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Hinged slat chains for conveyors

INOX

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2004

MAGRIS®

Contents

Materials	**Page 02**
Chain sizing	**Page 04**
Straight running hinged slat chains	**Page 08**
Super - Hard Inox	Page 08
Superspeed - HQ Inox	Page 09
Wear-Proof - HQ Inox	Page 09
Standard - Inox	Page 09
Special - Inox	Page 10
Stella D. - Inox 18/8	Page 10
316 - Inox 316	Page 10
Accate - Carbon steel	Page 11
Accate-C - Carbon steel	Page 11
“Mignon” straight running hinged slat chains	**Page 12**
Standard - Inox	Page 12
Stella D. - Inox 18/8	Page 12
Super - Hard Inox	Page 13
Straight running hinged slat chains - Reinforced hinge	**Page 14**
Super - Hard Inox	Page 14
Straight running hinged slat chains - double hinge	Page 15
Standard - Inox	Page 15
Super - Hard Inox	Page 15
Stella D. - Inox 18/8	Page 15
Accate - Carbon Steel	Page 16
Straight running hinged slat chains - double reinforced hinge	**Page 16**
Stella D. - Inox 18/8	Page 16
Hinged slat chains for sideflexing conveyors	**Page 17**
Flex RXMC - Inox	Page 17
Flex RXMS - Hard Inox	Page 17
Flex RXM - Inox 18/8	Page 18
Flex RXM 316 - Inox 316	Page 18
Flex RXMA - Carbon Steel	Page 18
Flex FMS - Hard Inox	Page 19
Flex FMD - HQ Inox	Page 19
Flex FM - Inox 18/8	Page 19
Flex FMS2 R=200 mm - Hard Inox	Page 20
Flex FM2 R=200 mm - Inox 18/8	Page 20
Hinged slat chains for sideflexing conveyors on magnetic tracks	**Page 21**
New Flex Mag - Hard Inox	Page 21
New Flex Mag-D - HQ Inox	Page 21
Hinged slat chains - Reinforced hinge for sideflexing conveyors on magnetic tracks	**Page 22**
New Flex Mag - Hard Inox	Page 22
Hinged slat chains with rubber top for inclined conveyors	**Page 23**
Super-G/DHG - Hard Inox	Page 23
Hinged slat chains with rubber top for inclined conveyors	**Page 24**
Flex RXMS-G/New Flex-G Mag - Hard Inox	Page 24
Block body machined steel sprockets	**Page 25**
“1864” Straight running hinged slat chains with base roller chain	**Page 26**
“1874”Hinged slat chains with base roller chain for sideflexing conveyors	**Page 27**
Steel corrosion resistance table	**Page 28**

Materials

The MAGRIS chains are produced with high quality steel/stainless steel in order to satisfy the growing needs of technological progress in the conveyor sector.

SLATS

Hard Inox

Special work hardened, chrome-nickel, highly wear and corrosion resistant stainless steel. It has excellent mechanical characteristics and exceptional sliding properties, due to a very low surface roughness.
It is particularly suitable for the critical points of the bottling lines.
Material used for the Super, Flex RXMS, Flex FMS, Flex FMS2, New Flex Mag, Super-G, Flex RXMS-G, New Flex Mag-G models.

Inox

Ferritic, AISI 430 stainless steel, work hardened by cold-rolling, with good corrosion resistance. It has an excellent surface finishing with low roughness, a remarkably important quality for the sliding of the conveyed products.
It is used in standard bottling industry applications.
Material used for the Special, Standard, Flex RXMC models.

HQ Inox (high quality)

Special, new, chrome-nickel (W.1.4589) stainless steel, work hardened. It has been developed in cooperation with a major stainless steel manufacturer for very special applications such as pressureless combiners/inliners. Cold rolled to extremely high quality standards, this new material has unique features:

- exceptional surface finishing and flatness;
- very high working load and wear resistance.

The right answer to the most sophisticated needs.
Material used for the Superspeed, Wear-Proof, Flex FMD, New Flex Mag-D models.

Inox 18/8

Austenitic and non-magnetic AISI 304 stainless steel (18% Chrome - 8% Nickel), work hardened for high resistance.
It provides excellent resistance to chemical agents and corrosion.
It has excellent mechanical and duration characteristics.
It is particularly used in the preservation and bottling industry.
Material used for the Stella D., Flex RXM, Flex FM, Flex FM2 models.
*** Approved by the Food and Drug Administration (FDA), American Government Organization for the direct contact with foodstuffs.

Inox 316

Austenitic AISI 316L stainless steel (18% Chrome - 14% Nickel - 3% Molybdenum).
It is used with chemical agents and strong acids.
Material used for the 316, Flex RXM 316 models.

Carbon Steel

Heat-treated carbon steel with a surface and core hardness of 43 HRC. It is particularly suitable for high working loads and is highly resistant to wear. It is used in the glass, ceramic and general product conveying industry. Material used for the Accate, Flex RXMA models.
*** For difficult applications and with abrasive dust, upon request, the Carbon Steel can be case hardened, reaching a surface hardness of 55 HRC and a core hardness of 40 HRC.

PINS

In the Special, Standard, Super, Super-G, Stella D., Flex RXMC, Flex RXMS, Flex RXMS-G, Flex FMS, Flex FMS2, Flex RXM, Flex FM, Flex FM2 models the pins are made of austenitic stainless steel (18% Chrome - 8% Nickel), work hardened for high resistance.
In the Wear-Proof, Superspeed, Flex FMD, New Flex Mag, New Flex Mag-D, New Flex Mag-G models the pins are made of magnetic stainless steel AISI 431, 400 series, work hardened for high resistance.
In the 316, Flex RXM 316 models the pins are made of austenitic AISI 316 stainless steel.
In the Accate, Flex RXMA models the pins are made of case hardened carbon steel.

N.B.: Upon request, we can produce all our chains with other types of stainless steel.

Materials	Minimum temperatures	Maximum temperatures	
		Dry env.	Wet env.
Inox	- 40°C	+ 260°C	+ 120°C
Hard Inox	- 40°C	+ 400°C	+ 120°C
HQ Inox	- 40°C	+ 430°C	+ 120°C
Inox 18/8	- 40°C	+ 400°C	+ 120°C
Inox 316	- 40°C	+ 400°C	+ 120°C
Carbon Steel	- 40°C	+ 180°C	+ 120°C

Chain sizing

according to the maximum allowable working load method

Chain sizing consists of a comparison between the chain tension at headshaft, which a chain is subject to, and the maximum allowable working load of the chain itself. The following formulas allow an evaluation of the chain tension at headshaft as a function of the different load conditions.

Symbols

F_t	Chain tension at headshaft (N)
F_o	Chain tension on return track (N)
F_1, F_2, ...	Sum of all loads (N)
W_c	Chain weight (Kg/m)
W_m	Conveyed product weight (Kg/m)
L	Horizontal conveyor length (metres)
L_1, L_2, ...	Conveyor track length (metres)
H	Vertical conveyor elevation (metres)
L_s	Conveyor length of the section where accumulation occurs (metres)
L_{1s}, L_{2s}, ...	Conveyor length of the section where accumulation occurs (metres)
R	Curve radius (metres)
α	Bending angle (degrees)
K	Length factor (table D)
T	Curve factor (table E)
f_1	Friction factor between chain and wear strips (table A)
f_2	Friction factor between chain and conveyed products (table A)
f_p	Start up factor (table B)
S	Slippage factor (table C)
9.81	Gravity acceleration (m/s²)

Chain materials: carbon steel and stainless steel

A	f_1		f_2		
	Friction factor between chain and wear strips		Friction factor between chain and conveyed products		
Lubrication used	Steel	High density polyeth. and nylatron	Cardboard, plastic	Metal	Glass, Ceramic
Dry	0,50	0,20	0,30	0,45	0,45
Water	0,40	0,15	0,25	0,40	0,40
Soapy water	0,20	0,12	0,15	0,20	0,25
Oil	0,20	0,08	-	0,15	0,20

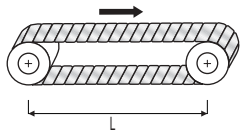
B	Start up factor
Start ups per hour	f_p
0	1,0
5	1,4
10	1,7
15	1,8
20	1,9
25	2,0

C	Slippage factor
Slippage time percentage	S
0	0
10	0,5
20	0,7
30	0,8
40	0,9
50 >	1,0

D	K	T			
		Curve factor			
		Stainless steel chain			
	Length factor	Steel wear strips		High density polyeth. and nylatron wear strips	
Bending angle degrees α		Dry	Lubricated	Dry	Lubricated
15	0,25	1,20	1,05	1,10	1,05
30	0,52	1,30	1,10	1,20	1,10
45	0,79	1,40	1,20	1,30	1,20
60	1,05	1,60	1,30	1,50	1,25
90	1,57	2,00	1,50	1,80	1,35
120	2,09	2,50	1,70	2,20	1,50
150	2,62	3,10	1,90	2,70	1,75
180	3,14	3,50	2,10	3,00	1,90

Conveyors with straight running chains

Horizontal conveyor



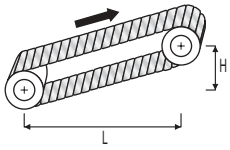
Without accumulation

$$F_t=(2W_c+W_m)xLxf_1xf_px9,81$$

With accumulation

$$F_t=[(2W_c+W_m)xLxf_1xf_p+L_sxW_mxf_2xS]x9,81$$

Inclined conveyor



Without accumulation

$$F_t=[(2W_c+W_m)xLxf_1xf_p+(W_c+W_m)xH]x9,81$$

With accumulation

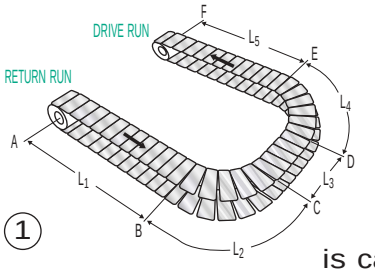
$$F_t=[(2W_c+W_m)xLxf_1xf_p+(W_c+W_m)xH+L_sxW_mxf_2xS]x9,81$$

Conveyors with sideflexing chains

In this case the calculation of the chain tension at headshaft is carried out as the sum of successive loads (fig. 1):

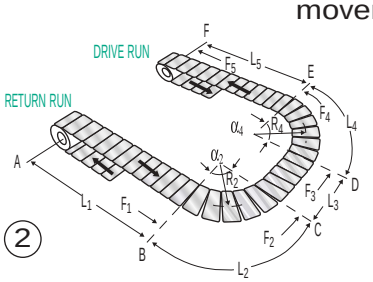
$$L_2=K(\alpha_2)xR_2$$

$$L_4=K(\alpha_4)xR_4$$



1- Return run

The evaluation of the chain tension in the return run is carried out by starting at the driven sprocket following the movement of the chain itself up to the return sprocket (fig. 2):



Track FE	$F_5=W_cxL_5xf_1$
Track FD	$F_4=[F_5+W_cxL_4xf_1]xT(\alpha_4)$
Track FC	$F_3=F_4+W_cxL_3xf_1$
Track FB	$F_2=[F_3+W_cxL_2xf_1]xT(\alpha_2)$
Track FA	$F_1=F_2+W_cxL_1xf_1$
	$F_0=F_1xf_px9,81$

