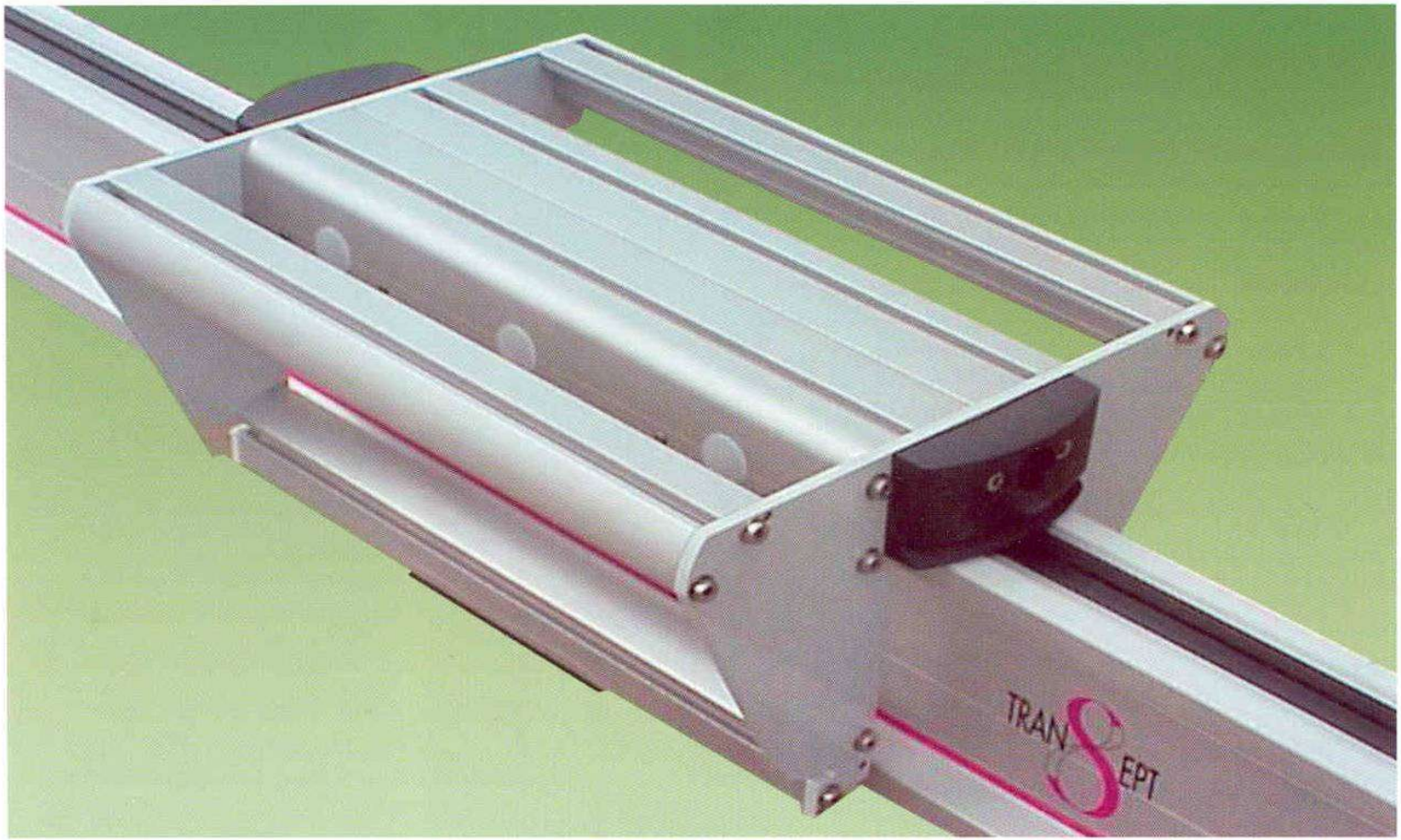
MONO-PROFILE TRANSFER



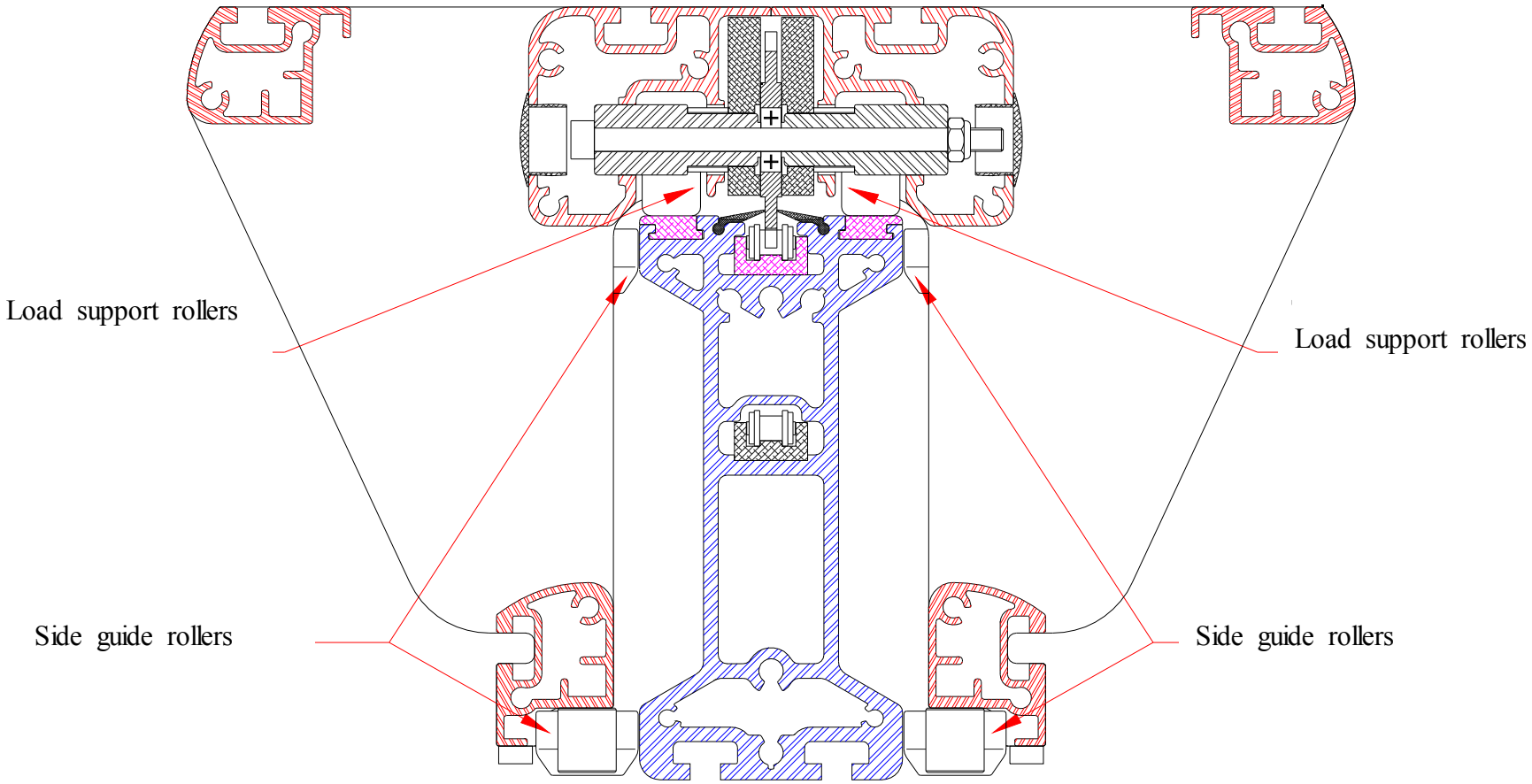
The advantages of good design

TRANSEPT MONORAIL ADVANTAGES :

- DOWNTIME REDUCTION
- ERGONOMIC OPERATION
- CLEAN OPERATION
- SIMPLE POWER TRANSMISSION
- MODULARITY
- LOAD TO SPEED RATING
- MOTORIZED SECTIONS
- SHUTTLE
- DAMPENED STOP UNITS
- SHUTTLE CLAMPING DEVICE
- SHUTTLE POSITIONING DEVICE

DOWNTIME REDUCTION

- If the chain or other major drive components fail, the shuttle can easily be pushed down the line
- The shuttle is not supported by the chain but by rollers mounted in each shuttle
