Manual adjustable guide rails system for quick product changeovers

The manual adjustable guiding system provides a very flexible way to add fast width adjustment for conveyors in a production line.

The system offers fast and easy resetting of product guiding systems in production flows. The effect is increased line efficiency and safe product distribution throughout the line.

The system has a modular design and consists of straight guide units for guiding the side guides on the straight sections, and bends units for controlling the side guide widths on plain bends. Drive kits for applying movement to the side guides, and transmission and shaft kits that connect each of the units. There are also available a range of vertical bend kits for adapting guide rails for angled conveyors and additional items that allow for the side guide widths to be reduced in addition to the max/min range highlighted in the technical specification.

There are two configurations of the guide unit available: one above the conveyor (configuration 1), and one below the conveyor (configuration 2).

Configuration 1 is available in either one lane, two lane or four lane versions. There are two different heights available for configuration 1.

Configuration 2 is available in a one lane version only.

Bend units are supplied assembled with the relevant plain bend modules.

Standard features

- **Central adjustment**: With one hand wheel the complete length of conveyor side guides can be changed over in very short times. Changeover can be accessed from a floor mounted conveyor position or alternatively a floor mounted actuator kit will provide easy access for side guide adjustment on high level conveyors.

- **Side guide setting and calibration**: A dial gauge at the actuator position ensures accurate and repeatable adjustment.

- **Robust design**: The system is robust and designed to handle heavy products in accumulation.

- **Guide rail options**: The adjusting mechanism has been designed for use with either heavy or light guide rails. Guide rails are only available for pre-assembled bends.

The options for guide rail are
- XCBL 3x15x44 - for heavy duty applications
- XLRS 3x15 - for light applications

See Page 8
Technical specifikation

<table>
<thead>
<tr>
<th>Configuration 1</th>
<th>Configuration 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product width</strong></td>
<td></td>
</tr>
<tr>
<td>Min / Max product widths for configuration 1</td>
<td>Min / Max product widths for configuration 2</td>
</tr>
<tr>
<td>XL</td>
<td>20 - 200 mm</td>
</tr>
<tr>
<td>X85</td>
<td>20 - 250 mm</td>
</tr>
<tr>
<td>XH</td>
<td>20 - 350 mm</td>
</tr>
<tr>
<td>XK</td>
<td>20 - 350 mm</td>
</tr>
<tr>
<td>X180</td>
<td>70 - 450 mm</td>
</tr>
<tr>
<td>X300</td>
<td>70 - 450 mm</td>
</tr>
</tbody>
</table>

**Loadings**

- Max vertical load - 100 N
- Max horizontal load - 300 N

**Max. distance between adjusting units**

- 700 mm for XLRS 3x15
- 1000 mm for XCBL 3x15x44

Max numbers of adjusting units per adjusting hand wheel - 12 off
Part numbering – configuration strings

Below, three examples of text strings obtained from the configurator with explanations are presented.

1. Frame above conveyor, single lane, X85, height of frame 250 mm, guide rail type XCBL Lx15x44

<table>
<thead>
<tr>
<th>Item no</th>
<th>AA</th>
<th>BB</th>
<th>CC</th>
</tr>
</thead>
<tbody>
<tr>
<td>8042040</td>
<td>020</td>
<td>110</td>
<td>220</td>
</tr>
</tbody>
</table>

2. Frame underneath conveyor, single lane, X85 height of frame 400 mm, guide rail type XLRS 3x15

<table>
<thead>
<tr>
<th>Item no</th>
<th>AA</th>
<th>BB</th>
<th>CC</th>
</tr>
</thead>
<tbody>
<tr>
<td>8042042</td>
<td>020</td>
<td>120</td>
<td>210</td>
</tr>
</tbody>
</table>

3. Frame above conveyor, single lane bend, X85, height of frame 250 mm, guide rail type XCBL Lx15x44, bend angle 45° and bend radius 700.

<table>
<thead>
<tr>
<th>Item no</th>
<th>AA</th>
<th>BB</th>
<th>CC</th>
<th>DD</th>
<th>EE</th>
</tr>
</thead>
<tbody>
<tr>
<td>8042076</td>
<td>020</td>
<td>110</td>
<td>220</td>
<td>320</td>
<td>420</td>
</tr>
</tbody>
</table>

BB – Height of frame
110: 250 mm
120: 400 mm

CC – Guide rail type
210: XLRS 3x15
220: XCBL Lx15x44

DD – Bend angle
310: 30°
320: 45°
330: 60°
340: 90°
390: Special angle

EE – Bend radius
410: R500
420: R700
430: R1000
440: R1200
450: R1400
460: R1600
490: Special radius

Configuration 1 - Frame above conveyor
Valid for conveyor system:
8042040 Single lane XL, X85, XH, XK
8042044 Single lane X180, X300
8042072 Single lane bend XL, X85, XH, XK
8042076 Single lane bend X180, X300
8042048 Twin lane XL, X85, XH, XK
8042084 Twin lane bend XL, X85, XH, XK
8042050 Four lane XL, X85
8042086 Four lane bend XL, X85

Configuration 2 - Frame underneath conveyor
8042042 Single lane XL, X85, XH, XK
8042046 Single lane X180, X300
8042079 Single lane bend XL, X85, XH, XK
8042082 Single lane bend X180, X300

Configurator keys

AA – Conveyor type
010: XL
020: X85
030: XH
040: XK
050: X180
060: X300
Manual adjustable guiding system

