

Conveyor catalogue



Components overview



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System FL – 65 mm



System FM – 85 mm



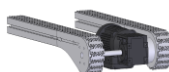
System FH – 105 mm



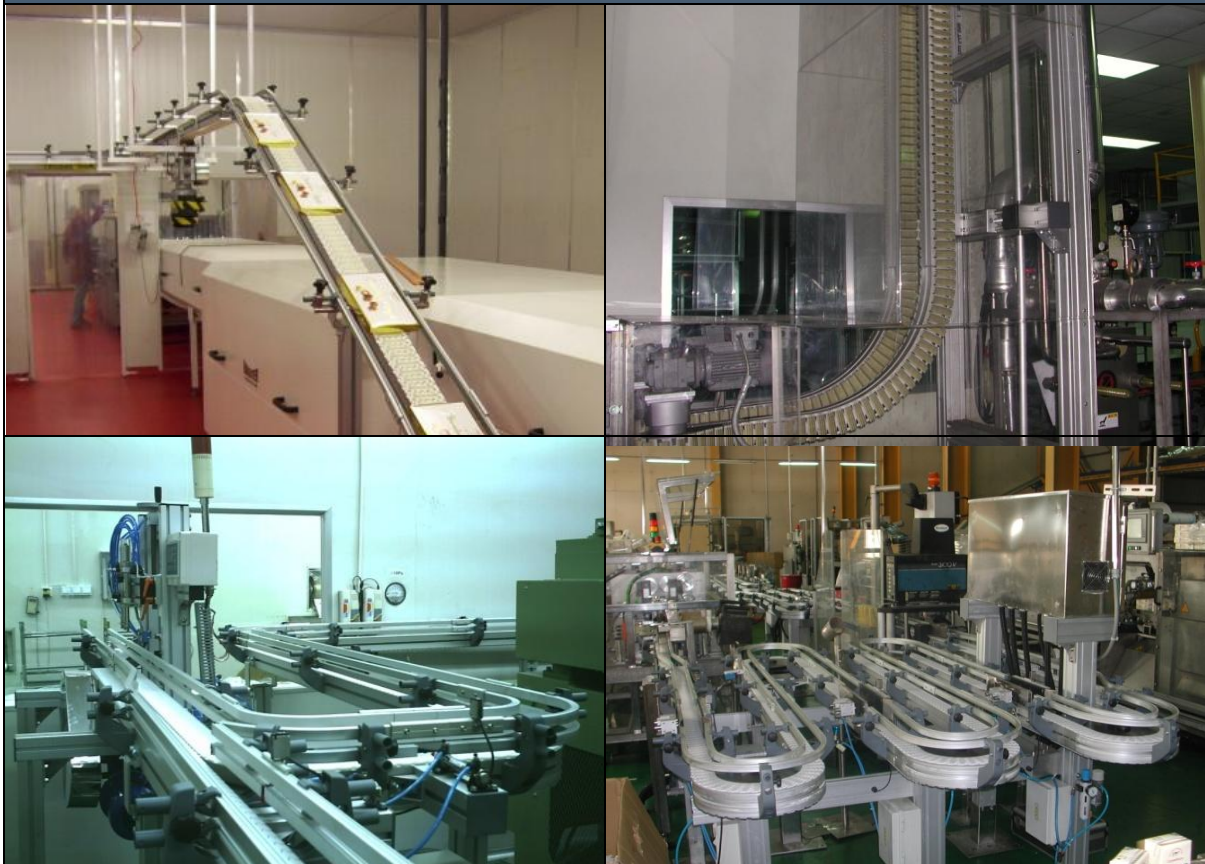
Conveyor accessories



Drive unit information



Conveyor systems FL, FM & FH



Introduction

The PolyLink™ product range consists of more than 400 quality components that cover most conceivable light weight material handling applications.

The range consists of three different conveyor series in order to enable cost efficient horizontal conveyor designs for speed up to 60 m/min.

Series	Width (mm)	Max weight (kg)	Item weight (kg)
FL	65	160	8
FM	85	220	15
FH	105	320	20

For vertical applications total conveyor weight and item weight are reduced. Please refer to the first page of each conveyor series for more detailed technical information.

Flexible & cost-efficient solutions

With PolyLink Conveyors™ you will be able to satisfy most demands that can be put on plastic chain conveyor systems.

In addition to proven design and high product quality, the wide range of flexible components are both interchangeable and reusable.

It enables fast and cost-efficient reconfiguration and extensions of compact 3D-systems in order to suit ever changing production needs.

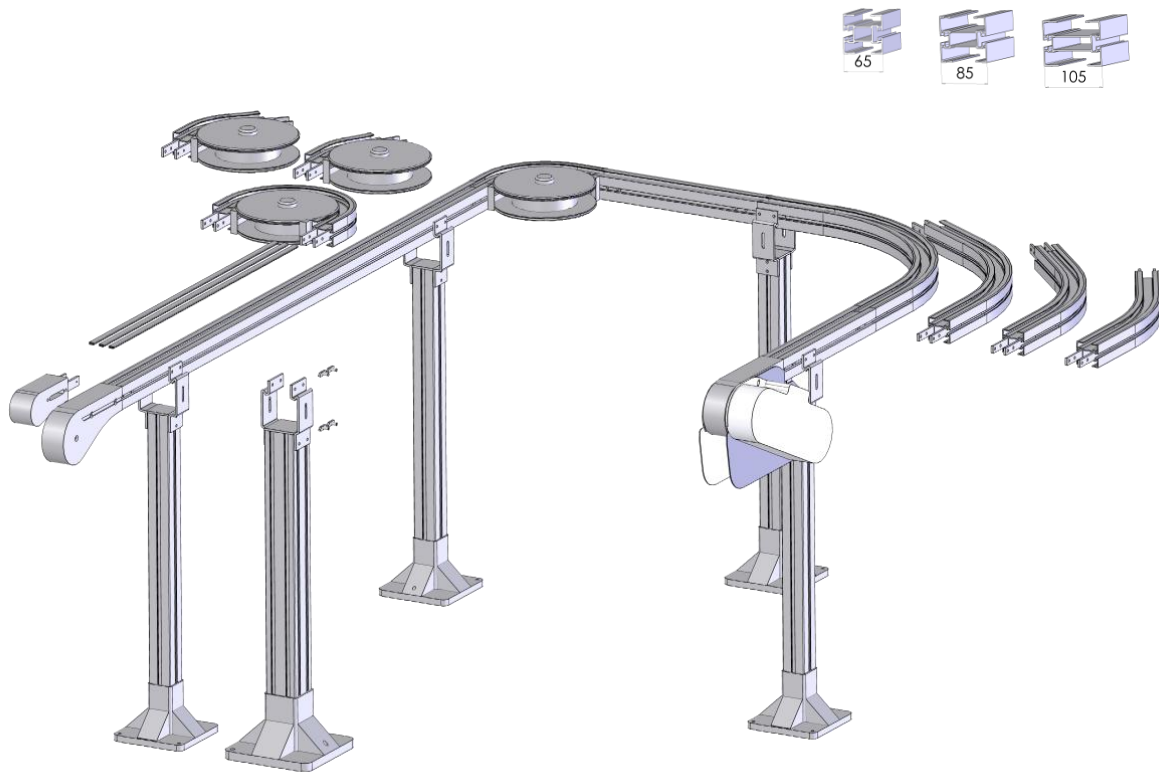
PolyLink Conveyors™ extensive application experience and high product availability, enable short lead times and guarantee safe and smart solutions.

Technical support & RFQ's

For additional technical support, product information or requests for quote, please contact us immediately.

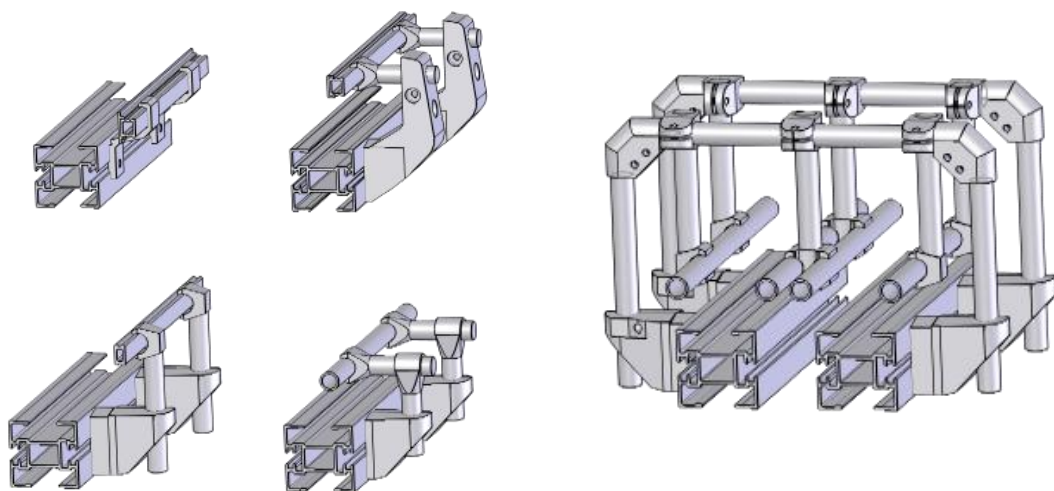


Horizontal conveyor design



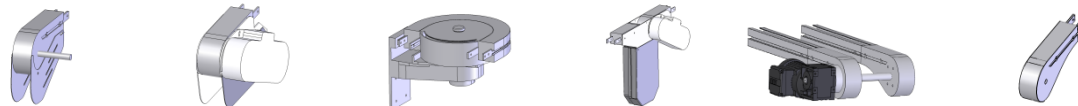
88x88 and 64x64 support beams

Guide rail designs



Horizontal conveyor components overview

Drive and idler units



Direct drive Suspended drive Bend drive Catenary drive Double drive Idler end

Wheel bends



30° 45° 90° 180°

Plain bends



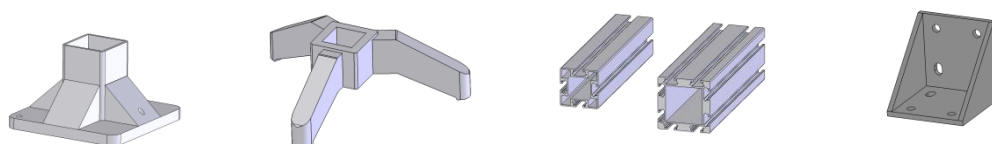
30° 45° 60° 90°

Chains



Plain chain Steel top chain Friction top chain Roller top chain

Support beams and feet



Die-cast feet (88/64) Three-point foot (64) Support beams (88/64) Angle brackets (88/64)

Conveyor support brackets



Vertical support beam (88/64) Horizontal support beam (88/64)

Guide rails



20x15 mm rail, fixed & height adjustable

Diameter 18mm, height & side adjustable

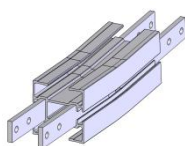


Vertical conveyor design

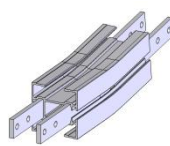


88x88 and 64x64 support beams

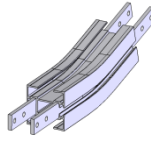
Vertical bends



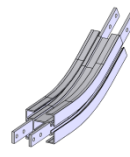
5°



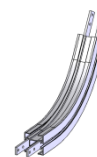
7°



15°



30°

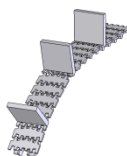


45°



90°

Conveyor chains



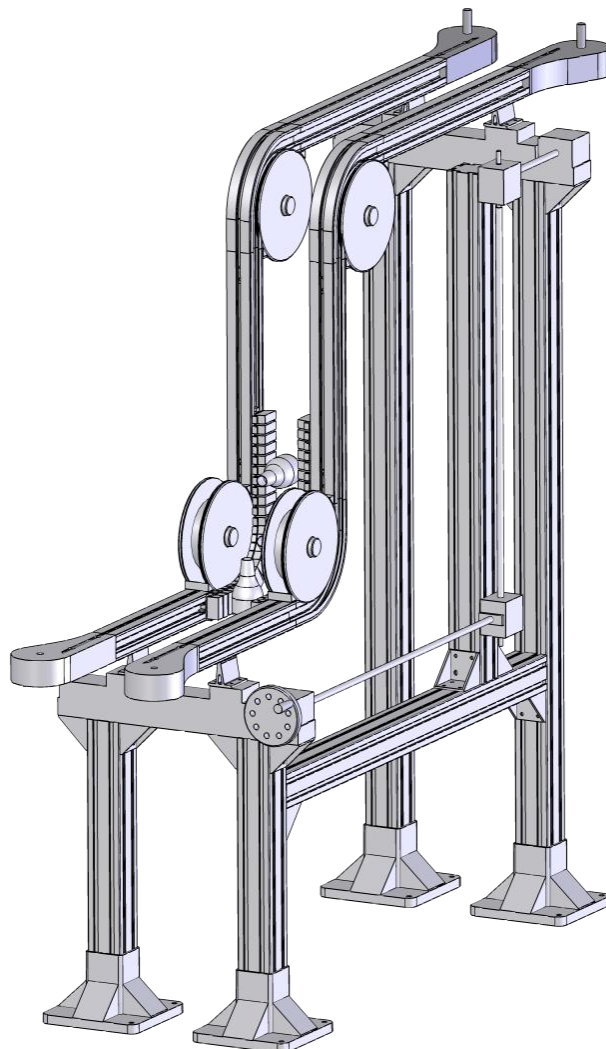
Solid cleat, height 12, 15 and 30 mm



Split cleat, height 4, 5.5, 9, 12, 17 and 30 mm

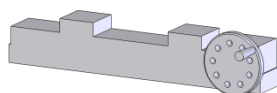


Wedge conveyor design

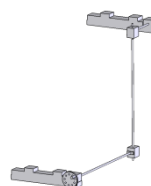


88x88 support beams

Width adjustable devices

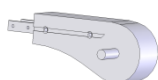


Width adjustment actuator, 660/950 mm



Connecting shafts, angle gear & hand wheels

Chain, drive unit and bracket



Guided wedge direct drive unit



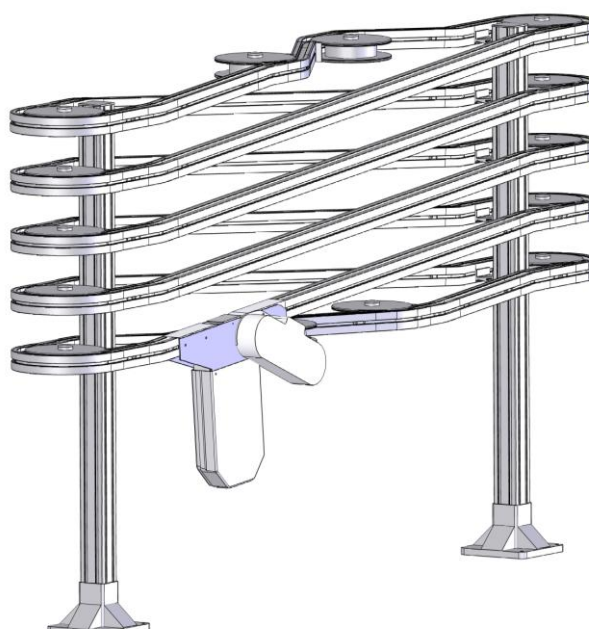
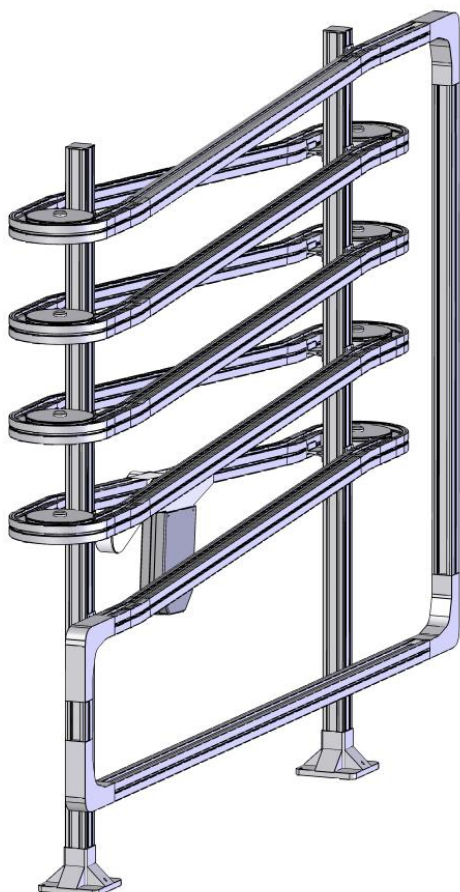
Flexible cleat wedge chain