- Multiple driven sections (maximum length of 6380mm) prevent one drive component from affecting the entire assembly line
- Shuttles can easily be removed to repair tooling off line without affecting production
- The simple design reduces maintenance issues
- The simple design reduces the number of spare parts required


Load support rollers
Load support rollers
Side guide rollers
Side guide rollers

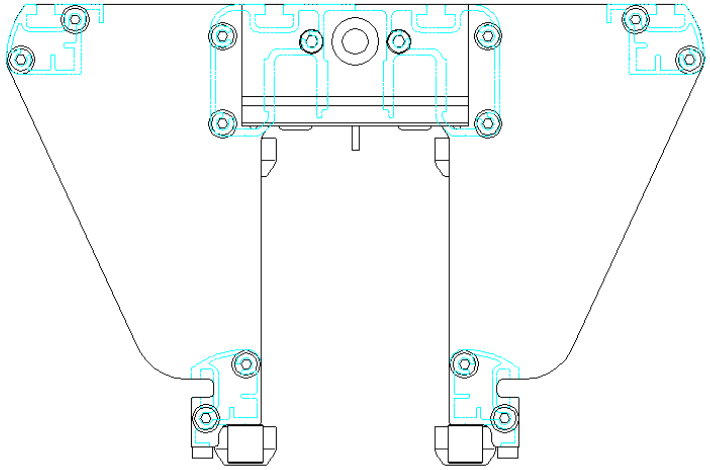
ERGONOMIC OPERATION

• The assembly mounted on the shuttle can be tipped, rotated, cantilevered or manipulated without the shuttle being pushed or tipped off the conveyor chain

