenta a Resistencia a tração.

Largura do módulo

- A largura do módulo não influênci na resistência a tração

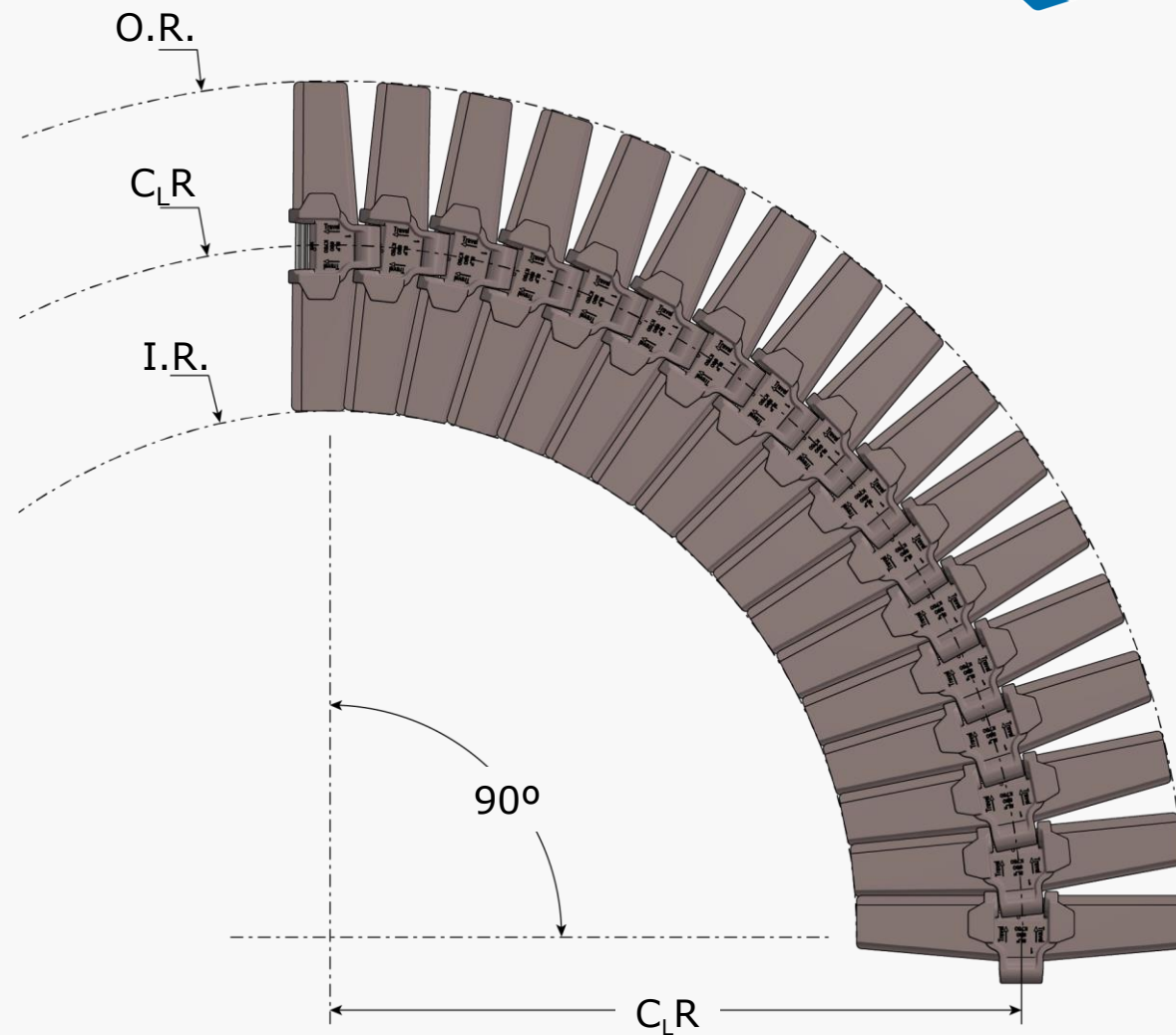
Espeçura do módulo

- Máódulos espessos melhoram:
 - Vida útil, especialmente em ambientes abrasivos
 - Resitência ao impacto



Nomenclatura da corrente

- I.R. = Raio Interno
- **C_LR = Linha media do raio**
- O.R. = Raio externo
- O ângulo no desenho é de 90°, outros ângulos são possíveis.



Correntes para percurso reto vs. Percurso curvo (Sideflexing)



Percurso reto



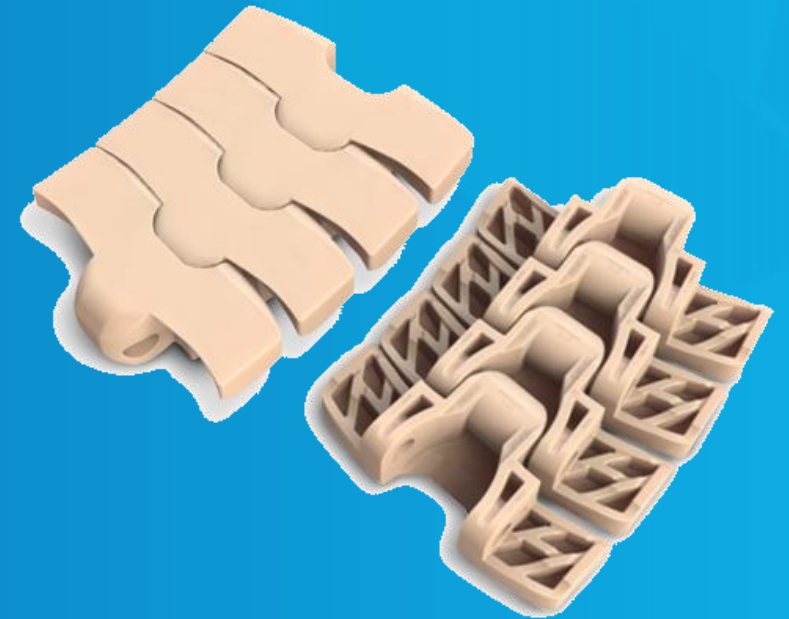
Percurso curvo

Percurso reto vs. Percurso Curvo

- Todas as esteiras Uni podem ser utilizadas em percurso reto
- Para curvas as correntes Side Flex são obrigatórias.
- Correntes Side Flex tem um desenho que permite a curvature, tanto na dobradiça quanto na extremidade.