FLCU 73

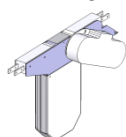


Alpine conveyor design



88 mm support beams

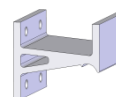
Catenary drive unit & alpine idler



Drive with slip clutch and transmission cover

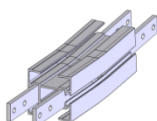


Idler bend unit, 90°

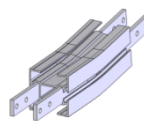


FLCU 73

Vertical bends



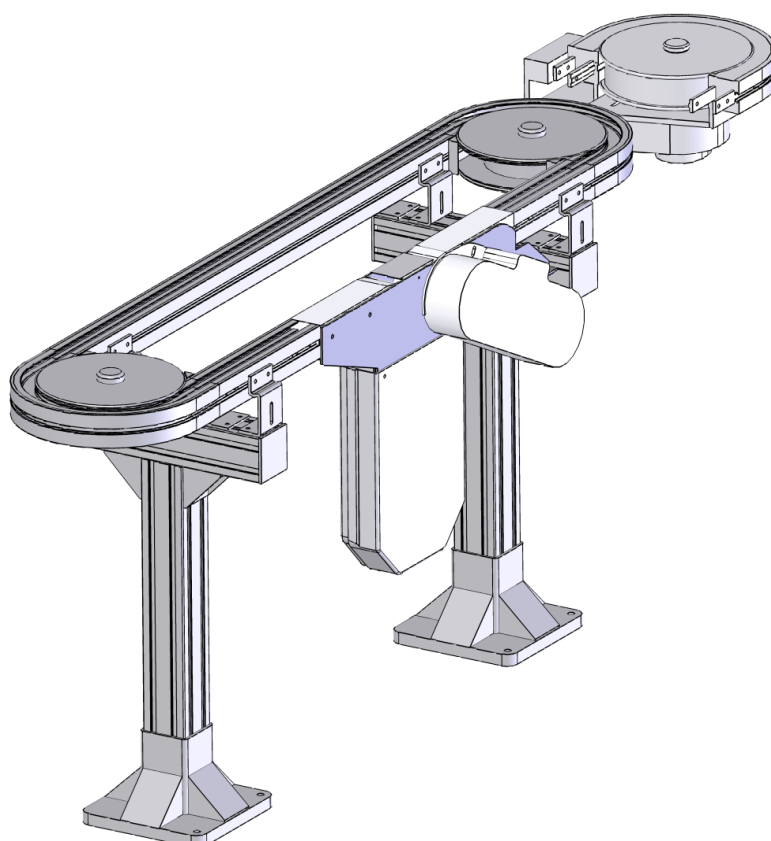
5°



7°

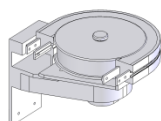


Loop conveyor design



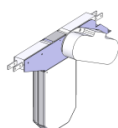
88x88 support beams

Drive option A



Horizontal bend drive

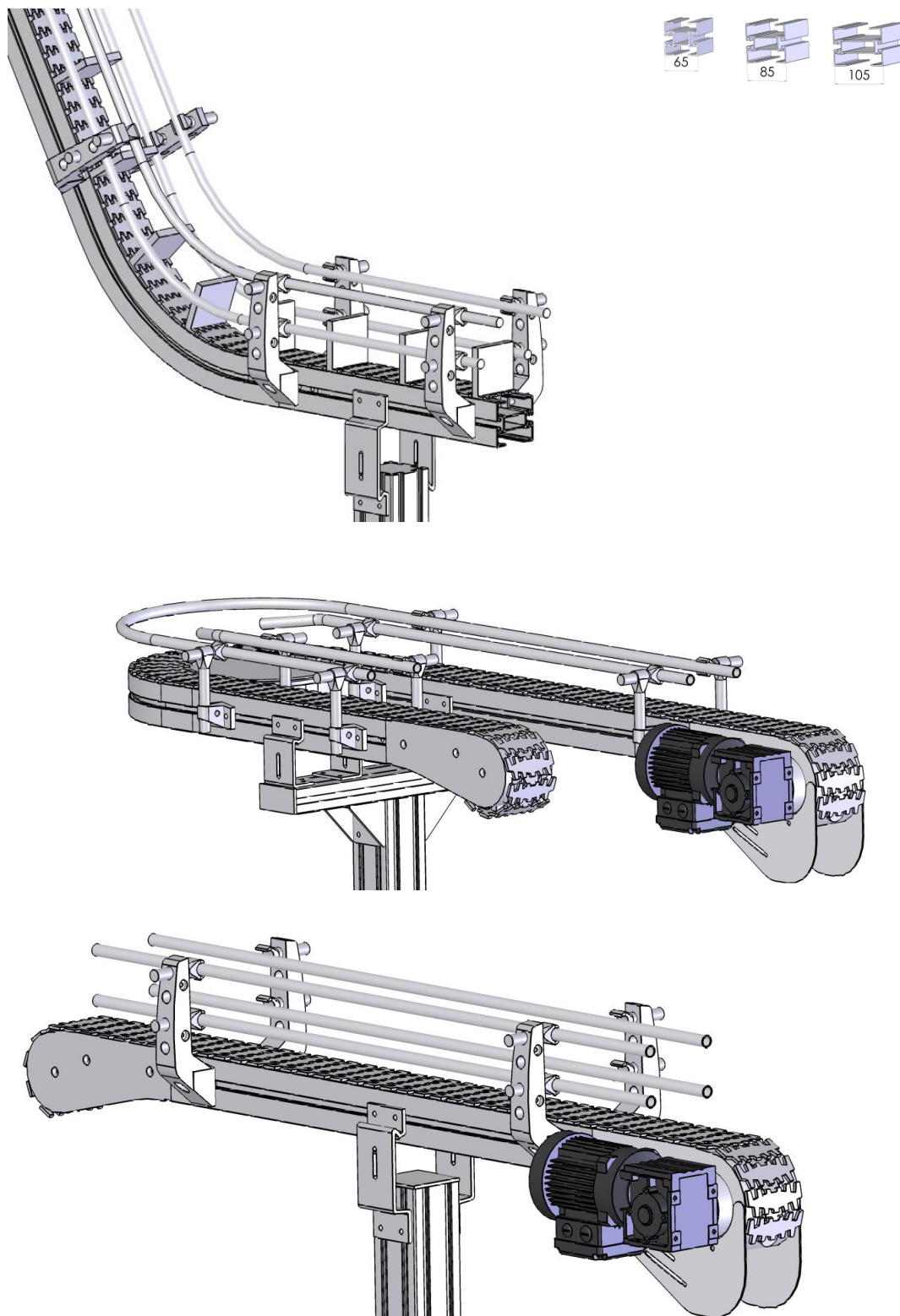
Drive option B



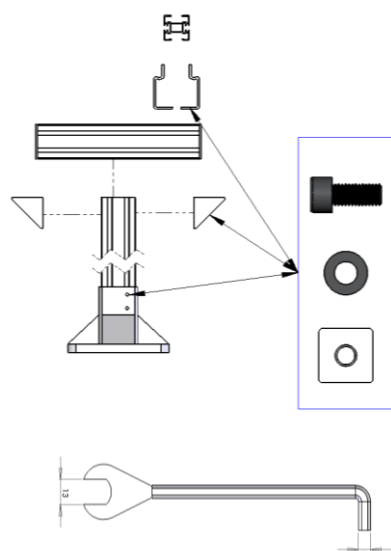
Catenary drive



Conveyor assemblies

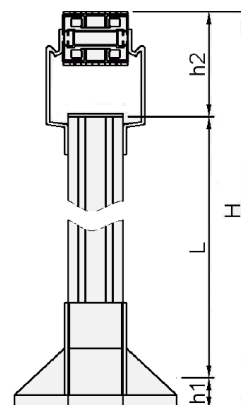


Conveyor support assembly



MC6S M8x16, BRB 8.4x16, FLAQ 8

FLAT 17 – 71, BRB 8.4x16, M6M Tri-loc M8



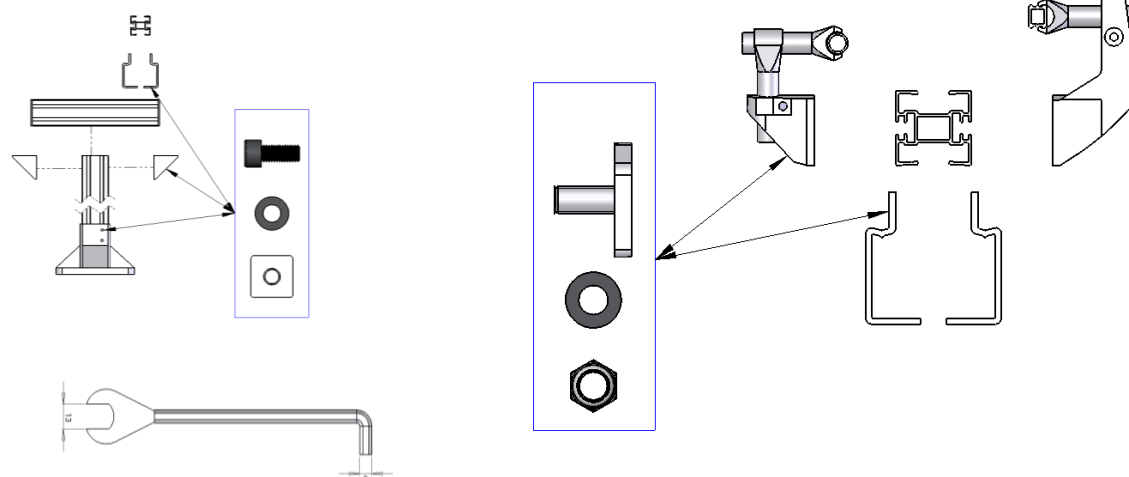
$$L = H - h1 - h2$$

h1 = 50 mm (88 and 64 beams)

h2 = 145 mm (64 beam)

h2 = 170 mm (88 beam)

Guide rail assembly



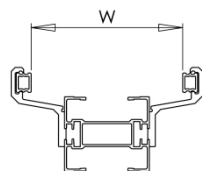
MC6S M8x16, BRB 8.4x16, FLAQ 8

FLAT 17 – 71, BRB 8.4x16, M6M Tri-loc M8



Guided product width and height

FLRB fixed aluminium guide rail brackets



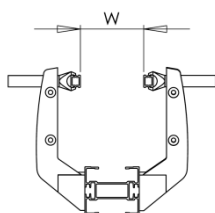
15 mm guide rail, width =	FL	FM	FH
FLRB 16x42	67 mm	87 mm	107 mm
FLRB 28x42	91 mm	111 mm	131 mm
FLRB 40x42	115 mm	135 mm	155 mm
FLRB 49x42	133 mm	155 mm	175 mm
FLRB 53x42	141 mm	161 mm	181 mm
FLRB 65x42	165 mm	185 mm	205 mm
FLRB 90x42	215 mm	235 mm	255 mm

If you use 10 mm guide rails, please add 10 mm to the total width.

If you use distance pieces FLRD 6, please add 12 mm to the total width.

# of FLRD 6	0	1	2	3	4	5	6	7	8
FLAT length (mm)	17	24	35	35	53	53	53	71	71

FLRF 42x62 width adjustable plastic guide rail brackets



15 mm guide rail, width =	FL	FM	FH
FLRF 42x62 A35/FLRK 18x60	20-89 mm	40-109 mm	60-129 mm
FLRF 42x62 A110/FLRK 18x60	20-89 mm	40-109 mm	60-129 mm
FLRF 42x62 A35/FLRK 18x80	0-89 mm	0-109 mm	0-129 mm
FLRF 42x62 A110/FLRK 18x80	0-89 mm	0-109 mm	0-129 mm

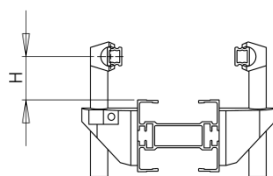
If you use 10 mm guide rails or the Ø18 mm guide rail, please add 10 mm to the total width.

If you use distance pieces FLRD 6 A, please add 12 mm to the total width.

If you use distance pieces FLRD 18 A, please add 32 mm to the total width.

# of FLRD 6 A / 18 A	0 / 0	1 / 0	0 / 1	1 / 1	0 / 2	1 / 2	0 / 3	1 / 3	0 / 4
FLAT length (mm)	17	24	35	35	53	53	53	71	71

FLRF 42x18 V height adjustable plastic guide rail brackets



15 mm guide rail, width =	FL	FM	FH
FLRL 18x110 C	89 mm	109 mm	129 mm

The height is adjustable between 0 to 73 mm.

If you use 10 mm guide rails or the Ø18 mm guide rail, please add 10 mm to the total width.

If you use distance pieces FLRD 6 A, please add 12 mm to the total width.

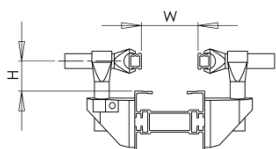
If you use distance pieces FLRD 18 A, please add 32 mm to the total width.

# of FLRD 6 A / 18 A	0 / 0	1 / 0	0 / 1	1 / 1	0 / 2	1 / 2	0 / 3	1 / 3	0 / 4
FLAT length (mm)	17	24	35	35	53	53	53	71	71



Guided product width and height

FLRF 42x18 V width & height adjustable plastic guide rail brackets



15 mm guide rail, width =	FL	FM	FH
FLRK 18x60 C	0-57 mm	0-77 mm	25-97 mm
FLRK 18x80 C	0-57 mm	0-77 mm	0-97 mm

The height is adjustable between 0-32 mm (FLRK 18x60 CA), 0-82 mm (FLRK 18x110 CA) and 0-132 mm (FLRK 18x160 CA).

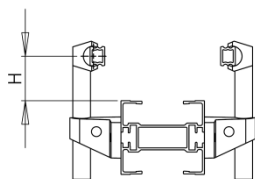
If you use 10 mm guide rails or the Ø18 mm guide rail, please add 10 mm to the total width.

If you use distance pieces FLRD 6 A, please add 12 mm to the total width.

If you use distance pieces FLRD 18 A, please add 32 mm to the total width.

# of FLRD 6 A / 18 A	0 / 0	1 / 0	0 / 1	1 / 1	0 / 2	1 / 2	0 / 3	1 / 3	0 / 4
FLAT length (mm)	17	24	35	35	53	53	53	71	71

FLRF 40x18 height adjustable plastic guide rail brackets



15 mm guide rail, width =	FL	FM	FH
FLRK 18x110 C	51 mm	71 mm	91 mm

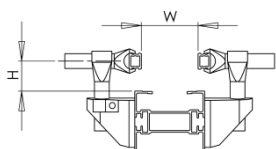
The height is adjustable between 0 to 73 mm.

If you use 10 mm guide rails or the Ø18 mm guide rail, please add 10 mm to the total width.

If you use distance pieces FLRD 30, please add 60 mm to the total width.