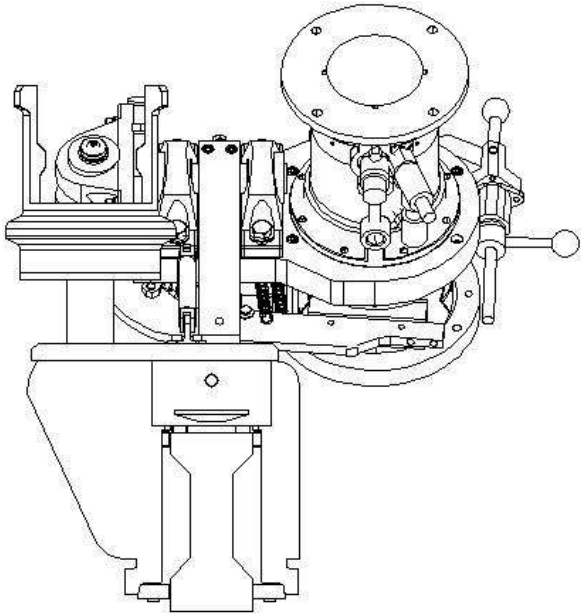
• The monorail profile allows the operator to get closer to the center line of the pallet

• The operation is quiet

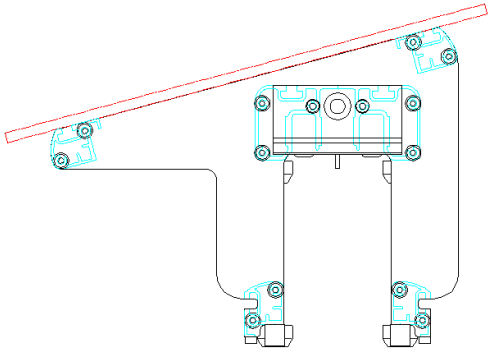
• The shuttle drive prevents serious operator injuries



Standard shuttle



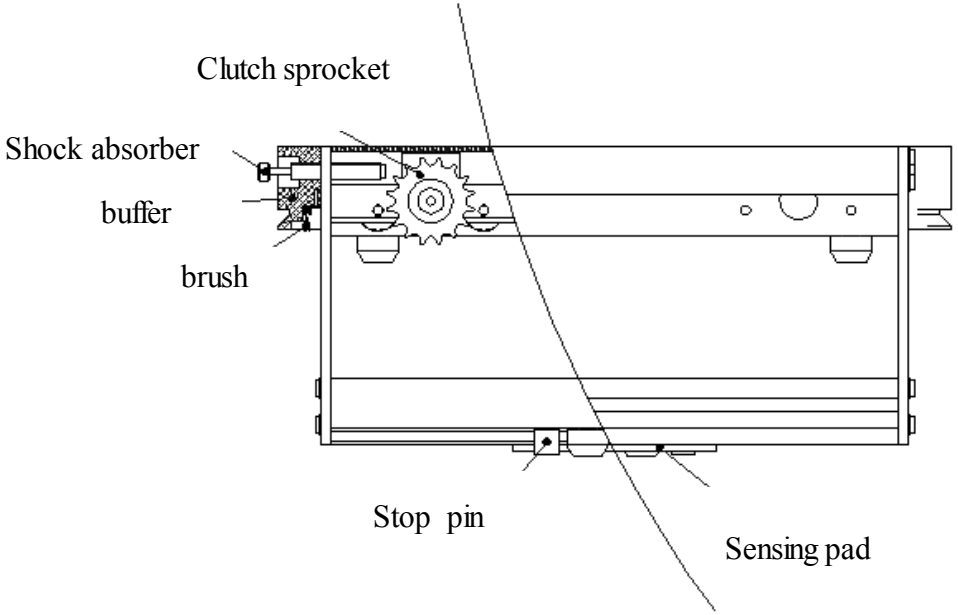
Cantilevered application

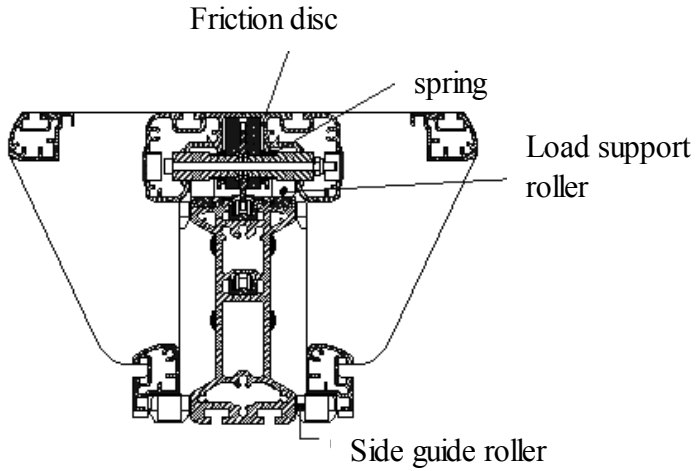


Angled shuttle

CLEAN OPERATION

- The chain lip seals prevent large debris from accumulating in the chain guide
- Brushes mounted on the shuttle constantly wipe the top of the monorail profile as the shuttle travels down the line
- The buffer allows the evacuation of foreign matter fallen down on the section