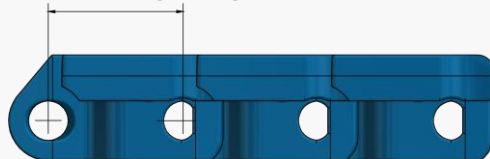
Correntes



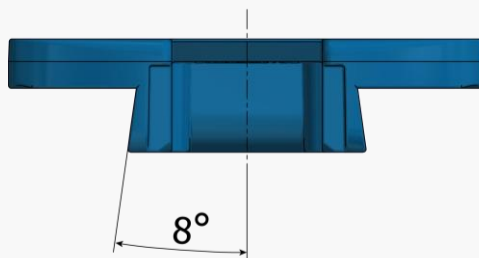
uni 253 e 255

Passo

25.4 mm (1" in)



Tipo de base

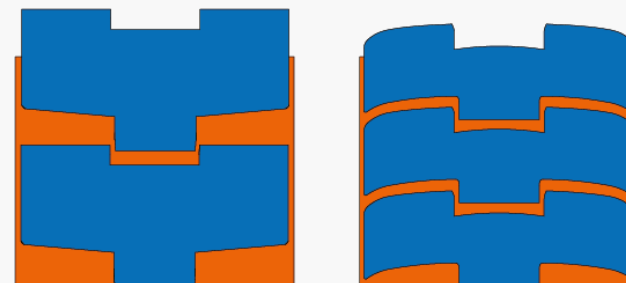


8°



Espaço entre módulos

Bevel



TAB

■ Superfície de contato entre a corrente e o produto

■ Espaço entre os módulos

Magnetic

A corrente uni 253 & uni 255 tem **30% menos área aberta** comparada com a uni 880

Espessura



8.70

uni 253

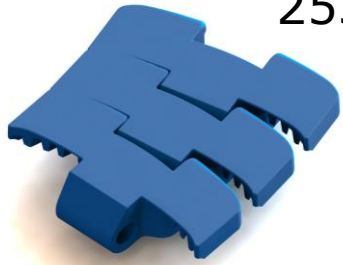


12.50

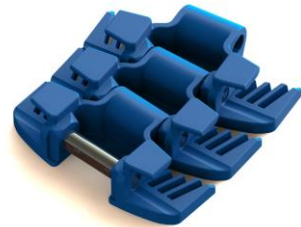
uni 255

uni 253 e 255

253 FT Bevel



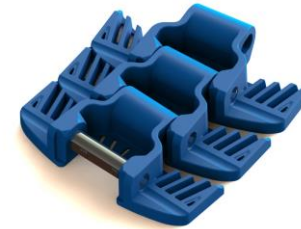
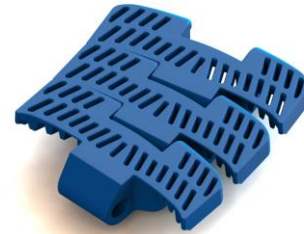
253 FT TAB



253 FT M



253 FG M



255 FT TAB



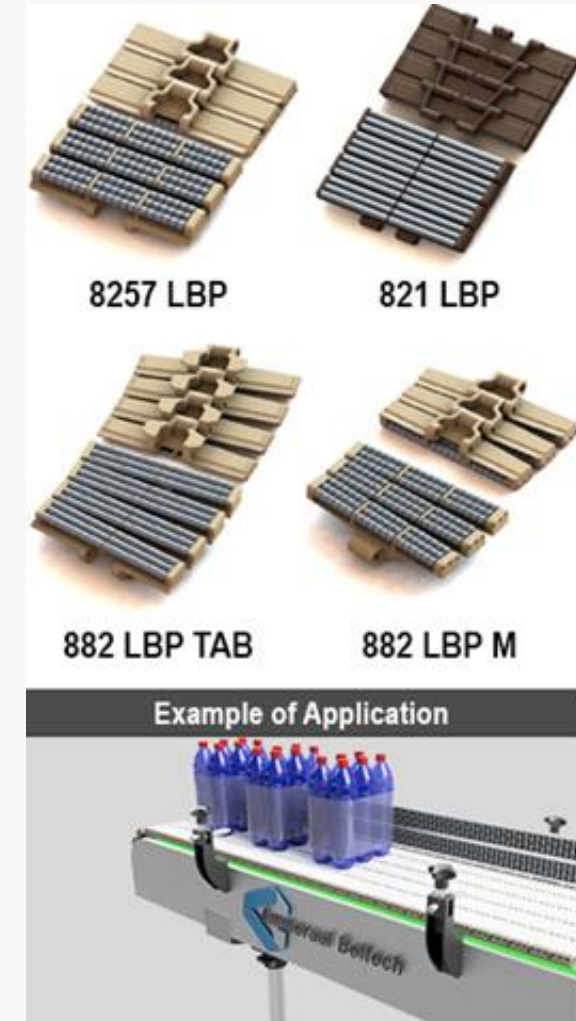
255 FT M



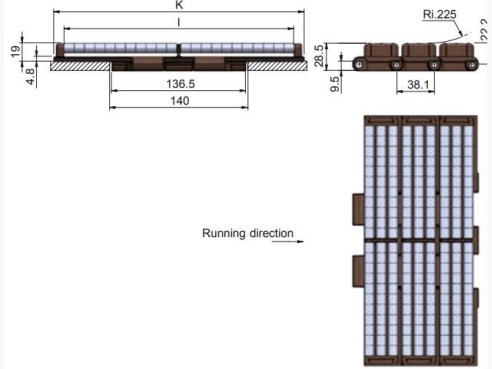
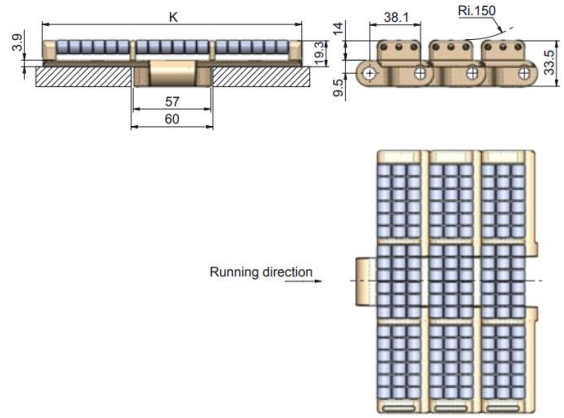
Correntes para baixa pressão de acúmulo



