



Flexible Conveyor Range

UNI-FLEX™



Expand
your loose loading
and unloading
capability



Increased Efficiency in Loose Loading & Unloading of Vehicles



As one of the leading manufacturer's of conveyor modules with proven build quality and reliability, we are proud to present UNI-FLEX™ – a range of expandable, flexible and durable conveyors for loose loading and unloading applications. Loose loading eliminates “dead space” created by pallets or roll-cages.

Designed to endure the rigorous demands of Distribution Centres and parcel handling hubs around the world, UNI-FLEX™ conveyors will provide cost effective handling solutions – not only for the large distribution centres but also for smaller companies requiring only single units.

UNI-FLEX™ expandable conveyors are engineered to the highest standards with reinforced ribbed, zinc plated steel side plates for additional strength, structural support across the width and heavy duty square tubing legs to ensure total stability. These conveyors are extremely flexible and are easily manoeuvred into position on braked swivel castors.



UNI-FLEX™ conveyors are easily stored as they can compact to just one third or less of their extended length.

Benefit by using UNI-FLEX™ Conveyors

- UNI-FLEX™ increases materials handling efficiencies in loose loading/unloading of vehicle trailers by up to 50%, offering rapid return on investments.
- Meets all requirements of Manual Handling Legislation.
- SEW EuroDrive AC Motors - Conveyor speed is fully adjustable from 10 to 40 metres per minute; 0.09Kw for 230V/240V single phase supply.
- Motor Overload Protection - all drive motors have individual overload protection and LED warning to clearly indicate trip out.



- State-of-the-Art, all steel electrical control cabinets sealed to IP55 standard.
- Conveyor fully complies with all CE legislation.
- Easily moved and relocated for multi-door applications (unlike telescopic boom conveyors).



- Side plates manufactured from high quality, bright zinc plated steel plate with ribbed design to ensure maximum strength and durability.
- Fully bolted design - not riveted.
- Large, welded steel handles, powder coated in Yellow, provide positive grip points for safe and easy manoeuvring of conveyor.

- All support legs have welded braces for additional strength and rigidity.



- Skatewheel Axle Support - jig welded and spanning the conveyor width, our one-piece "Constantly Vertical" all steel skatewheel and axle support ensures maximum strength throughout.

- Zero-Pressure accumulation provides "non touch" pressure free product queuing.
- Indexing – electronically controlled spacing of packages and cartons for easier handling and bar code scanning.





UNI-FLEX™ Powered Roller Expandable Conveyor

Powered Applications

Perfect for vehicle loading and unloading, parcel distribution centres and depot's, packaging, machine-to-machine-linking and all cross docking applications.

Very easy to quickly move in or out of trucks for faster, safer, easier loading and unloading.

- Support legs are fully adjustable from 770mm to 1095mm as standard.
- 150 Kg's load capacity per linear metre based on a level working height.
- 600mm and 750mm standard conveyor widths (900mm width option).
- All support legs have welded braces for additional strength and rigidity.
- Heavy Duty Castors – 160mm x 50mm swivel castors for maximum manoeuvrability. The castor wheel incorporates a foot operated brake.
- Conveyor fully complies with all CE legislation.

Conveyor Specifications

600mm width			
Model Number	Standard Length Compacted to Expanded	Support Legs per Unit	Roller per Axle
UFP/ROS/0600/03.75	1.3 mtrs – 3.75 mtrs	4	1
UFP/ROS/0600/07.50	2.5 mtrs – 7.50 mtrs	7	1
UFP/ROS/0600/11.25	3.8 mtrs – 11.25 mtrs	10	1
UFP/ROS/0600/15.00	5.0 mtrs – 15.00 mtrs	13	1
UFP/ROS/0600/17.50	5.8 mtrs – 17.50 mtrs	15	1

750mm width			
Model Number	Standard Length Compacted to Expanded	Support Legs per Unit	Roller per Axle
UFP/ROS/0750/03.75	1.3 mtrs – 3.75 mtrs	4	1
UFP/ROS/0750/07.50	2.5 mtrs – 7.50 mtrs	7	1
UFP/ROS/0750/11.25	3.8 mtrs – 11.25 mtrs	10	1
UFP/ROS/0750/15.00	5.0 mtrs – 15.00 mtrs	13	1
UFP/ROS/0750/17.50	5.8 mtrs – 17.50 mtrs	15	1

UNI-FLEX™ Powered roller conveyors can be manufactured in custom lengths to suit your individual conveying application. Rollers are at 125mm centres when conveyor is fully extended.

