Modular plastic belt conveyor WK

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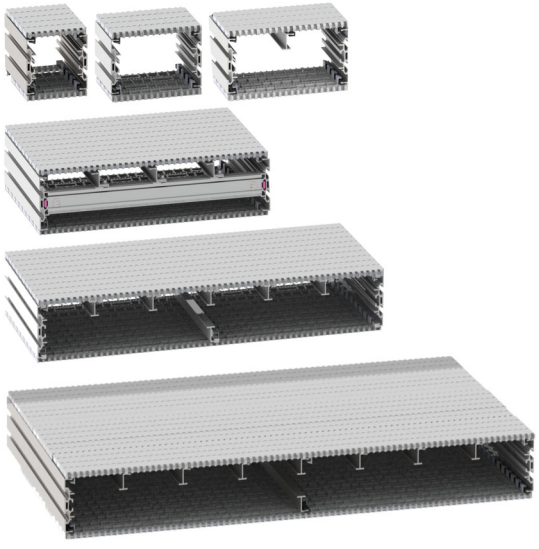
System information

Wide conveyor for transport and accumulation

The added advantage of a wide belt (up to 1200 mm) permits effective transport and accumulation in several different configurations. Many accessory components of the original FlexLink system will fit, including guide rail components and supports. Most components are attached by means of T-slot fasteners, ensuring maximum flexibility. Nothing is welded. Only a minimum of cutting and drilling will be required to install a conveyor and have it running.

Belt width 150/225/300/600/900/1200 mm



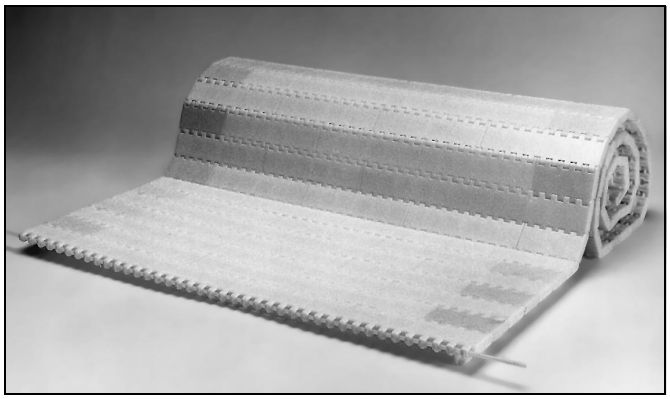
Typical applications

The WK conveyor system is designed for transport and accumulation of lightweight goods such as:

- Bearings
- Gear wheels
- Cylindrical products
- Bottles

Technical specifications

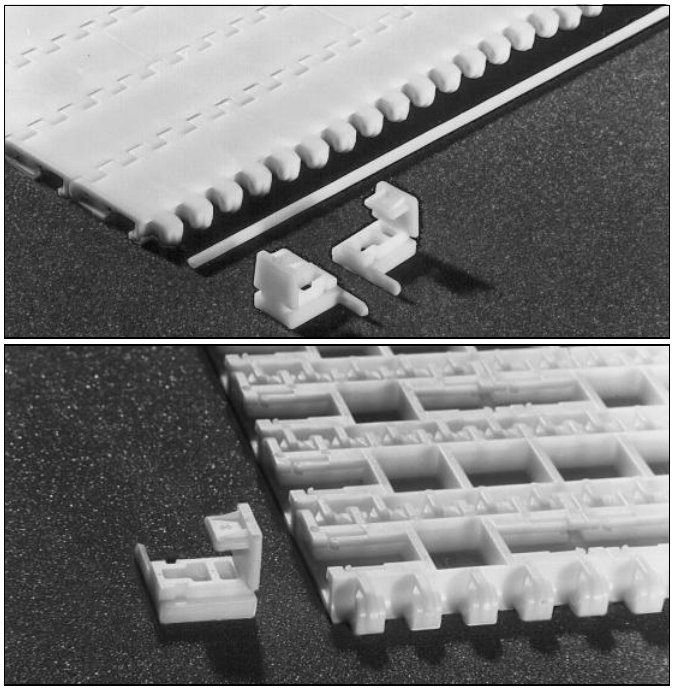
Maximum speed	40 m/min
Maximum conveyor length	20 m
Product weight	up to 30 kg
Total load	up to 250 kg
Max. product weight per belt pitch	2,5 kg/slide rail
Belt tension limit	1250 N



Links and plastic rods

The belt consists of plastic hinge-type links connected by plastic rods and locked by plastic snap-in guide clips. The clips also serve as lateral chain guides. See photo.

The belt is woven together by 75 mm and 150 mm wide links. The assembled belt forms a wide, flat and tight conveyor surface. Six standard widths of belt can be delivered, from 150 mm up to 1200 mm. The 900 mm and 1200 mm wide belt come equipped with guide clips at the centre, in addition to those at the edges.