- Desenhada para minimizar a área de contato com o produto e a pressão da linha
- Ideal para produtos delicados ou que se danificam facilmente
- Roletes funcionam para reduzir o atrito onde existe acúmulo de produtos.
 - Usada para transporte de caixas, badeijas, pacotes, etc.
- Quatro tipo de correntes LBP (Low Back Pressure)
 - Percurso reto, dobradiça simples (8257 LBP)
 - Percurso reto, dobradiça dupla (821 LBP)
 - Percurso curvo, tab hinge (882 TAB LBP)
 - Percurso curvo, magnética (882 M LBP) *cross-sell magnetic curves



Percurso Reto

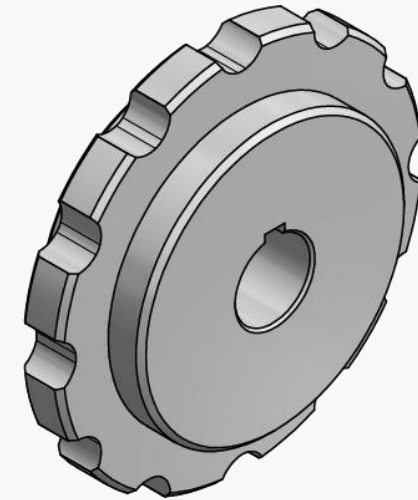
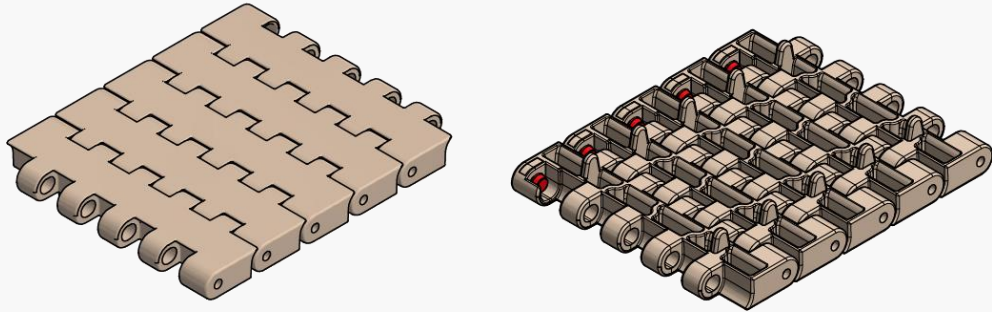
Series	Hinge Type	Flight Thickness	Pitch	Tensile Strength	Sprocket	Comp. Chain Drop-In	Comp. Sprocket Drop-In	Feature	Drawing or Photo
821 PRR	Double Hinge (Hinge Width: 136.5mm)	5.0mm	1.5in	3000N	Standard 821 & 802 Sprocket	Yes	Yes	Two times stronger than uni 820, great for large diameter products (cardboard/plastic containers)	
8257 PRR	Single Heavy Duty Hinge (Hinge Width 57mm)	4.8mm	1.5in	3900N	Standard 882 sprocket	Yes	Yes	4 x stronger than 820	

Side Flexing- Tab

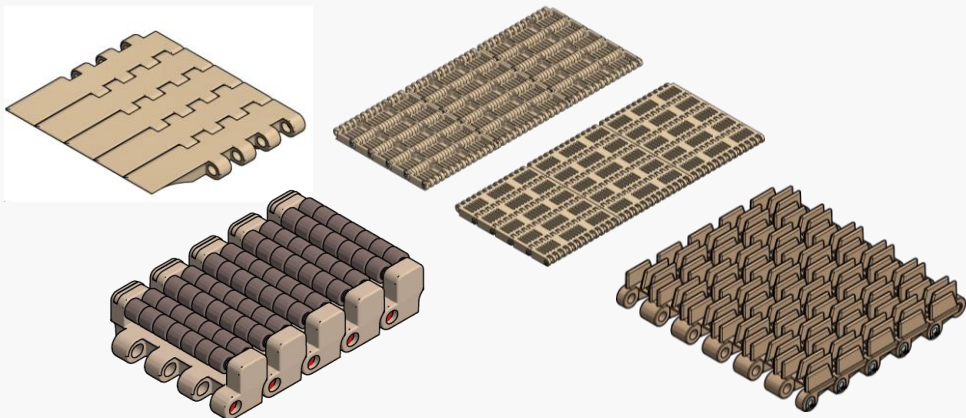


Series	Hinge Type	Flight Thickness	Min Radius	Pitch	Tensile Strength	Sprocket	Comp. Chain Drop-In	Comp. Sprocket Drop-In	Feature	Drawing
882 Tab PRR/M (magnetic)	Standard (Hinge Width 57.2mm)	4.0mm	610mm	1.5in	4000N	Standard 880 Sprocket	Not 100%	Yes	Industry Standard for slow to medium speeds	<p>The drawing includes three views: a side cross-section showing dimensions 22.5, 17.2, 19.3, 4.8, 57, A, and 75.5; a top-down view showing dimensions 41.7, 9.5, 17.8, 38.1, and a radius of Ri.150; and a perspective view showing the chain's flexibility with a 'Running direction' arrow and a 'RM' label.</p>