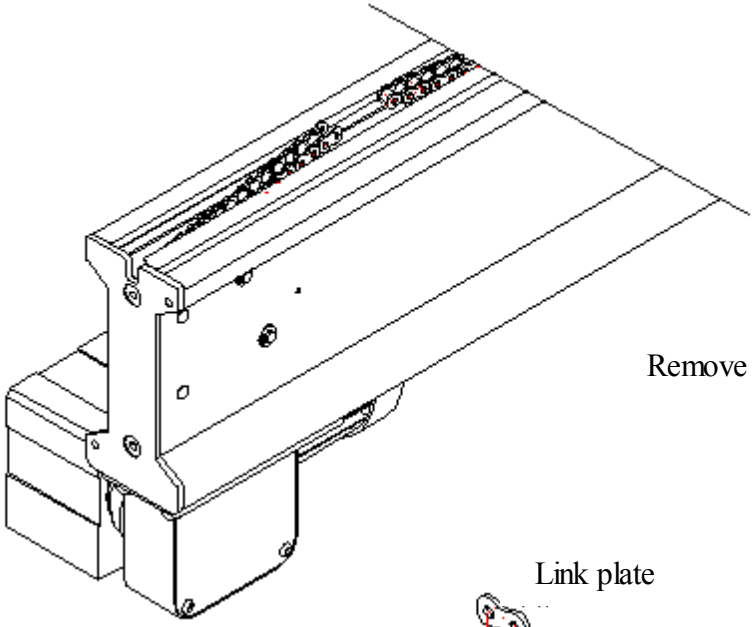


SIMPLE POWER TRANSMISSION

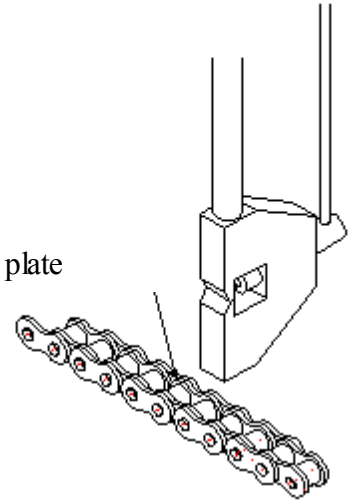
- Simple 08 B1 roller chain
- Delta Z corrosion treatment to extend the life of the chain
- Chain tensioning thanks to a spring tensioning device
- Principle :

The drive chain is used to pull the shuttle.
The chain does not support any part of the shuttle load.
The wheels of the shuttles support the mass.
Each clutch in the shuttle develops a traction effort of approximately 1kg to the chain.

- Reduced chain stretch
- Extended chain life duration
- Reduced maintenance procedure
- Simple chain tools
- If the mass of the shuttle exceeds the load limit, damage is not transmitted to the chain or other drive components. The shuttles clutches simply slip.