# of FLRD 30	0	1	2
FLAT length (mm)	17	53	71

FLRF 40x18 width & height adjustable plastic guide rail brackets



15 mm guide rail, width =	FL	FM	FH
FLRK 18x60 C	0-13 mm	0-33 mm	0-53 mm
FLRK 18x80 C	0-13 mm	0-33 mm	0-53 mm
FLRK 18x60 C + FLRD 30	5-73 mm	25-93 mm	45-113 mm
FLRK 18x80 C + FLRD 30	0-73 mm	5-93 mm	25-113 mm

The height is adjustable between 0-32 mm (FLRK 18x60 CA), 0-82 mm (FLRK 18x110 CA) and 0-132 mm (FLRK 18x160 CA)

If you use 10 mm guide rails or the Ø18 mm guide rail, please add 10 mm to the total width.

If you use distance pieces FLRD 30, please add 60 mm to the total width.

# of FLRD 30	0	1	2
FLAT length (mm)	17	53	71



Slide rail assembly

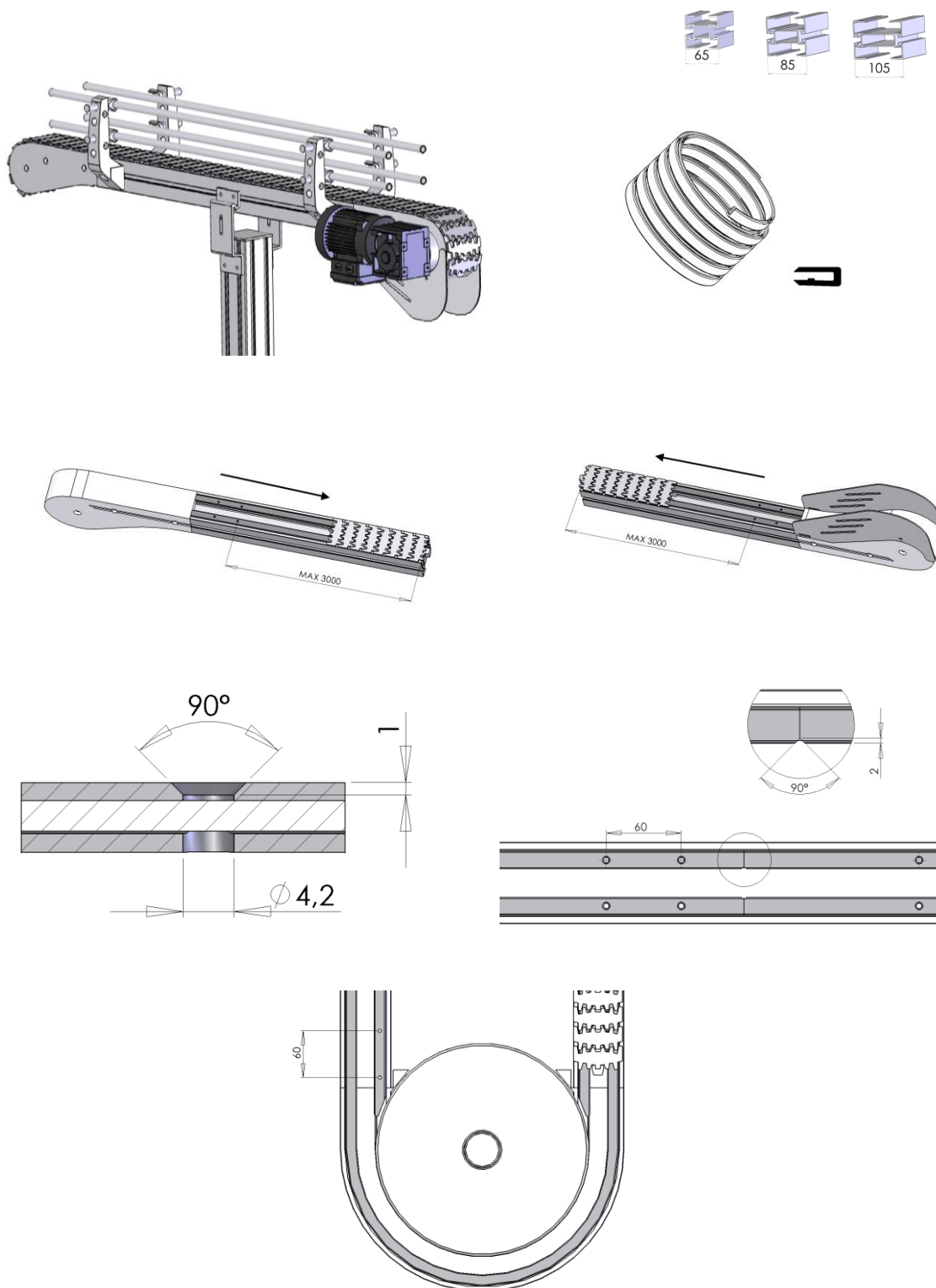




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Beam	FLCB 3	FL – 2
	FLCB 3 H	FL – 2
	FLCE 29x20	FL – 2
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	FLEB 0 HRUA	FL – 2
	FLEB 0 D HLUA	FL – 3
	FLEB 0 D HRUA	FL – 3
	FLEB 0 HLA	FL – 3
	FLEB 0 HRA	FL – 3
	FLEW 180 O H	FL – 4
	FLEC 0 HL	FL – 4
	FLEC 0 HR	FL – 4
	FLEB 0 HLGUA	FL – 5
	FLEB 0 HRGUA	FL – 5
Idler ends	FLEJ 200	FL – 5
	FLEJ 320	FL – 5
	FLEK 90 R40	FL – 5
Horizontal wheel bends	FLBH 30 R150	FL – 6
	FLBH 45 R150	FL – 6
	FLBH 90 R150	FL – 6
	FLBH 180 R150	FL – 6
Horizontal plain bends	FLBP 30 R500	FL – 7
	FLBP 30 R700	FL – 7
	FLBP 30 R1000	FL – 7
	FLBP 45 R500	FL – 7
	FLBP 45 R700	FL – 7
	FLBP 45 R1000	FL – 7
	FLBP 60 R500	FL – 8
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	FLBP 60 R1000	FL – 8
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	FLBP 90 R700	FL – 8
	FLBP 90 R1000	FL – 8



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	FLBV 30 R300	FL – 9
	FLBV 45 R300	FL – 9
	FLBV 45 R1000	FL – 9
	FLBV 60 R300	FL – 10
	FLBV 90 R300	FL – 10
	FLBV 90 R1000	FL – 10
Horizontal chains	FLTP 5	FL – 11
	FLTP 5 TF	FL – 11
	FLTP 5 F	FL – 11
	FLTP 5 F2	FL – 11
	FLTP 5 FA	FL – 11
	F5047490	FL – 11
	FLTR 5	FL – 11
Vertical chains	FLTF 5x12 C #	FL – 12
	FLTF 5x15 C #	FL – 12
	FLTF 5x30 C #	FL – 12
	FLTF 5x4 A #	FL – 12
	FLTF 5x5,5 A #	FL – 12
	FLTF 5x9 A #	FL – 13
	FLTF 5x12 A #	FL – 13
	FLTF 5x17 A #	FL – 13
	FLTF 5x30 A #	FL – 13
	FLTE 5 C	FL – 13
	FLTE 5 D	FL – 13
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	FCLA 950 A	FL – 14
	FLFX 3	FL – 14
	FCFW 90	FL – 14
	FLAW 160x10	FL – 14



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	FLDB 21x100	FL – 15
	FLDD 107 B	FL – 15
	FLDH 90x107 B	FL – 15
Conveyor system FM		
Beam	FMCB 3	FM – 2
	FMCB 3 H	FM – 2
	FMCE 49x30	FM – 2
Drive units	FMEB 0 HLUA	FM – 2
	FMEB 0 HRUA	FM – 2
	FMEB 0 D HLUA	FM – 3
	FMEB 0 D HRUA	FM – 3
	FMEB 0 HLA	FM – 3
	FMEB 0 HRA	FM – 3
	FMEW 180 O H	FM – 4
	FMEC 0 HL	FM – 4
	FMEC 0 HR	FM – 4
	FMEB 0 HLGUA	FM – 5
	FMEB 0 HRGUA	FM – 5
Idler ends	FMEJ 300	FM – 5
	FMEJ 315	FM – 5
	FMEK 90 R50	FM – 5
Horizontal wheel bends	FMBH 30 R160	FM – 6
	FMBH 45 R160	FM – 6
	FMBH 90 R160	FM – 6
	FMBH 180 R160	FM – 6
Horizontal plain bends	FMBP 15 R500	FM – 7
	FMBP 30 R500	FM – 7
	FMBP 30 R700	FM – 7
	FMBP 30 R1000	FM – 7
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	FMBP 45 R1000	FM – 7
	FMBP 60 R500	FM – 8
	FMBP 60 R700	FM – 8
	FMBP 60 R1000	FM – 8
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	FMBP 90 R700	FM – 8
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	FMBV 90 R1000	FM – 10
Horizontal chains	FMTP 5	FM – 11
	FMTP 5 TF	FM – 11
	FMTP 5 F	FM – 11
	FMTP 5 F2	FM – 11
	FMTP 5 FA	FM – 11
	F5048331	FM – 11
	FMTL 83 U	FM – 11
	F5047887	FM – 11
	FMTR 5	FM – 12
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	FMTF 5x80 D #	FM – 12
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	FMTF 5x46 R #	FM – 12
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	FCLA 950 A	FM – 14
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	FMDD 127 B	FM – 15
	FMDH 90x127 B	FM – 15
Pallet components	FMPP 150x200	FM – 16
	FLRS 3x10	FM – 16
	FLRB 49x42	FM – 16
Conveyor system FH		
Beam	FHCB 3	FH – 2
	FHCB 3 H	FH – 2
	FHCE 69x30	FH – 2
Drive units	FHEB 0 HLUA	FH – 2
	FHEB 0 HRUA	FH – 2
	FHEB 0 D HLUA	FH – 3
	FHEB 0 D HRUA	FH – 3
	FHEB 0 HLA	FH – 3
	FHEB 0 HRA	FH – 3
	FHEW 180 O H	FH – 4
	FHEC 0 HL	FH – 4
	FHEC 0 HR	FH – 4
Idler ends	FHEJ 310	FH – 5
	FHEJ 325	FH – 5
	FHEK 90 R50	FM – 5



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	FHHB 90 R170	FH – 6
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Horizontal plain bends	FHBP 15 R500	FH – 7
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	FHBP 30 R700	FH – 7
	FHBP 30 R1000	FH – 7
	FHBP 45 R500	FH – 7
	FHBP 45 R700	FH – 7
	FHBP 45 R1000	FH – 7
	FHBP 60 R500	FH – 8
	FHBP 60 R700	FH – 8
	FHBP 60 R1000	FH – 8
	FHBP 90 R500	FH – 8
	FHBP 90 R700	FH – 8
	FHBP 90 R1000	FH – 8
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	FHBV 7 R400	FH – 9
	FHBV 15 R400	FH – 9
	FHBV 20 R400	FH – 9
	FHBV 30 R400	FH – 9
	FHBV 30 R1000	FH – 9
	FHBV 45 R400	FH – 10
	FHBV 45 R1000	FH – 10
	FHBV 60 R400	FH – 10
	FHBV 90 R400	FH – 10
	FHBV 90 R1000	FH – 10
Horizontal chains	FHTP 5	FH – 11
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	FHTP 5 F	FH – 11
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	FHTF 5x40 A #	FH – 12
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Conveyor beam parts	FLCR 25	CA – 1
	FLCR 25 P	CA – 1
	FLAG 5	CA – 1
	FLAH 4x8 A	CA – 1
	FLCJ 6x140	CA – 1
	FLAB 25	CA – 1
	FCAC 3 P	CA – 1
	FLCC 160	CA – 1
	FMCC 160	CA – 1
	FHCC 160	CA – 1
Conveyor support brackets	FLCS 88	CA – 2
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	FMCS 64	CA – 2
	FHCS 88	CA – 2
	FHCS 64	CA – 2
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	FLCT 21x100	CA – 3
	FLCT 21x135 A	CA – 3
	FLCT 21x135	CA – 3
	FLCT 21x158 R	CA – 3
	FLCU 73	CA – 3
Guide rail components	FLRS 3x10	CA – 4
	FLRS 3x15	CA – 4
	FLRS 3x10 P	CA – 4
	FLRS 3x15 P	CA – 4
	FLRE 10	CA – 4
	FLRE 15	CA – 4



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Section	Product designation	Page
Conveyor accessories		
Guide rail components	FLRJ 10	CA – 4
	FLRJ 15	CA – 4
	FLRJ 100	CA – 4
	FLRT 3x23	CA – 4
	FLRT 3x33 D	CA – 4
	FLRB 29x36	CA – 5
	FLRB 16x42	CA – 5
	FLRB 28x42	CA – 5
	FLRB 40x42	CA – 5
	FLRB 49x42	CA – 5
	FLRB 53x42	CA – 5
	FLRB 65x42	CA – 5
	FLRB 90x42	CA – 5
	FLRD 6	CA – 5
	FLAP 28	CA – 5
	FLRC 20 A	CA – 5
	FLRA 8x9x45	CA – 6
	FLRA 8x39x45	CA – 6
	FLRA 26x9x45	CA – 6
	FLRA 26x39x45	CA – 6
	FLRA 16x30x52	CA – 6
	FLRA 41x30x52	CA – 6
	FLRR 3x18 C	CA – 7
	FLRZ 18	CA – 7
	FLRF 42x62 A35	CA – 7
	FLAK 18	CA – 7
	FLRF 42x62 A110	CA – 7
	FLRK 18x60 C	CA – 7
	FLRK 18x80 C	CA – 7
	FLRF 42x18 V	CA – 7
	FLRD 18 A	CA – 7
	FLRD 6 A	CA – 7
	FLRF 40x18	CA – 7



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Section	Product designation	Page
Conveyor accessories		
Guide rail components	FLRD 30	CA – 7
	FLRL 18x60 CA	CA – 8
	FLRL 18x110 CA	CA – 8
	FLRL 18x160 CA	CA – 8
	FLRX 18 X	CA – 8
	FLRX 18 C	CA – 8
	FLAR 6x20	CA – 8
	FLAR 6x30	CA – 8
	FLNR 3 U	CA – 8
	FLRD 3 D	CA – 8
	FLRL 18x110 C	CA – 8
	FLRC 18x110 C	CA – 8
	FLRK 18 CE	CA – 8
Support beams and end caps	FCBL 3x88	CA – 9
	FCBE 88	CA – 9
	FCBL 3x44x88	CA – 9
	FCBE 44x88	CA – 9
	FCBL 3X64	CA – 9
	FCBE 64	CA – 9
	FCBL 3X44	CA – 9
	FCBE 44	CA – 9
	FCBL 3x15x44	CA – 9
	FCBE 15x44	CA – 9
	FCBL 3x24x34	CA – 9
	FCBE 24x34	CA – 9
Support brackets	FMFA 84 A	CA – 10
	FMFA 84 B	CA – 10
	FLFA 44 A	CA – 10
	FLFA 44 B	CA – 10
	FLFA 24	CA – 10
	FMFA 84	CA – 10
Feet	FCFF 88x260 A	CA – 11
	FCFF 64x210 A	CA – 11
	FCFF 44x130 A	CA – 11
	FEFG 64 T	CA – 11
	FEFG 64 D	CA – 11



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Section	Product designation	Page
Conveyor accessories		
Feet	FLFS 20 P	CA – 11
	FLFJ 69	CA – 11
	FCFB 88 F	CA – 11
Fittings	FLAT 17	CA – 12
	FLAT 24	CA – 12
	FLAT 35	CA – 12
	FLAT 53	CA – 12
	FLAT 71	CA – 12
	FLAT 17 S	CA – 12
	FLAT 24 S	CA – 12
	FLAT 35 S	CA – 12
	FLAT 53 S	CA – 12
	FLAT 71 S	CA – 12
	FLAQ 8	CA – 12
	FLAQ 6	CA – 12
	FLAQ 8 S	CA – 12
	FLAQ 6 S	CA – 12
	FMRX 20	CA – 12
	FMRY 20	CA – 12
	FMRW 20	CA – 12
Tools	FLMJ 4	CA – 13
	FMMJ 6	CA – 13
	FHMJ 6	CA – 13
	F5051395	CA – 13
	F3923005	CA – 13
	F3920500	CA – 13
	FLMR 140	CA – 13
	FMMR 140	CA – 13
	FHMR 200	CA – 13



Introduction

The FL system's high product quality and proven design will make it easy for you to build systems as well as extensions or order spare parts to existing installations.