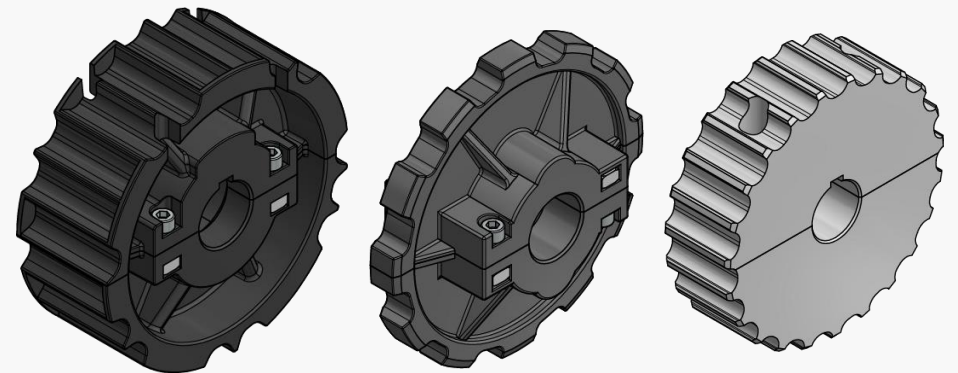
Sobre o que estamos falando?



Esteiras utilizadas na industria de bebidas



Engrenagens



Plastic Chain Materials



POM LF (Low Friction): *Industry standard* for slat top and snap-on chains. Copolymer acetal material with special additives to reduce coefficient of friction.

Application: General

Common Color: Brown

Food Grade: Yes **Temp Range:** -40C to 80C **Load Index:** 100

POM SLF (Super Low Friction): Special acetal with *enhanced* lubrication compared to regular LF to provide lower friction and better wear resistance longer term.

Application: Bottling (PET case packers/palletizers), high speed, dry applications

Common Color: Dark Grey

Food Grade: Yes **Temp Range:** -40C to 80C **Load Index:** 100

POM D: Polyoxymethylene or Acetal is a thermoplastic material with *very good mechanical and thermal properties*. Low coefficient of friction and good wear resistance. *Also available in DI (impact resistant)*

Application: Food, beverage, and bottling (cans), poultry crate conveyors

Common Color: Natural White and Grey

Food Grade: Yes **Temp Range:** -40C to 80C **Load Index:** 100

PP AR (Acid Resistant): Glass filled, homopolymer that is an *acid resistant* material.

Application: Chemical industry, battery, bottling

Common Color: Natural White

Food Grade: NA **Temp Range:** -40C to 105C **Load Index:** 50

PA 66: Thermoplastic material with a *high resistance* to wear, *high strength*, and great stiffness.

Application: Bakery and Glass Bottling

Common Color: Black

Food Grade: Yes **Temp Range:** -40C to 140C **Load Index:** 100

Other common materials:

POM-DK; PA66GF, POM-EC, POM-AS

[Full Material Overview](#)



Corrientes metálicas



Correntes metálicas Visão Geral



Steel Material Overview

Aço Carbono- **C45 (S)**

- Alta Resistencia a tração e desgaste. 810, 800
- Uso geral, ex na indústria da madeira

Aço Martensítico– **AISI 430**

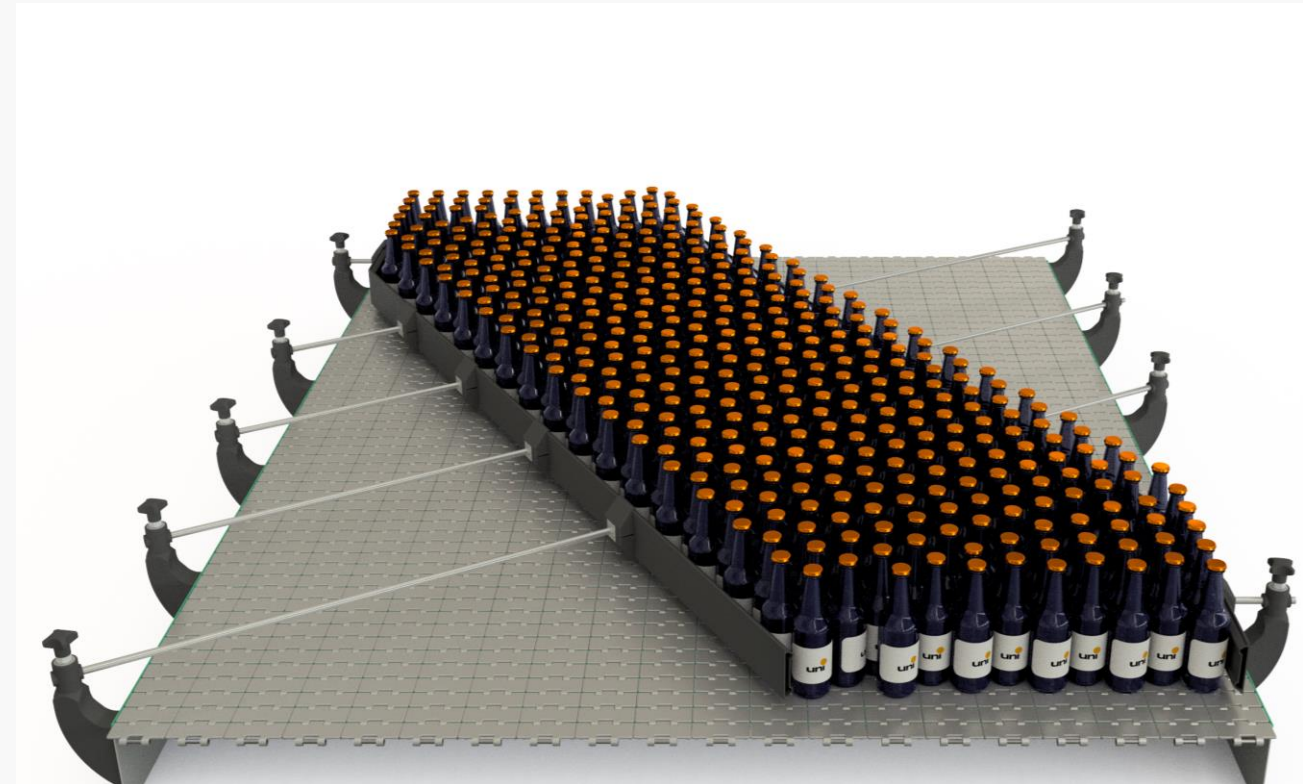
- Material Economico. uni 812, 802, etc.
- Aplicações. Baixa produção de garrafas e panificação

