

**STEWART GILL
CONVEYORS Ltd**



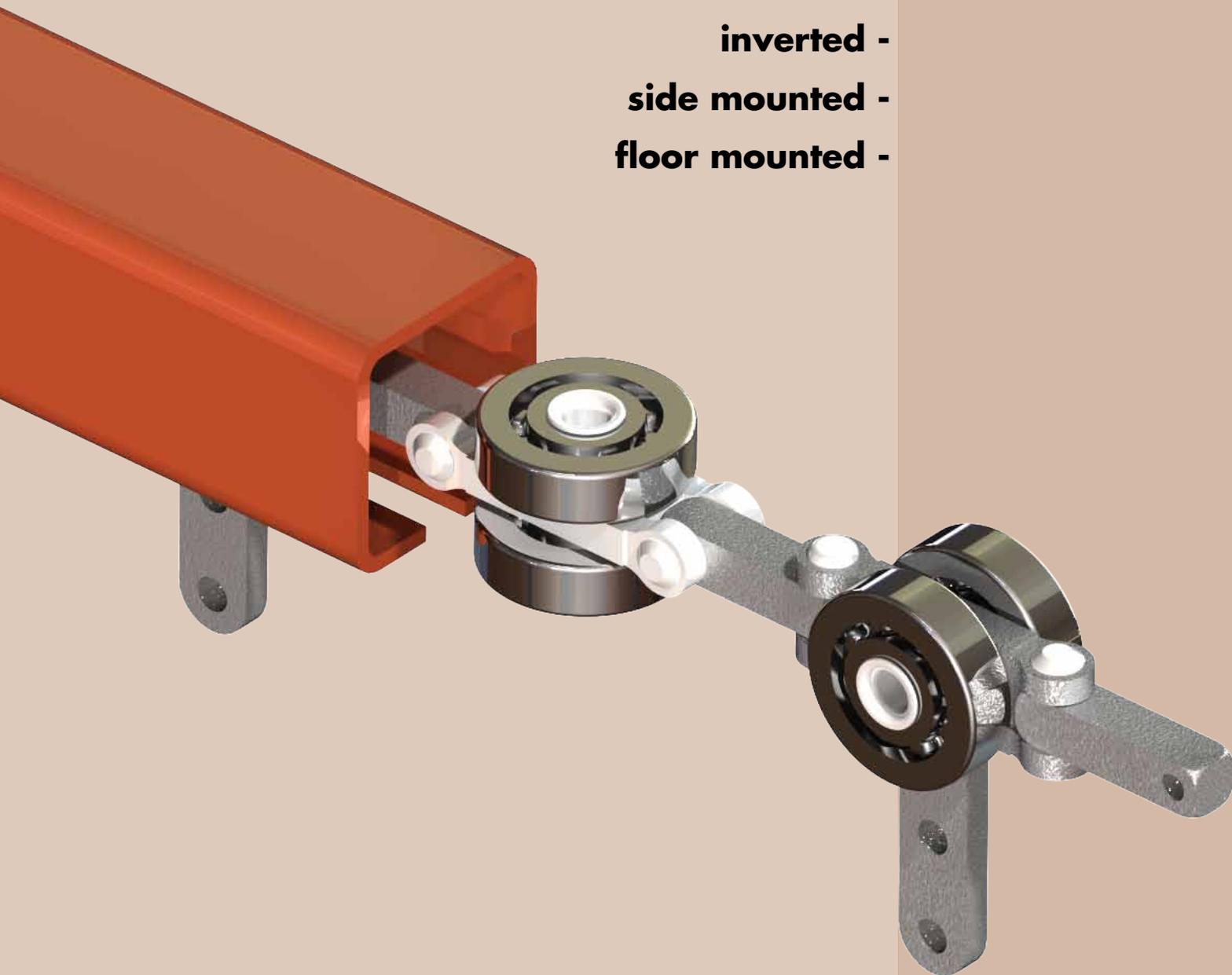
550M STS SYSTEM

overhead -

inverted -

side mounted -

floor mounted -



RAILTECHNIEK VAN HERWIJNEN BV

SPECIALISTS IN OVERHEAD CONVEYOR SYSTEMS

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Disclaimer

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550M STS

The 550M STS is a hard wearing, heavy duty system suitable for use in a wide variety of applications. In particular, the 550M is ideal pendant loads of up to 113kg, and can be found in a cross - section of sectors such as domestic appliances, automotive parts, sports and lesuire goods, garment handling and food processing industries.

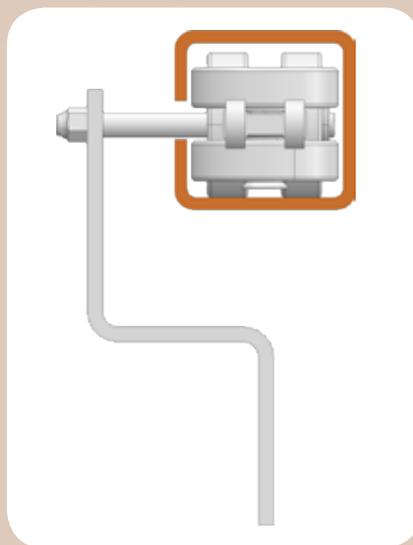
With its closed track construction, the 550M has brought new levels of hygiene to locations where standards are constant scrutiny. This has been advanced still further in recent years by the availability of bend and track components in stainless steel.

The 550M STS is available in the following configurations:

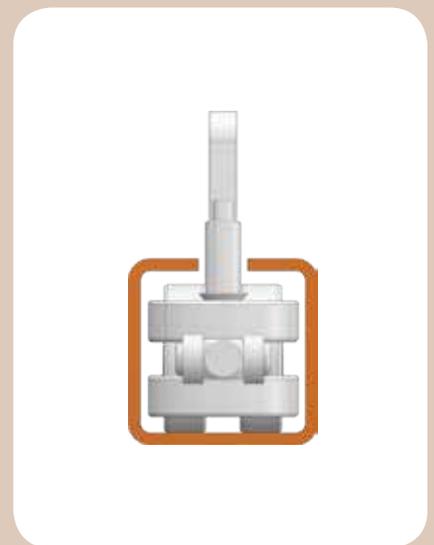
Standard



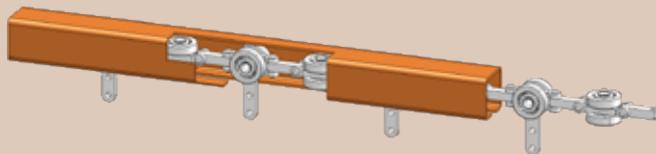
Light Duty Side Mounted



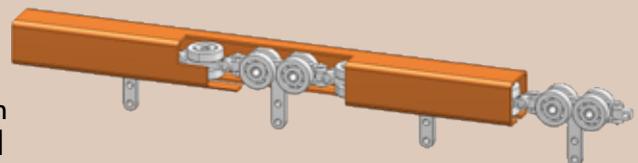
Inverted



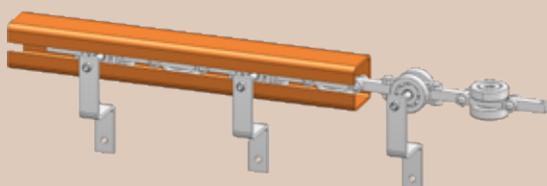
Standard configuration with 2 wheel load link



Standard configuration with 4 wheel load link



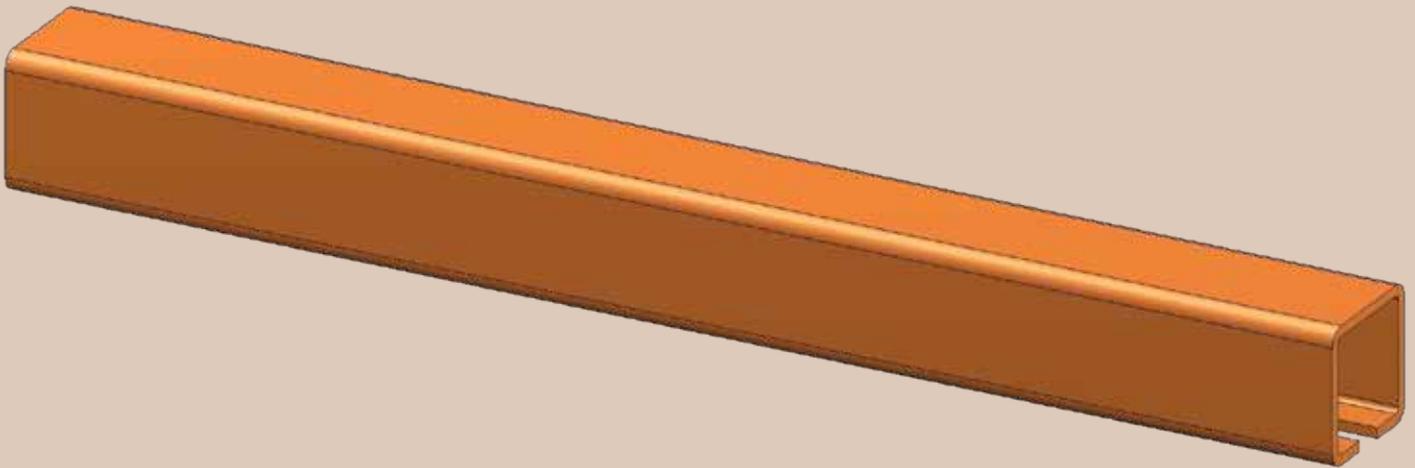
Side mounted configuration with single support pin and for heavier application 2 pin