Configuration 1 - Frame above conveyor

Single lane

Guide unit, single lane, frame above conveyor 8042040-AA-BB-CC

Single lane bend

Guide unit, single lane bend, frame above conveyor 8042072-AA-BB-CC-DD-EE

Note! Bend included

Single lane bend

Guide unit, single lane bend, frame above conveyor 8042076-AA-BB-CC-DD-EE

Note! Bend included
Configuration 1 - Frame above conveyor (continued)

**Twin lane**

Guide unit, twin lane, frame above conveyor

8042048-AA-BB-CC

**Twin lane bend**

Guide unit, twin lane bend, frame above conveyor

Note! Bends included

8042084-AA-BB-CC-DD-EE
Manual adjustable guide rails

Configuration 1 - Frame above conveyor (continued)

**Four lane**

Guide unit, four lane, frame above conveyor

8042050-AA-BB-CC

**Four lane bend**

Guide unit, four lane bend, frame above conveyor

*Note! Bends included*

8042086-AA-BB-CC-DD-EE
Configuration 2 - Frame underneath conveyor

**Single lane**

Guide unit, single lane, frame underneath conveyor

8042042-AA-CC

**Single lane**

Guide unit, single lane, frame underneath conveyor

8042046-AA-CC

**Single lane bend**

Guide unit, single lane bend, frame underneath conveyor

Note! Bend included

8042079-AA-CC-DD-EE

**Single lane bend**

Guide unit, single lane bend, frame underneath conveyor

Note! Bend included

8042082-AA-CC-DD-EE
Guiding rail system components

Guide rail

Small beam 15×44

Small beam 15 mm × 44 mm
Lightweight design
Aluminium, anodized
Length 3 m (3030 ±5 mm)
Length to order (30-3000 mm)
End cap, polyamide

Beam weight: 0.88 kg/m
*Note. Must be ordered in multiples of 10

Guide rail 15 mm, aluminium

Straight rail 15 mm
Aluminium, length 3 m

End plug, 15 mm

Must be ordered in multiples of 10

Drive kit

Drive kit

Drive Kit (suspended)

Note! Use tube 8042090 for extension (not included), this tube can also be sourced locally

Drive kit

Drive kit

8042027

8042028
Manual adjustable guide rails

**Conveyor bypass (outside)**

- **Shaft kit**

  - **Join**
    - 8042022

  - **Join**

- **Transmission kit**

  - **Transmission kit**
    - 8042090
    - 8042023

  - **Transmission kit**
    - Note! Use tube 8042090 for extension (not included), this tube can also be sourced locally

- **Conveyor bypass (outside)**
  - 8042024
  - **Conveyor bypass (outside)**
    - Note! Use tube 8042090 for extension (not included), this tube can also be sourced locally
Guide rail components

Connecting strip

Connecting strip with set screws  XLCJ 5×140

Note. Must be ordered in multiples of 10

Connecting sleeve

Connecting sleeve  XLRJ 100

Including set screws. For connecting two 10 mm or 15 mm XLRS guide rails end to end.

Guide rail cover, flanged, for 15 mm aluminium guide rail

Guide rail cover for 15 mm guide rail

Polyethylene, length 3 m, flanged  XLRT 3×33 D
Manual adjustable guide rails

**Vertical bends kit for XCBL 3x15x44**

<table>
<thead>
<tr>
<th>Corner fitting 5°</th>
<th>Corner fitting 30°</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Corner fitting 5°" /></td>
<td><img src="image2" alt="Corner fitting 30°" /></td>
</tr>
<tr>
<td>Steel, electro-zinc-plated</td>
<td>Steel, electro-zinc-plated</td>
</tr>
<tr>
<td>8042093</td>
<td>8042096</td>
</tr>
<tr>
<td>Note. Must be ordered in multiples of 10 Including set screws</td>
<td>Note. Must be ordered in multiples of 10 Including set screws</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Corner fitting 7°</th>
<th>Corner fitting 45°</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image3" alt="Corner fitting 7°" /></td>
<td><img src="image4" alt="Corner fitting 45°" /></td>
</tr>
<tr>
<td>Steel, electro-zinc-plated</td>
<td>Steel, electro-zinc-plated</td>
</tr>
<tr>
<td>8042094</td>
<td>XMRW 20×45</td>
</tr>
<tr>
<td>Note. Must be ordered in multiples of 10 Including set screws</td>
<td>Note. Must be ordered in multiples of 10 Including set screws</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Corner fitting 15°</th>
<th>Corner fitting (custom angle)</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image5" alt="Corner fitting 15°" /></td>
<td><img src="image6" alt="Corner fitting (custom angle)" /></td>
</tr>
<tr>
<td>Steel, electro-zinc-plated</td>
<td>Steel, electro-zinc-plated</td>
</tr>
<tr>
<td>8042095</td>
<td>8042097</td>
</tr>
<tr>
<td>Note. Must be ordered in multiples of 10 Including set screws</td>
<td>Note. Must be ordered in multiples of 10 Including set screws</td>
</tr>
</tbody>
</table>
**Product width reduction**

**Distance piece (aluminium)**

Distance piece (plastic POM C, black)  
Thickess 6 mm  

Note. Fixing not provided  
Must be ordered in multiples of 10

**Distance piece (aluminium)**

Distance piece (aluminium)  
Thickness 6,25 mm  

Suitable, longer T-bolts  
Note. Must be ordered in multiples of 10

**Transmission tube (anodised)**

**Tube (anodized)**

This tube can also be sourced locally

More information

Variations from standard modules are available and can be configured to suit specific customer requirements. Please contact your local FlexLink sales unit for more information.