New modular pallet conveyor from SHS Ltd

The new modular pallet conveyor comprises of heavy duty chain conveyor, roller conveyor, chain transfer and turntable modules. The flexible pallet conveyor system is designed to handle the full range of Euro-pallet sizes as well as the popular Chep type 1200 x 1000mm pallet, with loads up to 1500Kg.

Roller Conveyor Straight
A robust pallet roller conveyor system. Rollers are driven tangentially by 5/8” chain in a fully enclosed side channel. The systems offers minimal backlash, easy tensioning and a 150mm roller pitch. With a load capacity of 1500Kg per pallet the straight modules are available to handle upto 4500Kg total conveyor load.
- Tangential chain drive
- 4 mm thick side channels.
- 3 and 5 mm thick roller options.
- Chain tensioning done quickly without removing guards.
- 150mm roller pitch.

Chain Conveyor Straight
3/4” pitch flat sided linked chain provides a strong supporting surface to convey pallets up to 1500Kg. These modules are available in two and three chain versions. Chain tensioning is quick and easy with no requirement to remove any guards.
- 1500Kg pallet load capacity
- 4-mm thick side channels.
- 3/8”pitch flat sided chain running on low friction, hard wearing polymer guide strips.
- Ability to run cables and pneumatics in side channel.
- Chain in same lateral position on each module. Giving a smooth clean appearance and aiding cable runs.
- Hollow cross ties to enable cables to run from one side of the conveyor to the other.

Roller Transfer
Roller transfers are a self contained unit, which can be fitted to a new or existing chain conveyor straight. The pop-up roller is powered by two motorised rollers. With a nominal roller pitch of 150 mm for all pallet types these transfers offer exceptional support for pallets during the transfer operation.
- Tangential chain drive
- 4 mm thick side channels.
- 3 and 5 mm thick roller options.
- 150mm roller pitch.

Double Transfer
Double transfer modules combine the features and benefits of the roller systems and chain conveyor in one module. With a nominal roller pitch of 150 mm for all pallet types these transfers offer exceptional support for pallets during the transfer operation. The modules are available to suit the standard pallet conveyor widths.
- 150mm roller pitch.
- Bi-directional control available.
- Conveyor speeds of 12m/min and 18m/min.
- Maximum pallet weight 1500kg.

Europallet and Chep type pallets.
3mm and 5mm thick roller options.
Soft start and inverter options available.
Conveyor speed 12m/min and 18m/min.
Fully CE compliant.

Chain Transfer
Transfer modules combine the features and benefits of the roller systems and chain conveyor in one module. With a nominal roller pitch of 150 mm for all pallet types these transfers offer exceptional support for pallets during the transfer operation.
- 150 mm roller pitch
- 3-mm thick steel rollers with steel sprockets
- 1/2” pitch flat sided chain
- Types:
  - Single Handed Transfer to Transfer Unit
  - Single Handed Extended Transfer to Transfer Unit

Roller Turntable
The turntable module is designed to change the direction of pallet travel by rotation of the pallet through any angle from 90° to 180°, whilst keeping the relationship of the pallet runners to roller conveyor the same.
- Rotation angle of 90 to 180 degrees.
- 147 pallets per hour rotating 90 degrees.
- Two rotation speeds of 2rpm and 4rpm
- Conveyor speeds of 12 m/min and 18m/min
- Pallet dimensions 800/1000mm L/R

Chain Turntable
The chain turntable module is designed to change the direction of pallet travel by rotation of the pallet through any angle from 90° to 180°, whilst keeping the relationship of the pallet runners to roller conveyor the same.
- Rotation angle of 90 to 180 degrees.
- 174 pallets per hour rotating 90 degrees.
- Two rotation speeds of 2rpm and 4rpm
- Conveyor speeds of 12 m/min and 18m/min
- 900mm Chain centres
- Pallet dimensions 1200mm L/R

Beam Lift Assembly
The beam lift assembly is designed to lift pallets 200mm above the chain conveyor. The beam assembly has two standard types, low and high. Low types range from 650mm to 800mm top of chain heights. high type beam lifts range from 850mm to 1000mm top of chain height.
- Low and high type available.
- To suit 2 strand chain conveyor.
- 200mm Pallet Lift
- Maximum pallet weight 1500kg.