Application areas

The FL conveyor system is ideally suited for handling light weight products like tissue paper, bearings, plastic bottles, coffee and tea bags, cosmetics products, inhalators and optical lenses.

Technical characteristics

Chain width	63 mm
Chain pitch	25,4 mm
Beam width	65 mm
Max chain tension	500 N
Max drive unit traction	500 N

Operating temperatures

The conveyor is designed to operate in temperatures between - 20° and + 60° Celsius.

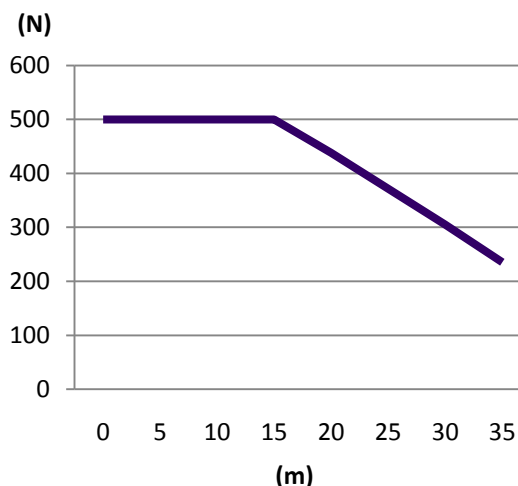
Short-term exposure up higher temperatures (max + 80° Celsius) are possible. Please contact PTE Conveyors™ to discuss further.

Operating conditions

Max conveyor speed	60 m/min
Product widths	20 to 150 mm
Max conveyor length	35 m
Max horizontal item weight	8 kg
Max total horizontal weight	160 kg
Max vertical item weight	2 kg
Max total vertical weight	70 kg
Max wedge conveyor length	9 m
Max wedge item weight	1 kg
Max wedge total weight	70 kg

Allowed chain tension

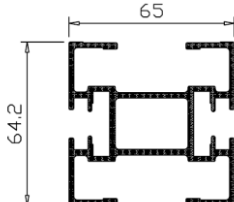
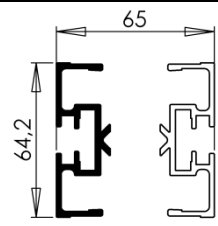
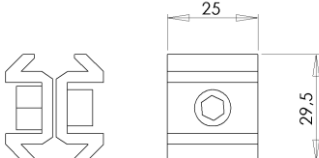
The diagram below shows the allowed chain tension as a function of the conveyor length.



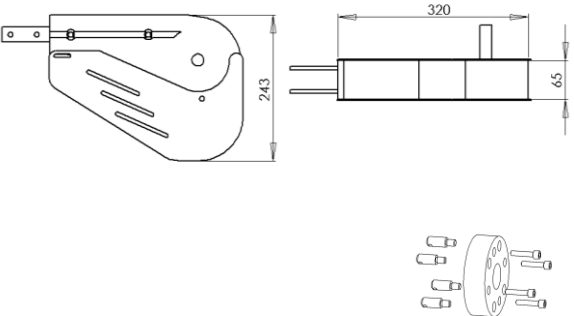
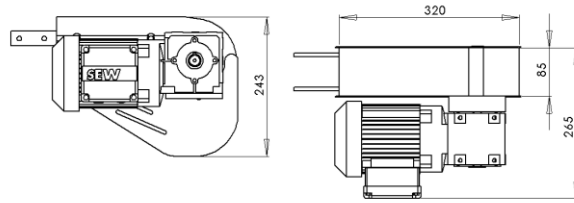
Conveyor system FL – 65 mm beam width



Beam

Dimensions	Designation	Information
	FLCB 3	Length 3 m Conveyor beam
	FLCB 3 H	Length 3 m Split conveyor beam
	FLCE 29x20	Beam clip assembly, for split conveyor beam FLCB 3 H

Drive units

Dimensions	Designation	Information
	FLEB O HLUA	O-unit, left
	FLEB O HRUA	O-unit, right
	Mounting flange kit, SEW WA 20 and SA37	Direct end drive unit No slip clutch Drive shaft Ø = 20 mm Chain length = 0,80 m
	Please use O-unit designation above Speed and motor configuration are ordered separately	Complete drive unit See drive unit section and fax order form for additional information



Drive units

Dimensions	Designation	Information
	FLEB OD HLUA	Double O-unit, left
	FLEB OD HRUA	Double O-unit, right
	X-distance defined separately	Double direct end drive unit
	Mounting flange kit, SEW WA 20 and SA37	No slip clutch Drive shaft Ø = 20 mm Chain length = 0,80 m
	Please use O-unit designation above	Complete drive unit
	Speed and motor configuration are ordered separately	See drive unit section and fax order form for additional information
	FLEB O HLA	O-unit, left
	FLEB O HRA	O-unit, right
	Suspended motor end drive	With slip clutch and transmission cover.
	Chain length = 0,80 m	
	Please use O-unit designation above	Complete drive unit
	Speed and motor configuration are ordered separately	See drive unit section and fax order form for additional information



Drive units

Dimensions	Designation	Information
	FLEW 180 0 H	O-unit Horizontal bend drive With slip clutch and transmission cover Chain length = 0,65 m
	Please use O-unit designation above Speed and motor configuration are ordered separately	Complete drive unit See drive unit section and fax order form for additional information
	FLEC O HL FLEC O HR	O-unit, left O-unit, right Catenary drive With slip clutch and transmission cover Chain length = 1,35 m
	Please use O-unit designation above Speed and motor configuration are ordered separately	Complete drive unit See drive unit section and fax order form for additional information



Drive units

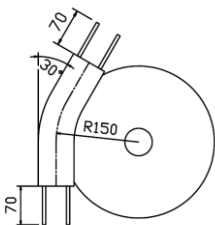
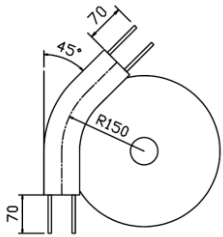
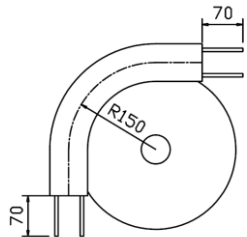
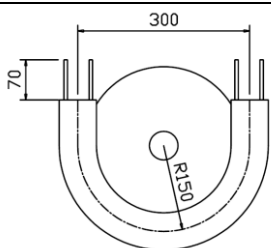
Dimensions	Designation	Information
	FLEB 0 HLGUA	O-unit, left
	FLEB 0 HRGUA	O-unit, right
		Guided wedge direct drive unit
		No slip clutch
		Chain length = 0,80 m
	Please use O-unit designation above	Complete drive unit
	Speed and motor configuration are ordered separately	See drive unit section and fax order form for additional information

Idler end units

Dimensions	Designation	Information
	FLEJ 200	200 mm
		Chain length = 0,45 m
	FLEJ 320	320 mm
	High speed applications	Chain length = 0,80 m
	FLEK 90 R40	Alpine idler bend unit
		Chain length, one way only = 0,40 m



Horizontal wheel bends

Dimensions	Designation	Information
	FLBH 30R150	30 ° Chain length = 0,50 m (top chain = 0,25 m)
	FLBH 45R150	45 ° Chain length = 0,60 m (top chain = 0,30 m)
	FLBH 90R150	90 ° Chain length = 0,80 m (top chain = 0,40 m)
	FLBH 180R150	180 ° Chain length = 1,30 m (top chain = 0,65 m)



Horizontal plain bends

Dimensions	Designation	Information
	FLBP 30 R500	30 ° Chain length = 1,35 m (top chain = 0,70 m)
	FLBP 30 R700	30 ° Chain length = 1,55 m (top chain = 0,80 m)
	FLBP 30 R1000	30 ° Chain length = 1,85 m (top chain = 0,95 m)
	FLBP 45 R500	45 ° Chain length = 1,60 m (top chain = 0,80 m)
	FLBP 45 R700	45 ° Chain length = 1,90 m (top chain = 0,95 m)
	FLBP 45 R1000	45 ° Chain length = 2,40 m (top chain = 1,20 m)



Horizontal plain bends

Dimensions	Designation	Information
	FLBP 60 R500	60 ° Chain length = 1,85 m (top chain = 0,95 m)
	FLBP 60 R700	60 ° Chain length = 2,30 m (top chain = 1,15 m)
	FLBP 60 R1000	60 ° Chain length = 2,90 m (top chain = 1,45 m)
	FLBP 90 R500	90 ° Chain length = 2,40 m (top chain = 1,20 m)
	FLBP 90 R700	90 ° Chain length = 3,00 m (top chain = 1,50 m)
	FLBP 90 R1000	90 ° Chain length = 3,95 m (top chain = 2,00 m)



Vertical bends

Dimensions	Designation	Information
	FLBV 5 R300	5 ° Chain length = 0,40 m (top chain = 0,20 m)
	FLBV 7 R300	7 ° Chain length = 0,40 m (top chain = 0,25 m)
	FLBV 15 R300	15 ° Chain length = 0,50 m
	FLBV 30 R300	30 ° Chain length = 0,65 m
	FLBV 45 R300	45 ° Chain length = 0,80 m
	FLBV 45 R1000	45 ° Chain length = 1,90 m

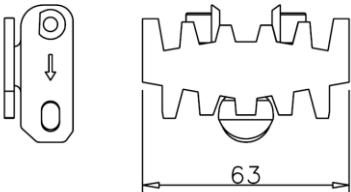
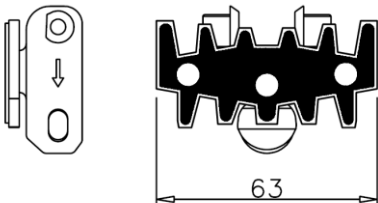
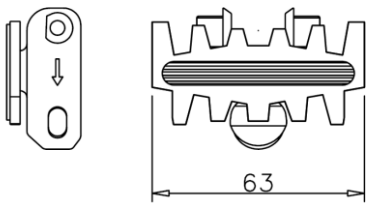
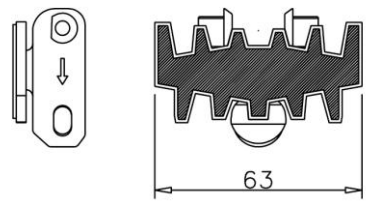
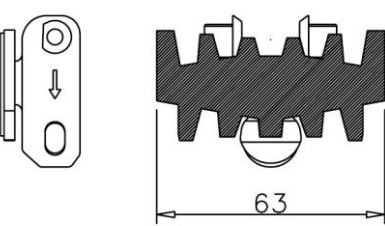
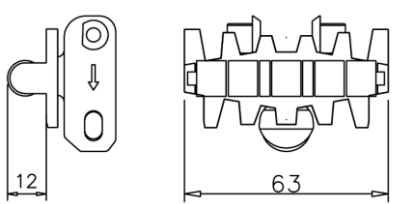


Vertical bends

Dimensions	Designation	Information
	FLBV 60 R300	60 ° Chain length = 0,95 m
	FLBV 90 R300	90 ° Chain length = 1,30 m
	FLBV 90 R1000	90 ° Chain length = 3,50 m

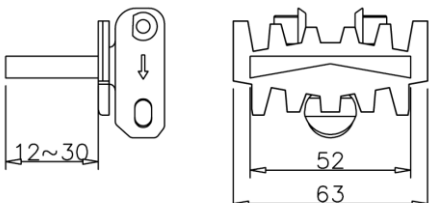
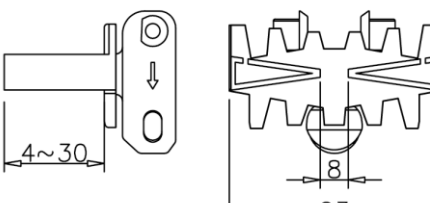
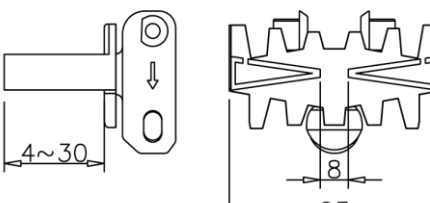
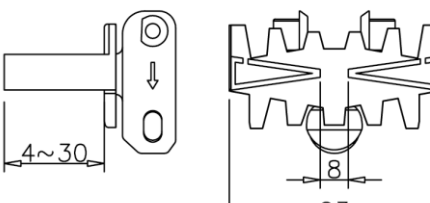


Horizontal chains

Dimensions	Designation	Information
	FLTP 5	Length 5 m Plain chain Chains can also be ordered by the meter
	FLTP 5 TF	Length 5 m Steel top chain Chains can also be ordered by the meter
	FLTP 5 F	Length 5 m Friction top chain
	FLTP 5 F2 (every second link)	Chains can also be ordered by the meter
	FLTP 5 FA	Length 5 m Friction top chain, flat top Chains can also be ordered by the meter
	F5047490	Length 5 m Flock chain Chains can also be ordered by the meter
	FLTR 5	Length 5 m Roller top chain H = 12 mm Chains can also be ordered by the meter

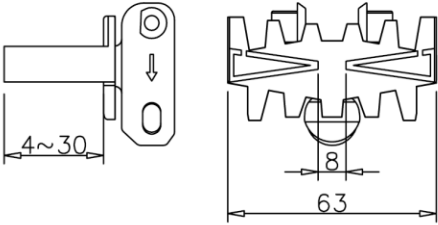
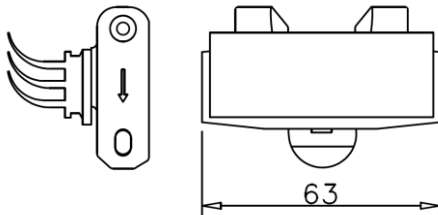
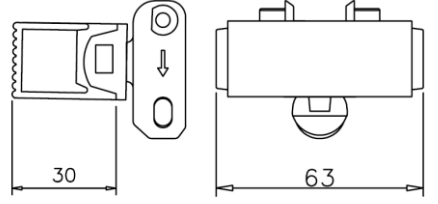


Vertical chains

Dimensions	Designation	Information
	FLTF 5x12 C #	Length 5 m
	Enter cleat frequency instead of # (1-20) in designation	Cleated top chain H = 12 mm Chains can also be ordered by the meter
	FLTF 5x15 C #	Length 5 m
	Enter cleat frequency instead of # (1-20) in designation	Cleated top chain H = 15 mm Chains can also be ordered by the meter
	FLTF 5x30 C #	Length 5 m
	Enter cleat frequency instead of # (1-20) in designation	Cleated top chain H = 30 mm Chains can also be ordered by the meter
	FLTF 5x4 A #	Length 5 m
	Enter cleat frequency instead of # (1-20) in designation	Cleated top chain H = 4 mm Chains can also be ordered by the meter
	FLTF 5x5,5 A #	Length 5 m
	Enter cleat frequency instead of # (1-20) in designation	Cleated top chain H = 5,5 mm Chains can also be ordered by the meter