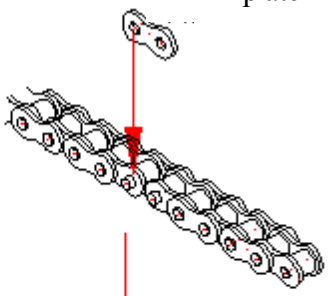
Remove link plate



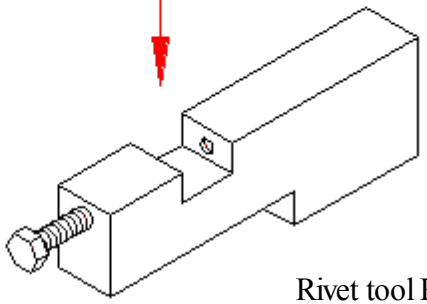
Heavy duty chain tool Ref. 0791

chain

Link plate



chain

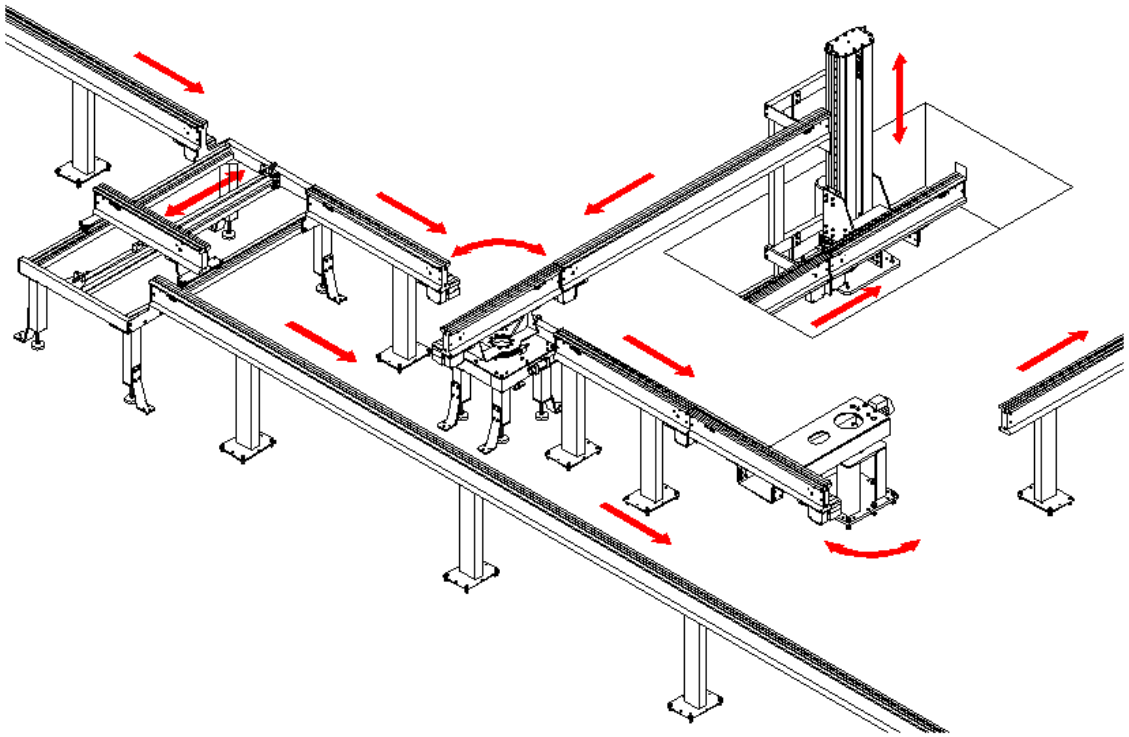


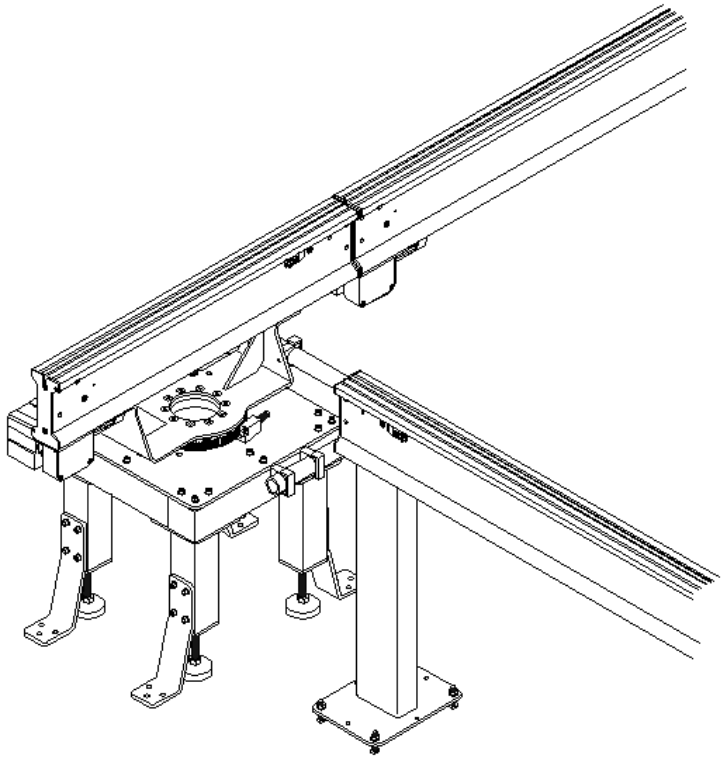
For a 13mm key

Rivet tool Ref. 2231

MODULARITY

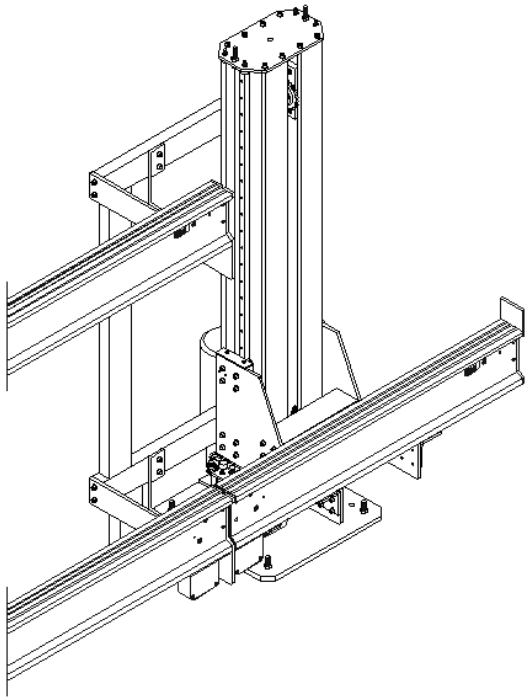
- The TM Monorail can be configured in a variety of ways : over-under, rectangular, or a combination of the two.
- The TM can be expanded or reconfigured at any time.





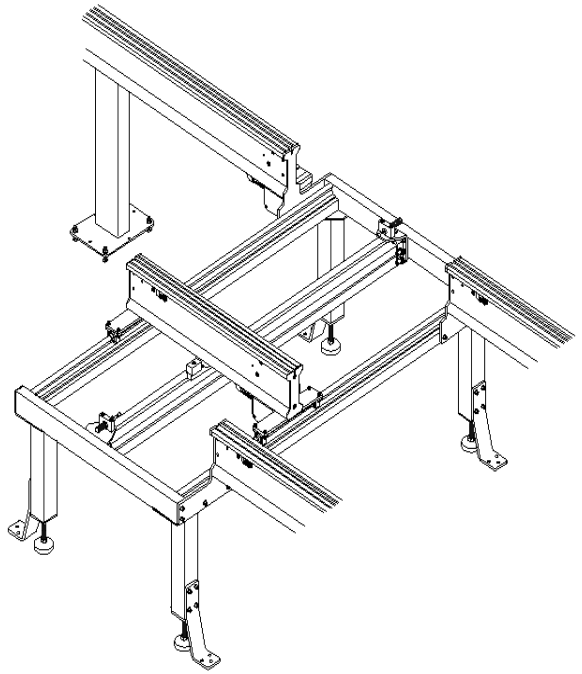
ROTATING TABLE

They are used to change the orientation of the pallet or send the shuttle in a perpendicular direction