Further Modules and Accessories
Our commitment to the Pallet design has resulted in a large investment in this project. As a result we will be continually adding modules to our existing range.

Please contact us for details.
A robust pallet roller conveyor system. Rollers are driven tangentially by 5/8” chain in a fully enclosed side channel. The systems offers minimal backlash, easy tensioning and a 150mm roller pitch. With a load capacity of 1500kg per pallet the straight modules are available to handle up to 4500kg total conveyor load.

- Tangential chain drive
- Option of steel or polymer sprockets on rollers
- 4 mm thick side channels.
- 3 and 5 mm thick roller options.
- Chain tensioning done quickly without removing guards.
- 150mm roller pitch.
- Ability to run cables in non-drive channel. Fascia to close section off.
- Ability to fit photocells anywhere along length via clamp brackets.
- Soft start and inverter motor options available.
Heights
Range of heights available from 400 - 900mm (Top of Roller)

Motor Type
0.37, 0.55, 1.1 and 1.5 kW available

Motor Options
No Brake - No Inverter
Braked - No Inverter

Chain
5/8” pitch simplex chain

Lengths Available
1050 to 6000mm in 150mm increments

Pallet Size
1000mm L-R

Speeds Available
12m/min and 18m/min available

Electrical Power
Motors should be connected to 415V 3-phase, 50Hz supply.

<table>
<thead>
<tr>
<th>Load Capacity</th>
<th>Motor Power (kW)</th>
<th>Full Load Current (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1500kg</td>
<td>0.37</td>
<td>0.95</td>
</tr>
<tr>
<td>3000kg</td>
<td>0.55</td>
<td>1.4</td>
</tr>
<tr>
<td>4500kg</td>
<td>1.1</td>
<td>2.8</td>
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<td>3.6</td>
</tr>
</tbody>
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3/4” pitch flat sided linked chain provides a strong supporting surface to convey pallets up to 1500kg. These modules are available in two and three chain versions. Chain tensioning is quick and easy with no requirement to remove any guards..

- 1500kg pallet load capacity
- 4-mm thick side channels.
- ¾”pitch flat sided chain running on low friction, hard wearing polymer guide strips.
- Ability to run cables and pneumatics in side channel.
- Chain in same lateral position on each module. Giving a smooth clean appearance and aiding cable runs.
- Hollow crossties to enable cables to run from one side of the conveyor to the other.
**Heights**
Range of heights available from 375 - 925mm (Top of Chain)