Vertical chains

Dimensions	Designation	Information
	FLTF 5x9 A #	Length 5 m
	Enter cleat frequency instead of # (1-20) in designation	Cleated top chain H = 9 mm Chains can also be ordered by the meter
	FLTF 5x12 A #	Length 5 m
	Enter cleat frequency instead of # (1-20) in designation	Cleated top chain H = 12 mm Chains can also be ordered by the meter
	FLTF 5x17 A #	Length 5 m
	Enter cleat frequency instead of # (1-20) in designation	Cleated top chain H = 17 mm Chains can also be ordered by the meter
	FLTF 5x30 A #	Length 5 m
	Enter cleat frequency instead of # (1-20) in designation	Cleated top chain H = 30 mm Chains can also be ordered by the meter
	FLTE 5 C	Length 5 m
		Flexible cleat chain H = 30 mm Chains can also be ordered by the meter
	FLTE 5 D	Length 5 m
		Flexible cleat chain H = 30 mm Chains can also be ordered by the meter

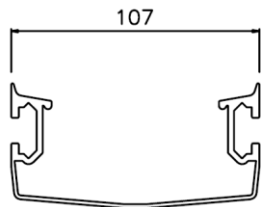
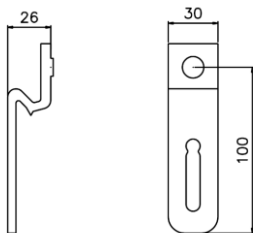
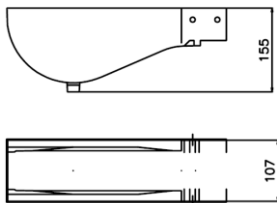
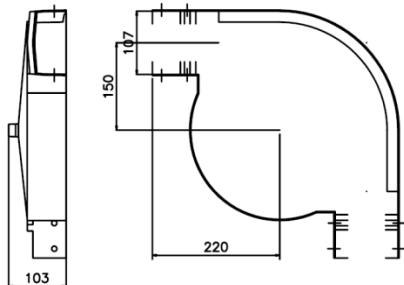


Width adjustable devices

Dimensions	Designation	Information
	FCLA 660 A	L = 660 mm Width adjustment actuator
	FCLA 950 A	L = 950 mm Width adjustment actuator
	FLFX 3	3 m Connecting shaft
	FCFW 90	Angle gear unit
	FLAW 160x10	Handwheel for 10 mm shaft



Drip trays

Dimensions	Designation	Information
	FLDT 3X107 B	L = 3 m Drip tray, aluminum
	FLDB 21X100	Drip tray bracket
	FLDD 107 B	Drip catcher for idler end
	FLDH 90X107 B	Drip catcher 90 deg



Introduction

The FM system's high product quality and proven design will make it easy for you to build systems as well as extensions or order spare parts to existing installations.

Application areas

The FM conveyor system is the most versatile system and ideally suited for handling products like cartridges, packaged products, plastic bottles, RTI containers and glass bottles.

Technical characteristics

Chain width	83 mm
Chain pitch	33,5 mm
Beam width	85 mm
Max chain tension	1250 N
Max drive unit traction	1250 N

Operating temperatures

The conveyor is designed to operate in temperatures between - 20° and + 60° Celsius.

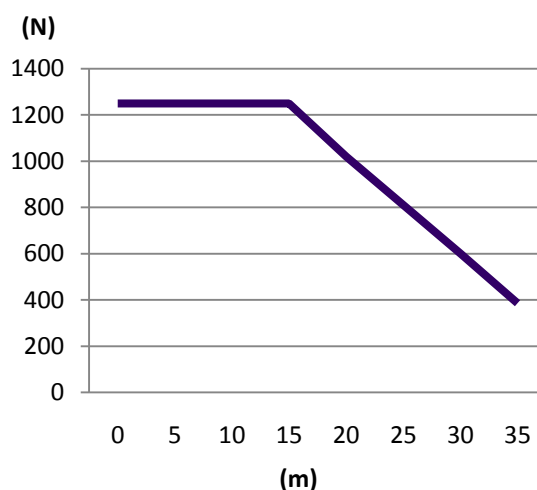
Short-term exposure up higher temperatures (max + 80° Celsius) are possible. Please contact PTE Conveyors™ to discuss further.

Operating conditions

Max conveyor speed	60 m/min
Product widths	30 to 200 mm
Max conveyor length	35 m
Max horizontal item weight	15 kg
Max total horizontal weight	220 kg
Max vertical item weight	10 kg
Max total vertical weight	70 kg
Max wedge conveyor length	9 m
Max wedge item weight	1 kg
Max wedge total weight	70 kg

Allowed chain tension

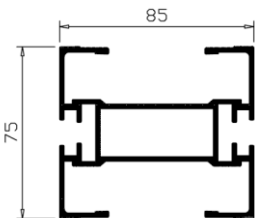
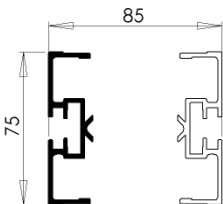
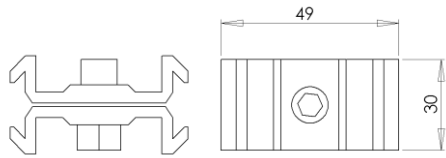
The diagram below shows the allowed chain tension as a function of the conveyor length.



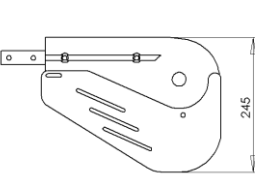
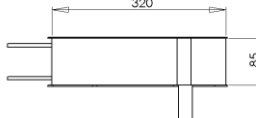
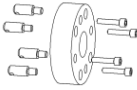
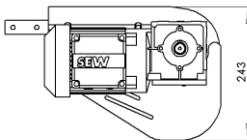
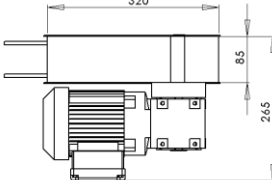
Conveyor system FM – 85 mm beam width



Beam

Dimensions	Designation	Information
	FMCB 3	Length 3 m Conveyor beam
	FMCB 3 H	Length 3 m Split conveyor beam
	FMCE 49x30	Beam clip assembly, for split conveyor beam FMCB 3 H

Drive units

Dimensions	Designation	Information
  	FMEB O HLUA	O-unit, left
	FMEB O HRUA	O-unit, right
	Mounting flange kit, SEW WA 20 and SA37	Direct end drive unit No slip clutch Drive shaft Ø = 20 mm Chain length = 0,80 m
 	Please use O-unit designation above Speed and motor configuration are ordered separately	Complete drive unit See drive unit section and fax order form for additional information



Drive units

Dimensions	Designation	Information
	FMEB OD HLUA	Double O-unit, left
	FMEB OD HRUA	Double O-unit, right
	X-distance defined separately	Double direct end drive unit
	Mounting flange kit, SEW WA 20 and SA37	No slip clutch Drive shaft Ø = 20 mm Chain length = 0,80 m
	Please use O-unit designation above Speed and motor configuration are ordered separately	Complete drive unit See drive unit section and fax order form for additional information
	FMEB O HLA	O-unit, left
	FMEB O HRA	O-unit, right
		Suspended motor end drive With slip clutch and transmission cover. Chain length = 0,80 m
	Please use O-unit designation above Speed and motor configuration are ordered separately	Complete drive unit See drive unit section and fax order form for additional information

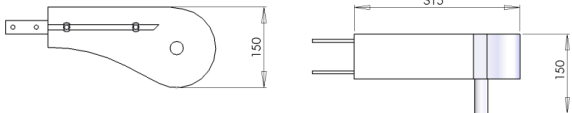
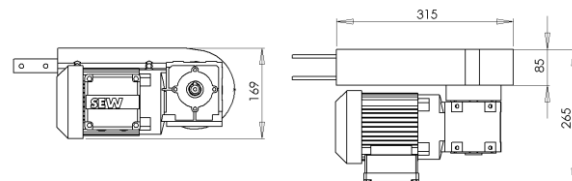


Drive units

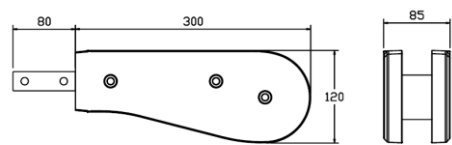
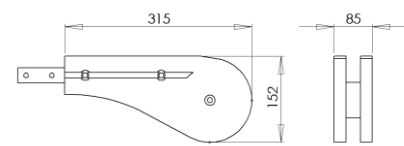
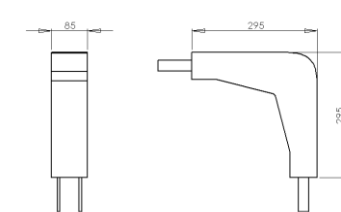
Dimensions	Designation	Information
	FMEW 180/0H	O-unit Horizontal bend drive With slip clutch and transmission cover Chain length = 0,65 m
	Please use O-unit designation above Speed and motor configuration are ordered separately	Complete drive unit See drive unit section and fax order form for additional information
	FMEC O HL FMEC O HR	O-unit, left O-unit, right Catenary drive With slip clutch and transmission cover Chain length = 1,35 m
	Please use O-unit designation above Speed and motor configuration are ordered separately	Complete drive unit See drive unit section and fax order form for additional information



Drive units

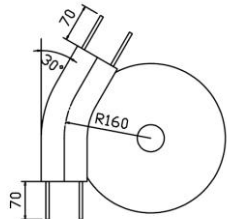
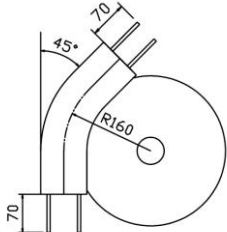
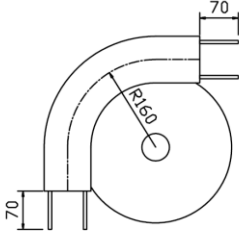
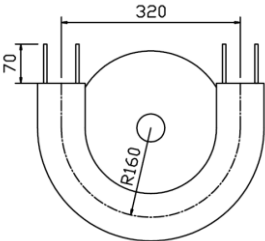
Dimensions	Designation	Information
	FMEB 0 HLGUA	0-unit, left
	FMEB 0 HRGUA	0-unit, right
		Guided wedge direct drive unit
		No slip clutch
		Chain length = 0,80 m
	Please use O-unit designation above	Complete drive unit
	Speed and motor configuration are ordered separately	See drive unit section and fax order form for additional information

Idler end units

Dimensions	Designation	Information
	FMEJ 300	300 mm
		Chain length = 0,70 m
	FMEJ 315	315 mm
	High speed applications	Chain length = 0,80 m
	FMEK 90 R50	Alpine idler bend unit
		Chain length, one way only = 0,60 m



Horizontal wheel bends

Dimensions	Designation	Information
	FMBH 30R160	30 ° Chain length = 0,50 m (top chain = 0,25 m)
	FMBH 45R160	45 ° Chain length = 0,60 m (top chain = 0,30 m)
	FMBH 90R160	90 ° Chain length = 0,80 m (top chain = 0,40 m)
	FMBH 180R160	180 ° Chain length = 1,30 m (top chain = 0,65 m)



Horizontal plain bends

Dimensions	Designation	Information
	FMBP 15 R500	15 ° Chain length = 1,15 m (top chain = 0,60 m)
	FMBP 30 R500	30 ° Chain length = 1,35 m (top chain = 0,70 m)
	FMBP 30 R700	30 ° Chain length = 1,55 m (top chain = 0,80 m)
	FMBP 30 R1000	30 ° Chain length = 1,85 m (top chain = 0,95 m)
	FMBP 45 R500	45 ° Chain length = 1,60 m (top chain = 0,80 m)
	FMBP 45 R700	45 ° Chain length = 1,90 m (top chain = 0,95 m)
	FMBP 45 R1000	45 ° Chain length = 2,40 m (top chain = 1,20 m)



Horizontal plain bends

Dimensions	Designation	Information
	FMBP 60 R500	60 ° Chain length = 1,85 m (top chain = 0,95 m)
	FMBP 60 R700	60 ° Chain length = 2,30 m (top chain = 1,15 m)
	FMBP 60 R1000	60 ° Chain length = 2,90 m (top chain = 1,45 m)
	FMBP 90 R500	90 ° Chain length = 2,40 m (top chain = 1,20 m)
	FMBP 90 R700	90 ° Chain length = 3,00 m (top chain = 1,50 m)
	FMBP 90 R1000	90 ° Chain length = 3,95 m (top chain = 2,00 m)



Vertical bends

Dimensions	Designation	Information
	FMBV 5 R400	5 ° Chain length = 0,40 m (top chain = 0,20 m)
	FMBV 7 R400	7 ° Chain length = 0,45 m (top chain = 0,20 m)
	FMBV 15 R400	15 ° Chain length = 0,55 m
	FMBV 30 R400	30 ° Chain length = 0,75 m
	FMBV 45 R400	45 ° Chain length = 0,95 m
	FMBV 45 R1000	45 ° Chain length = 1,90 m

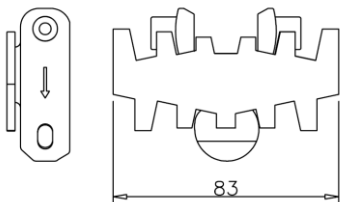
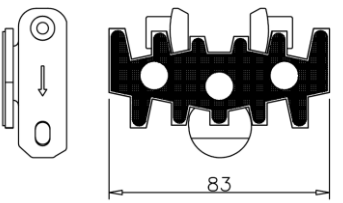
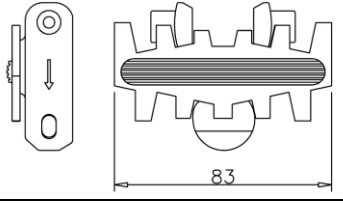
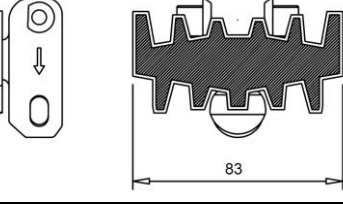
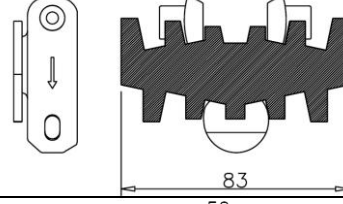
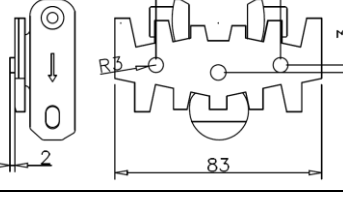
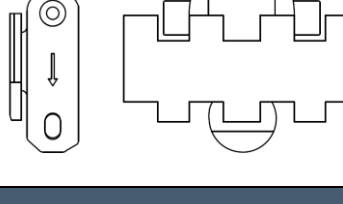


Vertical bends

Dimensions	Designation	Information
	FMBV 60 R400	60 ° Chain length = 0,95 m
	FMBV 90 R400	90 ° Chain length = 1,30 m
	FMBV 90 R1000	90 ° Chain length = 3,50 m



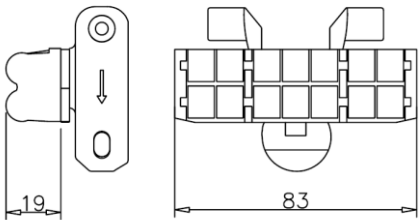
Horizontal chains

Dimensions	Designation	Information
	FMTP 5	Length 5 m Plain chain Chains can also be ordered by the meter
	FMTP 5 TF	Length 5 m Steel top chain Chains can also be ordered by the meter
	FMTP 5 F FMTP F2 (every second link)	Length 5 m Friction top chain Chains can also be ordered by the meter
	FMTP 5 FA	Length 5 m Friction top chain, flat top Chains can also be ordered by the meter
	F5048331	Length 5 m Flock chain Chains can also be ordered by the meter
	FMTL 83 U	Length 5 m Universal chain Chains can also be ordered by the meter
	F5047887 Horizontal plain bends, R ≥500 mm	Length 5 m Plain chain, with minimized gaps Chains can also be ordered by the meter