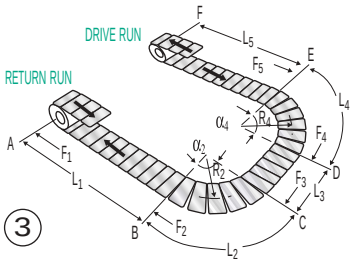
Written in a more explicit manner:

$$F_0=\{[(L_5+L_4)xW_cxf_1xT(\alpha_4)+(L_3+L_2)xW_cxf_1]xT(\alpha_2)+L_1xW_cxf_1\}xf_px9,81$$

2- Drive run

• *Chain tension at headshaft without accumulation* •

The evaluation of the chain tension in the conveying run is carried out by starting from the return sprocket following the movement of the chain itself up to the drive sprocket (fig. 3):



Track AB	$F_1=F_0+(W_c+W_m)xL_1xf_{1+}f_px9,81$
Track AC	$F_2=[F_1+(W_c+W_m)xL_2xf_{1+}f_px9,81]xT(\alpha_2)$
Track AD	$F_3=F_2+(W_c+W_m)xL_3xf_{1+}f_px9,81$
Track AE	$F_4=[F_3+(W_c+W_m)xL_4xf_{1+}f_px9,81]xT(\alpha_4)$
Track AF	$F_5=F_4+(W_c+W_m)xL_5xf_{1+}f_px9,81$

• *Chain tension at headshaft with accumulation* •

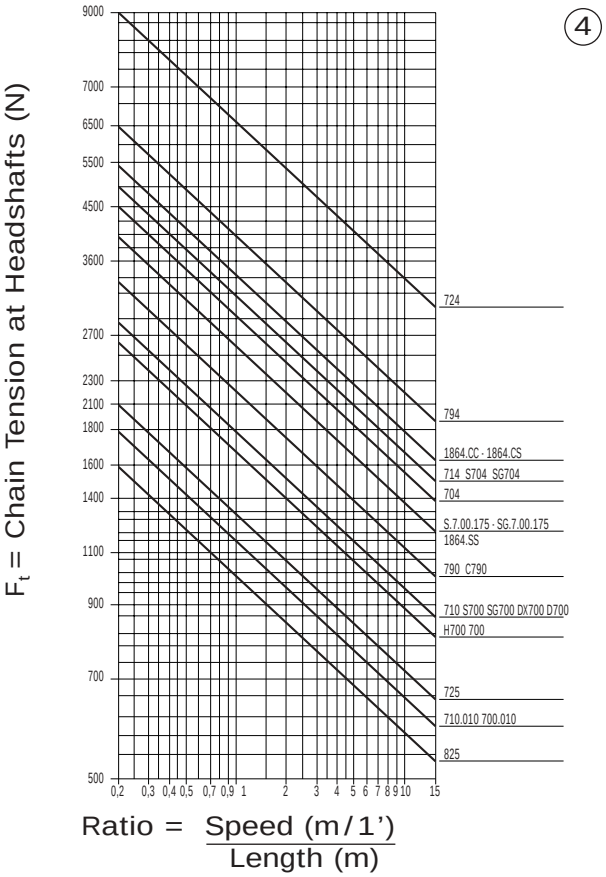
The component of the chain tension at headshaft due to the accumulation of material conveyed is evaluated by starting from the return sprocket towards the drive sprocket, for the only track involved by the accumulation (fig. 3). In this case the total chain tension at headshaft is given by the sum of the component without accumulation plus the one due to the accumulation of the material:

Track AB	$F_1=F_0+[(W_c+W_m)xL_1xf_1xf_p+L_{1s}xW_mxf_2xS]x9,81$
Track AC	$F_2=\{F_1+[(W_c+W_m)xL_2xf_1xf_p+L_{2s}xW_mxf_2xS]x9,81\}xT(\alpha_2)$
Track AD	$F_3=F_2+[(W_c+W_m)xL_3xf_1xf_p+L_{3s}xW_mxf_2xS]x9,81$
Track AE	$F_4=\{F_3+[(W_c+W_m)xL_4xf_1xf_p+L_{4s}xW_mxf_2xS]x9,81\}xT(\alpha_4)$
Track AF	$F_5=F_4+[(W_c+W_m)xL_5xf_1xf_p+L_{5s}xW_mxf_2xS]x9,81$

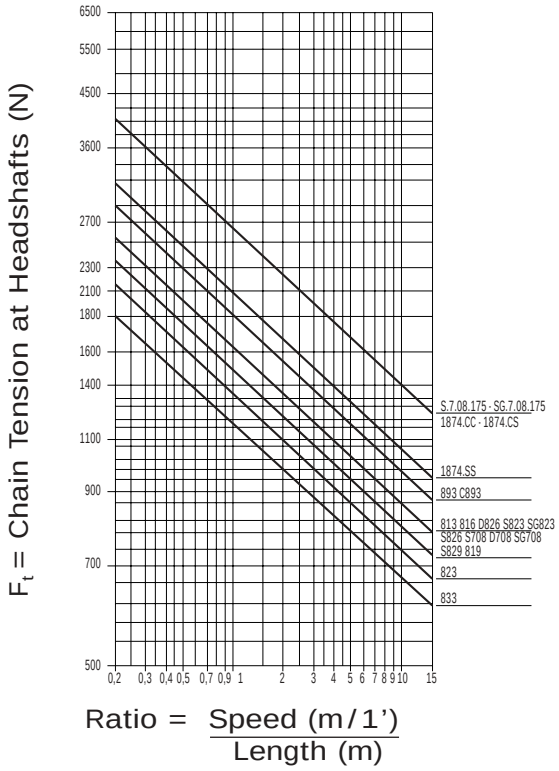
Chain selection

Having evaluated the chain tension at headshaft which the chain is subject to, and calculated the speed/length of the conveyor ratio, the two values are stated in figure 4. The chain suitable for the use in question is the one whose curve is immediately above the intersection of the two values.

Straight running chains
allowable working load diagram



Sideflexing chains
allowable working load diagram



Symbols for straight running chains

1864....	= Straight running hinged slat chains with base roller chain
7.24.000	= Double reinforced hinged slat chain - “Stella D.” Mod.
7.94.000	= Double hinged slat chain - “Accate” Mod.
7.14.000	= Double hinged slat chain - “Stella D.” Mod.
S.7.04.000	= Double hinged slat chain - “Super” Mod.
SG.7.04.000	= Double hinged slat chain - “Super-DHG” Mod.
7.04.000	= Double hinged slat chain - “Standard” Mod.
C.7.90.000	= Simple hinged slat chain - “Accate-C” Mod.
7.90.000	= Simple hinged slat chain - “Accate” Mod.
7.25.000	= Simple hinged slat chain - “316” Mod.
7.10.000	= Simple hinged slat chain - “Stella D.” Mod.
DX.7.00.000	= Simple hinged slat chain - “Superspeed” Mod.
D.7.00.000	= Simple hinged slat chain - “Wear-Proof” Mod.
S.7.00.175	= Simple reinforced hinged slat chain - “Super” Mod.
S.7.00.000	= Simple hinged slat chain - “Super” Mod.
SG.7.00.175	= Simple reinforced hinged slat chain - “Super-G” Mod.
SG.7.00.000	= Simple hinged slat chain - “Super-G” Mod.
7.00.000	= Simple hinged slat chain - “Standard” Mod.
H.7.00.000	= Simple hinged slat chain - “Special” Mod.
7.10.010	= “Mignon” hinged slat chain - “Stella D.” Mod.
7.00.010	= “Mignon” hinged slat chain - “Standard” Mod.
8.25.000	= “Mignon” hinged slat chain - “Super” Mod.

Symbols for sideflexing chains

1874....	= Hinged slat chains with base roller chain for sideflexing conveyors
C.8.93.000	= Hinged slat chain - “Flex RXMA-C” Mod.
8.93.000	= Hinged slat chain - “Flex RXMA” Mod.
8.33.000	= Hinged slat chain - “Flex RXM 316” Mod.
8.13.000	= Hinged slat chain - “Flex RXM” Mod.
8.16.000	= Hinged slat chain - “Flex FM” Mod.
8.19.000	= Hinged slat chain - “Flex FM2” Mod.
D.8.26.000	= Hinged slat chain - “Flex FMD” Mod.
S.8.23.000	= Hinged slat chain - “Flex RXMS” Mod.
SG.8.23.000	= Hinged slat chain - “Flex RXMS-G” Mod.
S.8.26.000	= Hinged slat chain - “Flex FMS” Mod.
S.8.29.000	= Hinged slat chain - “Flex FMS2” Mod.
8.23.000	= Hinged slat chain - “Flex RXMC” Mod.
D.7.08.000	= Hinged slat chain - “New Flex Mag-D” Mod.
S.7.08.175	= Reinforced hinged slat chain - “New Flex Mag” Mod.
S.7.08.000	= Hinged slat chain - “New Flex Mag” Mod.
SG.7.08.175	= Reinforced hinged slat chain - “New Flex Mag-G” Mod.
SG.7.08.000	= Hinged slat chain - “New Flex Mag-G” Mod.

Power

The driven sprocket is required the following power:

$$P = \frac{F_t \times v}{6 \times 10^4}$$

where: P = Power (kW), F_t = Chain Tension at Headshaft on the chain (N), v = Speed (m/min)

Example

The 7.10.040 chain, dry-operating, conveys glass wine bottles. Each bottle weighs 1,5 Kg and they are placed on the chain at 20 cm intervals (5 bottles per metre). The chain stops and restarts 10 times per hour. There is accumulation of the 20% operating time and on a length of 8 metres.

Aims:

- Chain checking;
- Calculation of the power needed by the shaft.

