ERS BELT CONVEYORS

High loads with economy of use
The belt conveyor stands out for careful and extremely low-noise conveying of totes and cartons. It can be combined with either a head drive or a central drive depending on its length. The belt conveyor with central drive is used for long conveying distances, its timing belt transmission enables a very quiet and low-maintenance operation. The belt conveyor with head drive is especially used for short conveying distances, it is also equipped with timing belt transmission. Both versions of the belt conveyor can cope with inclines of up to 22.5°. It is capable of conveying even the smallest goods.

Transport of heavy loads
Loads with a weight of up to 600 kg are transported with ease

Plug and play
Ready for installation and use with pre-assembled modules

Easy Systems
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info@easy-systems.be | www.easy-systems.be
The belt conveyors used for transport of unit loads that are not suitable for roller tracks, and for all types of unit loads in case of inclines and declines.

### TECHNICAL DATA

<table>
<thead>
<tr>
<th>General technical data</th>
<th>Drum motor</th>
<th>Gear motor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. load capacity per module</td>
<td>120 kg</td>
<td>250 kg</td>
</tr>
<tr>
<td>Conveyor speed</td>
<td>Max 1,0 m/s</td>
<td>Max 1,75 m/s</td>
</tr>
<tr>
<td>Inclined/declined</td>
<td>Max 10°</td>
<td>Max 10°</td>
</tr>
<tr>
<td>Ambient temperature</td>
<td>-5 to +50 °C</td>
<td>-5 to +50 °C</td>
</tr>
</tbody>
</table>

The maximum load capacity is depending on the combination of speed & load.

### Drive

<table>
<thead>
<tr>
<th>Drive data</th>
<th>Drum motor</th>
<th>Gear motor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated voltage</td>
<td>400 V / 50 Hz / 3 phase</td>
<td>400 V / 50 Hz / 3 phase</td>
</tr>
<tr>
<td>Max. electrical power per zone</td>
<td>0,12 kW</td>
<td>1,1 kW</td>
</tr>
<tr>
<td>Drive medium</td>
<td>Drive pully ø 81,5</td>
<td>ø 85</td>
</tr>
</tbody>
</table>

### Side profile

<table>
<thead>
<tr>
<th>Profile L</th>
<th>116 mm high</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 mm below top edge of belt</td>
<td></td>
</tr>
</tbody>
</table>

### DIMENSIONS

- LW Clearance: 420 / 520 / 620 / 820 mm
- ML Max. module length: 3000 mm
- BW Belt wide: LW +/- 60 mm

### LOGIC CONFIGURATOR

Please create the reference number with the following configurator:

1. **TYPE**
   - ERS 70

2. **TYPE**
   - 1

3. **Clearance LW**
   - 420 | 520 | 620 | 820

4. **Drive**
   - GM | Gear Motor
   - DM | Drum Motor

5. **Module length ML in mm (Length goes in steps of 25mm)**
   - min 600 mm, max 3000 mm

6. **Drive position**
   - Right hand drive | R
   - Left hand drive | L

7. **Side profiles**
   - LL

8. **Conveyor speed in m/s**
   - 0,16 | 0,25 | 0,33 | 0,44 | 0,65 | 0,98

ORDER EXAMPLE

Example for a reference number:

```
70 - 1 - 420 - DM - 2000 - R - LL / 0.65
```

This reference number stands for Belt Conveyor with drum drive ERS 70 with a clearance LW 420 mm, a module length ML 2000 mm, a drum drive on the right, a conveyor speed of 0.65 m/s and both sides low side profile.

**ORDER INFORMATION**

- The module is fully assembled
- Please order support stands, side guide, straight connectors and end caps separately
- Steel components are zinc-plated

**CONFIGURATOR**

- If you require a non-standard model, contact your local Logic Supplier.

**ACCESSOIRES**

- Support stands, see P92
- Accessoires, see P102
BELT CONVEYOR STRAIGHT WITH CENTER DRIVE ERS 70

The belt conveyors used for transport of unit loads that are not suitable for roller tracks, and for all types of unit loads in case of inclines and declines.

TECHNICAL DATA

General technical data
- Max. load capacity per module: 600 kg
- Conveyor speed: Max 2.6 m/s
- Inclined/declined: Max 24°
- Ambient temperature: -5 to +50 °C

Belt material
- Conveyor belt surface: PVC black - type Z M12 UD-V3N
- Slider bed: Chip board, 16 mm white laminated space

Drive Drum Motor
- Rated voltage: 400 V / 50 Hz / 3 phase
- Max. electrical power per zone: 1.2 kW
- Drive medium: Drive pulley ø 180 mm vulcanised

Side profile
- Profile L: 116 mm high, 4 mm below top edge of belt

DIMENSIONS

LW Clearance: 420 / 520 / 620 / 820 mm
ML Max. module length: 30,000 mm
TW Module width: LW +/- 15 mm
BW Belt wide: LW +/- 60 mm

ORDER INFORMATION
- The module is fully assembled
- Please order support stands, side guide, straight connectors and end caps separately
- Steel components are zinc-plated

CONFIGURATOR
- If you require a non-standard model, contact your local Logic Supplier.