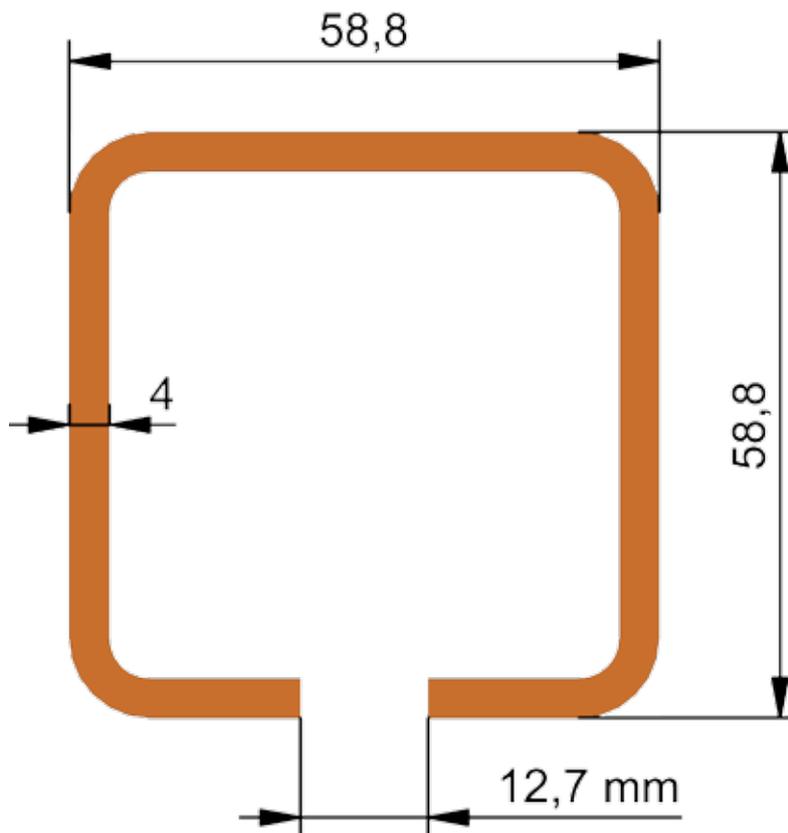
4 Track

Square tubular section specially manufactured from cold rolled mild steel to Stewart Gill specifications.

- Size** 58.8 x 58.8mm external x 4mm thick with a 12.7mm slot on the underside
- Weight** 4.6kg per metre
- Length** Standard length 6 mtr.
- Finish** Standard painted orange (RAL 2003) or untreated. Galvanised and stainless steel finish available at extra cost.



Track dimensions



Standard STS bolted track connectors and hanger brackets are supplied for attaching supports/down hangers, with a third point fixing on all horizontal bends, according to the loads carried at following recommended intervals:

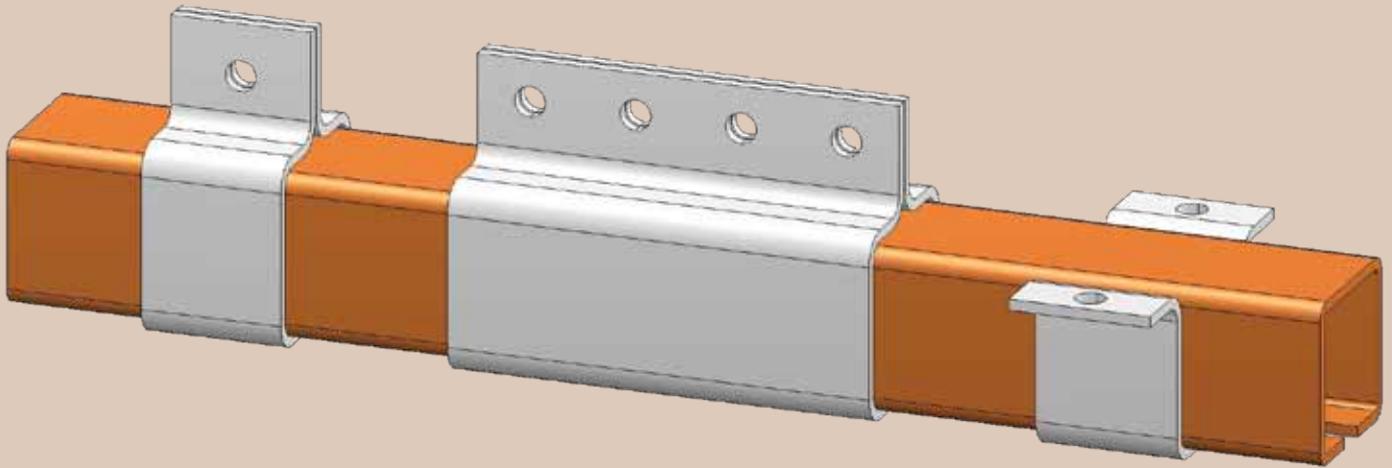
Support intervals

Distributed load per meter in kg	15	30	60	90	120	150
Safe span between supports in meters	4.30	3.35	2.74	2.34	2.22	2.00