Start up data:

- Conveyor length (L) = 12 m
- Chain weight (W_c) = 2,6 Kg/m
- Conveyed product weight (W_m) = 7,5 Kg/m
- Friction factor (f_1) = 0,20

(table A: chain-polyethilene wear strip)

- Speed (v) = 45 m/min.
- Start up factor (f_p) = 1,7 (table B)
- Slippage time percentage = 20%
- Slippage factor (S) = 0,7 (table C)
- Length with accumulation (L_s) = 8 m
- Friction factor (f_2) = 0,45

(table A: chain-glass bottle)

Calculation of the Chain Tension at Headshaft (F_t)

$$F_t=[(2W_c+W_m)xLxf_1xf_p+L_sxW_mxf_2xS]x9,81$$
$$=[(2x2,6+7,5)x12x0,20x1,7+8x7,5x0,45x0,7]x9,81$$
$$= 693,72 \text{ N}$$

Calculation of the Speed/Length ratio (v/L)

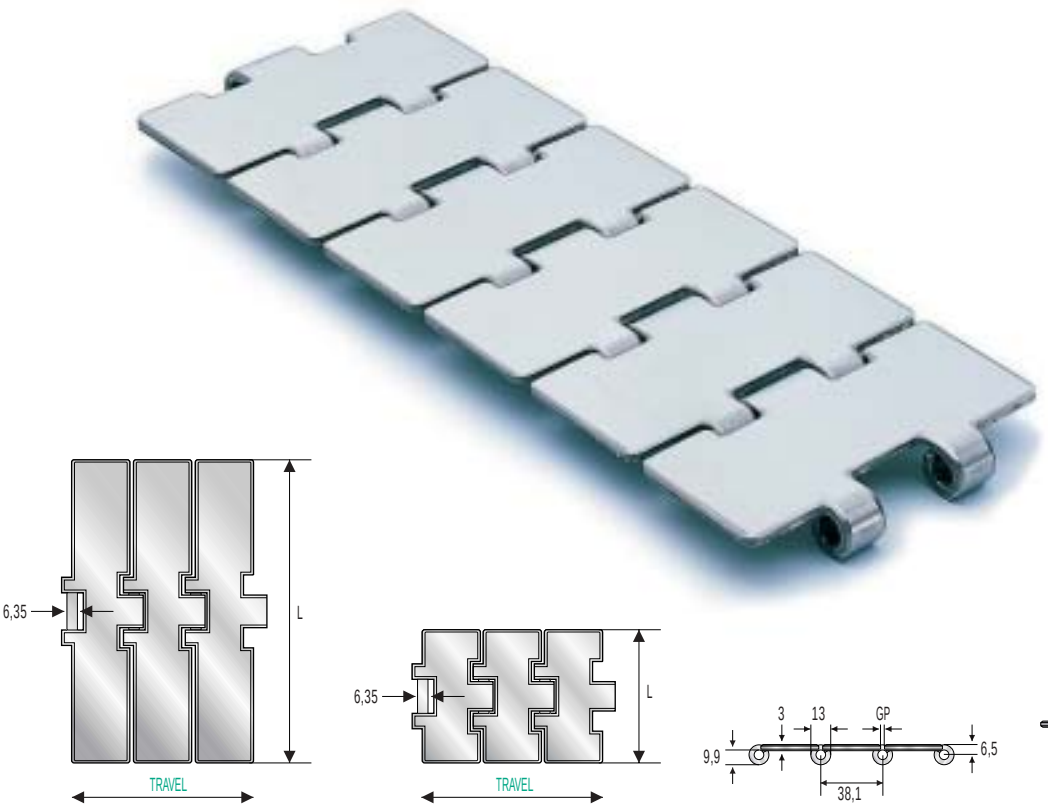
$$v/L = 45/12$$
$$= 3,75 \text{ m/min/m}$$

The “allowable working load” diagram shows that the maximum chain tension at headshaft available for that chain and for that speed ratio is 1300 N.
The selected chain is therefore suitable for our purpose.

Calculation of Power (P)

$$P = \frac{F_t \times v}{6 \times 10^4} = \frac{693,72 \times 45}{6 \times 10^4} = 0,520 \text{ kW}$$

Straight running hinged slat chains



Super

Hard Inox

• Special, chrome-nickel, stainless steel slats, work hardened for high resistance, with shiny surface having a roughness of Ra ≤ 0.3 microns.
• Chrome-nickel, austenitic stainless steel pins (18% Chrome - 8% Nickel), work hardened for high resistance.

Model	L=Slat width		Code	Chain ref.	Hardness	GP	RCC	Weight per metre
	mm	''			HRC	mm	mm	Kg/m
Super	54,1	-	**S.7.00.013***	**SSHR 812 K213**	30	2,8	80	2,10
Super	63,5	2 1/2	**S.7.00.020**	**SSHR 812 K250**	30	2,8	80	2,20
Super	66,7	2 5/8	**S.7.00.025**	**SSHR 812 K263**	30	2,8	80	2,30
Super	76,2	3	**S.7.00.030**	**SSHR 812 K300**	30	2,8	80	2,45
Super	82,6	3 1/4	**S.7.00.040**	**SSHR 812 K325**	30	2,8	80	2,60
Super	85,0	-	**S.7.00.050***	**SSHR 812 K335**	30	2,8	80	2,68
Super	88,9	3 1/2	**S.7.00.060**	**SSHR 812 K350**	30	2,8	80	2,70
Super	127,0	5	**S.7.00.090**	**SSHR 812 K500**	30	2,8	80	3,50
Super	57,1	2 1/4	**S.7.00.015***	**SSH 812 K225**	30	1,8	150	2,18
Super	63,5	2 1/2	**S.7.00.021**	**SSH 812 K250**	30	1,8	150	2,25
Super	69,9	2 3/4	**S.7.00.200**	**SSH 812 K275**	30	1,8	150	2,35
Super	76,2	3	**S.7.00.031**	**SSH 812 K300**	30	1,8	150	2,50
Super	82,6	3 1/4	**S.7.00.041**	**SSH 812 K325**	30	1,8	150	2,65
Super	95,3	3 3/4	**S.7.00.065***	**SSH 812 K375**	30	1,8	150	2,85
Super	101,6	4	**S.7.00.070**	**SSH 812 K400**	30	1,8	150	3,00
Super	114,3	4 1/2	**S.7.00.080**	**SSH 812 K450**	30	1,8	150	3,30
Super	152,4	6	**S.7.00.100**	**SSH 812 K600**	30	1,8	150	4,20
Super	190,5	7 1/2	**S.7.00.110**	**SSH 812 K750**	30	1,8	150	5,10

* Sizes produced only upon request. Delivery conditions and terms to be agreed.
Standard shipping lengths: 80 pitches = 10 feet = 3,048 metres

Superspeed

HQ Inox

- Special, new stainless steel, chrome-nickel (W.1.4589) slats, work hardened for high resistance with very little roughness, Ra ≤ 0.18 microns.
- Special, stainless steel pins, 400 series - magnetic - work hardened for high resistance.

The chain is produced with a special profile and perfect levelness, a quality which, together with the shiny surface, makes it particularly suitable for pressureless combiers/inliners and for high speed systems.

Model	L=Slat width		Code	Chain ref.	Hardness	GP	RCC	Weight per metre
	mm	''			HRC	mm	mm	Kg/m
Superspeed	82,6	3 1/4	**DX.7.00.040**	**SSX 812 K325**	30	1,6	80	2,60

Standard shipping lengths: 80 pitches = 10 feet = 3,048 metres

Wear-proof

HQ Inox

- Special, new stainless steel, chrome-nickel (W.1.4589) slats, work hardened for high resistance with very little surface roughness, Ra ≤ 0.2 microns.
- Special, stainless steel pins, 400 series - magnetic - work hardened for high resistance.

Model	L=Slat width		Code	Chain ref.	Hardness	GP	RCC	Weight per metre
	mm	''			HRC	mm	mm	Kg/m
Wear-Proof	82,6	3 1/4	**D.7.00.040**	**SSHQR 812 K325**	30	2,8	80	2,60
Wear-Proof	82,6	3 1/4	**D.7.00.041**	**SSHQ 812 K325**	30	1,8	150	2,65

Standard shipping lengths: 80 pitches = 10 feet = 3,048 metres

Standard

Inox

- Ferritic, AISI 430 stainless steel slats, work hardened, with shiny surface having low roughness.
- Chrome-nickel, austenitic stainless steel pins (18% Chrome - 8% Nickel), work hardened for high resistance.

Model	L=Slat width		Code	Chain ref.	Hardness	GP	RCC	Weight per metre
	mm	''			HRC	mm	mm	Kg/m
Standard	54,1	-	**7.00.013***	**SSR 812 K213**	20	2,8	80	2,10
Standard	63,5	2 1/2	**7.00.020**	**SSR 812 K250**	20	2,8	80	2,20
Standard	66,7	2 5/8	**7.00.025**	**SSR 812 K263**	20	2,8	80	2,30
Standard	76,2	3	**7.00.030**	**SSR 812 K300**	20	2,8	80	2,45
Standard	85,0	-	**7.00.050***	**SSR 812 K335**	20	2,8	80	2,68
Standard	88,9	3 1/2	**7.00.060**	**SSR 812 K350**	20	2,8	80	2,70
Standard	57,1	2 1/4	**7.00.015***	**SS 812 K225**	20	1,8	150	2,18
Standard	63,5	2 1/2	**7.00.021**	**SS 812 K250**	20	1,8	150	2,25
Standard	69,9	2 3/4	**7.00.200***	**SS 812 K275**	20	1,8	150	2,35
Standard	76,2	3	**7.00.031**	**SS 812 K300**	20	1,8	150	2,50
Standard	82,6	3 1/4	**7.00.041**	**SS 812 K325**	20	1,8	150	2,65
Standard	101,6	4	**7.00.070**	**SS 812 K400**	20	1,8	150	3,00
Standard	114,3	4 1/2	**7.00.080**	**SS 812 K450**	20	1,8	150	3,30
Standard	152,4	6	**7.00.100**	**SS 812 K600**	20	1,8	150	4,20
Standard	190,5	7 1/2	**7.00.110**	**SS 812 K750**	20	1,8	150	5,10

* Sizes produced only upon request. Delivery conditions and terms to be agreed.
Standard shipping lengths: 80 pitches = 10 feet = 3,048 metres

Special

Inox

- Ferritic, AISI 430 stainless steel slats, work hardened, with shiny surface having low roughness.
- Chrome-nickel, austenitic stainless steel pins (18% Chrome - 8% Nickel), work hardened for high resistance.

Model	L=Slat width		Code	Chain ref.	Hardness	GP	RCC	Weight per metre
	mm	''			HRC	mm	mm	Kg/m
Special	82,6	3 1/4	**H.7.00.040**	**SSR 812 K325**	20	2,8	80	2,55

Standard shipping lengths: 80 pitches = 10 feet = 3,048 metres

Stella D.

Inox 18/8

- Chrome-nickel, austenitic AISI 304 stainless steel slats (18% Chrome - 8% Nickel), work hardened for high resistance - shiny - with a roughness of Ra < 0.5 microns.
- Chrome-nickel, austenitic stainless steel pins (18% Chrome - 8% Nickel), work hardened for high resistance.