Aço Martensítico Premium– **AISI 420**

- Material Premium. Uni Plus series
- Linhas de alta velocidade

Aço Austensítico – **AISI 304**

- Alta Resistência Química e Contato direto com alimento. Uni 815, 805
- Aplicações com alimento; Panificação, química



Produto Overview – Correntes metálicas

Reto

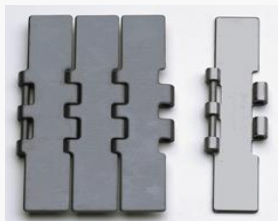
810/812/815



815 Narrow



802/805



512/515



8157



Rubber top



Curva

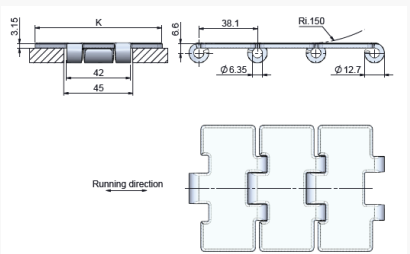
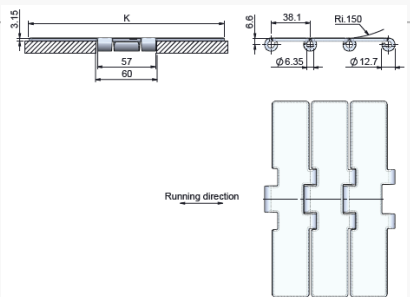
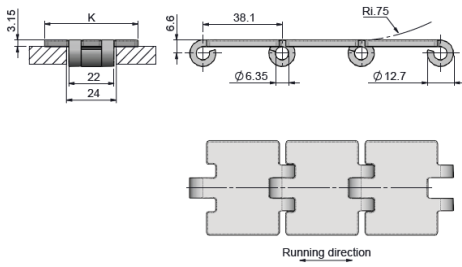
881/8811



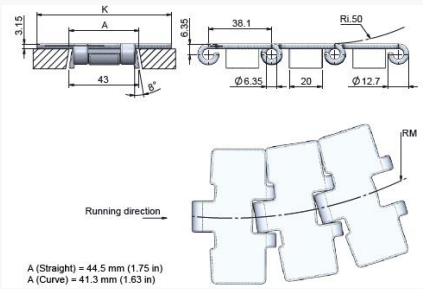
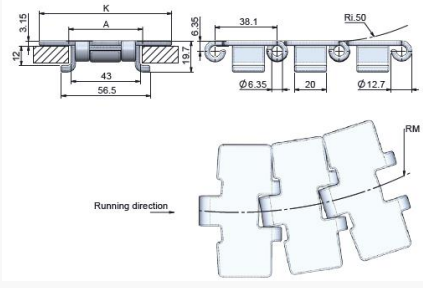
8857

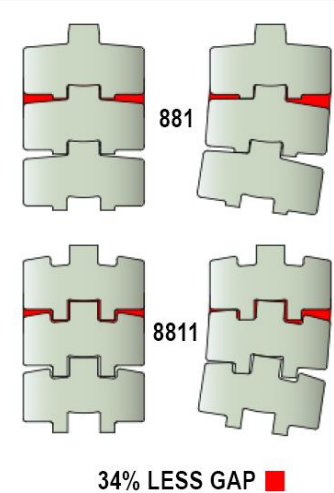


Percurso reto – Dobradiça Simples

Series	Flight Thickness	Pitch	Hinge Type	Tensile Strength	Sprocket	Comp. Chain Drop-In	Comp. Sprocket Drop-In	Feature	Drawing
810 (S1045) 812 (SS430) 815 (SS304) 815Plus (S420 35)	3.15mm	0.5in	Standard 42mm	5500N	Standard 815 & 820 Sprocket	Yes	Yes	Smooth top ensures ability to convey individual, packed, and cased goods.	
8157	3.15mm	0.75in	Heavy Duty Hinge 57mm	7000N	Standard 8157	Yes	Yes	15-20% higher strength than 810/812/815 K750 only	
812/815 Narrow	3.15mm	1.5in	Small hinge 22mm	2750N	815 Narrow	Yes	Yes	Conveying smaller glass products	

Side Flexing- Dobradiça Simples

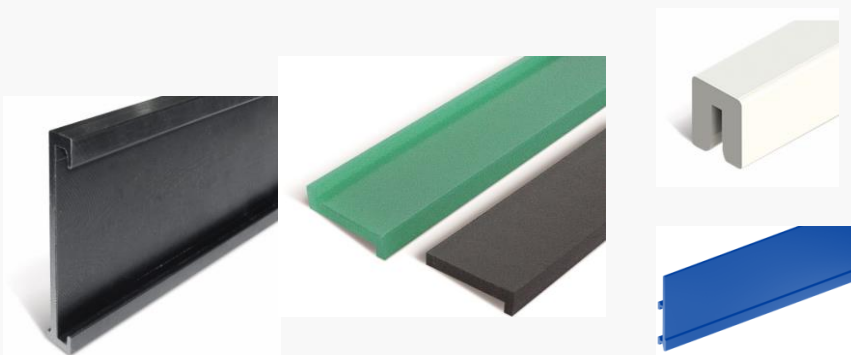
Series	Flight Thickness	Pitch	Min. Turn Radius	Hinge Type	Tensile Strength	Sprocket	Comp. Chain Drop-In	Comp. Sprocket Drop-In	Feature	Drawing
881 Tab	3.15mm	1.5in	457m m	Standard 42m m	6000N	Standard 881 sprocket	Not 100%	Yes	Able to withstand high temperatures and easy to clean.	
8811 Tab	3.15mm	1.5in	200m m	43m m	6000N	Standard 881 sprocket	Not 100%	Yes	34% less gap on top compared to 881 tab.	



Sobre o que estamos falando?



Perfis de desgaste



Pés

Tri-pés



Suportes

Suportes



Mancais

& Muito mais...