Belt components

Technical characteristics

Belt width	150/225/300/600/900 and 1200 mm
Belt weight (Acetal)	10,66 kg/m^2
Belt pitch	38,1 mm
Max. permissible belt tension	1250 N
Temperature range (Acetal)	–20 °C to +40 °C (Request for quotation other temperatures)

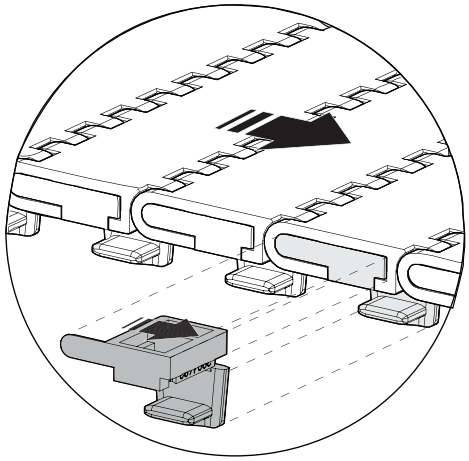
Tools and accessories

No special tools are required. The belt is lubrication-free. A new belt running on new slide rails, however, will need a few hours of running-in before it runs perfectly smoothly. For applications where absolutely smooth running is essential from start, use a silicone or teflon based lubricant.

Ordering information

The belt is delivered in assembled 1 m lengths one plastic rod and two guide clips are included. To calculate the total length required, remember to add for belt consumed by the idler and drive units.

Belt direction (not applicable for center guide WK900)



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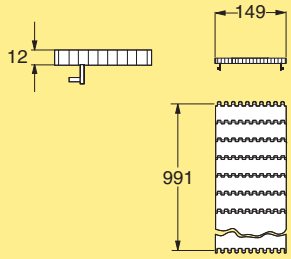
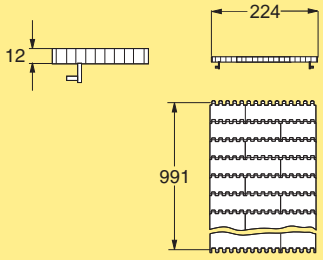
Belts 150 mm