Model	L=Slat width		Code	Chain ref.	Hardness	GP	RCC	Weight per metre
	mm	''			HRC	mm	mm	Kg/m
Stella D.	54,1	-	**7.10.013***	**SSAR 815 K213**	26	2,8	80	2,10
Stella D.	63,5	2 1/2	**7.10.020**	**SSAR 815 K250**	26	2,8	80	2,20
Stella D.	66,7	2 5/8	**7.10.025**	**SSAR 815 K263**	26	2,8	80	2,30
Stella D.	76,2	3	**7.10.030**	**SSAR 815 K300**	26	2,8	80	2,45
Stella D.	82,6	3 1/4	**7.10.040**	**SSAR 815 K325**	26	2,8	80	2,60
Stella D.	85,0	-	**7.10.050***	**SSAR 815 K335**	26	2,8	80	2,68
Stella D.	88,9	3 1/2	**7.10.060**	**SSAR 815 K350**	26	2,8	80	2,70
Stella D.	127,0	5	**7.10.090**	**SSAR 815 K500**	26	2,8	80	3,50
Stella D.	57,1	2 1/4	**7.10.015***	**SSA 815 K225**	26	1,8	150	2,18
Stella D.	63,5	2 1/2	**7.10.021**	**SSA 815 K250**	26	1,8	150	2,25
Stella D.	69,9	2 3/4	**7.10.200**	**SSA 815 K275**	26	1,8	150	2,35
Stella D.	76,2	3	**7.10.031**	**SSA 815 K300**	26	1,8	150	2,50
Stella D.	82,6	3 1/4	**7.10.041**	**SSA 815 K325**	26	1,8	150	2,65
Stella D.	95,3	3 3/4	**7.10.065***	**SSA 815 K375**	26	1,8	150	2,85
Stella D.	101,6	4	**7.10.070**	**SSA 815 K400**	26	1,8	150	3,00
Stella D.	114,3	4 1/2	**7.10.080**	**SSA 815 K450**	26	1,8	150	3,30
Stella D.	152,4	6	**7.10.100**	**SSA 815 K600**	26	1,8	150	4,20
Stella D.	190,5	7 1/2	**7.10.110**	**SSA 815 K750**	26	1,8	150	5,10

* Sizes produced only upon request. Delivery conditions and terms to be agreed.
Standard shipping lengths: 80 pitches = 10 feet = 3,048 metres

316

Inox 316

- Chrome-nickel, austenitic AISI 316L stainless steel slats (18% Chrome - 14% Nickel - 3% Molybdenum).
- Chrome-nickel, austenitic AISI 316 stainless steel pins.

Model	L=Slat width		Code	Chain ref.	Hardness	GP	RCC	Weight per metre
	mm	''			HRC	mm	mm	Kg/m
316	82,6	3 1/4	**7.25.041***	**SSAA 815 K325**	-	1,8	150	2,65
316	114,3	4 1/2	**7.25.080***	**SSAA 815 K450**	-	1,8	150	3,30
316	152,4	6	**7.25.100***	**SSAA 815 K600**	-	1,8	150	4,20
316	190,5	7 1/2	**7.25.110***	**SSAA 815 K750**	-	1,8	150	5,10

* Sizes produced only upon request. Delivery conditions and terms to be agreed.
Standard shipping lengths: 80 pitches = 10 feet = 3,048 metres

Accate

Carbon Steel

- Heat-treated carbon steel slats.
- Case hardened carbon steel pins.

Model	L=Slat width		Code	Chain ref.	Core Hardness	Surface Hardness	GP	RCC	Weight per metre
	mm	''			HRC	HRC	mm	mm	Kg/m
Accate	63,5	2 1/2	**7.90.020**	**SR 815 K250**	43	43	2,8	80	2,20
Accate	66,7	2 5/8	**7.90.025***	**SR 815 K263**	43	43	2,8	80	2,30
Accate	76,2	3	**7.90.030**	**SR 815 K300**	43	43	2,8	80	2,45
Accate	82,6	3 1/4	**7.90.040**	**SR 815 K325**	43	43	2,8	80	2,60
Accate	88,9	3 1/2	**7.90.060**	**SR 815 K350**	43	43	2,8	80	2,70
Accate	127,0	5	**7.90.090**	**SR 815 K500**	43	43	2,8	80	3,50
Accate	57,1	2 1/4	**7.90.015**	**S 815 K225**	43	43	1,8	150	2,15
Accate	63,5	2 1/2	**7.90.021**	**S 815 K250**	43	43	1,8	150	2,22
Accate	76,2	3	**7.90.031**	**S 815 K300**	43	43	1,8	150	2,50
Accate	82,6	3 1/4	**7.90.041**	**S 815 K325**	43	43	1,8	150	2,65
Accate	101,6	4	**7.90.070**	**S 815 K400**	43	43	1,8	150	3,00
Accate	114,3	4 1/2	**7.90.080**	**S 815 K450**	43	43	1,8	150	3,30
Accate	120,0	-	**7.90.220***	**S 815 K473**	43	43	1,8	150	3,45
Accate	152,4	6	**7.90.100**	**S 815 K600**	43	43	1,8	150	4,20
Accate	190,5	7 1/2	**7.90.110**	**S 815 K750**	43	43	1,8	150	5,10

* Sizes produced only upon request. Delivery conditions and terms to be agreed.
Standard shipping lengths: 80 pitches = 10 feet = 3,048 metres

Accate-C

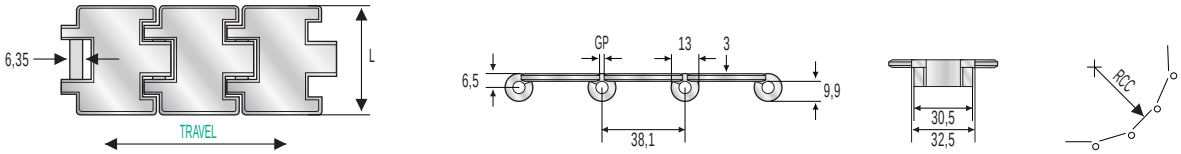
Carbon Steel

- Case hardened carbon steel slats and pins.

Model	L=Slat Width		Code	Chain ref.	Core Hardness	Surface Hardness	GP	RCC	Weight per metre
	mm	''			HRC	HRC	mm	mm	Kg/m
Accate-C	82,6	3 1/4	**C.7.90.040***	**SCR 815 K325**	40	55	2,8	80	2,60
Accate-C	82,6	3 1/4	**C.7.90.041***	**SC 815 K325**	40	55	1,8	150	2,65
Accate-C	114,3	4 1/2	**C.7.90.080***	**SC 815 K450**	40	55	1,8	150	3,30

* Sizes produced only upon request. Delivery conditions and terms to be agreed.
Standard shipping lengths: 80 pitches = 10 feet = 3,048 metres

"Mignon" straight running hinged slat chains



Standard

Inox

- Ferritic, AISI 430 stainless steel slats, work hardened, with shiny surface having low roughness.
- Chrome-nickel, austenitic stainless steel pins (18% Chrome - 8% Nickel), work hardened for high resistance.

Stella D.

Inox 18/8

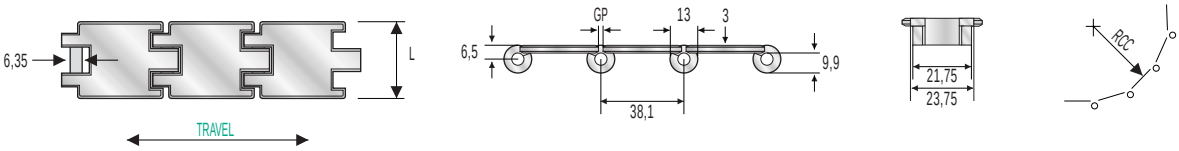
- Chrome-nickel, austenitic AISI 304 stainless steel slats (18% Chrome - 8% Nickel), work hardened for high resistance - shiny - with a roughness of Ra < 0.5 microns.
- Chrome-nickel, austenitic stainless steel pins (18% Chrome - 8% Nickel), work hardened for high resistance.

Model	L=Slat width		Code	Chain ref.	Hardness	GP	RCC	Weight per metre
	mm	''			HRC	mm	mm	Kg/m
Standard	50,0	-	**7.00.010**	**SSR 812 K197**	20	2,5	90	1,60
Stella D.	50,0	-	**7.10.010**	**SSAR 815 K197**	26	2,5	90	1,60

Standard shipping lengths: 80 pitches = 10 feet = 3,048 metres

Super
Hard Inox

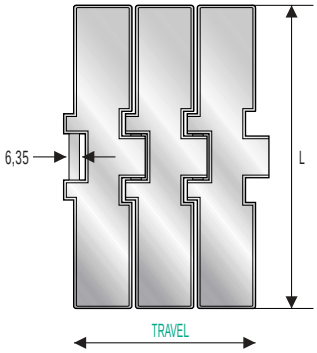
- Special, chrome-nickel, stainless steel, slats, work hardened for high resistance, with shiny surface having a roughness of Ra ≤ 0.3 microns.
- Special, stainless steel pins, 400 series - magnetic - work hardened for high resistance.

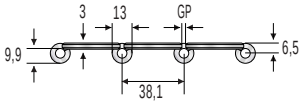


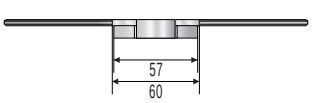
Model	L=Slat width		Code	Chain ref.	Hardness	GP	RCC	Weight per metre
	mm	''			HRC	mm	mm	Kg/m
Super	31,8	1 1/4	**8.25.280**	**SSHR 812 K125**	30	2,8	75	1,10
Super	44,5	1 3/4	**8.25.300**	**SSHR 812 K175**	30	2,8	75	1,30

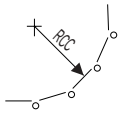
Standard shipping lengths: 80 pitches = 10 feet = 3,048 metres

Straight running hinged slat chains - reinforced hinge









Super

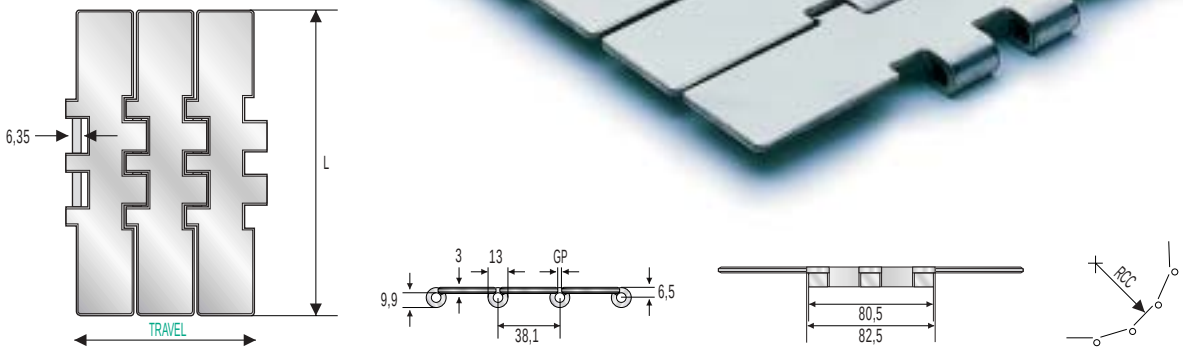
Hard Inox

• Special, chrome-nickel, stainless steel, slats, work hardened for high resistance, with shiny surface having a roughness of Ra ≤ 0.3 microns.
• Chrome-nickel, austenitic stainless steel pins (18% Chrome - 8% Nickel), work hardened for high resistance.

Model	L=Slat width		Code	Chain ref.	Hardness	GP	RCC	Weight per metre
	mm	''			HRC	mm	mm	Kg/m
Super	190,5	7 1/2	**S.7.00.175**	**SSH 8127-K750**	30	1,6	150	5,10

Standard shipping lengths: 80 pitches = 10 feet = 3,048 metres

Straight running hinged slat chains - double hinge



Standard

Inox

- Ferritic, AISI 430 stainless steel slats, work hardened, with shiny surface having low roughness.
- Chrome-nickel, austenitic stainless steel pins (18% Chrome - 8% Nickel), work hardened for high resistance.