Conveyor Features

- **Roller Specification** – 40mm dia, steel zinc plated tube with twin grooves and full precision bearings for maximum life. Roller drive via heavy duty polyurethane drive belts.
- **Electrical Control Cabinet** – Our State-of-the-Art steel cabinet houses a top specification AC Inverter with keypad. The cabinet is mounted on a lockable sliding tray to enable easy user access for any adjustments or maintenance.



Conveyor Options

SMART OPTICS – PEC Package Stop

UNI-FLEX™ powered conveyors can be fitted with under roller photo optic sensors which will act as an electronic package stop. When a carton or package reaches the discharge end of the conveyor it will automatically stop. When the package is removed the conveyor will start automatically until the next package travels to the discharge point again.



Roller Centres

125mm as standard when the conveyor is fully extended. Optional 75mm and 100mm roller centres can be supplied for the conveying of smaller packages or cartons. Please note that optional roller centres will affect the conveyor compacted length.



Conveyor Connecting Bracket

Quickly and easily connects two or more conveyors together to expand your system.



UNI-FLEX™ Gravity Roller Expandable Conveyor

Gravity Applications

Perfect for conveying different sized boxes with irregular bases or bags etc.

Very easy to quickly manoeuvre in or out of trucks for faster, safer, easier loading and unloading.

- Support legs are fully adjustable from 730mm to 1055mm as standard.
- 250 Kg's load capacity per linear metre based on a level working height.
- 600mm and 750mm standard conveyor widths (900mm width optional).
- All support legs have welded braces for additional strength and rigidity.
- Heavy Duty Castors – 125mm x 36mm swivel castors for maximum manoeuvrability. The castor wheel incorporates a foot operated brake.

Conveyor Specifications

600mm width			
Model Number	Standard Length Compacted to Expanded	Support Legs per Unit	Roller per Axle
UFG/ROS/0600/03.75	1.3 mtrs – 3.75 mtrs	4	2
UFG/ROS/0600/05.00	1.7 mtrs – 5.00 mtrs	5	2
UFG/ROS/0600/06.25	2.1 mtrs – 6.25 mtrs	6	2
UFG/ROS/0600/07.50	2.5 mtrs – 7.50 mtrs	7	2
UFG/ROS/0600/08.75	2.9 mtrs – 8.75 mtrs	8	2
UFG/ROS/0600/10.00	3.3 mtrs – 10.0 mtrs	9	2

750mm width			
Model Number	Standard Length Compacted to Expanded	Support Legs per Unit	Roller per Axle
UFG/ROS/0750/03.75	1.3 mtrs – 3.75 mtrs	4	2
UFG/ROS/0750/05.00	1.7 mtrs – 5.00 mtrs	5	2
UFG/ROS/0750/06.25	2.1 mtrs – 6.25 mtrs	6	2
UFG/ROS/0750/07.50	2.5 mtrs – 7.50 mtrs	7	2
UFG/ROS/0750/08.75	2.9 mtrs – 8.75 mtrs	8	2
UFG/ROS/0750/10.00	3.3 mtrs – 10.0 mtrs	9	2

UNI-FLEX™ Gravity roller conveyors can be manufactured in custom lengths to suit your individual conveying application. Roller centres are 125mm when conveyor is fully extended.

Conveyor Features



- **Twin Roller Design** – 40mm dia. heavy duty, steel zinc plated tube with semi-precision bearings. Also available with High Impact PVC Plastic Rollers for the conveying of sensitive loads.
- **Twin Roller Axle Support** – jig welded and spanning the conveyor width, our one-piece “Constantly Vertical” all steel roller and axle support ensures maximum strength throughout.

Conveyor Options



Package Stop

Drop Down Package Stop – prevents cartons and packages from falling off the conveyor at the discharge end. Simply drops down for storage when not required or when connecting to another UNI-FLEX™ conveyor.



Roller Centres

125mm as standard when the conveyor is fully extended. Optional 75mm and 100mm roller centres can be supplied for the conveying of smaller packages or cartons. Please note that optional roller centres will affect the conveyor compacted length.

Conveyor Connecting Bracket

Quickly and easily connects two or more conveyors together to expand your system.



160mm x 50mm Swivel Castors

A larger diameter castor for easier rolling over rough or uneven surfaces. Please note this adds 35mm to the conveyor height.