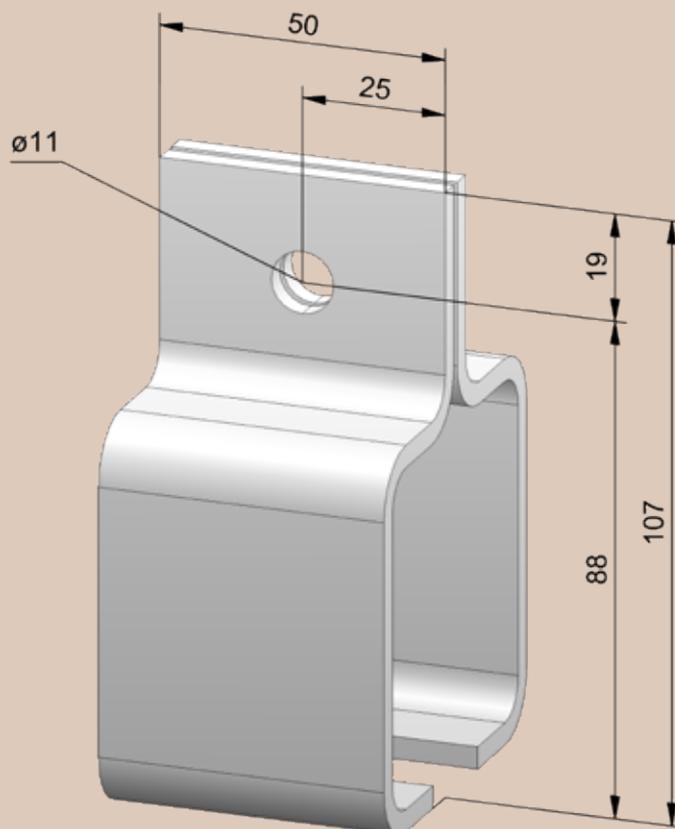
Track hanger bracket

Track connector

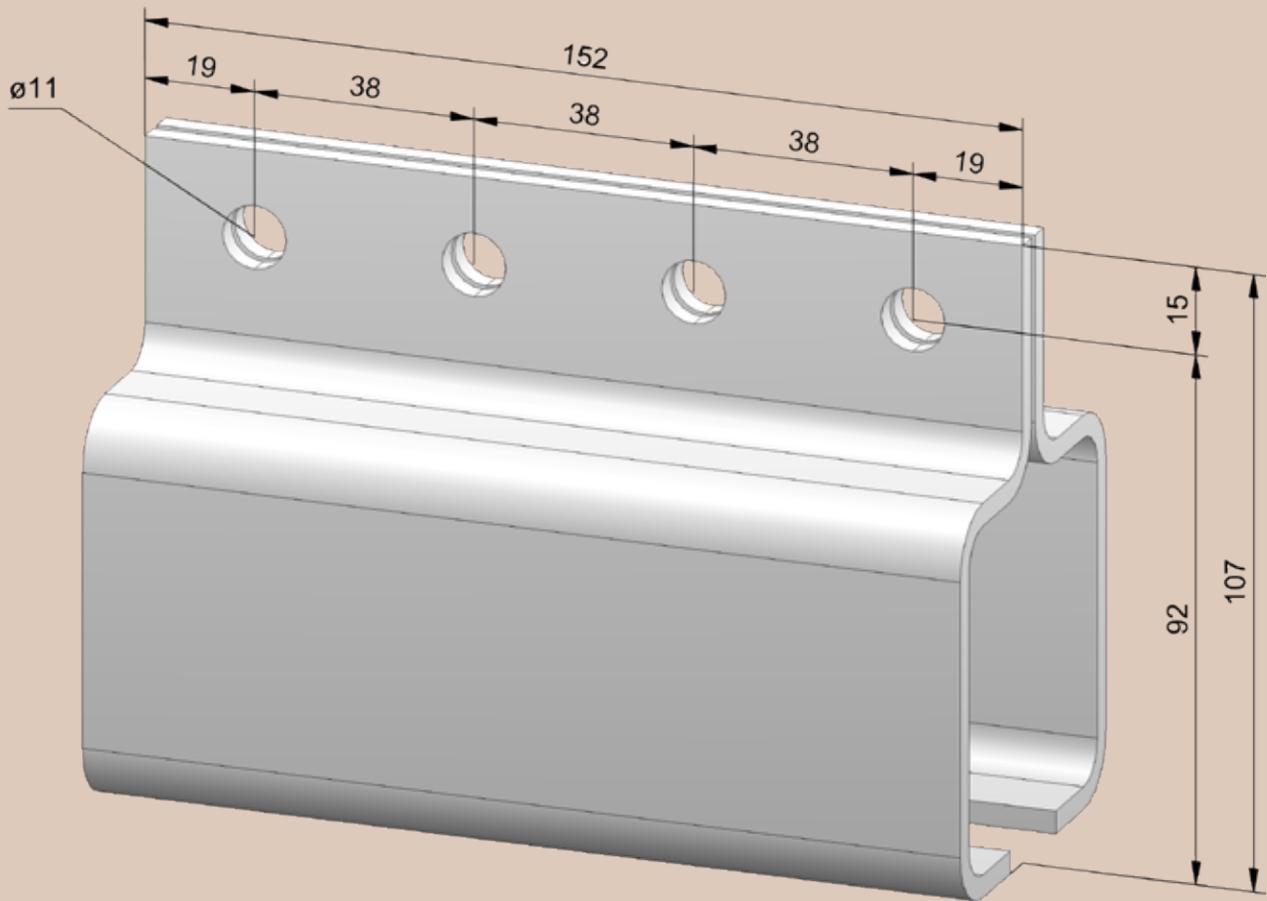
"Z" bracket



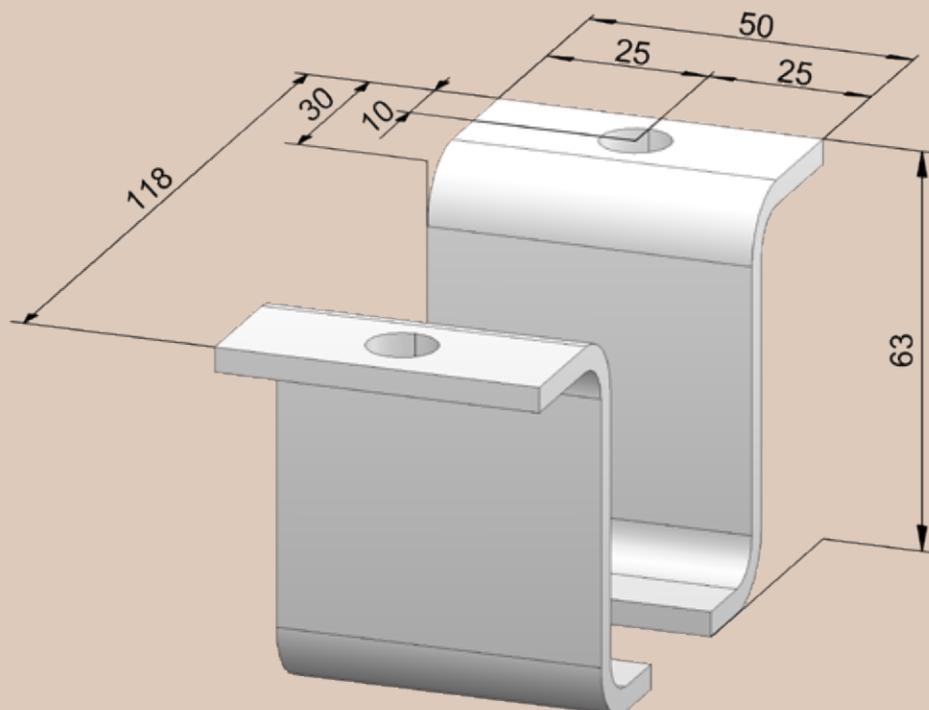
Track hanger bracket dimensions



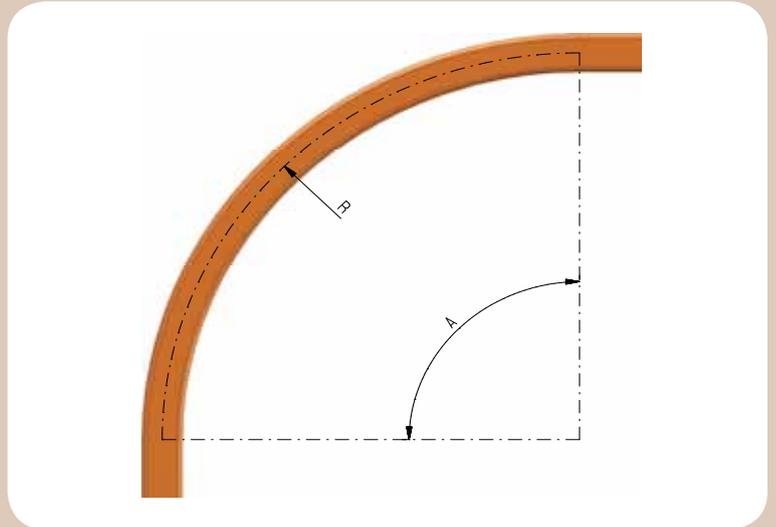
Track connector dimensions



"Z" bracket dimensions



Additional cross bracing may be required to minimise horizontal movement. Dependant on installation method, please refer to SGC installation manual.

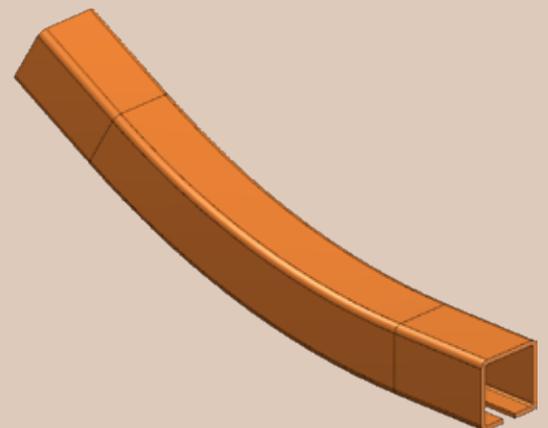
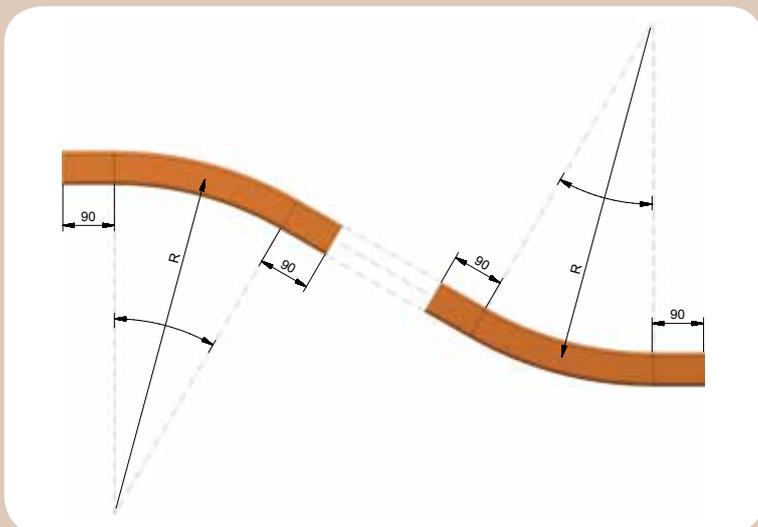
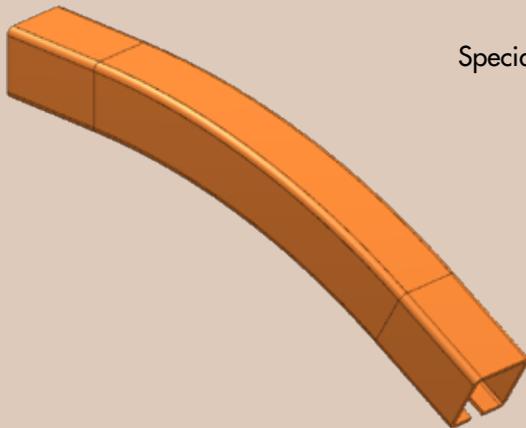


Standard bends are supplied complete with 90mm straight at each end to facilitate assembly into track with STS connectors.

Standard angles 30°, 45°, 90°, 180°.

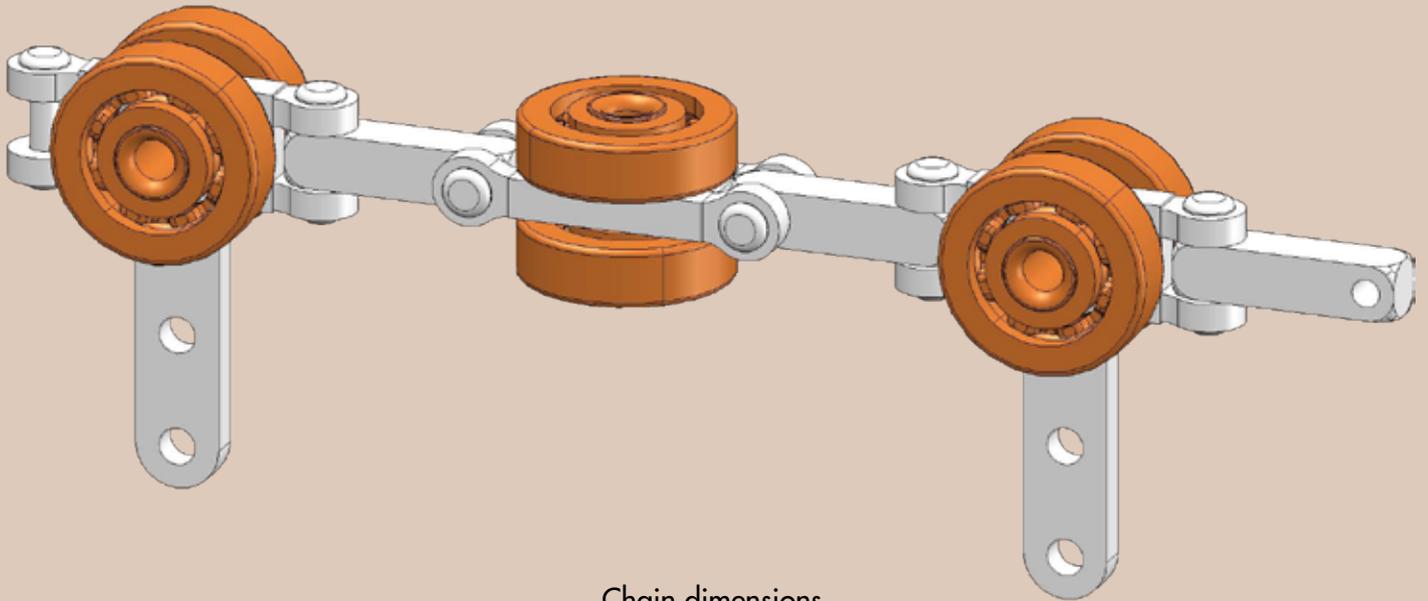
Standard radii 305mm for 76.2mm pitch chain.
610mm for 101.6mm pitch chain.

Special bends can be supplied at extra cost.