Super

Hard Inox

- Special, chrome-nickel, stainless steel slats, work hardened for high resistance, with shiny surface having a roughness of Ra ≤ 0.3 microns.
- Chrome-nickel, austenitic stainless steel pins (18% Chrome - 8% Nickel), work hardened for high resistance.

Stella D.

Inox 18/8

- Chrome-nickel, austenitic AISI 304 stainless steel slats (18% Chrome - 8% Nickel), work hardened for high resistance - shiny - with a roughness of Ra < 0.5 microns.
- Chrome-nickel, austenitic stainless steel pins (18% Chrome - 8% Nickel), work hardened for high resistance.

Model	L=Slat width		Code	Chain ref.	Hardness	GP	RCC	Weight per metre
	mm	''			HRC	mm	mm	Kg/m
Standard	190,5	7 1/2	**7.04.110**	**SS 802 K750**	20	1,8	150	5,80
Super	190,5	7 1/2	**S.7.04.110**	**SSH 802 K750**	30	1,8	150	5,80
Stella D.	109,5	7 1/2	**7.14.110**	**SSA 805 K750**	26	1,8	150	5,80

Standard shipping lengths: 80 pitches = 10 feet = 3,048 metres

Accate

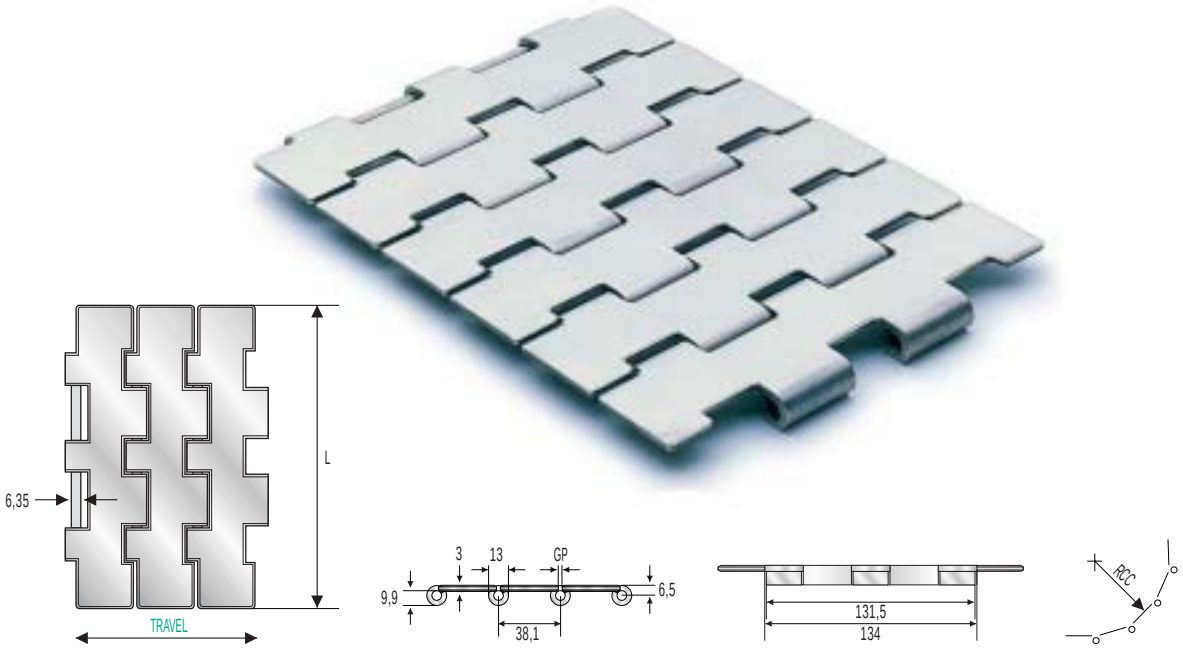
Carbon Steel

- Heat-treated carbon steel slats, with a surface and core hardness of 43 HRC.
- Case hardened carbon steel pins.

Model	L=Slat width		Code	Chain ref.	Hardness	GP	RCC	Weight per metre
	mm	''			HRC	mm	mm	Kg/m
Accate	190,5	7 1/2	**7.94.110**	**S 802 K750**	43	1,8	150	5,80

Standard shipping lengths: 80 pitches = 10 feet = 3,048 metres

Straight running hinged slat chains - double reinforced hinge



Stella D.

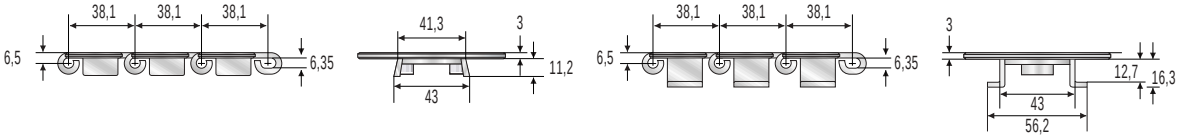
Inox 18/8

- Chrome-nickel, austenitic AISI 304 stainless steel slats (18% Chrome - 8% Nickel), work hardened for high resistance - shiny - with a roughness of Ra < 0.5 microns.
- Chrome-nickel, austenitic stainless steel pins (18% Chrome - 8% Nickel), work hardened for high resistance.

Model	L=Slat width		Code	Chain ref.	Hardness	GP	RCC	Weight per metre
	mm	''			HRC	mm	mm	Kg/m
Stella D.	170,0	-	**7.24.050**	**SSA 804 K670**	26	2,5	90	6,30
Stella D.	190,5	7 1/2	**7.24.060**	**SSA 804 K750**	26	2,5	90	6,80

Standard shipping lengths: 80 pitches = 10 feet = 3,048 metres

Hinged slat chains for sideflexing conveyors



Flex RXMC

Inox

- Ferritic, AISI 430 stainless steel slats, work hardened, with shiny surface having low roughness.
- Chrome-nickel, austenitic stainless steel pins and guide shoes (18% Chrome - 8% Nickel), work hardened for high resistance.

Flex RXMS

Hard Inox

- Special, chrome-nickel, stainless steel slats, work hardened for high resistance, with shiny surface having a roughness of Ra ≤ 0.3 microns.
- Chrome-nickel, austenitic stainless steel pins and guide shoes (18% Chrome - 8% Nickel), work hardened for high resistance.

Model	L=Slat width		Code	Chain ref.	R=Minimum sideflexing radius	Weight per metre
	mm	''			mm	Kg/m
Flex RXMC Tab	82,6	3 1/4	**8.23.041**	**SS 881 T K325**	457	3,10
Flex RXMS 8°	82,6	3 1/4	**S.8.23.040**	**SSH 881 K325**	457	2,90
Flex RXMS 8°	114,3	4 1/2	**S.8.23.080**	**SSH 881 K450**	610	3,60
Flex RXMS 8°	190,5	7 1/2	**S.8.23.110**	**SSH 881 K750**	610	5,30
Flex RXMS Tab	82,6	3 1/4	**S.8.23.041**	**SSH 881 T K325**	457	3,10
Flex RXMS Tab	114,3	4 1/2	**S.8.23.081**	**SSH 881 T K450**	610	3,80
Flex RXMS Tab	190,5	7 1/2	**S.8.23.111**	**SSH 881 T K750**	610	5,50

* Sizes produced only upon request. Delivery conditions and terms to be agreed.
Standard shipping lengths: 80 pitches = 10 feet = 3,048 metres

Flex RXM

Inox 18/8

• Chrome-nickel, austenitic AISI 304 stainless steel slats (18% Chrome - 8% Nickel), work hardened for high resistance - shiny with a roughness of Ra < 0.5 microns.
• Chrome-nickel, austenitic stainless steel pins and guide shoes (18% Chrome - 8% Nickel), work hardened for high resistance.

Flex RXM 316

Inox 316

• Chrome-nickel, austenitic AISI 316L stainless steel slats (18% Chrome - 14% Nickel - 3% Molybdenum).
• Chrome-nickel, austenitic AISI 316 stainless steel pins and guide shoes.

Flex RXMA

Carbon Steel

• Heat-treated carbon steel slats, with a surface and core hardness of 43 HRC.
• Case hardened carbon steel pins.

Upon request, the “Flex RXMA Tab” chain with a slat width of 82.6 mm (3 1/4”) can be produced in case hardened carbon steel having a surface hardness of 55 HRC and a core hardness of 40 HRC (code: **C.8.93.041**).

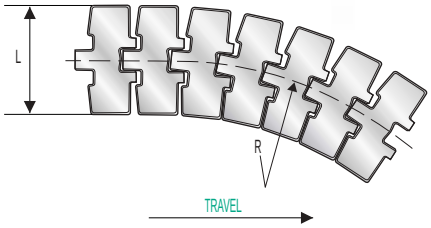
Model	L=Slat width		Code	Chain ref.	R=Minimum sideflexing radius	Weight per metre
	mm	''			mm	Kg/m
Flex RXM 8°	82,6	3 1/4	**8.13.040**	**SSA 881 K325**	457	2,90
Flex RXM 8°	114,3	4 1/2	**8.13.080**	**SSA 881 K450**	610	3,60
Flex RXM 8°	190,5	7 1/2	**8.13.110**	**SSA 881 K750**	610	5,30
Flex RXM Tab	82,6	3 1/4	**8.13.041**	**SSA 881 T K325**	457	3,10
Flex RXM Tab	114,3	4 1/2	**8.13.081**	**SSA 881 T K450**	610	3,80
Flex RXM Tab	190,5	7 1/2	**8.13.111**	**SSA 881 T K750**	610	5,50
Flex RXM 316 Tab	82,6	3 1/4	**8.33.041***	**SSAA 881 T K325**	457	3,10
Flex RXM 316 Tab	114,3	4 1/2	**8.33.081***	**SSAA 881 T K450**	610	3,80
Flex RXM 316 Tab	190,5	7 1/2	**8.33.111***	**SSAA 881 T K750**	610	5,50
Flex RXMA 8°	82,6	3 1/4	**8.93.040**	**S 881 K325**	457	2,90
Flex RXMA 8°	114,3	4 1/2	**8.93.080**	**S 881 K450**	610	3,60
Flex RXMA 8°	190,5	7 1/2	**8.93.110**	**S 881 K750**	610	5,30
Flex RXMA Tab	63,5	2 1/2	**8.93.021**	**S 881 T K250**	457	2,65
Flex RXMA Tab	82,6	3 1/4	**8.93.041**	**S 881 T K325**	457	3,10
Flex RXMA Tab	114,3	4 1/2	**8.93.081**	**S 881 T K450**	610	3,80
Flex RXMA Tab	190,5	7 1/2	**8.93.111**	**S 881 T K750**	610	5,50

* Sizes produced only upon request. Delivery conditions and terms to be agreed.
Standard shipping lengths: 80 pitches = 10 feet = 3,048 metres

Flex FMS

Hard Inox

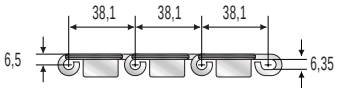
- Special, chrome-nickel, stainless steel slats, work hardened for high resistance, with shiny surface having a roughness of Ra ≤ 0.3 microns.
- Chrome-nickel, austenitic stainless steel pins and guide shoes (18% Chrome - 8% Nickel), work hardened for high resistance.