LIFT

There are used to raise the shuttles up, to return the shuttle overhead or to lift the shuttle for a specific operation



SLIDING TABLE

There are used to move the shuttle to a parallel line

LOAD TO SPEED RATING

The drive chain is used to pull the shuttle.
The chain does not support any part of the shuttle load.
The wheels of the shuttles support the mass.
Each clutch in the shuttle develops a traction effort of approximately 1 kg to the chain.

CAPACITY OF STOP UNIT REF.2016 TO STOP LOAD

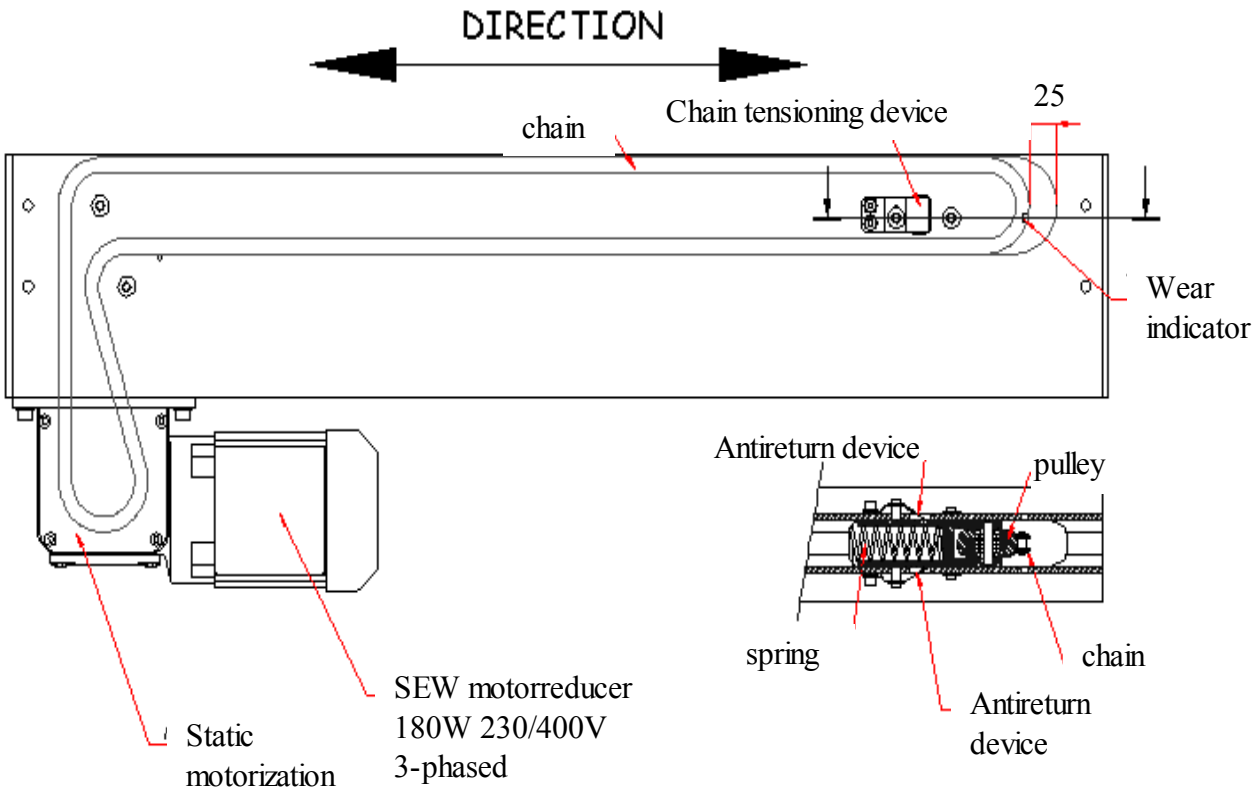
SHUTTLE LOAD	CONVEYOR SPEED
50KG	30 m/mn
100KG	15 m/mn
200KG	12 m/mn
300KG	10 m/mn

MOTORIZED SECTIONS

Each section is motorized :

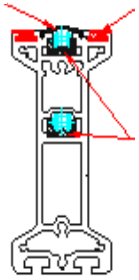
Maximum length = 6380mm minimum length = 800mm