ACCESSOIRES
- Support stands, see P92
- Accessories, see P102

ORDER EXAMPLE
Example for a reference number:
70 - 2 - 420 - 2000 - R - LL / 0.33

This reference number stands for Belt Conveyor with center drive ERS 70 with a clearance LW 420 mm, a module length ML 12,000 mm, a head drive on the right, a conveyor speed of 0.33 m/s and both sides low side profile.
The belt conveyor ERS 70 with top arch is used for transport all types of unit loads in case of inclines and declines. The arch reduces noise and the impact of materials while passing over them.

**TECHNICAL DATA**

**General technical data**
- Max. load capacity per module: 600 kg
- Conveyor speed: Max 2.6 m/s
- Inclined/declined: Max ±2.5°
- Ambient temperature: -5 to +50 °C
- Maximum load capacity is depending on the combination of speed & load

**Belt material**
- Conveyor belt surface: PVC black with TPU, grooved longitudinally - Type M12 V1LGRF
- Slider bed: Chip board, 16 mm white laminated
- See belt notes P86

**Drive Drum Motor**
- Rated voltage: 400 V / 50 Hz / 3 phase
- Max. electrical power per zone: 1.2 kW
- Drive medium: Drive pulley ø 180 mm vulcanised

**Side profile**
- Profile L: 116 mm high
  - 4 mm below top edge of belt

**DIMENSIONS**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>420 / 520 / 620 / 820 mm</th>
<th>ML Max. module length</th>
<th>LW +/- 60 mm</th>
<th>BW Belt wide</th>
</tr>
</thead>
<tbody>
<tr>
<td>LW Clearance</td>
<td>420 / 520 / 620 / 820 mm</td>
<td>30,000 mm</td>
<td>LW +/- 60 mm</td>
<td>BW Belt wide</td>
</tr>
</tbody>
</table>

**ORDER EXAMPLE**

Example for a reference number:
70 - 3 - 420 - 6000 - A2 - R - LL / 0.33

This reference number stands for Belt Conveyor ERS 70, type 3 with a clearance LW 420 mm, an arch angle of 12°, a module length ML 6.000 mm, with a top arch of 312,50 mm and a right hand center drive and both sides low side profile, speed is 0.33 m/s.

**ORDER INFORMATION**
- The module is fully assembled
- Please order support stands, side guide, straight connectors and end caps separately
- Steel components are zinc-plated

**CONFIGURATOR**
- If you require a non-standard model, contact your local Logic Supplier.

**ACCESSOIRES**
- Support stands, see P92
- Accessories, see P102
The belt conveyor ERS 70, type 4 is used for transporting all types of unit loads in case of inclines and declines. The feed enables a smooth transition at the lower unit of the belt conveyor, e.g. at the interface with a roller conveyor.

**TECHNICAL DATA**

- **Max. load capacity per module**: 600 kg
- **Conveyor speed**: Max 2,6 m/s
- **Inclined/declined**: Max 22,5°
- **Ambient temperature**: -5 to +50 °C

**Belt material**
- **Conveyor belt surface**: PVC black with TPU, grooved longitudinally - type 2 M12 V7LGFr
- **Slider bed**: Chip board, 16 mm white laminated
- **Drive Drum Motor**
  - **Rated voltage**: 400 V / 50 Hz / 3 phase
  - **Max. electrical power per zone**: 1,2 kW
  - **Drive medium**: Drive pully ø 180 mm vulcanised

**Side profile**
- **Profile L**: 116 mm high
  - 4 mm below top edge of belt

**DIMENSIONS**

- **LW Clearance**: 420 / 520 / 620 / 820 mm
- **ML Max. module length**: 30.000 mm
- **TW Module width**: LW +/- 60 mm
- **BW Belt wide**: LW +/- 60 mm

**ORDER EXAMPLE**

Example for a reference number:
- **70 - 420 - 20 - 10.000 - F3 - R - LL / 0,65**

This reference number stands for Belt Conveyor ERS 70, type 4 with a clearance of 420 mm, a feed angle of 20°, a module length ML 10.000 mm, with a feed length of 737,50 mm and a right hand center drive and both sides low side profile, speed is 0,65 m/s.

**ORDER INFORMATION**
- The module is fully assembled
- Please order support stands, side guide, straight connectors and end caps separately
- Steel components are zinc-plated

**CONFIGURATOR**
- If you require a non-standard model, contact your local Logic Supplier.

**ACCESSOIREs**
- Support stands, see P92
- Accessories, see P102
The belt conveyor ERS 70, type 5 is used for transporting all types of unit loads in case of inclines and declines. Arch and feed allow a smooth and quieter transition at the upper and lower link.