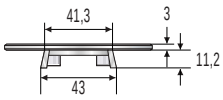


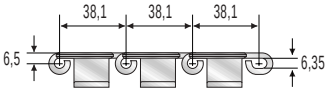
Flex FMD

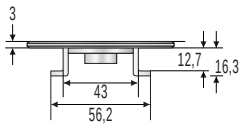
HQ Inox

- Special, new stainless steel, chrome-nickel (W.1.4589) slats, work hardened for high resistance, with low surface roughness, Ra ≤ 0.2 microns.
- Special, stainless steel pins, 400 series - magnetic - work hardened for high resistance.









Flex FM

Inox 18/8

- Chrome-nickel, austenitic AISI 304 stainless steel slats (18% Chrome - 8% Nickel), work hardened for high resistance - shiny - with a roughness of Ra < 0.5 microns.
- Chrome-nickel, austenitic stainless steel pins and guide shoes (18% Chrome - 8% Nickel), work hardened for high resistance.

Model	L=Slat width		Code	Chain ref.	R=Minimum sideflexing radius	Weight per metre
	mm	''			mm	Kg/m
Flex FMS 8°	82,6	3 1/4	**S.8.26.040**	**SSH 8811 K325**	457	2,90
Flex FMS 8°	88,9	3 1/2	**S.8.26.060**	**SSH 8811 K350**	500	3,10
Flex FMS Tab	82,6	3 1/4	**S.8.26.041**	**SSH 8811 T K325**	457	3,10
Flex FMS Tab	88,9	3 1/2	**S.8.26.061**	**SSH 8811 T K350**	500	3,30
Flex FMD Tab	82,6	3 1/4	**D.8.26.041**	**SSX 8811 T K325**	457	3,10
Flex FM 8°	82,6	3 1/4	**8.16.040**	**SSA 8811 K325**	457	2,90
Flex FM 8°	88,9	3 1/2	**8.16.060**	**SSA 8811 K350**	500	3,10
Flex FM Tab	82,6	3 1/4	**8.16.041**	**SSA 8811 T K325**	457	3,10
Flex FM Tab	88,9	3 1/2	**8.16.061**	**SSA 8811 T K350**	500	3,30

Standard shipping lengths: 80 pitches = 10 feet = 3,048 metres

Flex FMS2

R=200 mm

Hard Inox

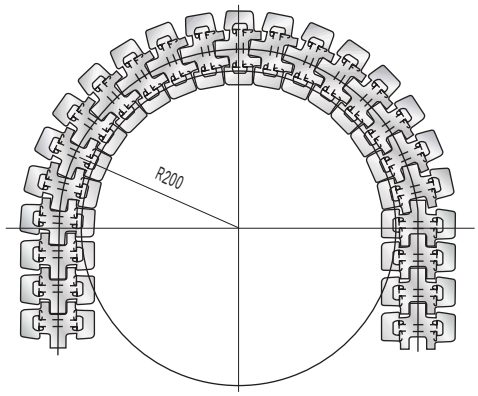
- Special, chrome-nickel, stainless steel slats, work hardened for high resistance, with shiny surface having a roughness of Ra ≤ 0.3 microns.
- Chrome-nickel, austenitic stainless steel pins and guide shoes (18% Chrome - 8% Nickel), work hardened for high resistance.

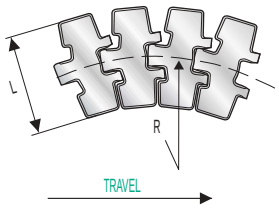
Flex FM2

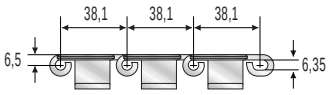
R=200 mm

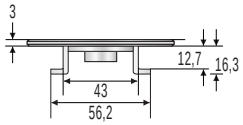
Inox 18/8

- Chrome-nickel, austenitic AISI 304 stainless steel slats (18% Chrome - 8% Nickel), work hardened for high resistance - shiny - with a roughness of Ra < 0.5 microns.
- Chrome-nickel, austenitic stainless steel pins and guide shoes (18% Chrome - 8% Nickel), work hardened for high resistance.





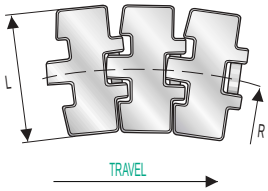


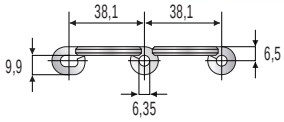


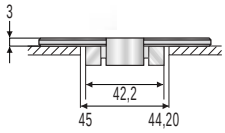
Model	L=Slat width		Code	Chain ref.	R=Minimum sideflexing radius	Weight per metre
	mm	''			mm	Kg/m
Flex FMS2 Tab	82,6	3 1/4	**S.8.29.041**	**SSH 881 R T K325**	200	3,00
Flex FM2 Tab	82,6	3 1/4	**8.19.041**	**SSA 881 R T K325**	200	3,00

Standard shipping lengths: 80 pitches = 10 feet = 3,048 metres

Hinged slat chains for sideflexing conveyors on magnetic tracks







New Flex Mag

Hard Inox

- Special, chrome-nickel, stainless steel slats, work hardened for high resistance, with shiny surface having a roughness of Ra ≤ 0.3 microns.
- Special, stainless steel pins, 400 series - magnetic - work hardened for high resistance.

New Flex Mag-D

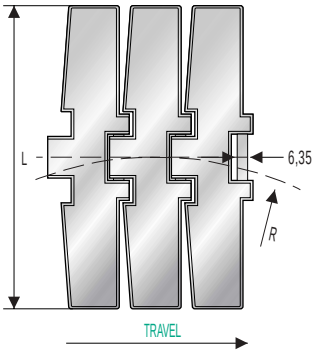
HQ Inox

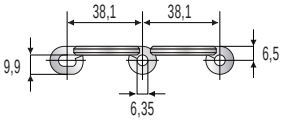
- Special, new stainless steel, chrome-nickel (W.1.4589) slats - magnetic - work hardened for high resistance, with shiny surface having a roughness of Ra ≤ 0.2 microns.
- Special, stainless steel pins, 400 series - magnetic - work hardened for high resistance.

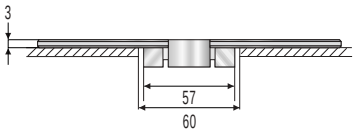
Model	L=Slat width		Code	Chain ref.	R=Minimum sideflexing radius	Weight per metre
	mm	''			mm	Kg/m
New Flex Mag	82,6	3 1/4	**S.7.08.040**	**SSH 881 M K325**	457	2,50
New Flex Mag	114,3	4 1/2	**S.7.08.080**	**SSH 881 M K450**	500	3,20
New Flex Mag	190,5	7 1/2	**S.7.08.110**	**SSH 881 M K750**	500	4,90
New Flex Mag-D	82,6	3 1/4	**D.7.08.040***	**SSX 881 M K325**	457	2,50

* Sizes produced only upon request. Delivery conditions and terms to be agreed.
Standard shipping lengths: 80 pitches = 10 feet = 3,048 metres

Hinged slat chains - reinforced hinge for sideflexing conveyors on magnetic tracks







New Flex Mag

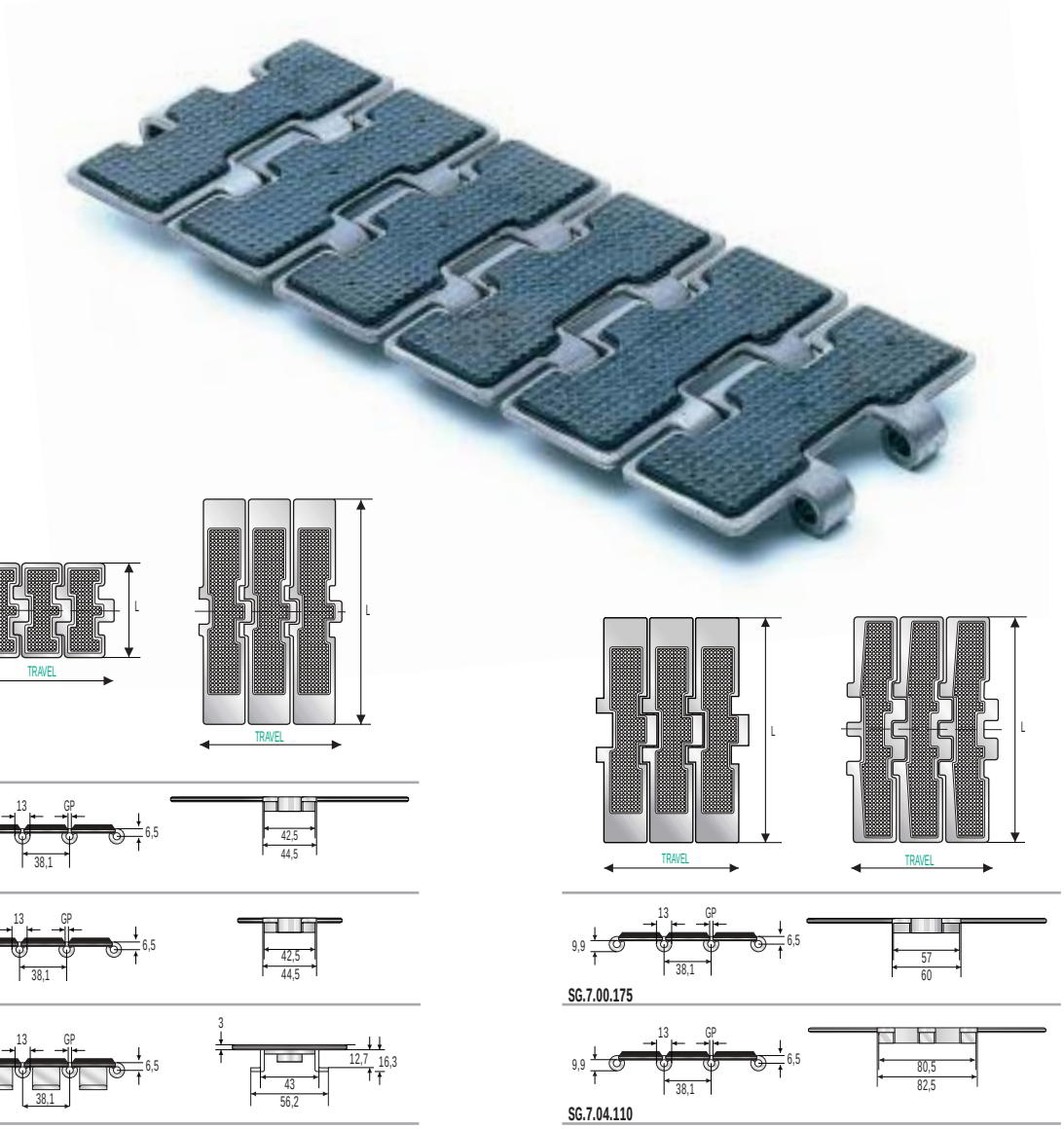
Hard Inox

- Special, chrome-nickel, stainless steel slats, work hardened for high resistance, with shiny surface having a roughness of Ra ≤ 0.3 microns.
- Special, stainless steel pins, 400 series - magnetic - work hardened for high resistance.