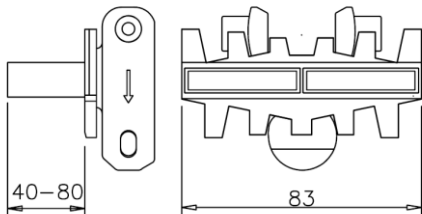
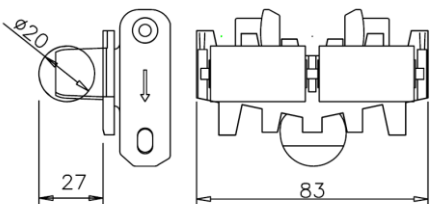
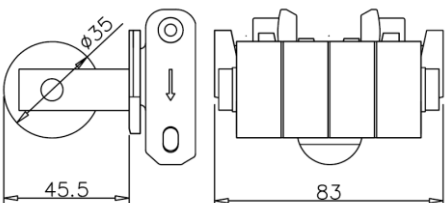
Conveyor system FM – 85 mm beam width



Horizontal chains

Dimensions	Designation	Information
	FMT R 5	Length 5 m, H=19 mm
		Roller top chain
		Chains can also be ordered by the meter

Vertical chains

Dimensions	Designation	Information
	FMTF 5x40 D #	Length 5 m, H= 40 mm
	Enter cleat frequency instead of # (1-20) in designation	Cleated top chain
		Chains can also be ordered by the meter
	FMTF 5x60 D #	Length 5 m, H= 60 mm
	Enter cleat frequency instead of # (1-20) in designation	Cleated top chain
		Chains can also be ordered by the meter
	FMTF 5x80 D #	Length 5 m, H= 80 mm
	Enter cleat frequency instead of # (1-20) in designation	Cleated top chain
		Chains can also be ordered by the meter
	FMTF 5x23 R #	Length 5 m, H= 27 mm
	Enter cleat frequency instead of # (1-20) in designation	Roller top chain
	FMTF 5x46 R #	Length 5 m, H= 46 mm
	Enter cleat frequency instead of # (1-20) in designation	Roller top chain
		Chains can also be ordered by the meter



Vertical chains

Dimensions	Designation	Information
	FMTF 5x15 A #	Length 5 m Cleated top chain H = 15 mm Chains can also be ordered by the meter
	Enter cleat frequency instead of # (1-20) in designation	
	FMTF 5x30 A #	Length 5 m Cleated top chain H = 30 mm Chains can also be ordered by the meter
	Enter cleat frequency instead of # (1-20) in designation	
	FMTE 5 B	Length 5 m Flexible cleat chain H = 12,5 mm Chains can also be ordered by the meter
	FMTE 5 C	Length 5 m Flexible cleat chain H = 19 mm Chains can also be ordered by the meter
	FMTX 78 C	Spare cleat to flexible FMTE 5 C chain
	FMTE 5 D	Length 5 m Flexible cleat chain H = 30 mm Chains can also be ordered by the meter



Width adjustable devices

Dimensions	Designation	Information
	FCLA 660 A	L = 660 mm Width adjustment actuator
	FCLA 950 A	L = 950 mm Width adjustment actuator
	FLFX 3	3 m Connecting shaft
	FCFW 90	Angle gear unit
	FLAW 160x10	Handwheel for 10 mm shaft

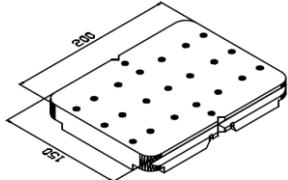
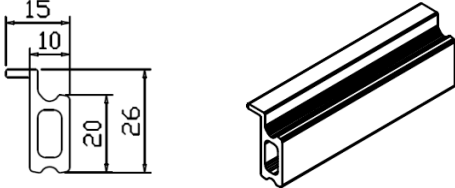
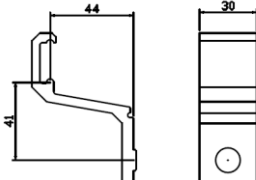


Drip trays

Dimensions	Designation	Information
	FMDT 3X127 B	L = 3 m Drip tray, aluminum
	FLDB 21X100	Drip tray bracket
	FMDD 127 B	Drip catcher for idler end
	FMDH 90X127 B	Drip catcher 90 deg



Pallet components

Dimensions	Designation	Information
	FMPP 150x200	Plastic pallet
	FLRS 3x10	Length 3 m Pallet guide rail
	FLRB 49x42	Guide rail bracket for FLRS 3x10



Introduction

The FM system's high product quality and proven design will make it easy for you to build systems as well as extensions or order spare parts to existing installations.

Application areas

The FM conveyor system is ideally suited for handling products like high speed transport of larger packaged goods, boxes, ball bearings, machined parts and electrical items.

Technical characteristics

Chain width	103 mm
Chain pitch	33,5 mm
Beam width	105 mm
Max chain tension	1250 N
Max drive unit traction	1250 N

Operating temperatures

The conveyor is designed to operate in temperatures between - 20° and + 60° Celsius.

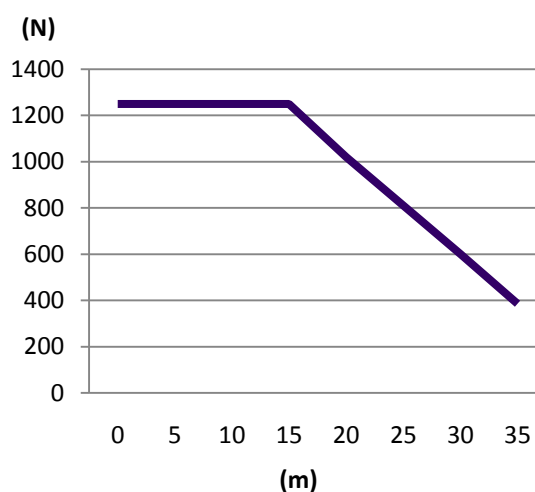
Short-term exposure up higher temperatures (max + 80° Celsius) are possible. Please contact PTE Conveyors™ to discuss further.

Operating conditions

Max conveyor speed	60 m/min
Product widths	40 to 300 mm
Max conveyor length	35 m
Max horizontal item weight	20 kg
Max total horizontal weight	320 kg
Max vertical item weight	15 kg
Max total vertical weight	80 kg

Allowed chain tension

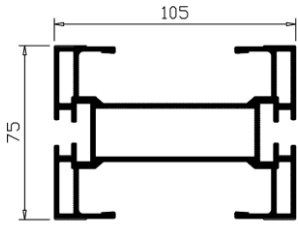
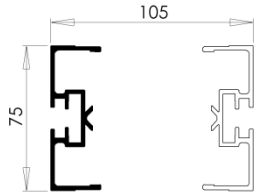
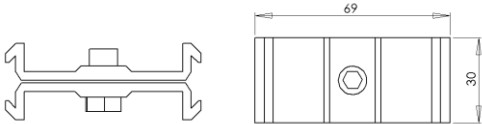
The diagram below shows the allowed chain tension as a function of the conveyor length.



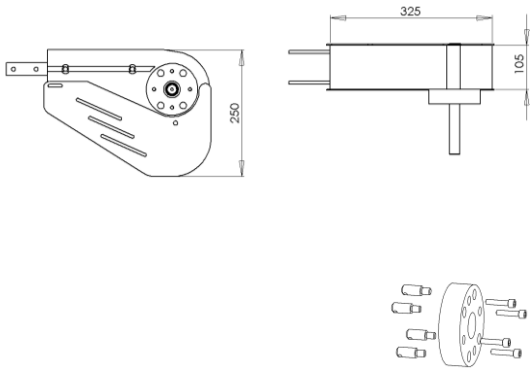
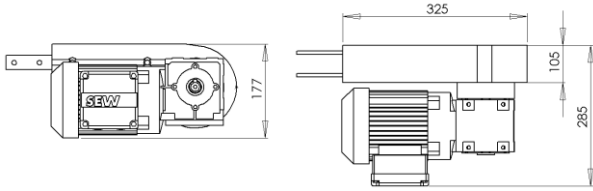
Conveyor system FH – 105 mm beam width



Beam

Dimensions	Designation	Information
	FHCB 3	Length 3 m Conveyor beam
	FHCB 3 H	Length 3 m Split conveyor beam
	FHCE 69x30	Beam clip assembly, for split conveyor beam FHCB 3 H

Drive units

Dimensions	Designation	Information
	FHEB O HLUA	O-unit, left
	FHEB O HRUA	O-unit, right
	Mounting flange kit, SEW WA 20 and SA37	Direct end drive unit No slip clutch Drive shaft Ø = 20 mm Chain length = 0,80 m
	Please use O-unit designation above Speed and motor configuration are ordered separately	Complete drive unit See drive unit section and fax order form for additional information



Drive units

Dimensions	Designation	Information
	FHEB OD HLUA	Double O-unit, left
	FHEB OD HRUA	Double O-unit, right
	X-distance defined separately	Double direct end drive unit
	Mounting flange kit, SEW WA 20 and SA37	No slip clutch Drive shaft Ø = 20 mm Chain length = 0,80 m
	Please use O-unit designation above	Complete drive unit
	Speed and motor configuration are ordered separately	See drive unit section and fax order form for additional information
	FHEB O HLA	O-unit, left
	FHEB O HRA	O-unit, right
		Suspended motor end drive
		With slip clutch and transmission cover. Chain length = 0,80 m
	Please use O-unit designation above	Complete drive unit
	Speed and motor configuration are ordered separately	See drive unit section and fax order form for additional information



Drive units

Dimensions	Designation	Information
	FHEW 180/OH	O-unit Horizontal bend drive With slip clutch and transmission cover Chain length = 0,65 m
	Please use O-unit designation above Speed and motor configuration are ordered separately	Complete drive unit See drive unit section and fax order form for additional information
	FHEC O HL FHEC O HR	O-unit, left O-unit, right Catenary drive With slip clutch and transmission cover Chain length = 1,35 m
	Please use O-unit designation above Speed and motor configuration are ordered separately	Complete drive unit See drive unit section and fax order form for additional information

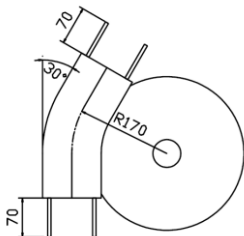
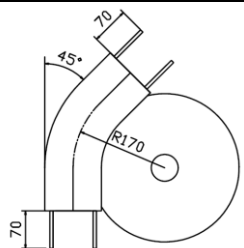
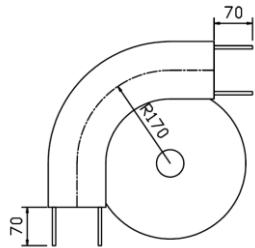
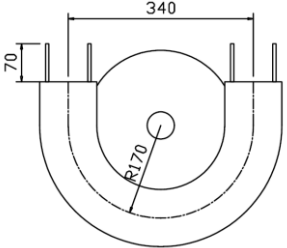


Idler end units

Dimensions	Designation	Information
	FHEJ 310	310 mm Chain length = 0,75 m
	FHEJ 325 High speed applications	325 mm Chain length = 0,80 m
	FHEK 90 R50	Alpine idler bend unit Chain length, one way only = 0,65 m



Horizontal wheel bends

Dimensions	Designation	Information
	FHBH 30R170	30 ° Chain length = 0,50 m (top chain = 0,25 m)
	FHBH 45R170	45 ° Chain length = 0,60 m (top chain = 0,30 m)
	FHBH 90R170	90 ° Chain length = 0,80 m (top chain = 0,40 m)
	FHBH 180R170	180 ° Chain length = 1,30 m (top chain = 0,65 m)



Horizontal plain bends

Dimensions	Designation	Information
	FHBP 15 R500	15 ° Chain length = 1,15 m (top chain = 0,60 m)
	FHBP 30 R500	30 ° Chain length = 1,35 m (top chain = 0,70 m)
	FHBP 30 R700	30 ° Chain length = 1,55 m (top chain = 0,80 m)
	FHBP 30 R1000	30 ° Chain length = 1,85 m (top chain = 0,95 m)
	FHBP 45 R500	45 ° Chain length = 1,60 m (top chain = 0,80 m)
	FHBP 45 R700	45 ° Chain length = 1,90 m (top chain = 0,95 m)
	FHBP 45 R1000	45 ° Chain length = 2,40 m (top chain = 1,20 m)



Horizontal plain bends

Dimensions	Designation	Information
	FHBP 60 R500	60 ° Chain length = 1,85 m (top chain = 0,95 m)
	FHBP 60 R700	60 ° Chain length = 2,30 m (top chain = 1,15 m)
	FHBP 60 R1000	60 ° Chain length = 2,90 m (top chain = 1,45 m)
	FHBP 90 R500	90 ° Chain length = 2,40 m (top chain = 1,20 m)
	FHBP 90 R700	90 ° Chain length = 3,00 m (top chain = 1,50 m)
	FHBP 90 R1000	90 ° Chain length = 3,95 m (top chain = 2,00 m)



Vertical bends

Dimensions	Designation	Information
	FHBV 5 R400	5 ° Chain length = 0,40 m (top chain = 0,20 m)
	FHBV 7 R400	7 ° Chain length = 0,45 m (top chain = 0,20 m)
	FHBV 15 R400	15 ° Chain length = 0,55 m
	FHBV 20 R400	20 ° Chain length = 0,65 m
	FHBV 30 R400	30 ° Chain length = 0,75 m
	FHBV 30 R1000	30 ° Chain length = 1,90 m



Vertical bends

Dimensions	Designation	Information
	FHBV 45 R400	45 ° Chain length = 0,95 m
	FHBV 45 R1000	45 ° Chain length = 1,90 m
	FHBV 60 R400	60 ° Chain length = 1,20 m
	FHBV 90 R400	90 ° Chain length = 1,60 m
	FHBV 90 R1000	90 ° Chain length = 3,50 m

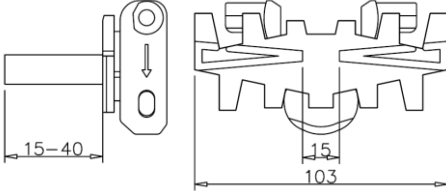
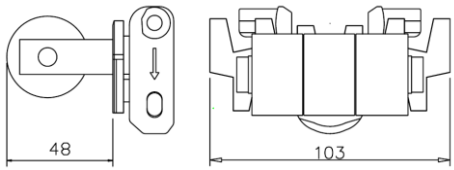


Horizontal chains

Dimensions	Designation	Information
	FHTP 5	Length 5 m Plain chain Chains can also be ordered by the meter
	FHTP 5 TF	Length 5 m Steel top chain Chains can also be ordered by the meter
	FHTP 5 F FHTP F2 (every second link)	Length 5 m Friction top chain Chains can also be ordered by the meter
	FHTP 5 FA	Length 5 m Friction top chain, flat top Chains can also be ordered by the meter
	FHTR 5	Length 5 m Roller top chain H = 19 mm Chains can also be ordered by the meter

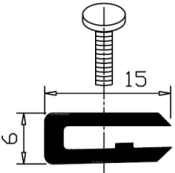
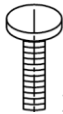
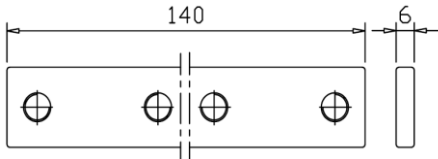
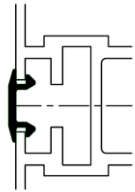
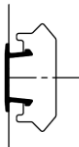
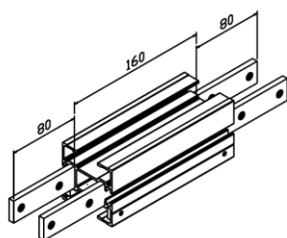