UNI-FLEX™ Gravity Skatewheel Expandable Conveyor

Gravity Applications

A rugged conveyor ideally suited for many roles from packaging and flexible assembly lines to loading and unloading of trucks and containers. The conveyor is

easy to move around on heavy duty castors and simply compacts to a quarter of its size when not in use.

- Support legs are fully adjustable from 740mm to 1065mm as standard.
- 300 Kg's load capacity per linear metre based on a level working height.
- 600mm and 750mm standard conveyor widths. (900mm width optional).
- All support legs have welded braces for additional strength and rigidity.
- Heavy Duty Castors – 125mm x 36mm swivel castors for maximum manoeuvrability. The castor wheel incorporates a foot operated brake.

Conveyor Specifications

600mm width			
Model Number	Standard Length Compacted to Expanded	Support Legs per Unit	Skate Wheels per Axle
UFG/SWS/0600/03.75	938mm – 3.75 mtrs	4	9
UFG/SWS/0600/05.00	1.3 mtrs – 5.00 mtrs	5	9
UFG/SWS/0600/06.25	1.6 mtrs – 6.25 mtrs	6	9
UFG/SWS/0600/07.50	1.9 mtrs – 7.50 mtrs	7	9
UFG/SWS/0600/08.75	2.2 mtrs – 8.75 mtrs	8	9
UFG/SWS/0600/10.00	2.5 mtrs – 10.0 mtrs	9	9

750mm width			
Model Number	Standard Length Compacted to Expanded	Support Legs per Unit	Skate Wheels per Axle
UFG/SWS/0750/03.75	938mm – 3.75 mtrs	4	11
UFG/SWS/0750/05.00	1.3 mtrs – 5.00 mtrs	5	11
UFG/SWS/0750/06.25	1.6 mtrs – 6.25 mtrs	6	11
UFG/SWS/0750/07.50	1.9 mtrs – 7.50 mtrs	7	11
UFG/SWS/0750/08.75	2.2 mtrs – 8.75 mtrs	8	11
UFG/SWS/0750/10.00	2.5 mtrs – 10.0 mtrs	9	11

UNI-FLEX™ Skatewheel conveyors can be manufactured in custom lengths to suit your individual conveying application. Skatewheel's are at 125mm centres when conveyor is fully extended.

Conveyor Features

- **Skatewheel Axle Support** – Jig welded and spanning the conveyor width, our one-piece “Constantly Vertical” all steel skatewheel and axle support ensures maximum strength throughout.



Conveyor Options

Package Stop

Drop Down Package Stop – prevents cartons and packages from falling off the conveyor at the discharge end. Simply drops down for storage when not required or when connecting to another UNI-FLEX™ conveyor.

Skatewheels

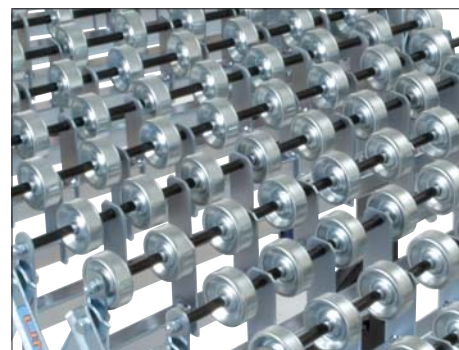


Our UNI-FLEX™ standard is 49mm dia heavy duty zinc plated steel suitable for all flat based loads. We can also offer a 48mm dia plastic skatewheel for lighter duty applications if required. Please note that the conveyor load capacity is reduced to 80 kg's per linear metre with plastic skate wheels.



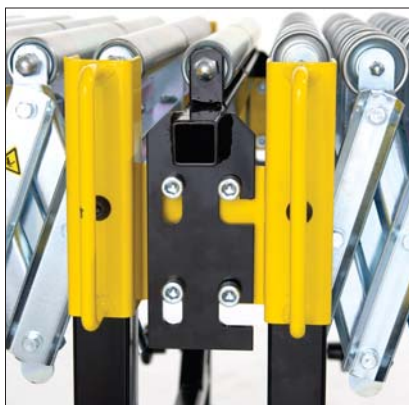
Skatewheel Centres

125mm as standard when the conveyor is fully extended. Optional 75mm and 100mm wheel centres can be supplied for the conveying of smaller packages or cartons. Please note that optional wheel centres will affect the conveyor compacted length.



Conveyor Connecting Bracket

Quickly and easily connects two or more conveyors together to expand your system.