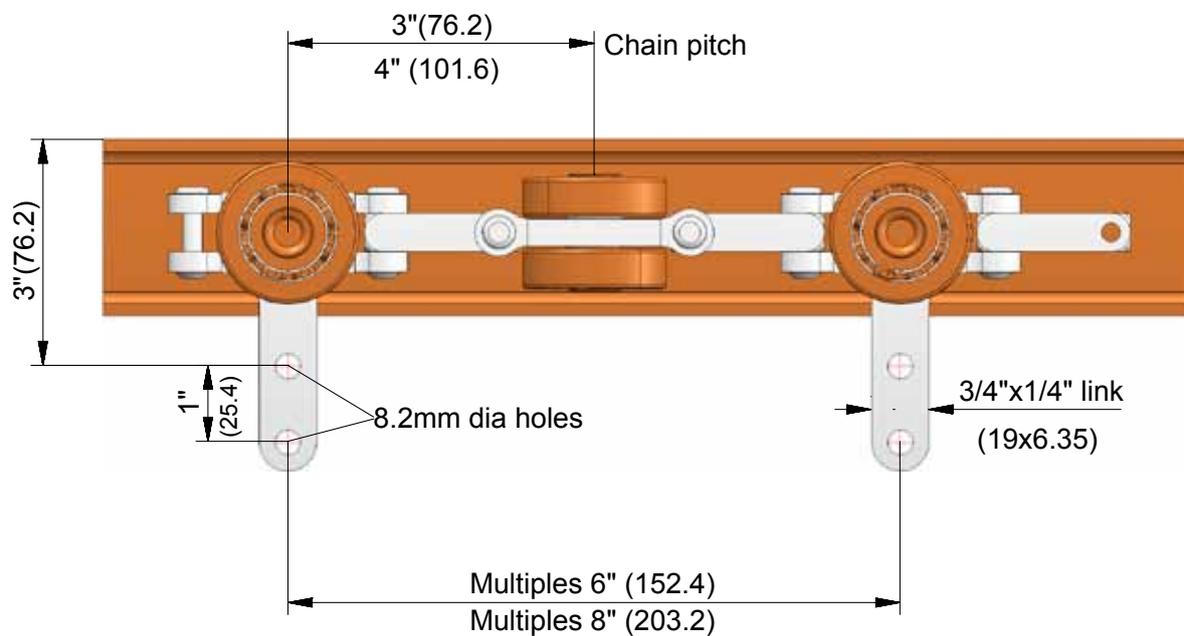


STS 550M Chain

- Type** Fully bi-planar design.
- Construction** Forget steel load links and steel bi-planar blocks, all connected by high tensile steel rivets.
- Finish** Zinc plated to give protection and a high quality finish.
- Pitch sizes** 76.2mm with load links at 152.4mm intervals, 101.6mm with load links at 203.2mm intervals.
- Strength** Safe working chain pull 550kg.
- Option** Guide rollers can be fitted to load links for applications where greater product stability is required.



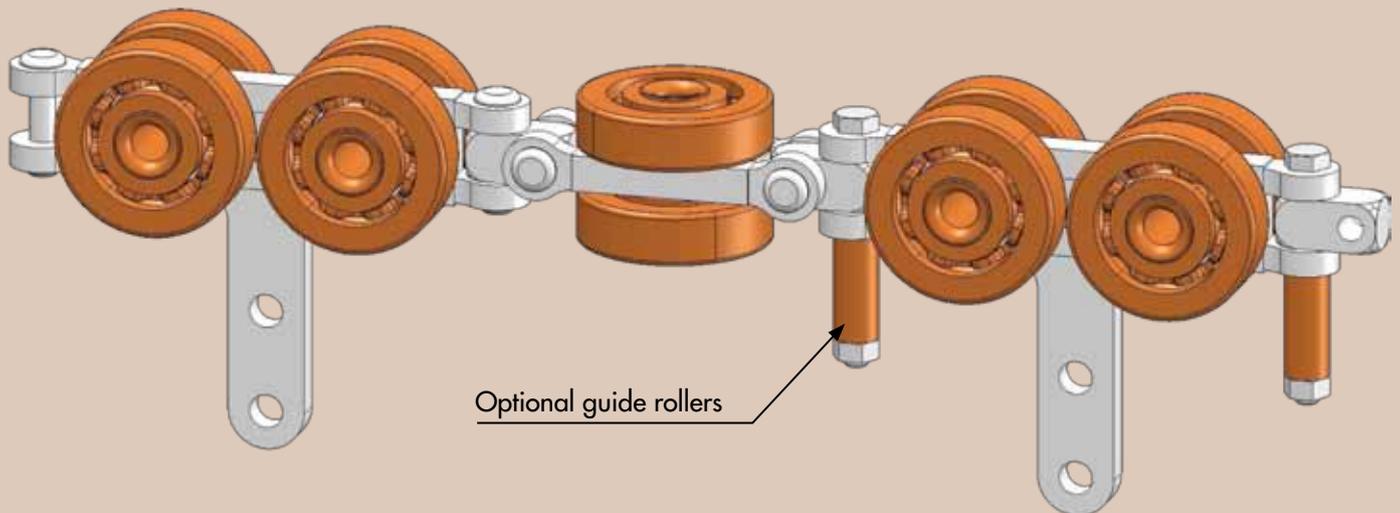
Chain dimensions



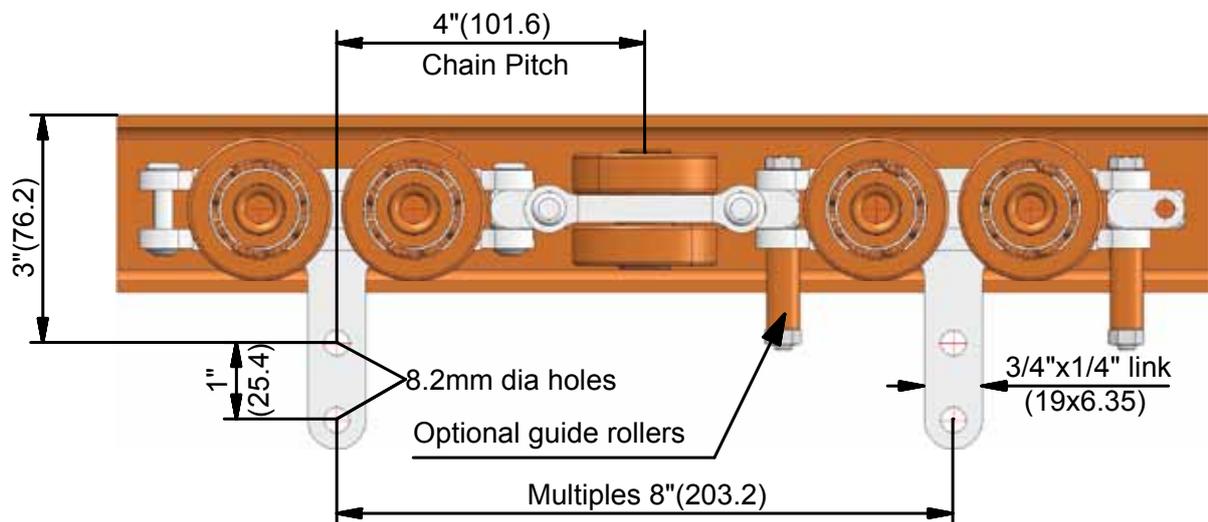
	Roller options			
	Max pendant load (kg)	Max/Min operating temp	Weight/metre (kg) 3"/4"	Approx: value
Semi shielded ribbon cage ball bearing	60	260/-32°C	5.4/4.2	0.05
Nylon MDS	27	93/-32°C	3.4/2.7	0.15

STS 550M Chain with 4 wheel load link

For extra heavy loads the chain can be fitted with 4 wheel load links. The rollers are standard semi shielded ribbon cage ball bearings. Max load per link is 155 kg. 4 wheel load links with extra vertical guide rollers are available where additional product stability is required.



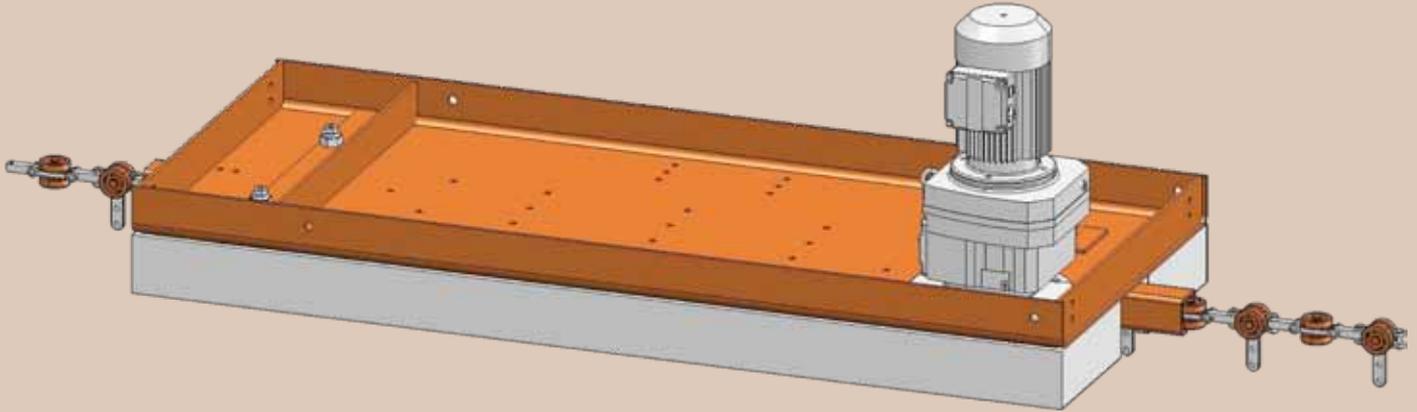
Chain dimensions for chain with 4 wheel load links