Model	L=Slat width		Code	Chain ref.	R=Minimum sideflexing radius	Weight per metre
	mm	''			mm	Kg/m
New Flex Mag	190,5	7 1/2	**S.7.08.175**	**SSH 8817 M K750**	860	5,03

Standard shipping lengths: 80 pitches = 10 feet = 3,048 metres

Hinged slat chains with rubber top for inclined conveyors



Super-G / DHG

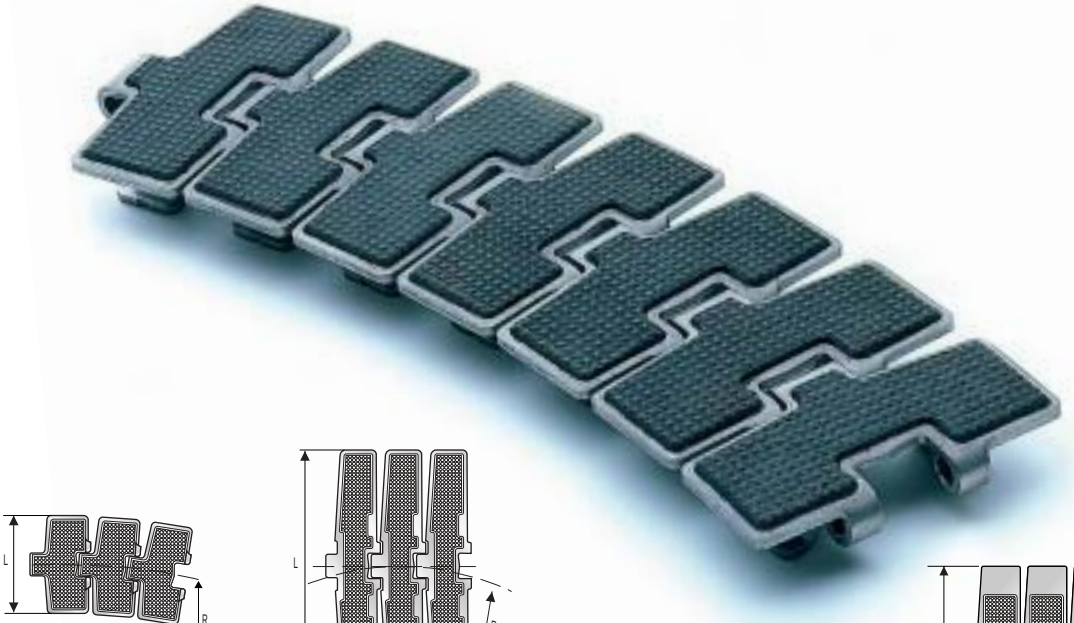
Hard Inox

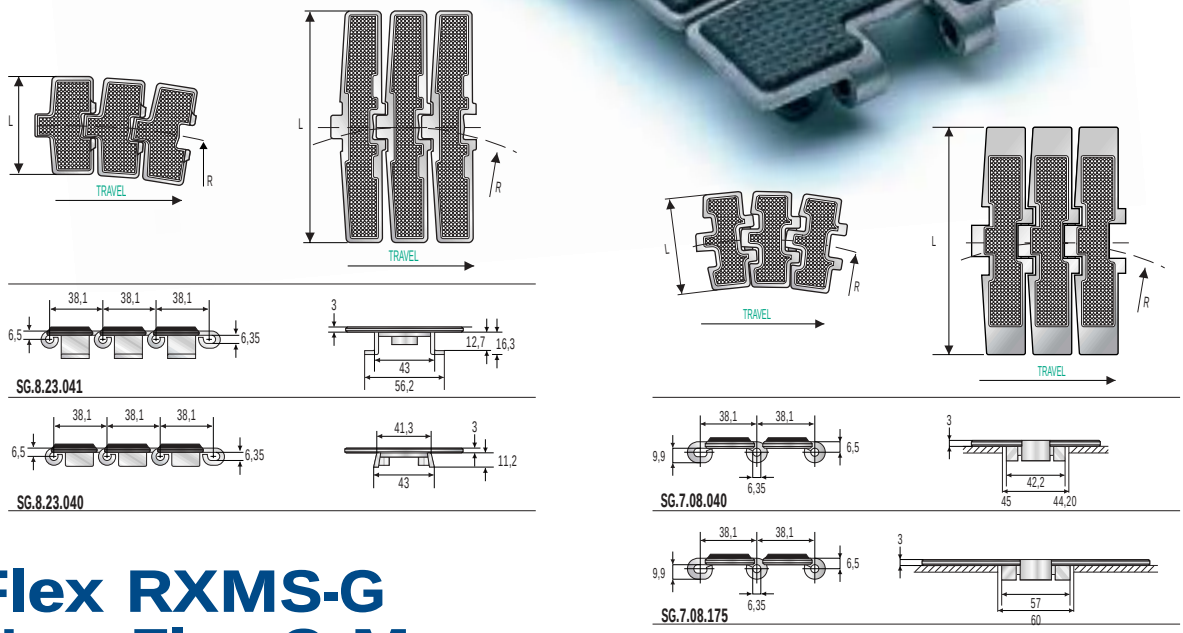
- Special, chrome-nickel, stainless steel slats, work hardened for high resistance, with a rubber insert.
- Chrome-nickel, austenitic stainless steel pins and guide shoes (18% Chrome - 8% Nickel), work hardened for high resistance.

Model	L=Slat width		Code	Chain ref.	Hardness	GP	RCC	Weight per metre
	mm	''			HRC	mm	mm	Kg/m
Super-G	82,6	3 1/4	**SG.7.00.040**	**SSHR 812 G K325**	30	2,8	80	2,80
Super-G Tab	82,6	3 1/4	**SG.7.00.T40**	**SSHR 812 T G K325**	30	2,8	80	3,40
Super-G	114,3	4 1/2	**SG.7.00.080**	**SSH 812 G K450**	30	1,8	150	3,50
Super-G	152,4	6	**SG.7.00.100**	**SSH 812 G K600**	30	1,8	150	4,40
Super-G	190,5	7 1/2	**SG.7.00.110**	**SSH 812 G K750**	30	1,8	150	5,30
Super-G	190,5	7 1/2	**SG.7.00.175**	**SSH 8127 G K750**	30	1,6	150	5,35
Super-DHG	190,5	7 1/2	**SG.7.04.110**	**SSH 802 G K750**	30	1,8	150	6,20

Standard shipping lengths: 80 pitches = 10 feet = 3,048 metres

Hinged slat chains with rubber top for inclined conveyors





Flex RXMS-G
New Flex-G Mag

Hard Inox

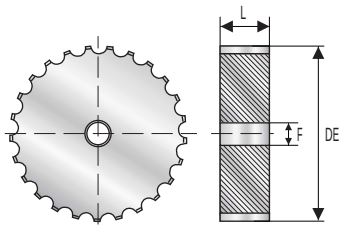
- Special, chrome-nickel, stainless steel slats, work hardened for high resistance, with a rubber insert.
- Chrome-nickel, austenitic stainless steel pins and guide shoes (18% Chrome - 8% Nickel), work hardened for high resistance (Flex RXMS-G versions).
- Special, stainless steel pins, 400 series - magnetic - work hardened for high resistance (New Flex-G Mag versions).

Model	L=Slat width		Code	Chain ref.	R=Minimum sideflexing radius	Weight per metre
	mm	''			mm	Kg/m
Flex RXMS-G 8°	82,6	3 1/4	**SG.8.23.040**	**SSH 881 G K325**	457	3,10
Flex RXMS-G 8°	114,3	4 1/2	**SG.8.23.080**	**SSH 881 G K450**	610	3,80
Flex RXMS-G 8°	190,5	7 1/2	**SG.8.23.110**	**SSH 881 G K750**	610	5,50
Flex RXMS-G Tab	82,6	3 1/4	**SG.8.23.041**	**SSH 881 T G K325**	457	3,30
Flex RXMS-G Tab	114,3	4 1/2	**SG.8.23.081**	**SSH 881 T G K450**	610	4,00
Flex RXMS-G Tab	190,5	7 1/2	**SG.8.23.111**	**SSH 881 T G K750**	610	5,70
New Flex-G Mag	82,6	3 1/4	**SG.7.08.040***	**SSH 881 M G K325**	457	2,70
New Flex-G Mag	190,5	7 1/2	**SG.7.08.110***	**SSH 881 M G K750**	500	5,10
New Flex-G Mag	190,5	7 1/2	**SG.7.08.175**	**SSH 8817 M G K750**	860	5,14

* Sizes produced only upon request. Delivery conditions and terms to be agreed.
Standard shipping lengths: 80 pitches = 10 feet = 3,048 metres

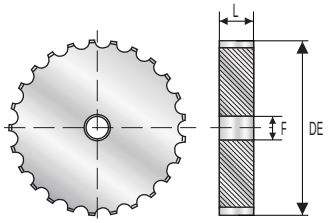
Block body machined steel sprockets

The sprocket tooth pitch (mm 19,05) is half the pitch of the chain (38,1 mm). Therefore, when a sprocket with an odd number of teeth is used, the teeth engage the chain only every other revolution. This doubles the life of sprockets.



For straight running hinged slat chains and for New Flex Mag - New Flex Mag-D - New Flex Mag-G hinged slat chains

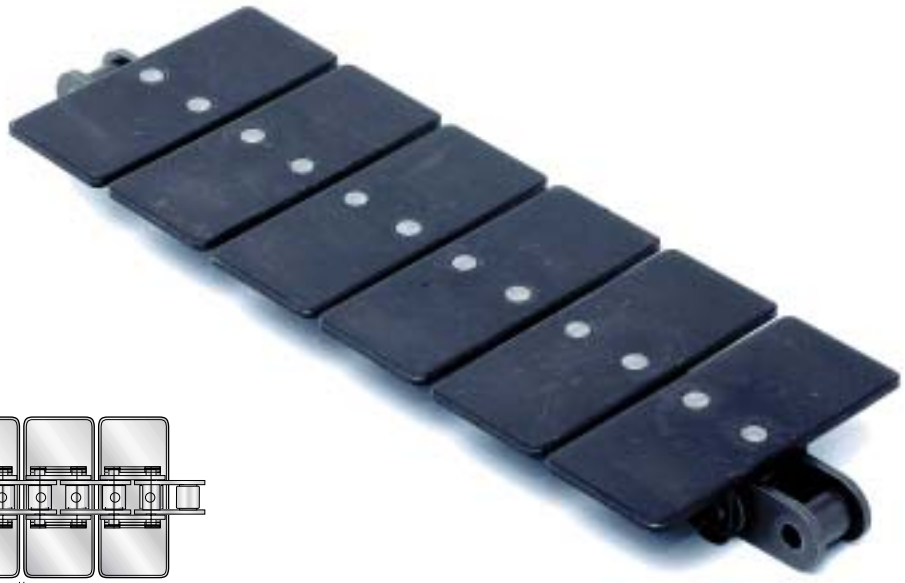
Code	Number of teeth	DE=Outside diameter	Pitch diameter	L=Sprocket width	F=Plain bore diameter	Weight per unit
	z	mm	mm	mm	mm	Kg/ea.
8.12.020	19	117,10	117,35	43,50	20	3,05
8.12.030	21	130,05	129,25	43,50	20	3,80
8.12.040	23	142,00	141,20	43,50	20	4,60
8.12.050	25	154,20	153,20	43,50	20	5,40
8.12.060	27	166,60	165,20	43,50	20	6,40
8.12.070	29	179,05	177,25	43,50	20	7,50
8.12.080	31	191,25	189,30	43,50	20	8,70