Driven section can move shuttles forward and reverse



PVC profile Ref.0146

Rolling profile Ref. 0149



Chain inside guiding profile

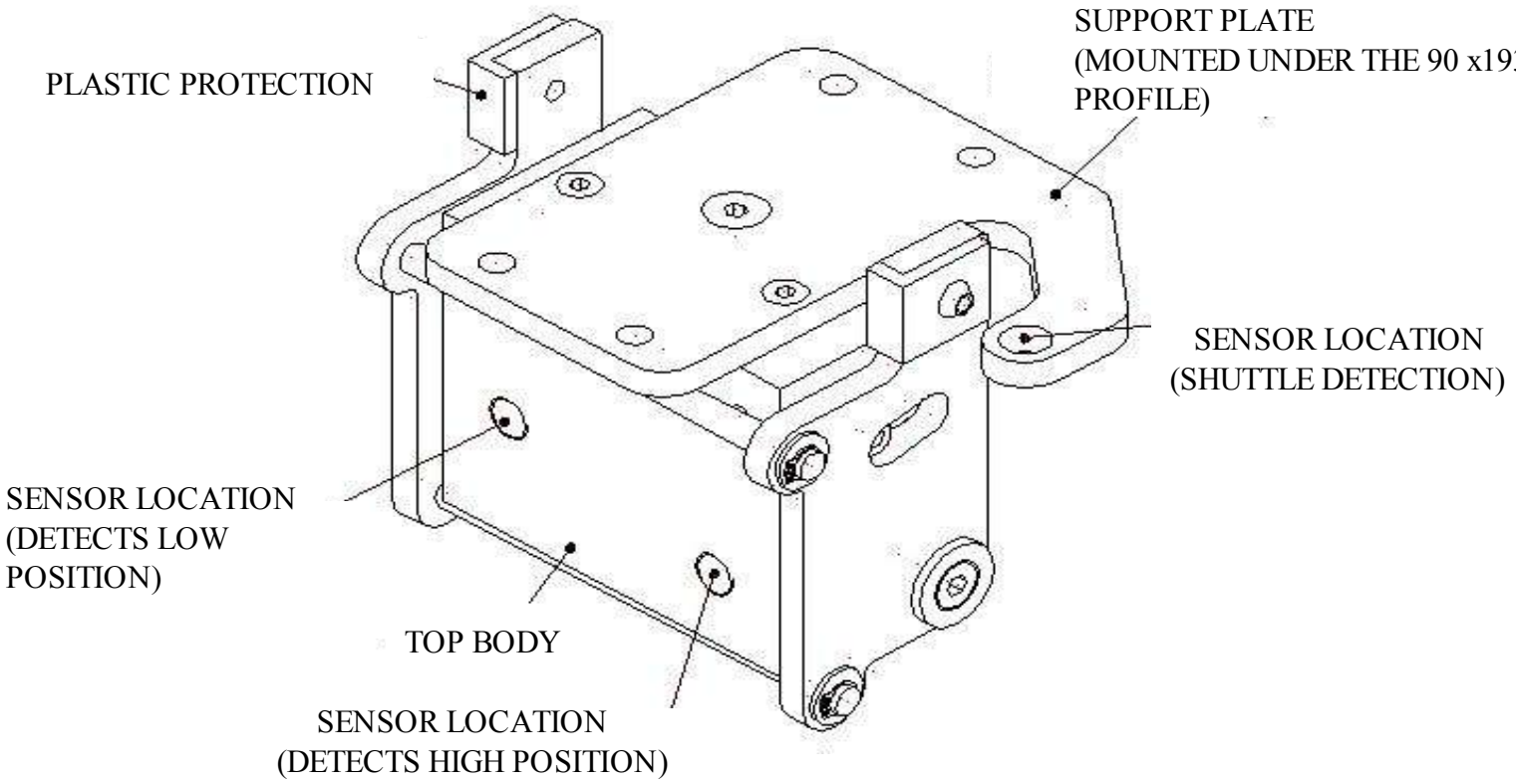
SHUTTLE

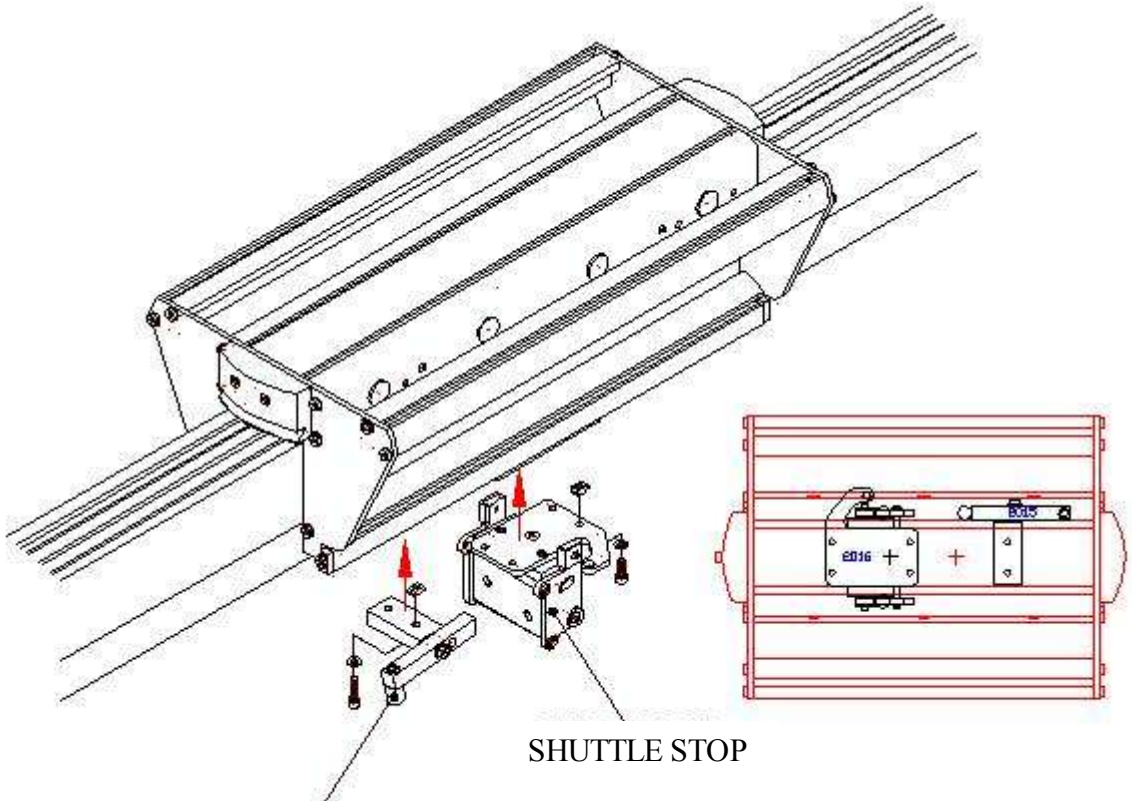
- Shuttles can be made in various lengths to fit the application
- Shuttles can accumulate along the sections
- Shuttles can be easily removed from the monorail profile for maintenance
- The weight of tooling and parts do not have to be centered on the shuttle
- The shuttle has T-slots for easy mounting of tooling
- The shuttle can have up to four clutches for heavier loads