Vertical chains

Dimensions	Designation	Information
	FHTF 5x15 A #	Length 5 m
	Enter cleat frequency instead of # (1-20) in designation	Cleated top chain H = 15 mm Chains can also be ordered by the meter
	FHTF 5x20 A #	Length 5 m
	Enter cleat frequency instead of # (1-20) in designation	Cleated top chain H = 20 mm Chains can also be ordered by the meter
	FHTF 5x30 A #	Length 5 m
	Enter cleat frequency instead of # (1-20) in designation	Cleated top chain H = 30 mm Chains can also be ordered by the meter
	FHTF 5x40 A #	Length 5 m
	Enter cleat frequency instead of # (1-20) in designation	Cleated top chain H = 40 mm Chains can also be ordered by the meter
	FHTL 103x46 R	Roller top cleat H = 48 mm



Conveyor beam parts

Dimensions	Designation	Information
	FLCR 25	25 m Slide rail, HDPE
	FLCR 25 P High speed and load	25 m Slide rail, PA6 & HDPE
	FLAG 5	50 pcs Plastic screw for slide rail anchoring
	FLAH 4x8 A	50 pcs Aluminium rivet for slide rail anchoring
	FLCJ 6x140	140 mm Connecting strip
	FLAB 25	25 m Cover strip for t-slot, PVC
	FCAC 3 P	3 m Cover strip for t-slot, PVC
	FLCC 160	160 mm
	FMCC 160	160 mm
	FHCC 160	160 mm
		Chain installation beam section for series FL, FM & FH



Conveyor support brackets

Dimensions	Designation	Information
	FLCS 88	Support bracket, FL conveyor and XCBL 88 beam
	FLCS 64	Support bracket, FL conveyor and XCBL 64 beam
	FMCS 88 B	Support bracket, FM conveyor and XCBL 88 beam
	FMCS 64	Support bracket, FM conveyor and XCBL 64 beam
	FHCS 88	Support bracket, FH conveyor and XCBL 88 beam
	FHCS 64	Support bracket, FH conveyor and XCBL 64 beam



Conveyor support brackets

Dimensions	Designation	Information
	FLCT 21x100 A	Support bracket for XCBL 64 – fig A
	FLCT 21x100	Support bracket for XCBL 88 – fig B
	FLCT 21x135 A	Support bracket for XCBL 64 – fig A
	FLCT 21x135	Support bracket for XCBL 88 – fig B
	FLCT 21x158 R	Support bracket for XCBL 88
	FLCU 73	Support bracket for XCBL 88

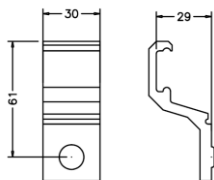
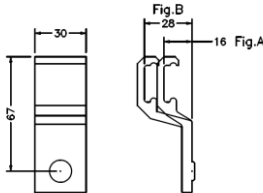
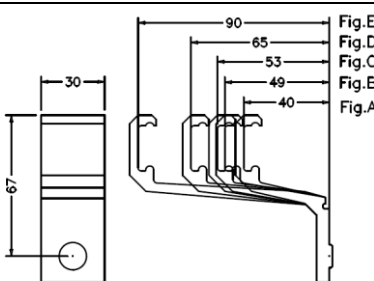
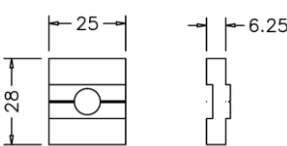
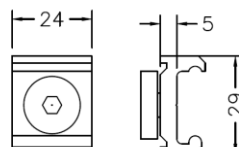


Guide rail components – 20x10 and 20x15 mm rails

Dimensions	Designation	Information
	FLRS 3x10	Length 3 m, 10 mm wide and 20 mm high
	FLRS 3x15	Length 3 m, 15 mm wide and 20 mm high Aluminium rail
	FLRS 3x10 P	Length 3 m, 10 mm wide and 20 mm high
	FLRS 3x15 P	Length 3 m, 15 mm wide and 20 mm high Polyethylene rail
	FLRE 10	10 pcs, 10x20 mm
	FLRE 15	10 pcs, 15x20 mm End cap
	FLRJ 10	10 pcs, 10x20 mm
	FLRJ 15	10 pcs, 15x20 mm Connecting plug
	FLRJ 100	Connecting sleeve, aluminium
	FLRT 3x23	Length 3 m Guide rail cover, polyethylene
	FLRT 3x33 D	Length 3 m Guide rail cover, polyethylene



Fixed guide rail components – 20x10 and 20x15 mm rails

Dimensions	Designation	Information
	FLRB 29x36	Guide rail bracket
	FLRB 16x42	Guide rail bracket, fig A
	FLRB 28x42	Guide rail bracket, fig B
	FLRB 40x42	Guide rail bracket, fig A
	FLRB 49x42	Guide rail bracket, fig B
	FLRB 53x42	Guide rail bracket, fig C
	FLRB 65x42	Guide rail bracket, fig D
	FLRB 90x42	Guide rail bracket, fig E
	FLRD 6	10 pcs Distance piece, aluminum
	FLAP 28	50 pcs Spring pin
	FLRC 20 A	Guide rail bracket, including M8 screw and square nut

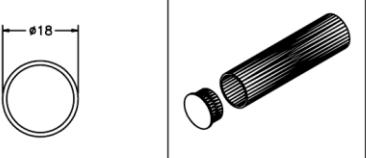
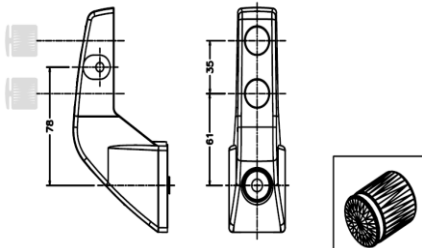
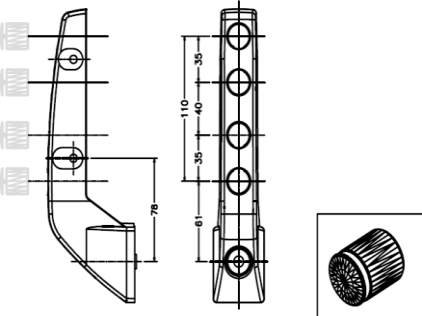
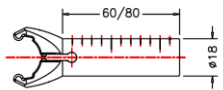
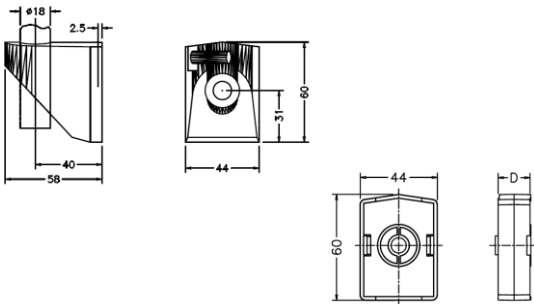
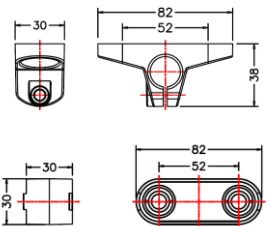


Adjustable guide rail components – 20x10 and 20x15 mm rails

Dimensions	Designation	Information
	FLRA 8x9x45	Adjustable guide rail bracket
	FLRA 8x39x45	Adjustable guide rail bracket
	FLRA 26x9x45	Adjustable guide rail bracket
	FLRA 26x39x45	Adjustable guide rail bracket
	FLRA 16x30x52	Adjustable guide rail bracket
	FLRA 41x30x52	Adjustable guide rail bracket



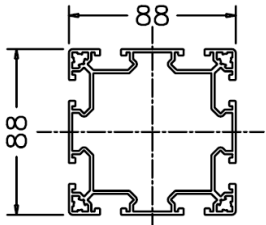
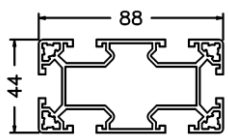
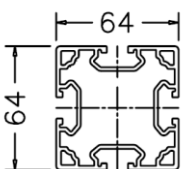
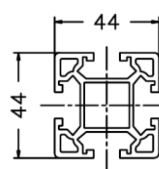
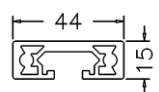
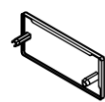
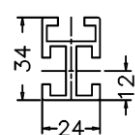
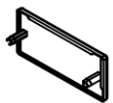
Guide rail components – 18 mm tube

Dimensions	Designation	Information
	FLRR 3x18 C	Length 3 m
	FLRZ 18	Guide rail, aluminium
		10 pcs End cap
	FLRF 42x62 A35	Guide rail bracket
	FLAK 18	10 pcs Dummy plug
	FLRF 42x62 A110	Guide rail bracket
	FLAK 18	10 pcs Dummy plug
	FLRK 18x60 C	L = 60 mm
	FLRK 18x80 C	L = 80 mm Guide rail clamp
	FLRF 42x18 V	Guide rail bracket
	FLRD 18 A	D = 18 mm
	FLRD 6 A	D = 6 mm Distance piece
	FLRF 40x18	Guide rail bracket
	FLRD 30	30 mm Distance piece

Dimensions	Designation	Information
	FLRL 18x60 CA	L = 60 mm
	FLRL 18x110 CA	L = 110 mm
	FLRL 18x160 CA	L = 160 mm
		Guide rail clamp
	FLRX 18 X	Guide rail clamp
	FLRX 18 C	Corner connector
	FLAR 6x20	L = 20 mm
	FLAR 6x30	L = 30 mm
		Star knob
	FLRN 3 U	Length 3 m Spacer beam, aluminium
	FLRD 3 D	Width 3 mm Beam connector, For use with FLRN 3U
	FLRL 18x110 C	Guide rail clamp
	FLRC 18x110 C	Guide rail clamp for double track conveyors
	FLRK 18 CE	Guide rail clamp adaptor for tube and rails



Support beams and end caps

Dimensions	Designation	Information
 	FCBL 3x88	88x88 mm, length 3 m aluminium profile
	FCBE 88	88x88 mm, plastic end cap
 	FCBL 3x44x88	44x88 mm, length 3 m aluminium profile
	FCBE 44x88	44x88 mm, plastic end cap
 	FCBL 3x64	64x64 mm, length 3 m aluminium profile
	FCBE 64	64x64 mm, plastic end cap
 	FCBL 3x44	44x44 mm, length 3 m aluminium profile
	FCBE 44	44x44 mm, plastic end cap
 	FCBL 3x15x44	15x44 mm, length 3 m aluminium profile
	FCBE 15x44	15x44 mm, plastic end cap
 	FCBL 3x24x34	24x34 mm, length 3 m aluminium profile
	FCBE 24x34	24x34 mm, plastic end cap

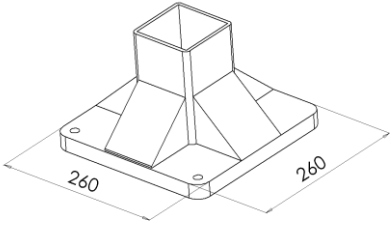
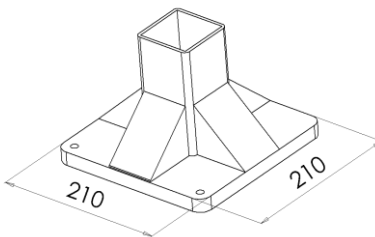
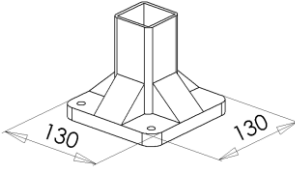
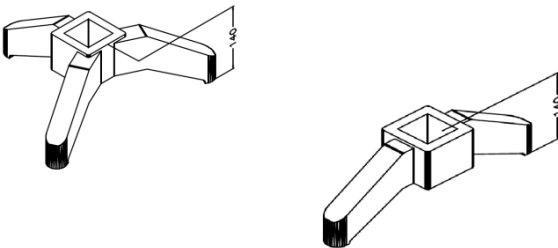
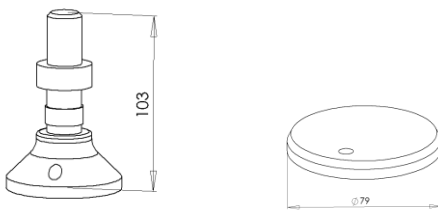
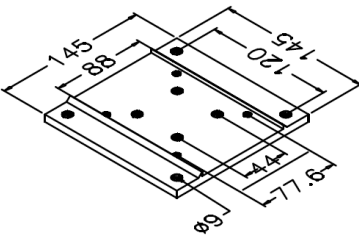


Support brackets

Dimensions	Designation	Information
	FMFA 84 A	Angle bracket, aluminium, die-cast
	FMFA 84 B	Angle bracket, aluminium, die-cast
	FLFA 44 A	Angle bracket, aluminium, die-cast
	FLFA 44 B	Angle bracket, aluminium, die-cast
	FLFA 24	Angle bracket, aluminium, die-cast You need to use MC6S 6x14, BRB 6,2x12 and FLAQ 6.
	FMFA 84	Mounting plate, aluminium



Feet

Dimensions	Designation	Information
	FCFF 88x260 A	260x260 mm Die-cast aluminium foot, 88x88 mm
	FCFF 64x210 A	210x210 mm Die-cast aluminium foot, 64x64 mm
	FCFF 44x130 A	130x130 mm Die-cast aluminium foot, 44x44 mm
	FEFG 64 T	Moulded three-point plastic foot, 64x64 mm
	FEFG 64 D	Moulded two-point plastic foot, 64x64 mm
	FLFS 20 P	Adjustable plastic foot, FEFG 64
	FLFJ 69	Vibration absorber, FLFS 20 P
	FCFB 88 F	Foot plate, 88x88 mm

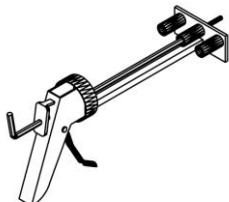
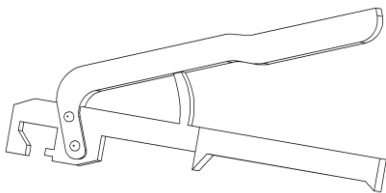
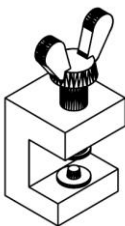
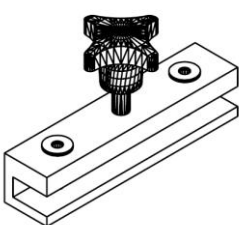
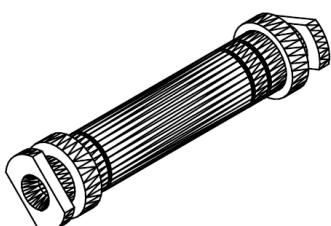


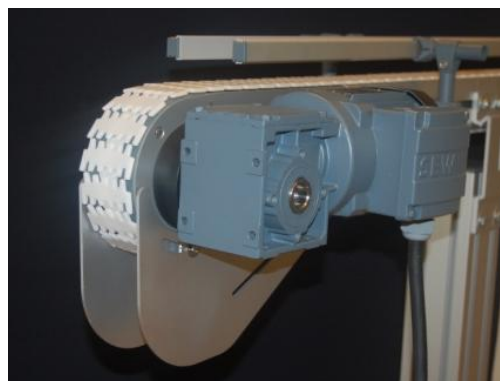
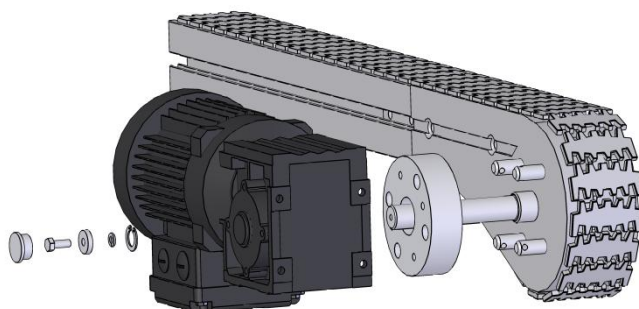
Fittings