Belt 150 mm
Length 1 m

WKTP 1B150

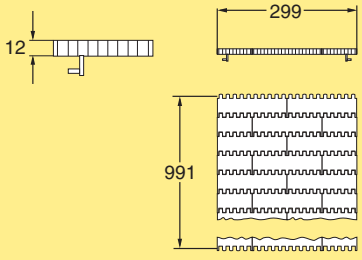
Belts 225 mm



Belt 225 mm
Length 1 m

WKTP 1B225

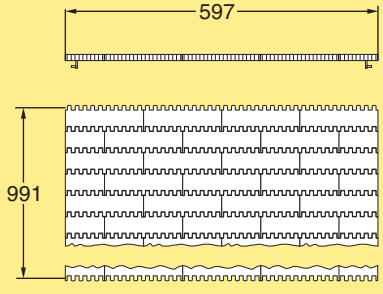
Belts 300 mm



Belt 300 mm
Length 1 m

WKTP 1B300

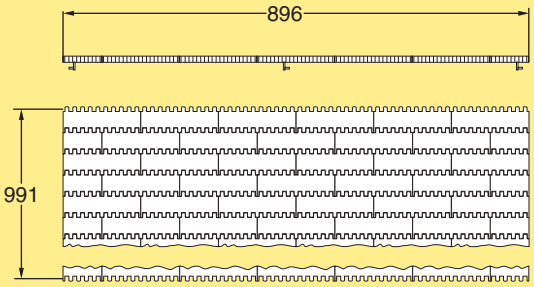
Belts 600 mm



Belt 600 mm
Length 1 m

WKTP 1B600

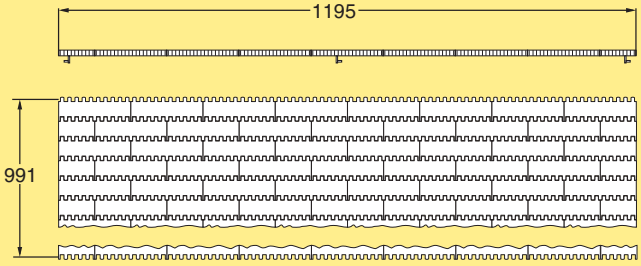
Belts 900 mm



Belt 900 mm
Length 1 m

WKTP 1B900

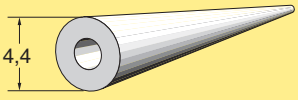
Belts 1200 mm



Belt 1200 mm
Length 1 m

WKTP 1B1200

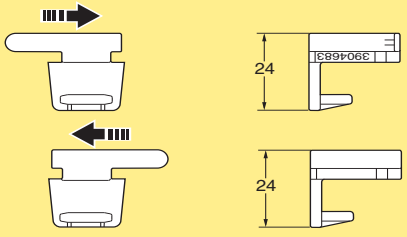
Belts rod



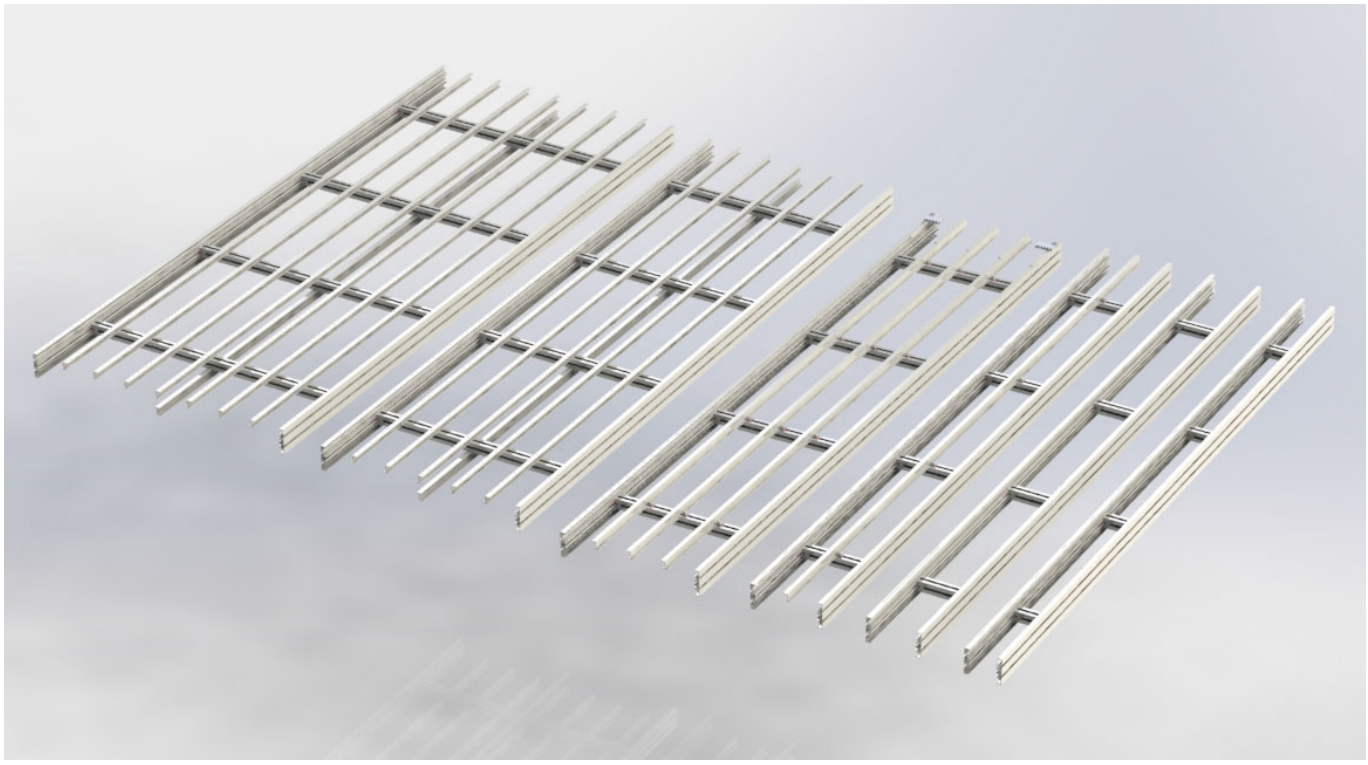
Belt rod
Length 3 m

WKTD 5×3000 P

Belts guide clip

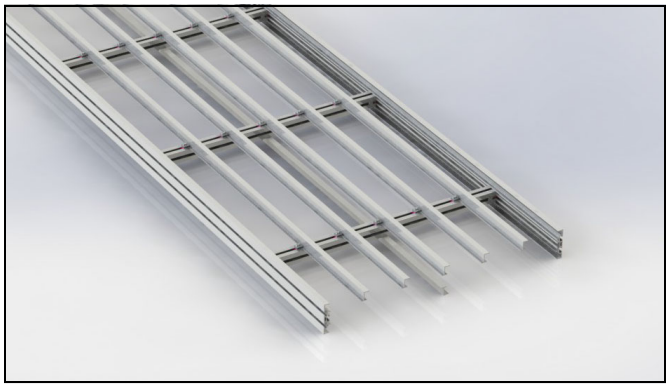


Belt guide clip, right **3904683**
Belt guide clip, left **3904684**



The modular plastic belt conveyor in six widths – 150, 225, 300, 600, 900, 1200, – straight sections.

 © FlexLink 2026



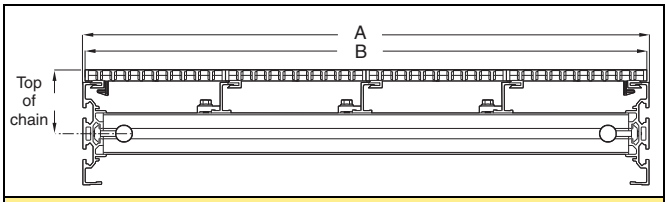
Conveyor frame structure

Frame profiles and cross bars

Conveyor frame sections consist of the following components:

- Frame profile (3 m or cut to any length from 0,5 m up to 3 m)
- Centre support profile
- Beam for cross bar
- Fastener yoke
- Mounting hardware