**Motor Type**
0.75, 1.1, 1.5, 2.2, and 3.0 kW available

**Motor Options**
No Brake - No Inverter
Braked - No Inverter

**Chain**
3/4" pitch simplex chain

**Lengths Available**
1300mm to 3600mm in 50mm increments

**Pallet Size**
1200mm L-R

**Speeds Available**
12m/min and 18m/min available

**Electrical Power**
Motors should be connected to 415V 3-phase, 50Hz supply.

<table>
<thead>
<tr>
<th>Load Capacity (kg)</th>
<th>12m/min Motor Power (kW)</th>
<th>Full Load Current (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1500kg</td>
<td>0.75</td>
<td>2.0</td>
</tr>
<tr>
<td>3000kg</td>
<td>1.5</td>
<td>4.2</td>
</tr>
<tr>
<td>4500kg</td>
<td>2.2</td>
<td>5.9</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Load Capacity (kg)</th>
<th>18m/min Motor Power (kW)</th>
<th>Full Load Current (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1500kg</td>
<td>1.1</td>
<td>3.2</td>
</tr>
<tr>
<td>3000kg</td>
<td>2.2</td>
<td>3.9</td>
</tr>
<tr>
<td>4500kg</td>
<td>3.0</td>
<td>7.2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Load Capacity (kg)</th>
<th>2 Strand</th>
<th>3 Strand</th>
</tr>
</thead>
<tbody>
<tr>
<td>1500</td>
<td>113.5</td>
<td>156</td>
</tr>
<tr>
<td>3000</td>
<td>134</td>
<td>181</td>
</tr>
<tr>
<td>4500</td>
<td>159</td>
<td>221</td>
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Roller transfers are a self contained unit, which can be fitted to a new or existing chain conveyor straight. The pop-up roller is powered by two motorised rollers. With a nominal roller pitch of 150 mm for all pallet types these transfers offer exceptional support for pallets during the transfer operation.

- Tangential chain drive
- 4 mm thick side channels.
- 3 and 5 mm thick roller options.
- 150mm roller pitch.
Heights
Range of heights available from 500 - 1100mm (Top of Roller)

Motor Type
0.18 kW available

Pallet Size
800/1000mm L-R

Speeds Available
12m/min and 18m/min available

Electrical Power
Motors should be connected to 415V 3-phase, 50Hz supply.

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<th>Motor Power (kW)</th>
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<tr>
<td>0.18</td>
<td>0.58</td>
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</table>
Transfer modules combine the features and benefits of the roller systems and chain conveyor in one module. With a nominal roller pitch of 150 mm for all pallet types these transfers offer exceptional support for pallets during the transfer operation.

- 150 mm roller pitch
- 3mm thick steel rollers with steel sprockets
- ¾ “ pitch flat sided chain
- Types:
  - Single Handed Transfer to Transfer Unit
  - Single Handed Extended Transfer to Transfer Unit
**Heights**
Range of heights available from 400 - 1000mm (Top of Roller)

**Motor Type**
- Chain Conveyor 0.75, 1.1 kW
- Lift Transfer 0.55 kW
- Roller Conveyor 0.37, 0.55 kW

**Motor Options**
- No Brake - No Inverter
- Braked - No Inverter

**Chain**
3/4” pitch simplex chain

**Pallet Size**
800/1000mm L-R

**Speeds Available**
- Roller Conveyor - 12m/min and 18m/min
- Chain Transfer - 12m/min and 18m/min
- Up to 213 pallet transfers per hour

**Electrical Power**
Motors should be connected to 415V 3-phase, 50Hz supply.

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**Single Handed Extended Transfer to Transfer**
2520mm Long Chain Strands

**Single Handed Transfer to Transfer**
1600m Long Chain Strands
The turntable module is designed to change the direction of pallet travel by rotation of the pallet through any angle from 90° to 180°, whilst keeping the relationship of the pallet runners to roller conveyor the same.

- Rotation angle of 90 to 180 degrees.
- 174 pallets per hour rotating 90 degrees.
- Two rotation speeds of 2rpm and 4rpm
- Conveyor speeds of 12 m/min and 18m/min
- Pallet dimensions 800/1000mm L/R
Heights
Range of heights available from 400 - 1000mm (Top of Roller)

Motor Type
Roller Conveyor 0.37, 0.55 kW
Rotation Drive 0.18, 0.37 kW

Pallet Size
800/1000mm L-R

Speeds Available
Roller Conveyor - 12m/min and 18m/min
Chain Transfer - 12m/min and 18m/min
Up to 213 pallet transfers per hour

Electrical Power
Motors should be connected to 415V 3-phase, 50Hz supply.

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Chain Adjustment Nuts
Prior to installation these should be positioned directly underneath the roller drive unit as shown. This will ensure correct positioning for the application turning through 90° and 180° in the clockwise direction.

Note:
When installed in the above position the turntable will only rotate in the clockwise direction.
The chain turntable module is designed to change the direction of pallet travel by rotation of the pallet through any angle from 90° to 180°, whilst keeping the relationship of the pallet runners to roller conveyor the same.