Componentes



Curvas Magnéticas

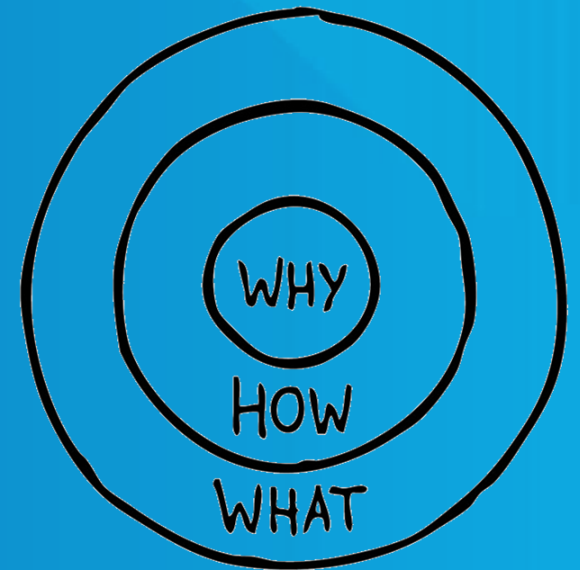
Curvas e pistas



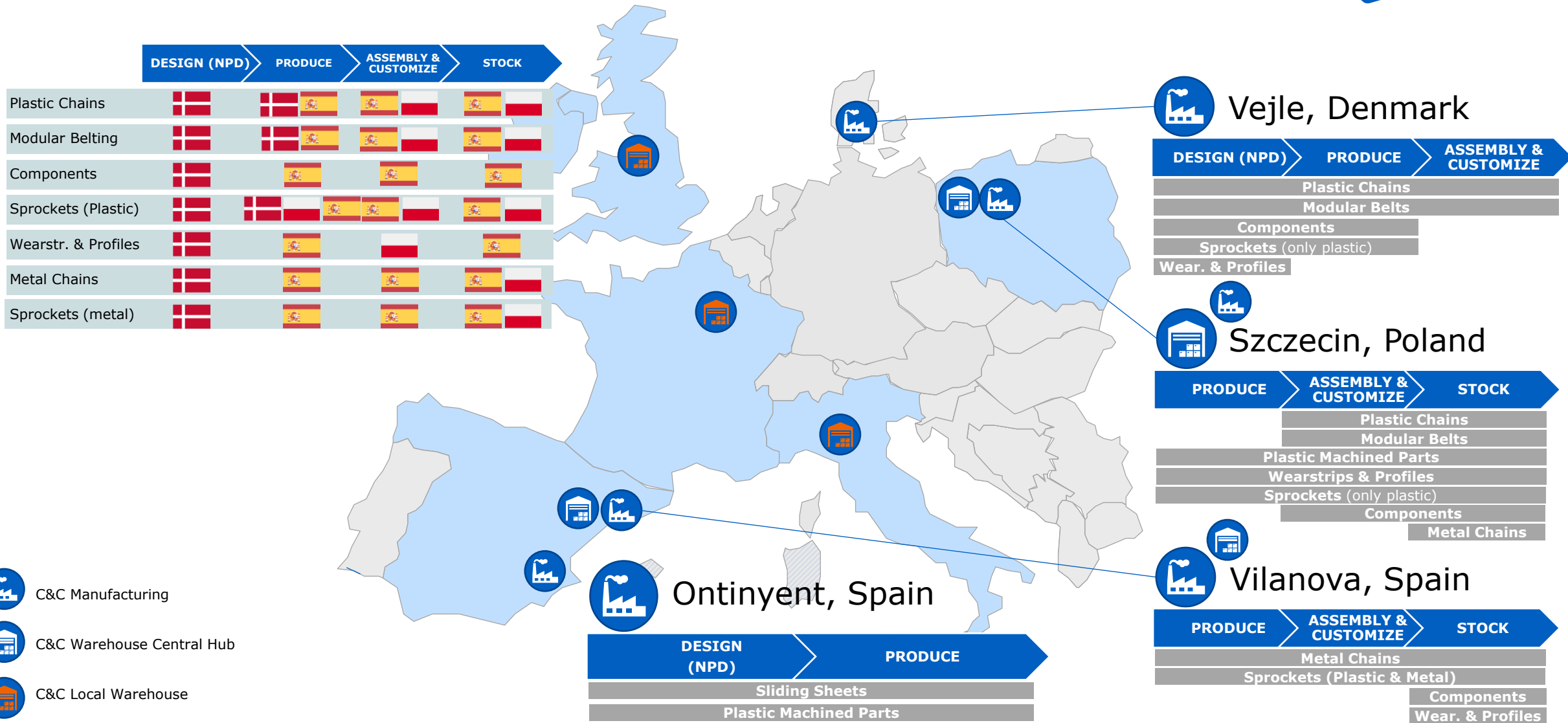
Peças Usinadas



Onde é desenvolvido e fabricado?



Correntes e Componentes



- C&C Manufacturing
- C&C Warehouse Central Hub
- C&C Local Warehouse

¹ Automated assembly of high-volume plastic chains integrated in the injection molding process (in-line)