Conveyor dimensions



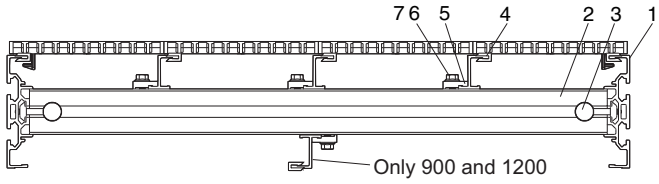
	WK 150	WK 225	WK 300	WK 600	WK 900	WK 1200
Conveyor width A (mm)	153	227	302	602	901	1200
Usable belt width B (mm)	149	224	299	597	896	1195
Top of chain:						
Standard belt WKTP 1B_	68 mm					

Each 3 m frame section consists of two frame profiles connected by four cross bars. The conveyor chain slides on the top edges of the frame profiles, and returns on the bottom side. Plastic slide rails ensure a low friction contact between chain and conveyor frame.

One or more centre support profiles is used to prevent the centre portion of the chain from sagging with heavy loads. Suggested support layouts are shown on page 468. For other support components refer to catalogue section *Conveyor support components.*

Technical specifications

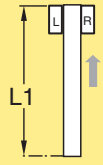
Typical friction between chain and slide rails after run-in:
XWCR 25 U 0,25
XWCR 25 P 0,30
WKCR 25 H 0,25



Cross-section of conveyor frame

Pos	Part number	Description
1	XKCF L	Half beam
2	XCBL Lx44	Beam spacer
3	XCAF 44	Fastener yoke
4	WKCNL	Support profile
5	XWCP 20	Cleat
6	XCAN 6	Nut
7	M6SF M6x16 fzb	Screw

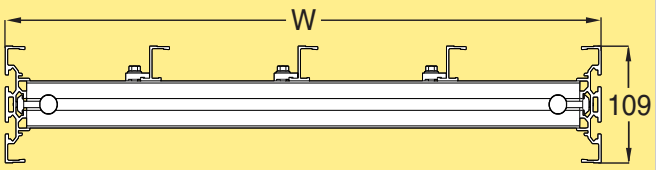
Minimum conveyor length

Minimum conveyor length, Straight section	Width	L1
	150 225 300 600 900 1200	1244

Ordering information

Slide rail, connecting strips, and connecting sleeves must be ordered separately.

Conveyor beam



Conveyor beam, W=150
- Length 3000 mm — **WKCB 3B150**
- Length to order (500- 3000 mm) — **WKCB LB150**

Conveyor beam, W=225
- Length 3000 mm — **WKCB 3B225**
- Length to order (500- 3000 mm) — **WKCB LB225**

Conveyor beam, W=300
- Length 3000 mm — **WKCB 3B300**
- Length to order (500- 3000 mm) — **WKCB LB300**

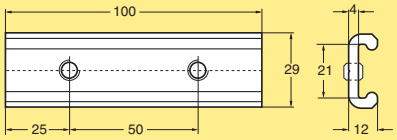
Conveyor beam, W=600
- Length 3000 mm — **WKCB 3B600**
- Length to order (500- 3000 mm) — **WKCB LB600**

Conveyor beam, W=900
- Length 3000 mm — **WKCB 3B900**
- Length to order (500- 3000 mm) — **WKCB LB900**

Conveyor beam, W=1200
- Length 3000 mm — **WKCB 3B1200**
- Length to order (500- 3000 mm) — **WKCB LB1200**

The beam section is delivered unassembled.

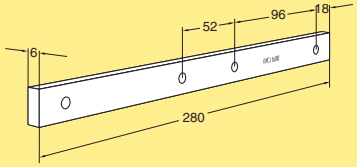
Connecting sleeve



Connecting sleeve — **XLRJ 100**

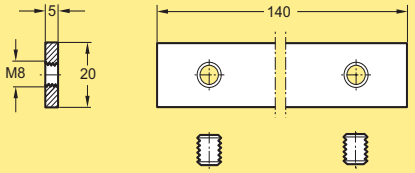
Including set screws. For connecting support profiles end to end.

Connecting strip



Connecting strip — **XWCJ 6×280**
- Length 280 mm
- Including set screws

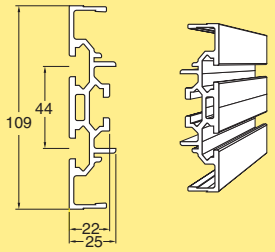
Connecting strip



Connecting strip with set screws — **XLCJ 5×140**

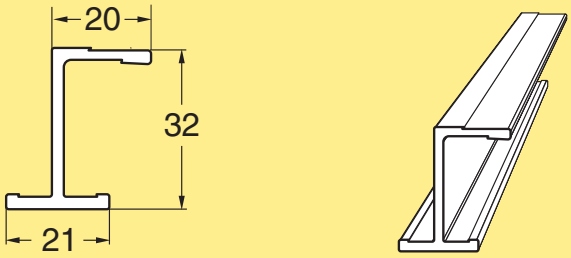
Note. Contains 10 pcs.