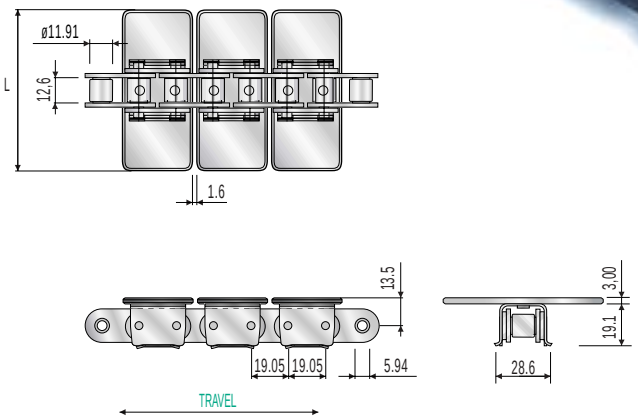


For “mignon” - Flex RXMC - Flex RXMS - Flex RXM - Flex RXM 316 - Flex RXMA - Flex FMS - Flex FMD - Flex FM - Flex FMS2 - Flex FM - Flex RXMS-G - Super-G Tab hinged slat chains

Code	Number of teeth	DE=Outside diameter	Pitch diameter	L=Sprocket width	F=Plain bore diameter	Weight per unit
	z	mm	mm	mm	mm	Kg/ea.
8.12.120	19	117,10	117,35	31	20	2,20
8.12.130	21	130,05	129,25	31	20	2,70
8.12.140	23	142,00	141,20	31	20	3,30
8.12.150	25	154,20	153,20	31	20	3,90
8.12.160	27	166,60	165,20	31	20	4,60

"1864" Straight running hinged slat chains with base roller chain





1864

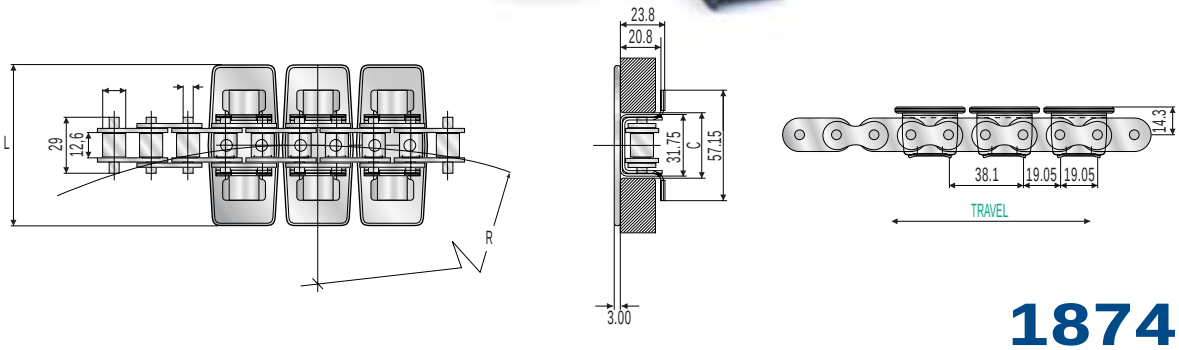
This high speed, high capacity series offers better efficiency and reliability in applications where high temperatures or abrasive materials are involved.

Straight running: steel and stainless steel top plates, 19,05 mm - 3/4" pitch.

Code	Chain ref.	Ultimate strength	Base chain material	Top plate material	L=Slat width	Weight per metre
		N			mm	Kg/m
1864.CC.041	**1864 K325**	37000	Steel	Steel	82,6	3,33
1864.CC.081	**1864 K450**				114,3	4,00
1864.CC.101	**1864 K600**				152,4	5,33
1864.CC.111	**1864 K750**				190,5	5,68
1864.CS.041	**1864 A K325**	37000	Steel	Stainless Steel	82,6	3,33
1864.CS.081	**1864 A K450**				114,3	4,00
1864.CS.101	**1864 A K600**				152,4	5,33
1864.CS.111	**1864 A K750**				190,5	5,68
1864.SS.041	**1864 SS K325**	26000	Stainless Steel	Stainless Steel	82,6	3,33
1864.SS.081	**1864 SS K450**				114,3	4,00
1864.SS.101	**1864 SS K600**				152,4	5,33
1864.SS.111	**1864 SS K750**				190,5	5,68

Standard shipping lengths: 80 pitches = 10 feet = 3,048 metres

“1874” Hinged slat chains with base roller chain for sideflexing conveyors



1874

This high speed, high capacity series offers better efficiency and reliability in applications where high temperatures or abrasive materials are involved.

Sideflexing: steel and stainless steel top plates, 19,05 mm - 3/4” pitch.

Code	Chain ref.	Ultimate strength	Base chain material	Top plate material	L=Slat width	Straight C	Curve C	R=Minimum sideflexing radius	Weight per metre
		N			mm	mm	mm	mm	Kg/m
1874.CC.041	**1874 K325**	27000	Steel	Steel	82,6	34,1	34,6	356	4,20
1874.CC.081	**1874 K450**				114,3			356	4,80
1874.CC.101	**1874 K600**				152,4			457	5,70
1874.CC.111	**1874 K750**				190,5			610	6,40
1874.CS.041	**1874 A K325**	27000	Steel	Stainless Steel	82,6	34,1	34,6	356	4,20
1874.CS.081	**1874 A K450**				114,3			356	4,80
1874.CS.101	**1874 A K600**				152,4			457	5,70
1874.CS.111	**1874 A K750**				190,5			610	6,40
1874.SS.041	**1874 SS K325**	21000	Stainless Steel	Stainless Steel	82,6	34,1	34,6	356	4,20
1874.SS.081	**1874 SS K450**				114,3			356	4,80
1874.SS.101	**1874 SS K600**				152,4			457	5,70
1874.SS.111	**1874 SS K750**				190,5			610	6,40

Standard shipping lengths: 80 pitches = 10 feet = 3,048 metres

Steel corrosion resistance table

0 = Little resistance, not recommended
• = Average resistance
•• = Good resistance, it can be used

Chemical agent	Ferritic Stainless Steel **Inox**	Special Cr-Ni Stainless Steel **Hard Inox**	Special new Cr-Ni Stainless Steel **HQ Inox**	Austenitic Stainless Steel **Inox 18/8**	Austenitic Stainless Steel **Inox 316**	**Carbon Steel**
Acetic acid	0	0	0	•	••	0
Acetone	••	••	••	••	••	0
Aluminium chloride	0	0	0	•	•	0
Ammonia	••	••	••	••	••	0
Ammonium chloride	0	0	0	•	•	0
Amyl alcohol	0	•	•	••	••	0
Aniline	•	•	•	•	•	0
Animal oil	••	••	••	••	••	••
Beer	••	••	••	••	••	•
Benzene	0	•	•	••	••	0
Benzoic acid	0	0	0	•	•	0
Benzol	•	•	•	••	••	•
Boric acid	0	•	•	•	•	0
Brine	0	0	0	•	••	0
Butter	•	•	•	••	••	0
Butyl alcohol	0	•	•	••	••	0
Butyric acid	0	0	0	•	•	0
Calcium chloride	0	0	0	0	•	0
Carbon disulphide	•	•	•	••	••	0
Carbon tetrachloride	•	•	•	••	••	•
Carbonated drinks	••	••	••	••	••	0
Caustic soda (20%)	••	••	••	••	••	0
Chlorine water	0	0	0	0	0	0
Chloroform	0	•	•	••	••	0
Citric acid	•	•	•	••	••	0
Copper sulphate	•	•	•	••	••	0
Diet oil	••	••	••	••	••	•
Diet fat	••	••	••	••	••	0
Diluted acetic acid	0	0	0	•	••	0
Distilled water	••	••	••	••	••	0
Ethyl acetate	0	0	0	•	•	0
Ethyl alcohol	0	•	•	••	••	0
Ethyl chloride	•	••	••	••	••	0
Flax oil	•	•	•	••	••	•
Formaldehyde	0	•	•	••	••	0
Formic acid	0	0	0	0	0	0
Freon 12	0	0	0	••	••	0
Fresh water	••	••	••	••	••	0
Fruit juice	•	•	•	••	••	0
Gasoline	•	•	•	••	••	•
Glycerine	•	•	•	••	••	0
Hydrochloric acid	0	0	0	0	0	0
Hydrofluoric acid	0	0	0	0	0	0
Hydrogen peroxide	0	•	•	••	••	0
Iodine	0	0	0	0	0	0
Iron chloride	0	0	0	•	•	0
Lactic acid	0	0	0	••	••	0
Magnesium chloride	0	0	0	•	•	0
Mercury	0	•	•	•	•	0
Methyl alcohol	0	•	•	•	••	0
Methylene chloride	0	0	•	•	•	0
Milk	••	••	••	••	••	•
Nitric acid	•	•	•	••	••	0
Oil	••	••	••	••	••	••
Oil ether	0	•	•	••	••	0
Oleic acid	•	•	•	•	•	0
Paraffin	••	••	••	••	••	••
Phenol	0	0	0	••	••	0
Phosphoric acid	•	•	•	••	••	0
Potassium hydroxine	0	0	0	•	••	0
Sea water	0	0	•	••	••	0
Silver nitrate	0	0	0	•	•	0
Soapy water	••	••	••	••	••	0
Sodium carbonate	•	•	•	••	••	0
Sodium chloride	0	0	0	•	•	0
Sodium hydroxine	0	0	0	•	•	0
Sodium hypochlorite	0	0	0	0	0	0
Sodium silicate	0	0	0	••	••	0
Sodium sulphate	•	•	•	••	••	0
Soft drinks	••	••	••	••	••	0
Sulfuric acid	0	0	0	0	•	0
Tartaric acid	0	•	•	•	•	0
Trichlorethylene	•	•	•	••	••	•
Turpentine	••	••	••	••	••	0
Vegetable juice	•	•	•	••	••	0
Vegetable oil	••	••	••	••	••	••
Vinegar	0	0	•	••	••	0
Whiskey	•	•	•	••	••	0
Wine	•	•	•	••	••	0
Xilol	••	••	••	••	••	•
Zinc chloride	0	0	0	•	•	0

The indicated data are approximate as the corrosion resistance of the above-mentioned steel, according to the conditions of use, is related to the work temperature, the concentration of the chemical agent, the duration of the contact with it, etc.

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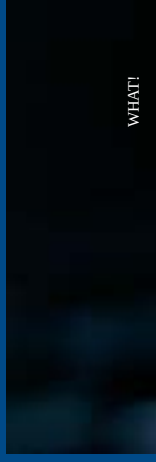

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