² MTO plastic chains as well as low-volume plastic chains

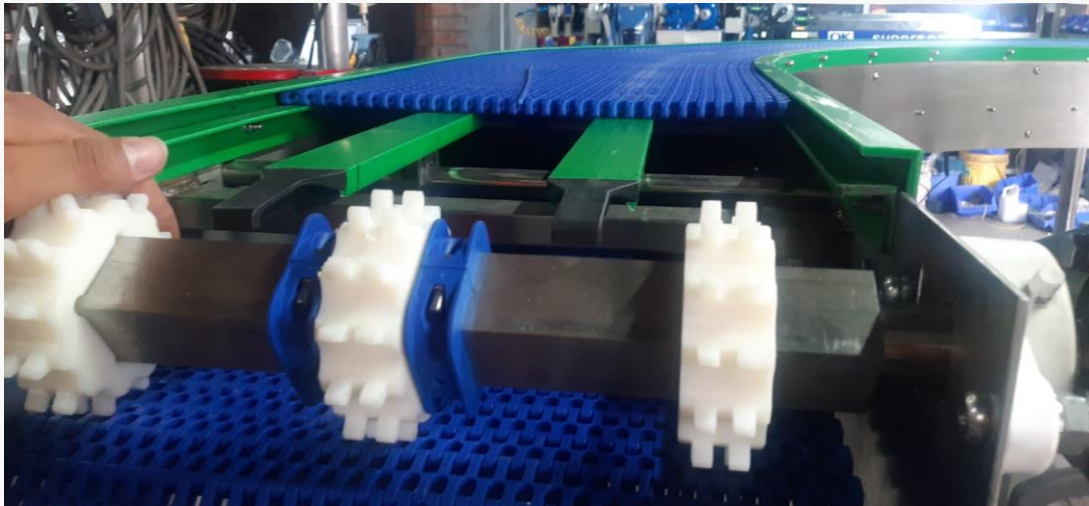
Exemplos de aplicações



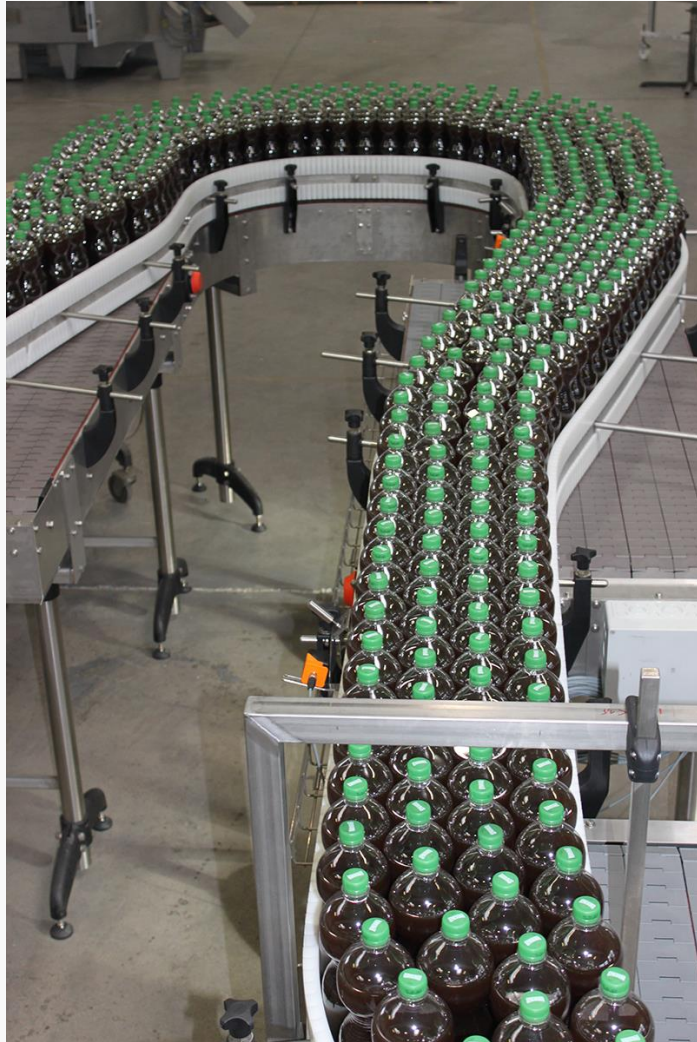
Exemplos de aplicações



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Exemplo de aplicações



Exemplos de aplicações



Exemplos de aplicações



Exemplos de aplicações



Exemplos de aplicações



Exemplos de aplicações



Exemplo de aplicações