Conveyor frame profile



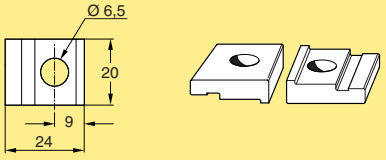
Frame profile
- Length 3000 +10/-0 mm — **WKCF 3**
- Length to order (30- 3000 mm) — **WKCF L**

Centre support profile



Centre support profile
- Length 3000 +10/-0 mm — **WKCN 3**
- Length to order (30- 3000 mm) — **WKCN L**

Cleat



Cleat — **XWCP 20**

Mounting:
One each of MC6S 6×14, BRB 6.4×12, XCAN 6

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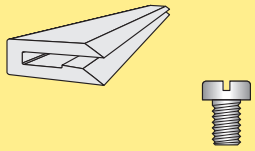
Slide rail

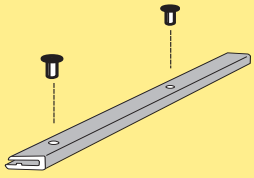


Slide rail, length 25 m

UHMW-PE (White)	**XWCR 25 U**
UHMW-PE (Blue)	**WKCR 25 UL**
PVDF	**XWCR 25 P**
PA-PE	**WKCR 25 H**
Plastic screw for slide rail	**XWAG 5***

**Note. Contains 50 pcs.*

Aluminium rivets for anchoring of slide rail



Aluminium rivets 4 mm, brown **XLAH 4×7**

Note. Contains 250 pcs..

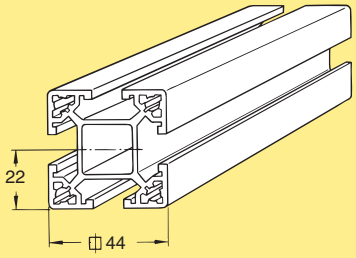
Components for cross bar

The following components from FlexLink structural system XC are used to build the crossbar.

Beam for cross bar	**XCBL 3×44**
Fastener yoke	**XCAF 44**
Slot nut for M6 screw	**XCAN 6Q***

**Note. Multipack with 10,100 or 250 pcs.*

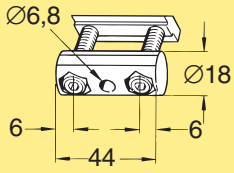
Support beam 44×44, lightweight



Beam 44 mm × 44 mm
Lightweight design
Aluminium, anodized

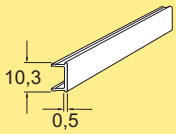
Length 3000 mm	**XCBL 3×44**
Length to order	**XCBL L×44**

Fastener yoke 44 mm



Fastener yoke assembly
Length 44 mm
Zinc, die-cast **XCAF 44**

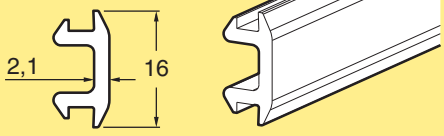
Cover strip for T-slot, PVC



Cover strip for T-slot
Length 3 m
Grey PVC **XCAC 3 P**

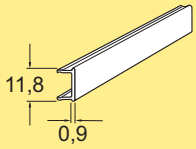
Note! Can't be used with bends

Cover strip for T-slot, PVC



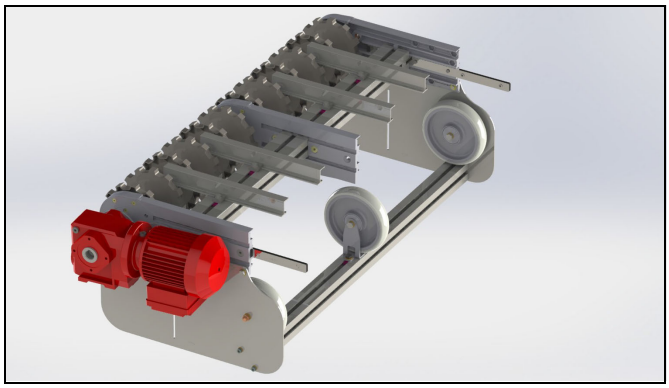
Cover strip for T-slot
Length 25 m
Grey PVC **XCAC 25 P**

Cover strip for T-slot, aluminium



Cover strip for T-slot
Aluminium, anodized
Length 2 m **XCAC 2**

Note! Can't be used with bends

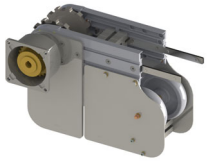


End drive unit

Drive unit types

The WK system includes direct driven units with or without slip clutch. Available motors include variable speed types (**V**) as well as fixed speed motors (**F**).

End drive units

Size	Direct drive, no slip clutch	Direct drive, slip clutch
		
Drive unit types	**F, V**	**F, V**

Motor specifications

Motors are available for 230/400 V, 50 Hz and 230/460 V, 60 Hz. Variable speed motors are SEW Movimot, 380–500 V. Note that variable speed motors include a control box that adds 120 mm to the width of the motor.
IP55 available with standard oil.
IP65 available with food grade oil.