- Rotation angle of 90 to 180 degrees.
- 174 pallets per hour rotating 90 degrees.
- Two rotation speeds of 2rpm and 4rpm
- Conveyor speeds of 12 m/min and 18m/min
- 900mm Chain centres
- Pallet dimensions 1200mm L/R
**Heights**  
Range of heights available from 425 - 1025mm (Top of chain)

**Motor Type**  
Chain Conveyor 0.75, 1.1 kW  
Rotation Drive 0.18, 0.37 kW

**Pallet Size**  
1200mm L-R

**Speeds Available**  
Roller Conveyor - 12m/min and 18m/min  
Chain Transfer - 12m/min and 18m/min  
Up to 213 pallet transfers per hour

**Electrical Power**  
Motors should be connected to 415V 3-phase, 50Hz supply.

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**Chain Adjustment Nuts**  
Prior to installation these should be positioned directly underneath the roller drive unit as shown. This will ensure correct positioning for the application turning through 90° and 180° in the clockwise direction.

**Note:**  
When installed in the above position the turntable will only rotate in the clockwise direction

![Diagram of Chain Turntable](Diagram.png)
The beam lift assembly is designed to lift pallets 200mm above the chain conveyor. The beam assembly has two standard types, low and high. Low types range from 650mm to 800mm top of chain heights. High type beam lifts range from 850mm to 1000mm top of chain height.

- Low and high type available.
- To suit 2 strand chain conveyor.
- 200mm Pallet Lift
- Maximum pallet weight 1500kg
Heights
Range of heights available
Low Height 650 - 800mm (Top of chain)
High Height 850 - 1000mm (Top of chain)

Motor Type
1.5 kW

Pallet Size
1200mm L-R

Pallet Lift
200mm

Speeds Available
25mm/s

Cycle of Operation
Up stroke = 10 secs
Down stroke = 10 secs

Electrical Power
Motors should be connected to 415V 3-phase, 50Hz supply.

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Double transfer modules combine the features and benefits of the roller systems and chain conveyor in one module. With a nominal roller pitch of 150 mm for all pallet types these transfers offer exceptional support for pallets during the transfer operation. The modules are available to suit the standard pallet conveyor widths.

- 150mm roller pitch.
- Bi-directional control available.
- Conveyor speeds of 12m/min and 18m/min
- Maximum pallet weight 1500kg
**Heights**
Range of heights available from 400 - 1000mm (Top of roller)

**Motor Type**
- Chain Conveyor 0.75, 1.1 kW
- Lift Transfer 0.75 kW
- Roller Conveyor 0.37, 0.55 kW

**Pallet Size**
800/1000mm L-R

**Motor Options**
- No Brake - No Inverter
- Braked - No Inverter

**Speeds Available**
- Roller Conveyor - 12m/min and 18m/min
- Chain Transfer - 12m/min and 18m/min
- Up to 184 pallet transfers per hour

**Electrical Power**
Motors should be connected to 415V 3-phase, 50Hz supply.

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</tr>
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![Double Transfers Diagram](image-url)
Centre transfer modules combine the features and benefits of the roller systems and chain conveyor in one module. With a nominal roller pitch of 150 mm for all pallet types these transfers offer exceptional support for pallets during the transfer operation. Pallets can be received and transferred in either direction.

- 150mm roller pitch.
- Conveyor speeds of 12m/min and 18m/min
- Maximum pallet weight 1500kg
Heights
Range of heights available from 500 - 1000mm (Top of roller)

Motor Type
Chain Conveyor 0.75, 1.1 kW
Lift Transfer 0.75 kW
Roller Conveyor 0.37, 0.55 kW

Pallet Size
800/1000mm L-R

Motor Options
No Brake - No Inverter
Braked - No Inverter

Speeds Available
Roller Conveyor - 12m/min and 18m/min
Chain Transfer - 12m/min and 18m/min
Up to 184 pallet transfers per hour

Electrical Power
Motors should be connected to 415V 3-phase, 50Hz supply.

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