**TECHNICAL DATA**

General technical data
- Max. load capacity per module: 600 kg
- Conveyor speed: Max 2,6 m/s
- Inclined/declined: Max 22,5°
- Ambient temperature: -5 to +50 °C

Belt material
- Conveyor belt surface feed: PVC black - Type 2 M12 UO-V3N
- Conveyor belt straight + Arch: PVC black with TPU, grooved longitudinally - Type 2 M12 V7LGFr

**Drive Motor**
- Rated voltage: 400 V / 50 Hz / 3 phase
- Max. electrical power per zone: 1,2 kW
- Drive medium: Drive pully ø 180 mm vulcanised

**Side profile**
- PROFILE L: 176 mm high
- 4 mm below top edge of belt

**DIMENSIONS**

<table>
<thead>
<tr>
<th>LW clearance</th>
<th>ML Max. module length</th>
<th>TW Module width</th>
<th>BW Belt wide</th>
</tr>
</thead>
<tbody>
<tr>
<td>420 / 520 / 620</td>
<td>30,000 mm</td>
<td>LW +/- 75 mm</td>
<td>LW +/- 60 mm</td>
</tr>
</tbody>
</table>

**LOGIC CONFIGURATOR**

Please create the reference number with the following configurator.

1. **TYPE**
   - ERS 70
2. **TYPE**
   - S
3. Clearance LW
   - 420 / 520 / 620 / 820
4. Arch angle cc
   - 4° / 8° / 12° / 16° / 20° / 22,5°
5. F =
   - F1 537,5 mm | F2 637,5 mm | F3 737,5 mm | F4 837,5 mm
   - FL = F +/- 233,5 mm
   - CL = ML + +/- 246 mm (depending on Feed angle)
6. Module length ML in mm (Length goes in steps of 25mm)
   - min 1,512,50 mm, max 30,000 mm
7. A =
   - A1 212,5 mm | A2 312,5 mm | A3 412,5 mm | A4 512,5 mm | A5 612,5 mm
   - AL = A +/- 220 mm
   - CL = ML + +/- 246 mm (depending on Arch angle)
8. Drive position
   - Right hand drive: R
   - Left hand drive: L
9. Side profiles
   - LL
10. Conveyor speed in m/s
    - 0,16 / 0,25 / 0,33 / 0,44 / 0,65 / 0,98 / 1,31 / 1,75 / 2,6

**ORDER INFORMATION**

- The module is fully assembled
- Please order support stands, side guide, straight connectors and end caps separately
- Steel components are zinc-plated

**CONFIGURATOR**

- If you require a non-standard model, contact your local Logic Supplier.

**ACCESSOIRES**

- Support stands, see P92
- Accessories, see P102

**ORDER EXAMPLE**

Example for a reference number:

70 - 5 - 420 - 8 - F2 - 7500 - A3 - R - LL / 0,65

This reference number stands for Belt Conveyor ERS 70, type 5 with a clearance of 420 mm, an arch angle of 8°, a feed length of 637,5 mm, a module length of 7,500 mm, with a arch length of 412,50 mm and a right hand center drive and both sides low side profile, speed is 0,65 m/s.
**TECHNICAL DATA**

### PVC 45 Sh.A (45)

<table>
<thead>
<tr>
<th>Component</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>Polyester (PET)</td>
</tr>
<tr>
<td>Thickness</td>
<td>0.70 mm</td>
</tr>
<tr>
<td>Colour</td>
<td>Anthracite</td>
</tr>
<tr>
<td>Pattern</td>
<td>LdB fabric</td>
</tr>
<tr>
<td>Coefficient of friction</td>
<td>0.20</td>
</tr>
</tbody>
</table>

### Driving Belt Specifications

<table>
<thead>
<tr>
<th>Total Tension</th>
<th>2.70 mm</th>
<th>0.11 in.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>2.40 kg/m²</td>
<td>0.49 lbs/sq.ft</td>
</tr>
<tr>
<td>Elongation at 1%</td>
<td>12 kg/mm</td>
<td>68.5 lbs/in.</td>
</tr>
<tr>
<td>Max. Admissible Pull</td>
<td>24 kN/mm</td>
<td>137.0 lbs/in.</td>
</tr>
</tbody>
</table>

### Features:

- **Suitable for:** Airports, Materials handling
- **NOTES:** Use of the belt with high values may reduce its life

### Compliances

- REACH Regulation EC 1907/2006 and amendments
- Flame Retardant UNI EN ISO 340
- Flame Retardant UL94HB Horizontal Burning

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**TECHNICAL DATA**

### PVC 70 Sh.A (45)

<table>
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<tr>
<th>Component</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>Polyester (PET)</td>
</tr>
<tr>
<td>Thickness</td>
<td>0.30 mm</td>
</tr>
<tr>
<td>Colour</td>
<td>Black</td>
</tr>
<tr>
<td>Pattern</td>
<td>LF</td>
</tr>
<tr>
<td>Coefficient of friction</td>
<td>0.20</td>
</tr>
</tbody>
</table>

### Driving Belt Specifications

<table>
<thead>
<tr>
<th>Total Tension</th>
<th>1.90 mm</th>
<th>0.07 in.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>2.10 kg/m²</td>
<td>0.43 lbs/sq.ft</td>
</tr>
<tr>
<td>Elongation at 1%</td>
<td>12 kg/mm</td>
<td>68.5 lbs/in.</td>
</tr>
<tr>
<td>Max. Admissible Pull</td>
<td>24 kN/mm</td>
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