160mm x 50mm Swivel Castors

A larger diameter castor for easier rolling over rough or uneven surfaces. Please note this adds 35mm to the conveyor height.





UNI-FLEX™ Trailer Loader

The UNI-FLEX™ Trailer Loader is the perfect solution for loading or unloading trailers etc from facilities **WITHOUT DOCK LEVELLERS – OR LOADING DOCKS.**

The UNI-FLEX™ Trailer Loader features an inclined belt conveyor, which includes a UNI-FLEX™ Powered Expandable Flexible conveyor mounted to a heavy duty (self levelling) tongue arrangement. The conveyor is then simply extended into the trailer for easy loading and unloading of parcels, packages and totes etc.

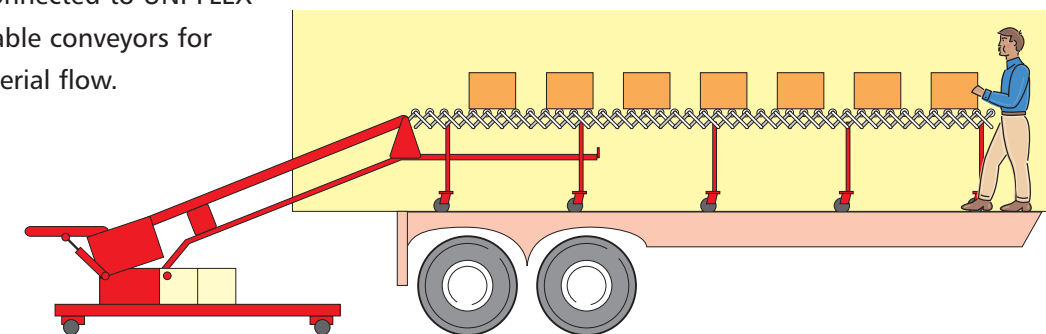
Our options include either a fully powered roller extending tongue, a gravity skatewheel or a gravity roller extending tongue if required.

Easy hydraulic height adjustment via an on-board electrical power pack for both the infeed belt boom and main belt boom, which provides the exact load and unload level required. The unit is easily manoeuvred on heavy duty large diameter robust swivel castors to enable easy location on multi-door applications.

The Trailer Loader has a maximum trailer penetration of 8750mm making it ideal for loading and unloading both 20 ft and 40 ft trailers and shipping containers.

UNI-FLEX™ Trailer Loader – Features

- Easy to use and setup.
- Easy to manoeuvre for multi-door applications.
- Option of fully powered extendible power roller tongue, gravity skatewheel or gravity roller extending tongue.
- Can be easily connected to UNI-FLEX™ flexible expandable conveyors for continuous material flow.



Technical Data

Electrics:	Single Phase x 230V x 50Hz
Drive Motor:	0.37 kW
Belt Material:	Two Ply – Grip Top Profile. Endless Vulcanised.
Belt Width:	600mm
Belt Speed:	22 Metres Per Minute – nominal
Weight:	1700 Kgs approx.
Chassis Construction:	Heavy Gauge RHS Channel Fabricated Design.
Castors:	200mm dia – Heavy Duty Swivel.
Forward/Reverse/Stop:	Controls located at each end of infeed and main belt booms.

PARCELVEYOR™

UNI-XU presents PARCELVEYOR™ - A unique new range of conveyor modules especially designed for the parcel handling and logistics marketplace.

The Drive System is unique to UNI-XU. We utilise a multi grooved steel zinc plated friction tube and drive the conveyor rollers via a heavy duty polyurethane round section belt.

Please consult our technical department for application suitability.



- Full jig welded framework.
- 3mm thick steel "Z" section sideframe.
- Crossbraces welded at 600mm centres.
- 50mm diameter steel zinc plated rollers at 60mm pitch.
- Loads of upto 150kg easily conveyed.
- Support stands at 1500mm centres.
- 10 - 60 metres per minute linespeed available.

Our range comprises:

- Straight Track.
- 30°, 45°, 60° and 90° Taper Roller Bends.
- Merge Sections.
- Pop Up Stops.
- Switch Sorter Units
- And many other ancillaries.



"Flexible Thinking"

Presented by



Other products in the UNI-XU Range includes:-

- Lineshaft Conveyors
- Pallet Conveyors
- Belt Conveyors
- High Speed Switch Sorter
- Belt Under Roller Conveyors
- Motorised Roller Conveyors
- Gravity Conveyors
- Stainless Steel Conveyors
- Conveyor Spares and Rollers only