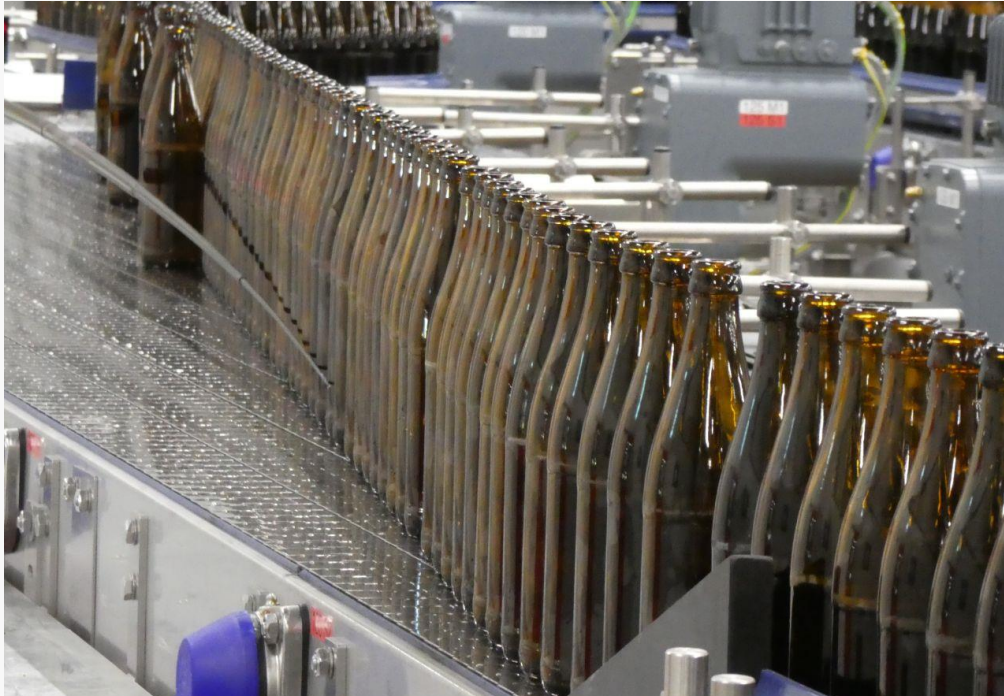
Exemplos de aplicações



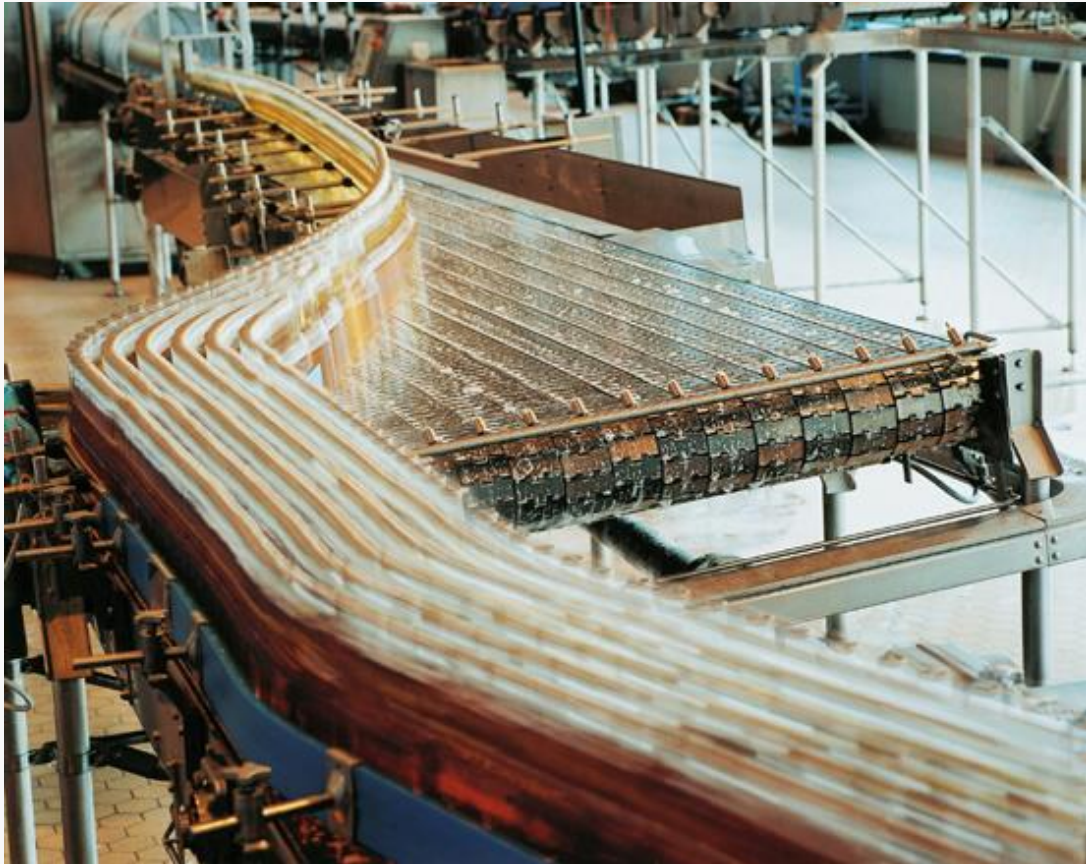
Exemplos de aplicações



Exemplo de aplicações



Exemplos de aplicações



Exemplos de aplicações



Exemplos de aplicações

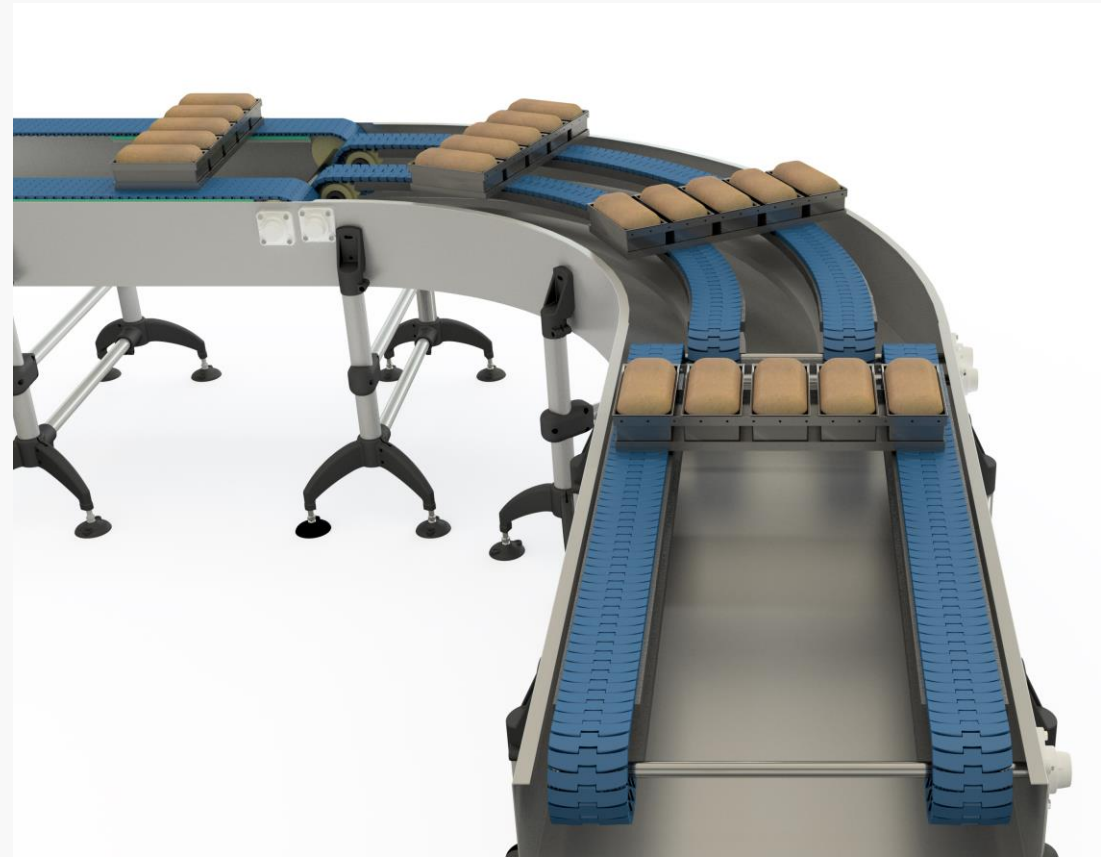


Exemplos de aplicações

Curves for Snap-On Chains



Curves for multiflex and chain belts chains





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