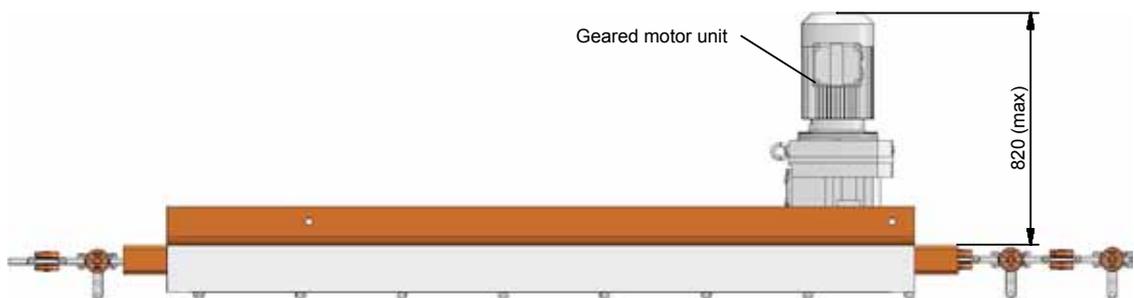
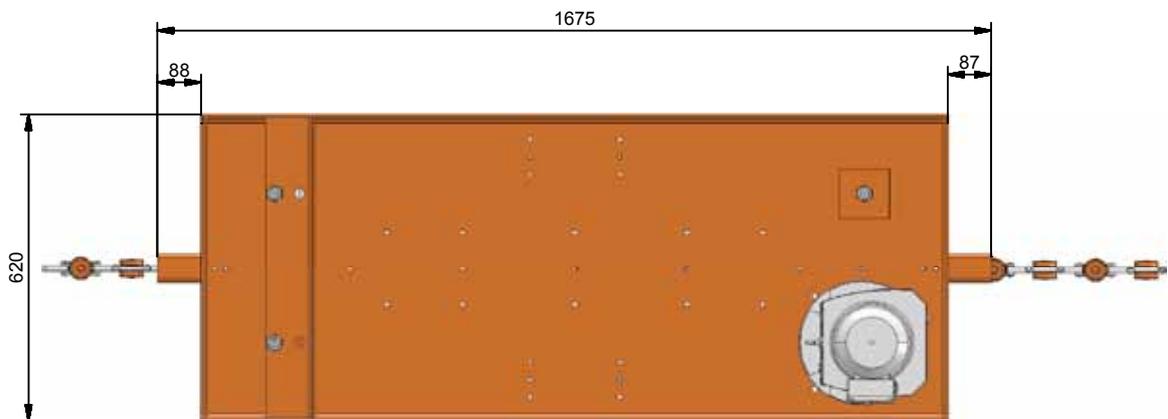
10 Drive Unit

Heavy Duty (Caterpillar type)

Type	Linear straight through type, mounted in a straight section of track.
Drive method	Twin drive chains with pocket castings, engaging the horizontal chain rollers.
Motor/Gearbox	In line Helical geared motor unit. Available with a Varimot base giving 5:1 manual speed control, alternatively a fixed speed unit may be supplied with either an AC inverter or DC thyristor speed controller.
Overload protection	Fitted with a mechanical shear pin device as standard, to protect the drive mechanism and conveyor chain in the event of a jam up. Alternative safety devices available at extra cost.
Guards	Fitted as standard in accordance with Health & Safety at Work requirements.



Dimensions 550M drive unit

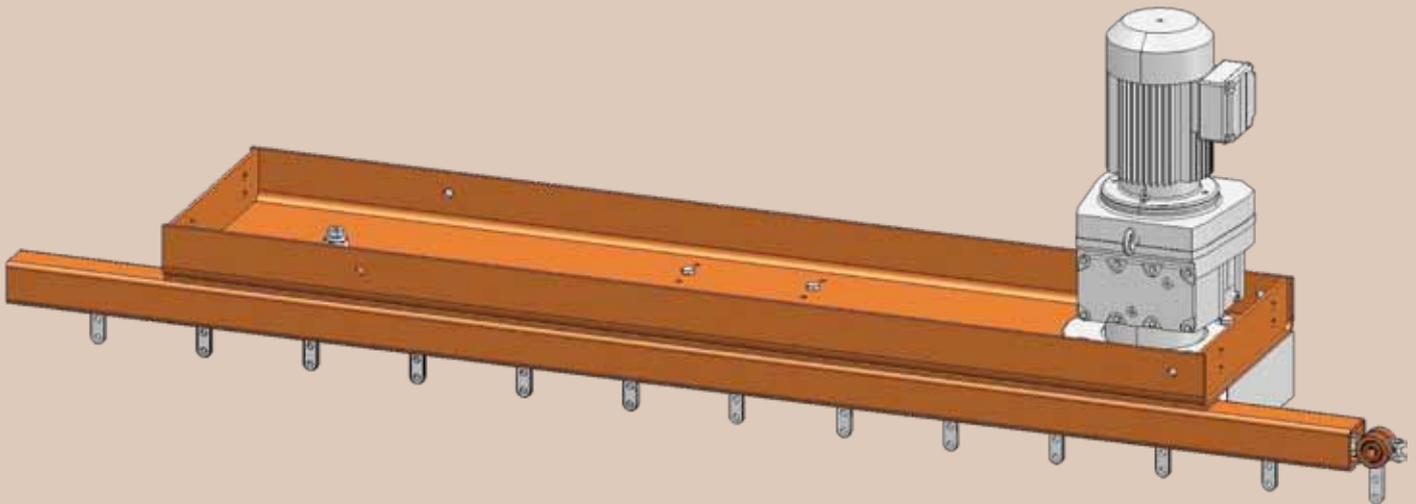


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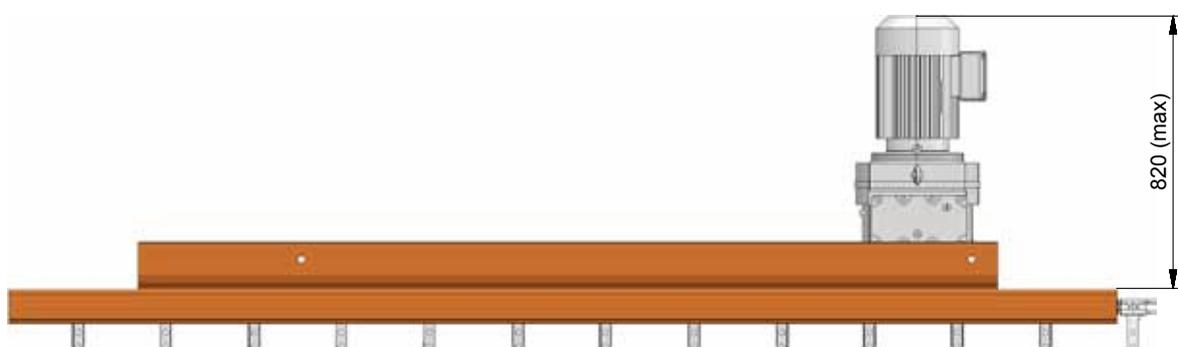
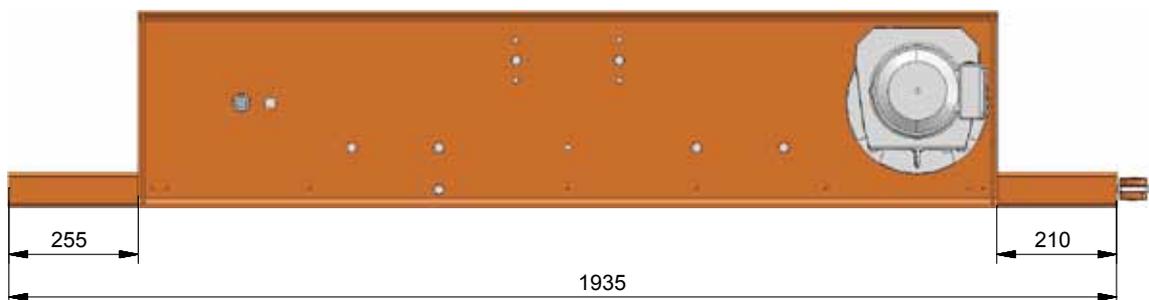
For installations, when the available headroom is insufficient to allow an inline motor gear unit to be used a 90 degree unit can be utilised.

Light Duty (Caterpillar type)

Type	Linear straight through type, mounted in a straight section of track.
Drive method	Single drive chains with pocket castings, engaging the horizontal chain rollers.
Motor/Gearbox	In line Helical geared motor unit. Available with a Varimot base giving 5:1 manual speed control, alternatively a fixed speed unit may be supplied with either an AC inverter or DC thyristor speed controller.
Overload protection	Fitted with a mechanical shear pin device as standard, to protect the drive mechanism and conveyor chain in the event of a jam up. Alternative safety devices available at extra cost.
Guards	Fitted as standard in accordance with Health & Safety at Work requirements.