Dimensions	Designation	Information
	FLAT 17	Zinc-plated T-bolts, 50 pcs L= 17, 24, 35, 53 and 71 mm
	FLAT 24	
	FLAT 35	
	FLAT 53	
	FLAT 71	
	FLAT 17 S	Stainless T-bolts, 50 pcs L= 17, 24, 35, 53 and 71 mm
	FLAT 24 S	
	FLAT 35 S	
	FLAT 53 S	
	FLAT 71 S	
	FLAQ 8	Zinc-plated square nuts, 50 pcs
	FLAQ 6	M8 & M6
	FLAQ 8 S	Stainless square nuts, 50 pcs
	FLAQ 6 S	M8 & M6
	FMRX 20	Inner fitting kit, Including t-bolt, nut and set screw
	FMRY 20	Inner fitting kit, Including screw
	FMRW 20	Inner fitting kit, Including set screws



Tools

Dimensions	Designation	Information
	FLMJ 4	Pin insertion tool, FL
	FMMJ 6	Pin insertion tool, FM
	FHMJ 6	Pin insertion tool, FH
	F5051395	Rivet crimping plier
	F3923005	Rivet crimping clamp
	F3920500	Slide rail drill fixture – 4,2 mm
	FLMR 140	Slide rail tool, FL
	FMMR 140	Slide rail tool, FM
	FHMR 200	Slide rail tool, FH

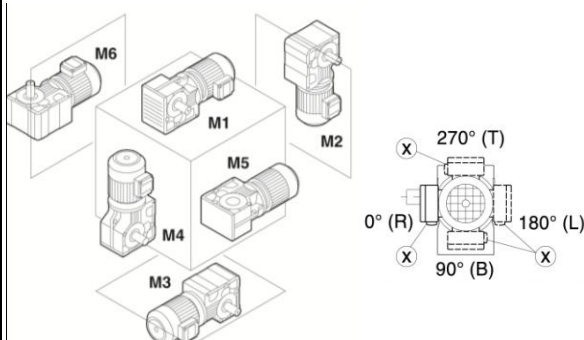


Direct end drive

All drive units are delivered with SEW's gear assemblies, which work on FL, FM and FH series, using an especially designed mounting flange (see picture above).

Ellegaard recommends using direct end drives as standard, since it's a compact, flexible and cost-effective solution.

Our motors are assembled horizontally, i.e. SEW mounting position M1 with the terminal box with at a 90° angle (see pictures below).



This setup together with our mounting flange enable you to assemble the drive on both left and right hand side. It is also possible to assemble the drive vertically as well.

If you don't find your required solution or require additional technical support, don't hesitate to contact Ellegaard immediately.

To decide which conveyor series you need, please go to page - drive unit 5.

WA 20 – normal and compact applications

The table below shows a motor selection guide as a function of the required conveyor speed and total conveyor load (63S4=DR63S4, etc) for the most commonly used combinations.

m / min	Conveyor, normal load (kg)				
51	63S4	63S4	63L4	S71S4	n/a
37	63S4	63S4	63M4	S71S4	S71S4
32	63S4	63S4	63M4	S71S4	S71S4
27	63S4	63S4	63M4	63L4	S71S4
22	63S4	63S4	63M4	63L4	S71S4
19	63S4	63S4	63S4	63M4	63L4
16	63S4	63S4	63S4	63M4	63L4
14	63S4	63S4	63S4	63M4	63L4
11	63S4	63S4	63S4	63M4	63M4
9	63S4	63S4	63S4	63M4	63M4
7	63S4	63S4	63S4	63S4	63M4
	10	20	50	75	100

If you have accumulating load, you have to use the table below (63S4=DR63S4, etc).

m / min	Conveyor, accumulating load (kg)			
32	63S4	63S4	63M4	S71S4
27	63S4	63S4	63S4	S71S4
22	63S4	63S4	63S4	S71S4
19	63S4	63S4	63S4	63L4
16	63S4	63S4	63S4	63L4
14	63S4	63S4	63S4	63L4
11	63S4	63S4	63S4	63M4
9	63S4	63S4	63S4	63M4
7	63S4	63S4	63S4	63M4
	5	10	20	50



SA 37 – heavy duty applications

The table below shows a motor selection guide as a function of the required conveyor speed and total conveyor load (63S4=DR63S4, etc) for the most commonly used combinations.

m / min	Conveyor, normal load (kg)				
52	63S4	63S4	63L4	S71S4	S71S4
48	63S4	63S4	63L4	S71S4	S71S4
42	63S4	63S4	63L4	S71S4	S71M4
39	63S4	63S4	63L4	S71S4	S71S4
34	63S4	63S4	63M4	63L4	S71S4
29	63S4	63S4	63M4	63L4	S71S4
28	63S4	63S4	63M4	63L4	S71S4
27	63S4	63S4	63M4	63L4	63L4
23	63S4	63S4	63S4	63M4	63L4
21	63S4	63S4	63S4	63M4	63L4
18	63S4	63S4	63S4	63M4	63L4
17	63S4	63S4	63S4	63M4	63L4
15	63S4	63S4	63S4	63S4	63M4
14	63S4	63S4	63S4	63S4	63M4
12	63S4	63S4	63S4	63S4	63M4
10	63S4	63S4	63S4	63S4	63M4
9	63S4	63S4	63S4	63S4	63S4
8	63S4	63S4	63S4	63S4	63S4
7	63S4	63S4	63S4	63S4	63S4
6	63S4	63S4	63S4	63S4	63S4
5	63S4	63S4	63S4	63S4	63S4
4	63S4	63S4	63S4	63S4	63S4
3	63S4	63S4	63S4	63S4	63S4
	10	20	50	75	100

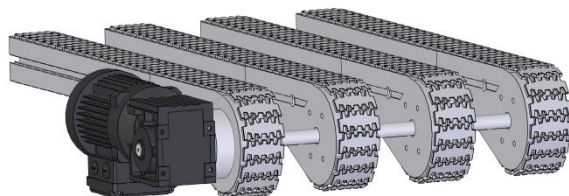
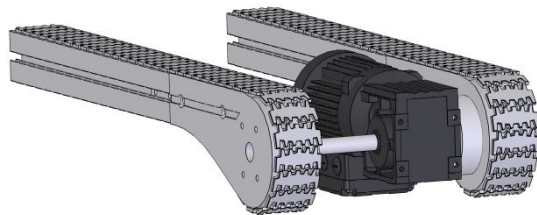
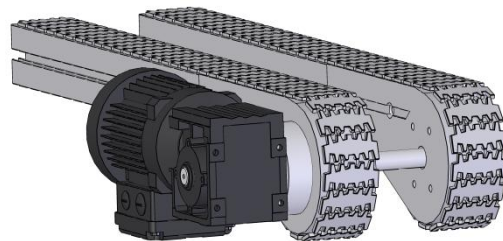
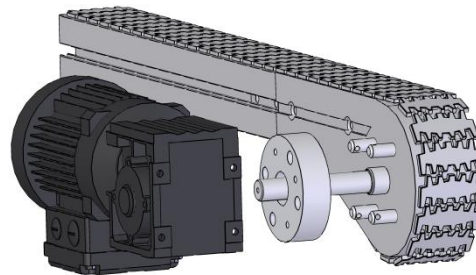
If you have accumulating load, you have to use the table below (63S4=DR63S4 etc).

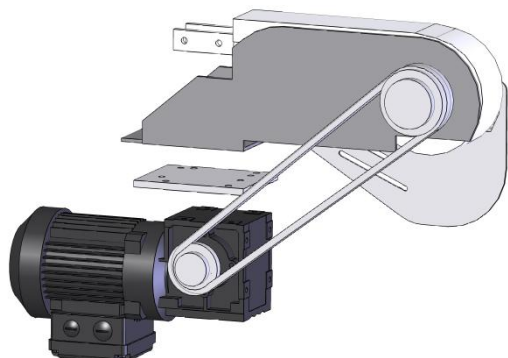
m / min	Conveyor, accumulating load (kg)			
29	63S4	63S4	63S4	S71S4
27	63S4	63S4	63S4	63L4
23	63S4	63S4	63S4	63L4
21	63S4	63S4	63S4	63L4
17	63S4	63S4	63S4	63M4
15	63S4	63S4	63S4	63M4
12	63S4	63S4	63S4	63M4
10	63S4	63S4	63S4	63M4
8	63S4	63S4	63S4	63S4
5	63S4	63S4	63S4	63S4
3	63S4	63S4	63S4	63S4
	5	10	20	50

Additional direct end drive configurations

If you don't find your required solution or require additional technical support, don't hesitate to contact Ellegaard immediately.

Below you'll find more drive unit configurations that are possible to supply using our mounting flange and SEW's gear assemblies.

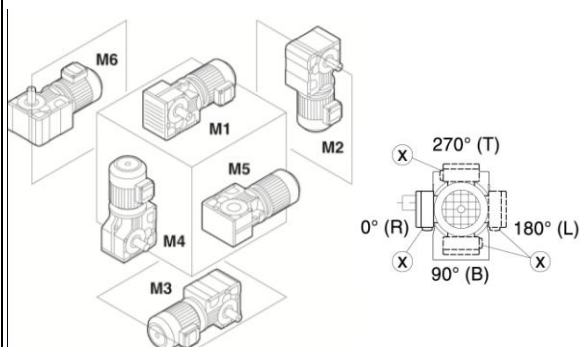




Suspended end motor and catenary drives

All suspended drive units are delivered with SEW gear assemblies, which work on FL, FM and FH series.

Our standard drives have the motor assembled horizontally, i.e. SEW mounting position M1 (see picture below).



The terminal box is positioned at a 180° angle for the left hand drive and 0° angle for the right and drive (see picture above).

If you don't find your required solution or require additional technical support, don't hesitate to contact Ellegaard immediately.

To decide which conveyor series you need, please go to page drive unit 5.

S 37 – motor selection guide

The table below shows a motor selection guide as a function of the required conveyor speed and total conveyor load (63S4=DR63S4, etc) for the most commonly used combinations.

m / min	Conveyor, normal load (kg)				
52	63S4	63S4	63L4	S71S4	S71S4
48	63S4	63S4	63L4	S71S4	S71S4
42	63S4	63S4	63L4	S71S4	S71M4
39	63S4	63S4	63L4	S71S4	S71S4
34	63S4	63S4	63M4	63L4	S71S4
29	63S4	63S4	63M4	63L4	S71S4
28	63S4	63S4	63M4	63L4	S71S4
27	63S4	63S4	63M4	63L4	63L4
23	63S4	63S4	63S4	63M4	63L4
21	63S4	63S4	63S4	63M4	63L4
18	63S4	63S4	63S4	63M4	63L4
17	63S4	63S4	63S4	63M4	63L4
15	63S4	63S4	63S4	63S4	63M4
14	63S4	63S4	63S4	63S4	63M4
12	63S4	63S4	63S4	63S4	63M4
10	63S4	63S4	63S4	63S4	63M4
9	63S4	63S4	63S4	63S4	63S4
8	63S4	63S4	63S4	63S4	63S4
7	63S4	63S4	63S4	63S4	63S4
6	63S4	63S4	63S4	63S4	63S4
5	63S4	63S4	63S4	63S4	63S4
4	63S4	63S4	63S4	63S4	63S4
3	63S4	63S4	63S4	63S4	63S4
	10	20	50	75	100

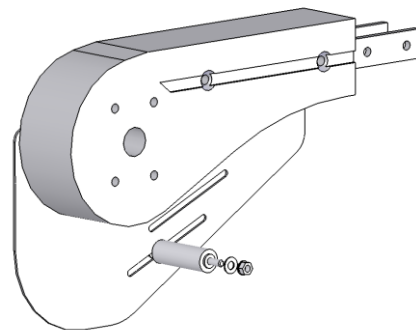
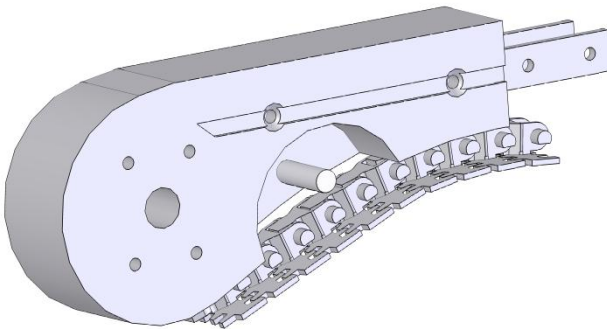


S 37 – motor selection guide, continued

If you have accumulating load, you have to use the table below (63S4=DR63S4 etc).

m / min	Conveyor, accumulating load (kg)			
29	63S4	63S4	63S4	S71S4
27	63S4	63S4	63S4	63L4
23	63S4	63S4	63S4	63L4
21	63S4	63S4	63S4	63L4
17	63S4	63S4	63S4	63M4
15	63S4	63S4	63S4	63M4
12	63S4	63S4	63S4	63M4
10	63S4	63S4	63S4	63M4
8	63S4	63S4	63S4	63S4
5	63S4	63S4	63S4	63S4
3	63S4	63S4	63S4	63S4
	5	10	20	50

Drive unit design – FL, FM and FH series



Special PTE™ drive unit features

All drive units from PolyLink Conveyors™ are equipped with an internal reinforcement pin (left picture above) in order to maximize its structural rigidity.

This is particularly important in order to increase the drive units longevity in heavy duty and high speed applications.

This is also an important feature when you use decentralized drive systems, including gear assemblies with integrated frequency inverters, which are heavier than standard units.

In order to ensure safe and smooth slack chain return, all PolyLink™ drive units can be equipped with an optional external slide roller (right picture above).

It is fitted into the most suitable of the three parallel cut outs in the drive unit side guards.



Selection of conveyor series

In order to select the correct conveyors series it is normally only necessary to calculate the total friction force.

The estimated friction force in horizontal applications is calculated as;

The total friction coefficient is the sum of the friction between the slide rail and chain as well as the chain and the handled products.

Normal handling, $\mu = 0,25$
Accumulating products, $\mu = 0,50$

Your calculated friction force must now be checked both against allowed chain tension versus total conveyor length, as well as allowed chain tension as conveyor speed.

These tables are guidelines develop for ensuring safe operating conditions and normal conveyor life.

Allowed chain tension vs conveyor length

Please use the selection guide as the first step in choosing the appropriate conveyor size.

Please note that it is only valid for conveyors using wheel bends. If you use horizontal plain or vertical bends, contact Ellegaard for further assistance.

L (m)	Allowed chain tension (N)		
35	240	470	470
30	300	670	670
25	360	970	970
20	425	1050	1050
15	500	1250	1250
10	500	1250	1250
5	500	1250	1250
0	500	1250	1250
	FL	FM	FH

Allowed chain tension vs conveyor speed

Please use the selection guide as the second step in choosing the appropriate conveyor size.

Please note that it is only valid for conveyors using wheel bends. If you use horizontal plain and vertical bends, contact Ellegaard for further assistance.

m/min	Allowed chain tension (N)		
50	120	410	410
40	200	590	590
30	280	790	790
25	320	870	870
20	370	970	970
15	400	1070	1070
10	440	1150	1150
5	500	1250	1250
0	500	1250	1250
	FL	FM	FH

Final checks

Please see the first page of each conveyor section for additional technical information.

The most common deciding factors when choosing between series FM and FH are product size and weight as well as total conveyor load.

If you get close to the maximum conveyor load, speed or length – contact Ellegaard for assistance.

ELLEGAARD.

Alu conveyor systems and components



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