Technical specifications

Maximal speed..... 40 m/min
Number of teeth on sprocket wheel ... 12

Number of sprocket wheels vs. conveyor width

Width	150 mm	225 mm	300 mm	600 mm	900 mm	1200 mm
Sprocket wheels	1	1 1/2	2	4	6	8

Ordering information

Drive units with motors must be specified using the web-based configurator. The configurator provides detailed information and step-by-step guidance in the specification process. A product code string is generated, containing the specification details. See next page for examples of code strings.

Drive units *without* motors can be ordered using the designations in the catalogue.

- Connecting strips are included with the drive units.
- Slide rail must be ordered separately.

Dimension

Note that dimensions relating to drive unit motors depend on the motor specified during the configuration.

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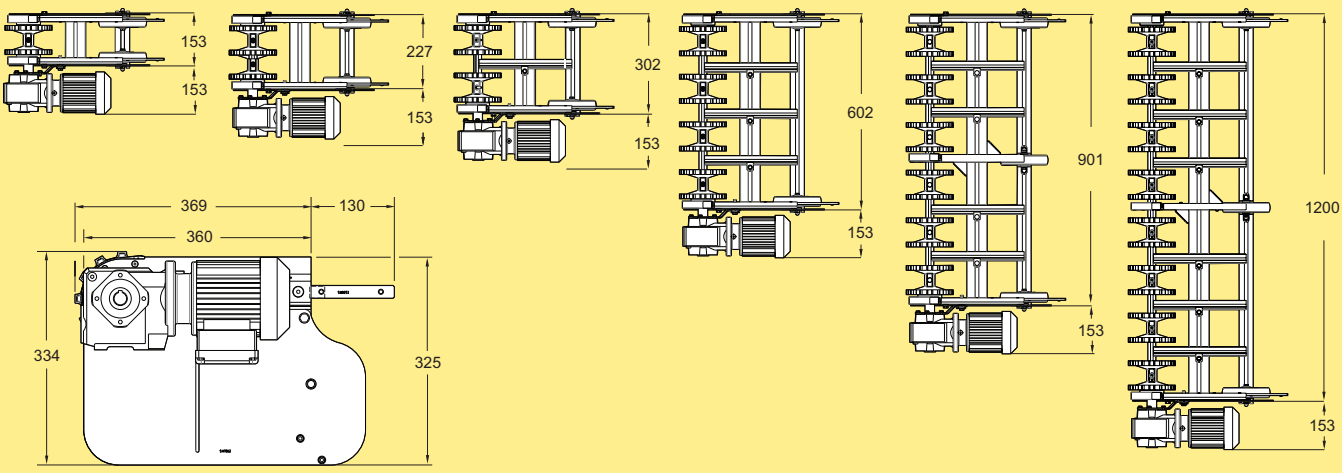
End drive units, direct drive, no slip clutch