Dimensions 275L drive unit

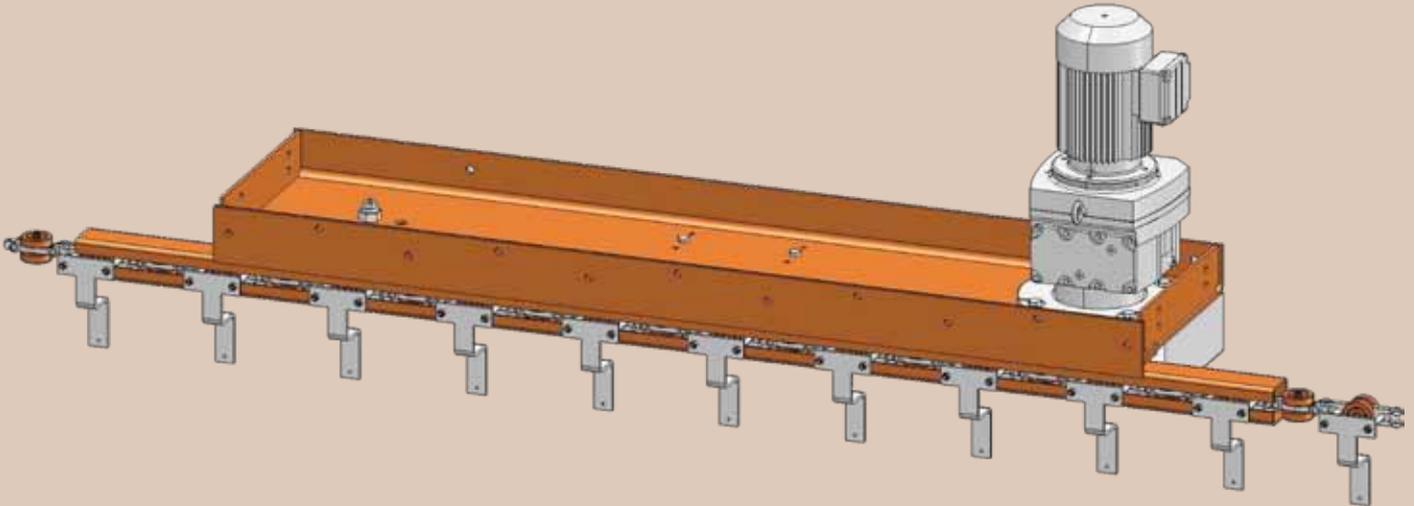


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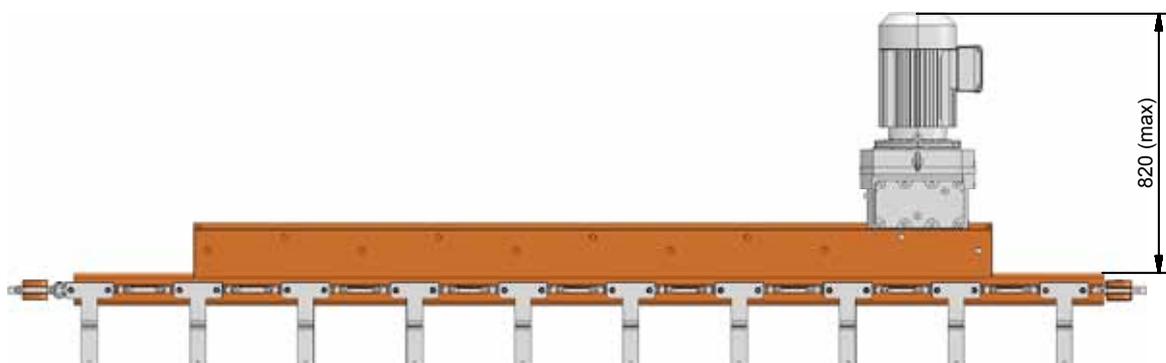
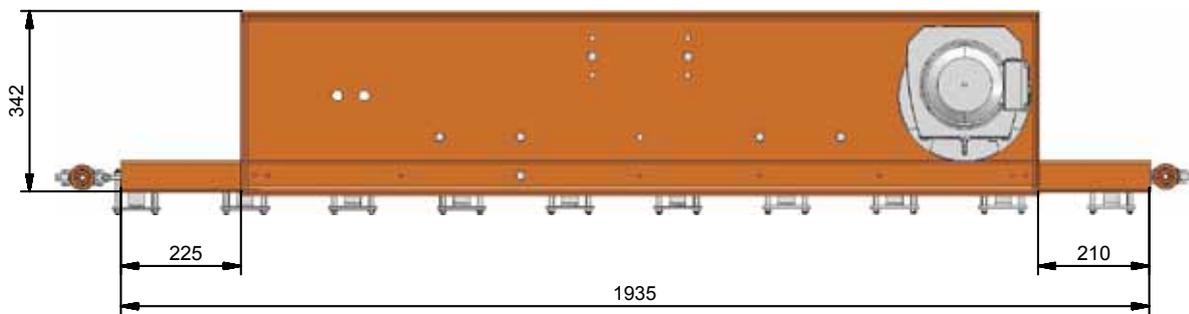
For installations, where the available headroom is insufficient to allow an inline motor gear unit to be used a 90 degree unit can be utilised.

Light Duty Side Mounted (Caterpillar type)

Type	Linear straight through type, mounted in a straight section of track.
Configurations	Eighter left or right handed.
Drive method	Single drive chains with pocket castings, engaging the horizontal chain rollers.
Motor/Gearbox	In line Helical geared motor unit. Available with a Varimot base giving 5:1 manual speed control, alternatively a fixed speed unit may be supplied with either an AC inverter or DC thyristor speed controller.
Overload protection	Fitted with a mechanical shear pin device as standard, to protect the drive mechanism and conveyor chain in the event of a jam up. Alternative safety devices available at extra cost.
Guards	Fitted as standard in accordance with Health & Safety at Work requirements.



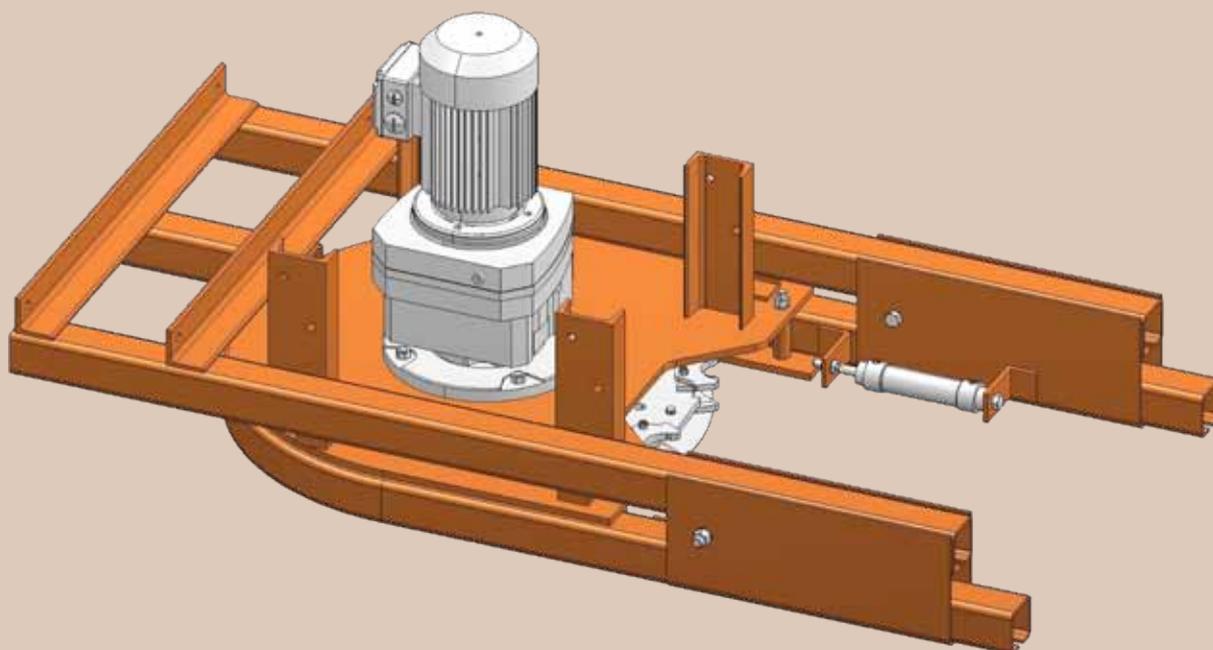
Dimensions 275L side mounted drive unit



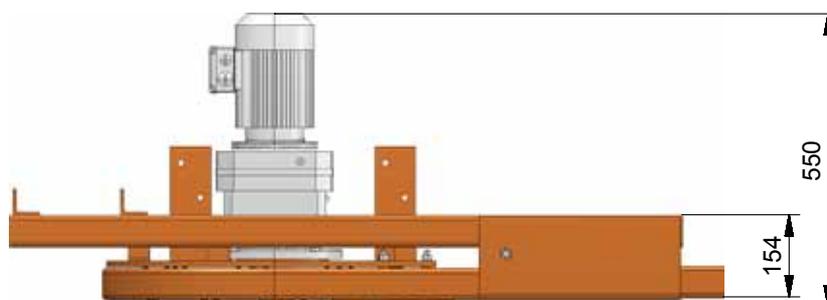
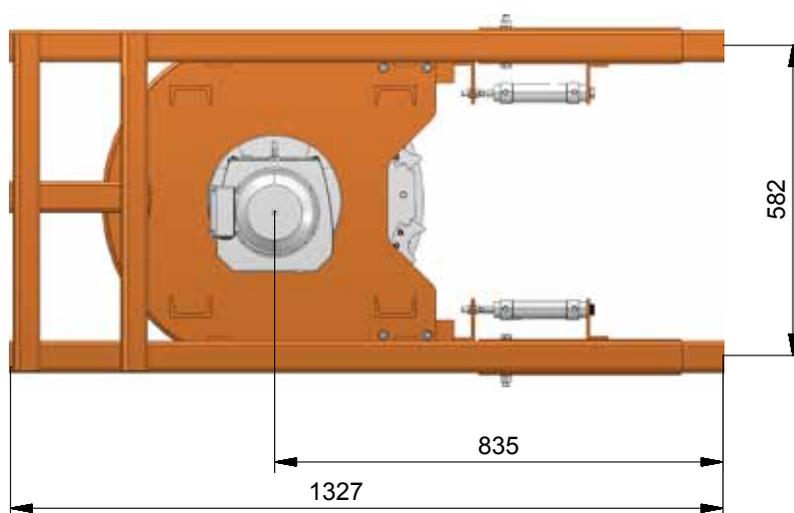
Remark

For installations, when the available headroom is insufficient to allow an inline motor gear unit to be used a 90 degree unit can be utilised.