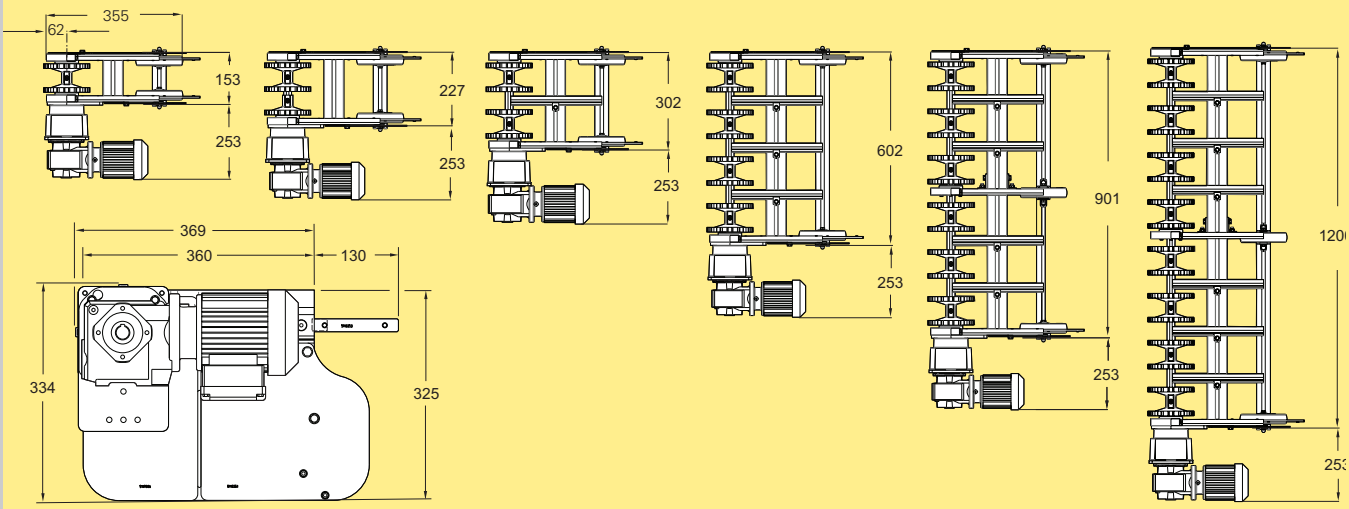
End drive unit L/R



End drive unit Fixed/variable speed*, width 150 mm Without motor: Transmission on left side Transmission on right side	**WKEB B150** **WKEB 0B150NLP** **WKEB 0B150NRP**
End drive unit Fixed/variable speed*, width 225 mm Without motor: Transmission on left side Transmission on right side	**WKEB B225** **WKEB 0B225NLP** **WKEB 0B225NRP**
End drive unit Fixed/variable speed*, width 300 mm Without motor: Transmission on left side Transmission on right side	**WKEB B300** **WKEB 0B300NLP** **WKEB 0B300NRP**
End drive unit Fixed/variable speed*, width 600 mm Without motor: Transmission on left side Transmission on right side	**WKEB B600** **WKEB 0B600NLP** **WKEB 0B600NRP**
End drive unit Fixed/variable speed*, width 900 mm Without motor: Transmission on left side Transmission on right side	**WKEB B900** **WKEB 0B900NLP** **WKEB 0B900NRP**
End drive unit Fixed/variable speed*, width 1200 mm Without motor: Transmission on left side Transmission on right side	**WKEB B1200** **WKEB 0B1200NLP** **WKEB 0B1200NRP**

** Use online configurator when ordering*
Effective track length: 0,80 m

End drive unit L/R



End drive unit Fixed/variable speed*, width 150 mm Without motor: Transmission on left side Transmission on right side	**WKEB B150** **WKEB 0B150LP** **WKEB 0B150RP**
End drive unit Fixed/variable speed*, width 225 mm Without motor: Transmission on left side Transmission on right side	**WKEB B225** **WKEB 0B225LP** **WKEB 0B225RP**
End drive unit Fixed/variable speed*, width 300 mm Without motor: Transmission on left side Transmission on right side	**WKEB B300** **WKEB 0B300LP** **WKEB 0B300RP**
End drive unit Fixed/variable speed*, width 600 mm Without motor: Transmission on left side Transmission on right side	**WKEB B600** **WKEB 0B600LP** **WKEB 0B600RP**
End drive unit Fixed/variable speed*, width 900 mm Without motor: Transmission on left side Transmission on right side	**WKEB B900** **WKEB 0B900LP** **WKEB 0B900RP**
End drive unit Fixed/variable speed*, width 1200 mm Without motor: Transmission on left side Transmission on right side	**WKEB B1200** **WKEB 0B1200LP** **WKEB 0B1200RP**

** Use online configurator when ordering*
Effective track length: 0,80 m

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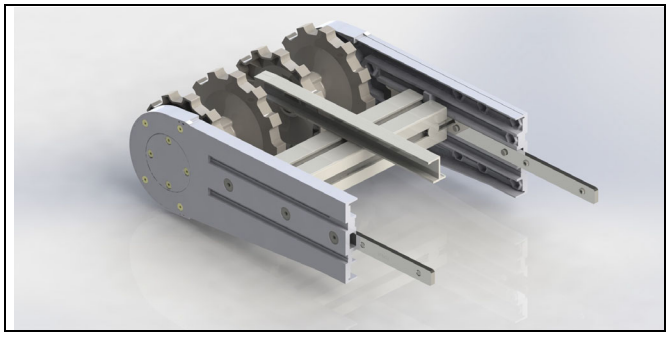
Idler end units – introduction



Idler end unit

Chain guidance at end of conveyor

The idler end unit is used to guide the chain from the return side of the conveyor up to the top side with a minimum of friction. The chain is guided by two or more idler wheels on a common, rotating shaft supported by ball bearings.

Number of idler wheels vs. conveyor width

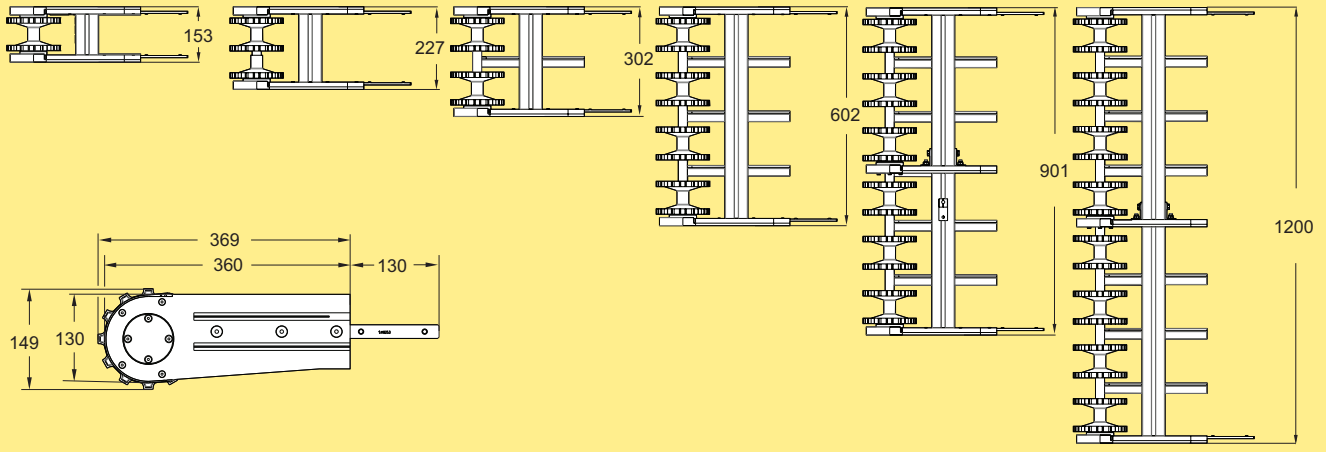
Width	150 mm	225 mm	300 mm	600 mm	900 mm	1200 mm
Idler wheels	1	1 1/2	2	4	6	8