Heavy Duty Combined Drive - Tension unit (Utilizing Pleumatic Cylinders)



Dimensions 180 degree drive - Tension unit



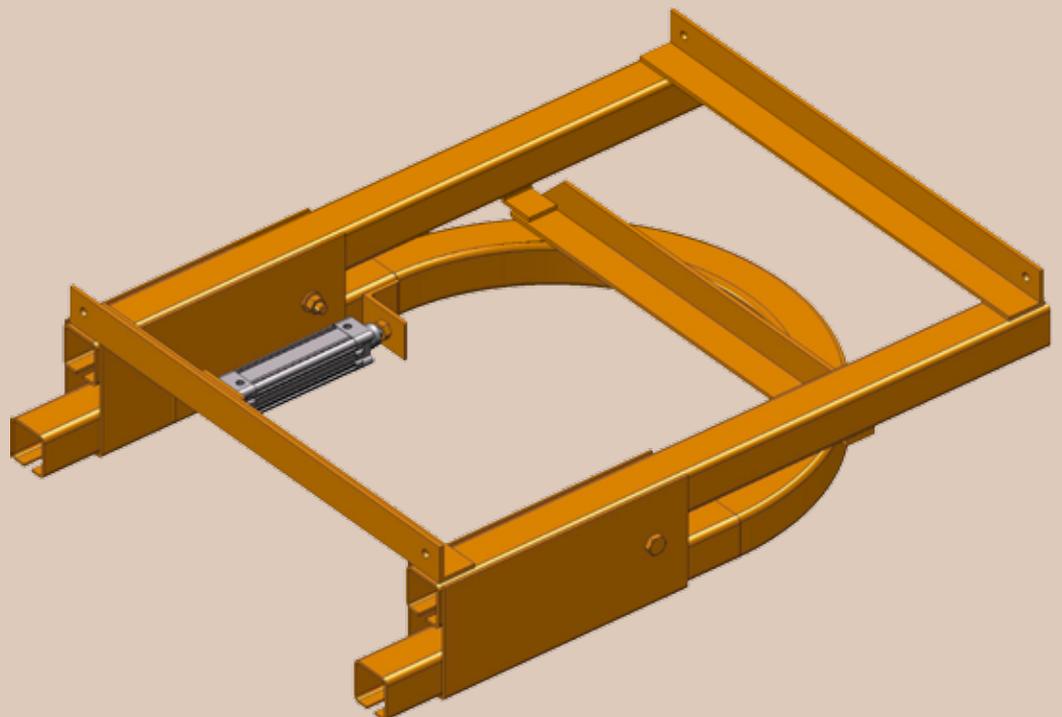
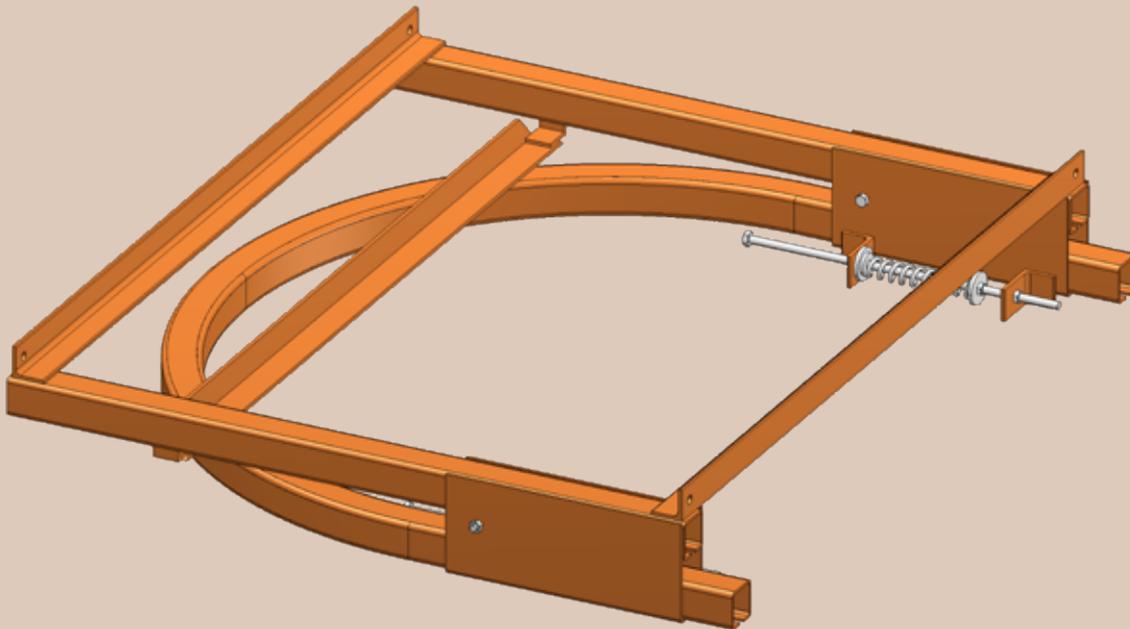
Remark

For installations, when the available headroom is insufficient to allow an inline motor gear unit to be used a 90 degree unit can be utilised.

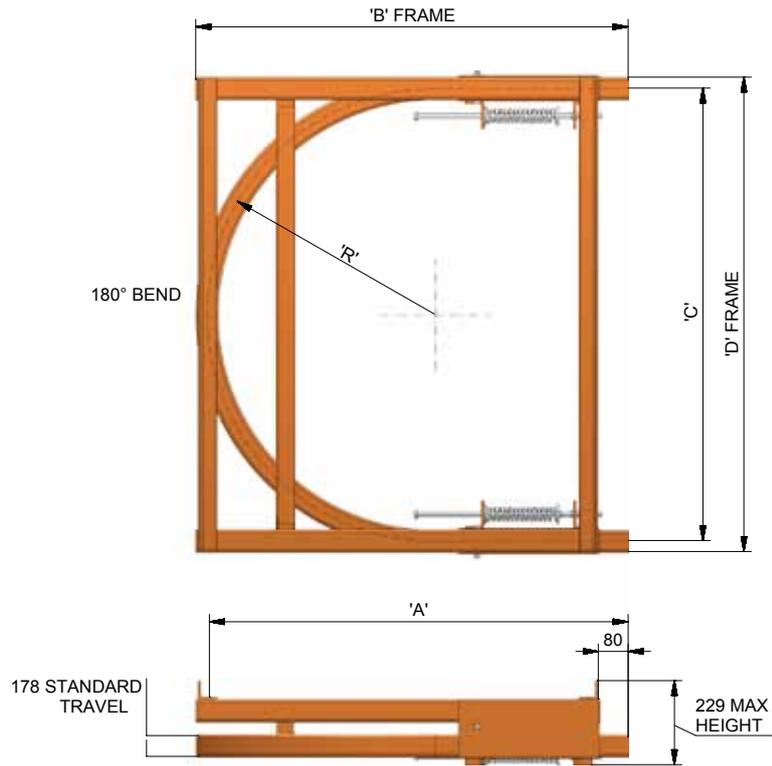
14 Tension Unit

These must be fitted to all installations as near as possible after the drive in the direction of travel to ensure smooth running. Tension units incorporate a pair of special tongue and sleeve sliding track sections and are mounted on either side of a single 180° or a pair of 90° horizontal track bends on a complete chassis assembly. There are four main types of tension unit available:

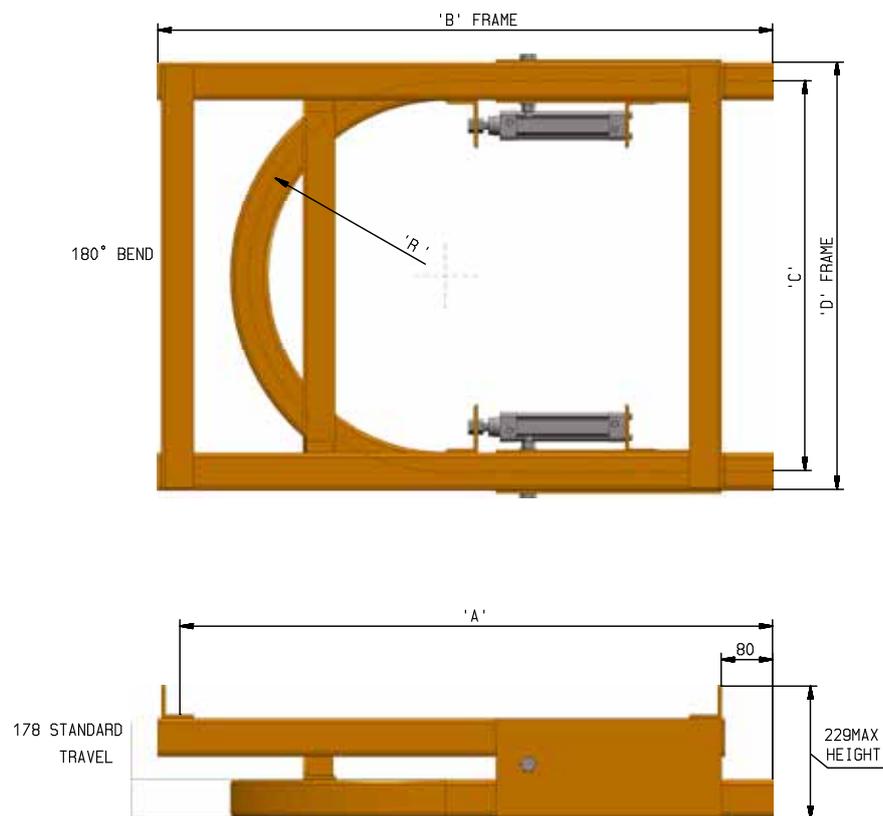
- Drawbolt** Allows manual adjustment of chain tension suitable for short systems running in ambient temperatures only.
 - Spring operated** Where conveyors run under heat or through process plant, spring operated tensioning is provided to compensate for chain expansion.
 - Pneumatically operated** These give accurate preset tension conditions and a safety stop limit when maximum adjustment is reached.
 - Dead weight** Can be supplied, for unusual tension conditions.
- Standard sizes** 180°x305mm radius for 76.2mm pitch chains.
180°x610mm radius for 101.6mm pitch chains.
Special sizes are available to special order for parallel track centres up to 3 metres at extra cost.



Dimensions Tension unit spring operated



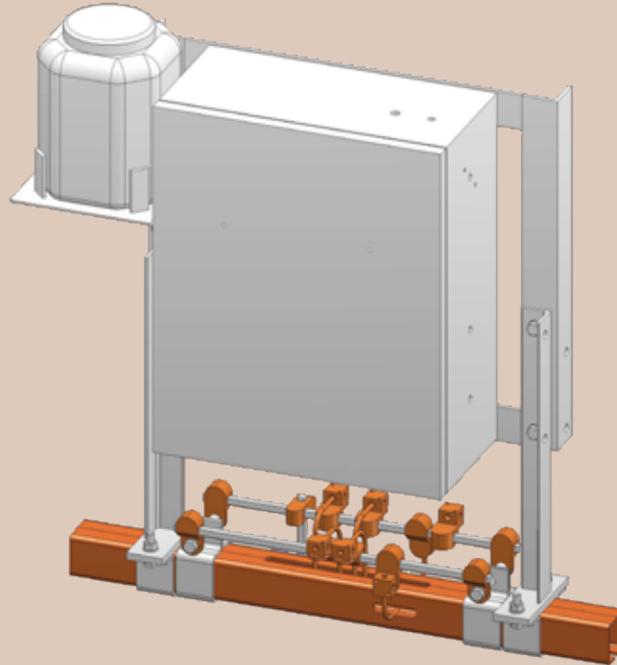
Dimensions Tension unit pneumatically operated



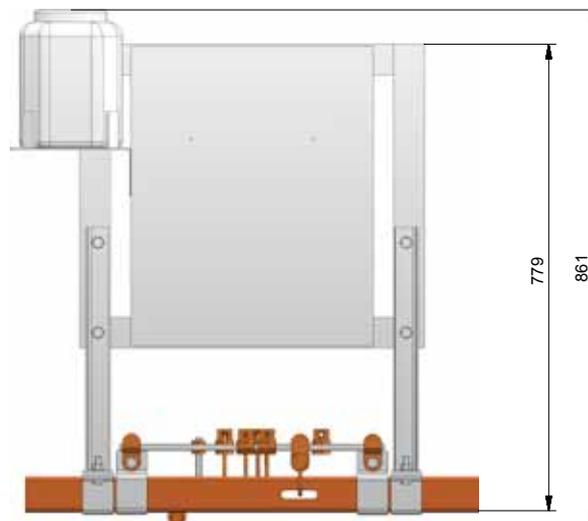
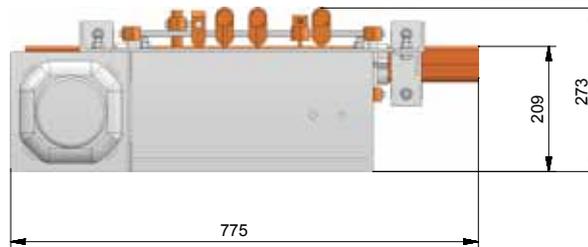
16 Lubrication Unit

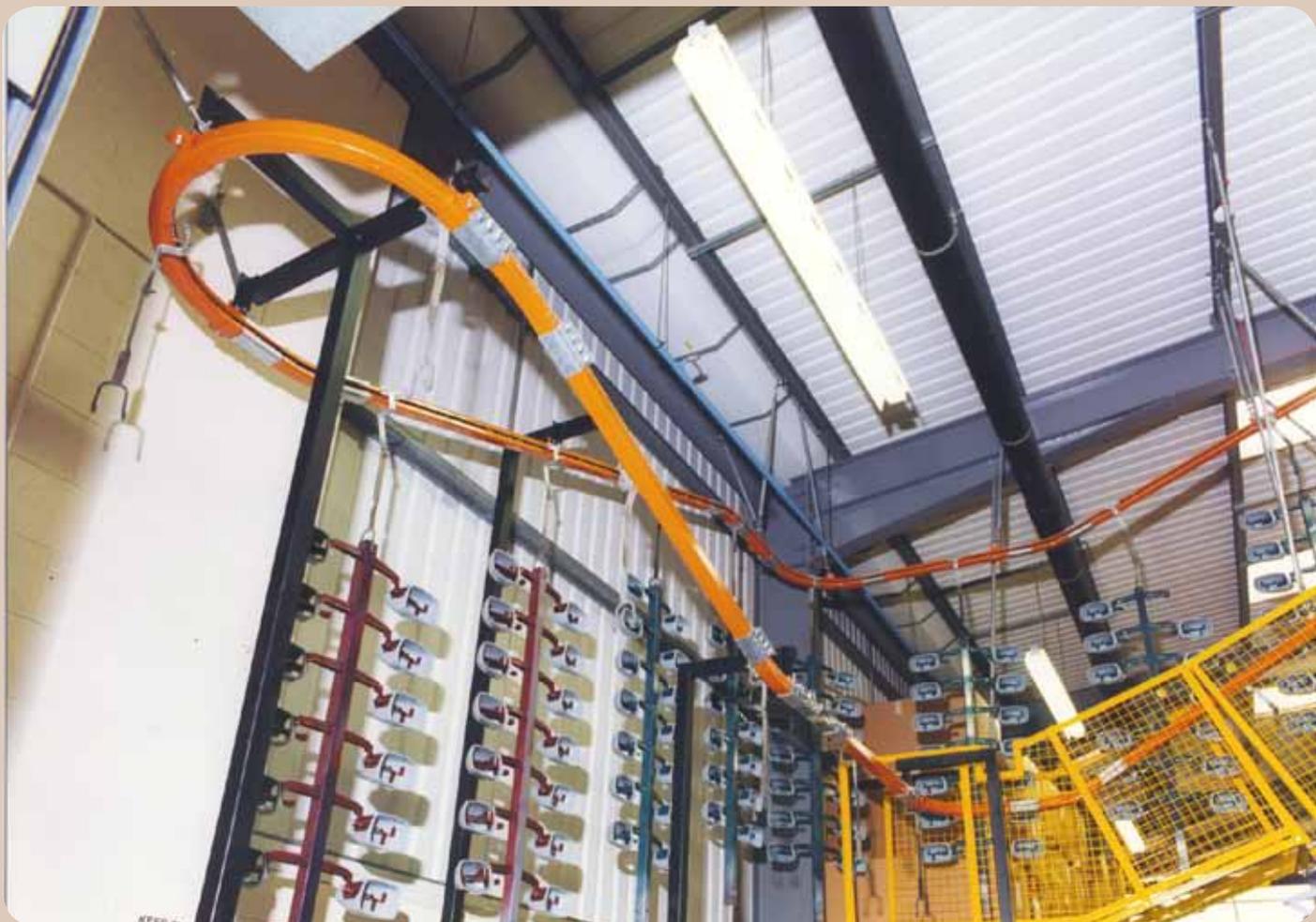
For trouble free operation and longer life the conveyor should be fitted with an automatic lubricator. This standard unit is supplied in a section of track 850mm long with integral inspection station all complete with microswitch operated trip valve, spray nozzles to give air pulse injection lubrication.

- Air supply** 40p.s.i. (3kg/cm) - 80c.s.i. (6kg/cm)
- Capacity** Oil reservoir - 2 litres 610mm for 101.6mm pitch chain.
- Recommended lubricants** Shell Tellus 37 for ambient temperatures.
Mobil Pyrolube 830 for high temperatures up to 260°C.
The lubricator unit should be fitted, where possible, just before the drive unit.

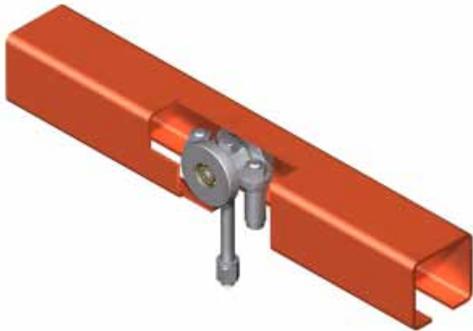


Lubrication unit









Monorail Conveyors

R40 series - up to 1500 kg unit load

R50 series - up to 3500 kg unit load

R60 series - up to 5000 kg unit load



Overhead Conveyors

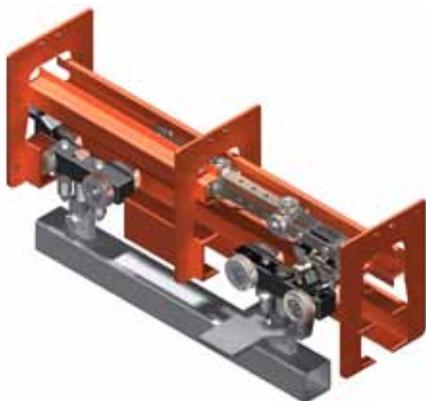
STS - up to 100 kg unit load

D8 - up to 300 kg unit load

- Options:
- Inverted
 - Side mounted
 - Floor mounted



Cleantrack - Poultry Applications



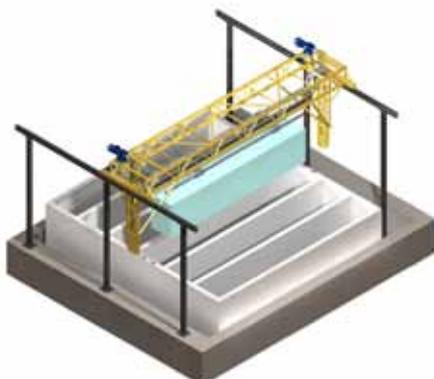
Power & Free Conveyors

T1 - up to 500 kg unit load

T4 - up to 2000 kg unit load

T5 - up to 5000 kg unit load

Overhead & floor mounted orientations are available



Crane Systems

Dipping Tank Crane

Bridge Crane



Available as stand alone items or as part of a fully integrated automatic overhead conveyor system



Stewart Gill Conveyors Ltd (UK)



Railtechniek van Herwijnen BV (NL)



Teleflex BV (NL)



Railtechnique SARL (FR)



TFX Railtechnik GmbH (DE)

Who is STEWART GILL CONVEYORS?

Stewart Gill Conveyors have been supplying overhead conveyors into all sectors of industry for over 50 years.

As a long time member of the Railtechniek van Herwijnen BV Group of companies based in The Netherlands, Stewart Gill can offer a comprehensive range of overhead conveyor products which are capable of handling unit loads up to 5000kg.

Besides having their own UK based production facilities, Stewart Gill can also use the available group engineering and manufacturing resources based in the Netherlands, Germany, Italy and Moldova.

Using the accumulated knowledge of all group companies we can provide solutions for most material handling requirements. The product range includes for manual systems and fully automatic systems providing full product tracking and two way data transfer with ERP software systems.

Stewart Gill Conveyors provide a full range of services to ensure that the correct product is chosen for each application:

- Agreement of client specification
- Design (layout and site survey)
- Design (structural calculations and designs)
- Manufacture
- Installation
- Commissioning
- Guarantees
- Service and Maintenance
- 24 hour response line

Contact

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TELEFLEX BV



DUNNEWOLT BV



STAM SRL



FLOWLINK SRL