Ordering information

- Connecting strips are included with the idler end units.
- Slide rail must be ordered separately.

Idler units

Idler end unit



Idler end unit, width 150 mm	**WKEJ 150 B**
Idler end unit, width 225 mm	**WKEJ 225 B**
Idler end unit, width 300 mm	**WKEJ 300 B**
Idler end unit, width 600 mm	**WKEJ 600 B**
Idler end unit, width 900 mm	**WKEJ 900 B**
Idler end unit, width 1200 mm	**WKEJ 1200 B**
Effective track length: 0,80 m	

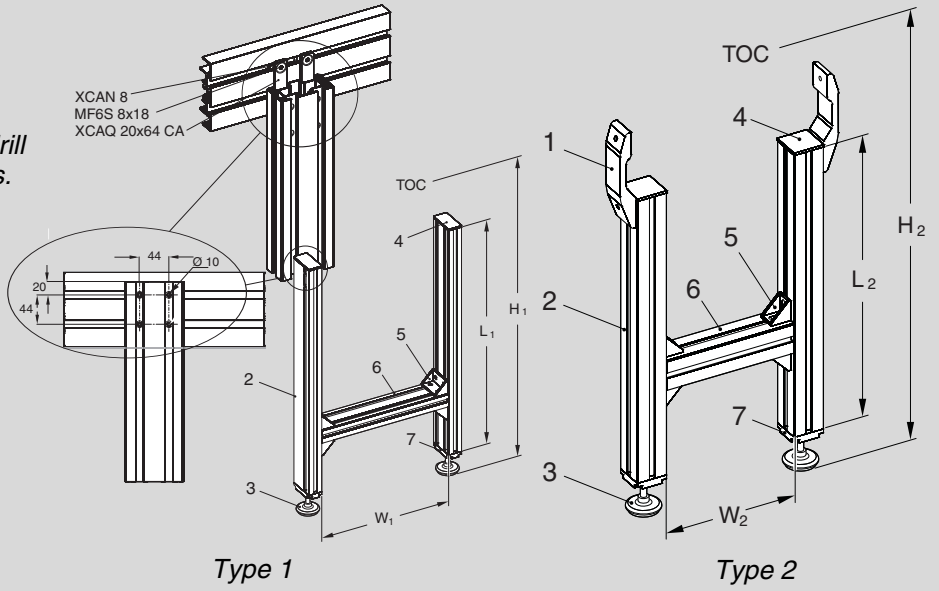
Support components

The illustrations on this page show recommended supports for the conveyor. All supports are built using components from FlexLink structural system XC. See main catalogue section *Conveyor support components* for more information.

Height and width of supports Type 1, 2

	WK150	WK225	WK300	WK600	WK900	WK1200
W1 (mm)	153	227	302	602	901	1200
L1 (mm)	ca. H1-92	ca. H1-92	ca. H1-92	ca. H1-92	ca. H1-92	ca. H1-92
W2 (mm)	--	100	175	475	774	1073
L2 (mm)	ca. H2-276	ca. H2-276	ca. H2-276	ca. H2-276	ca. H2-276	ca. H2-276

We recommend using a drill fixture for Type 1 supports. Item no. 8050040

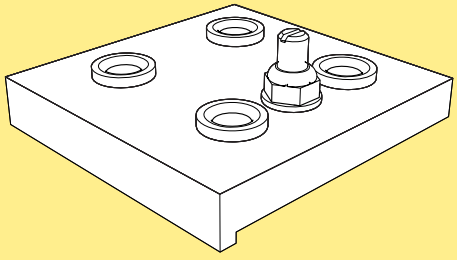


Type 1 *Type 2*

Suggested support components

Pos	Item	Designation	
		Type 1	Type 2
1	Beam support bracket	–	XLCS 64 C
2	Leg support	XCBL 3x44x88	XCBL 3x64
3	Foot	XCFS 12x68	XCFS 12x68
4	End cap	XCBE 44x88	XCBE 64
5	Angle bracket	XCFA 88 B	XCFA 44 B
6	Cross beam	XCBL 3x44x88	XCBL 3x64
7	End plate for beam	XCFE 44x88 M12A	XCFE64 M12A

Drill fixture



Drill fixture **8050040**

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