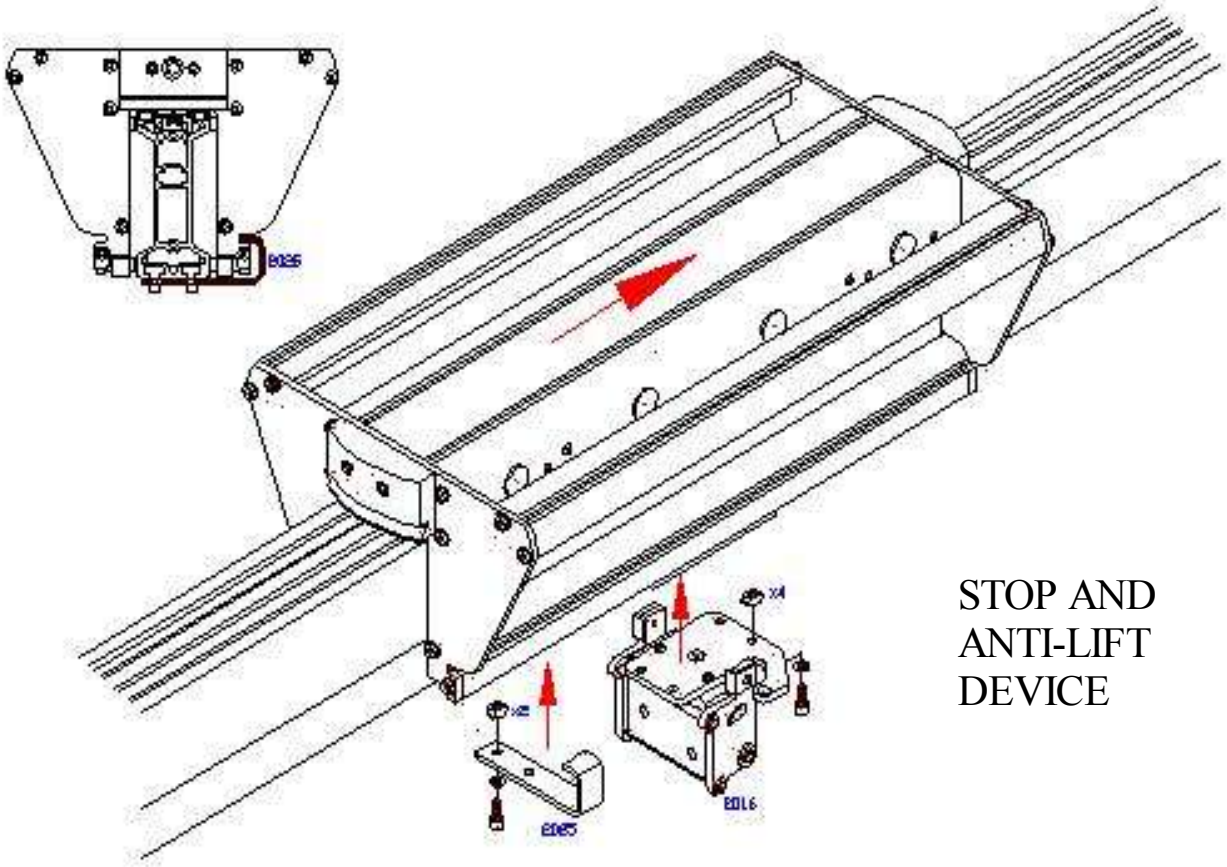
DAMPENED STOP UNITS

Stops can be positioned anywhere on line via T-slots on the bottom of the TM profile

Stops are dampened by shock absorbers located inside the stop unit body



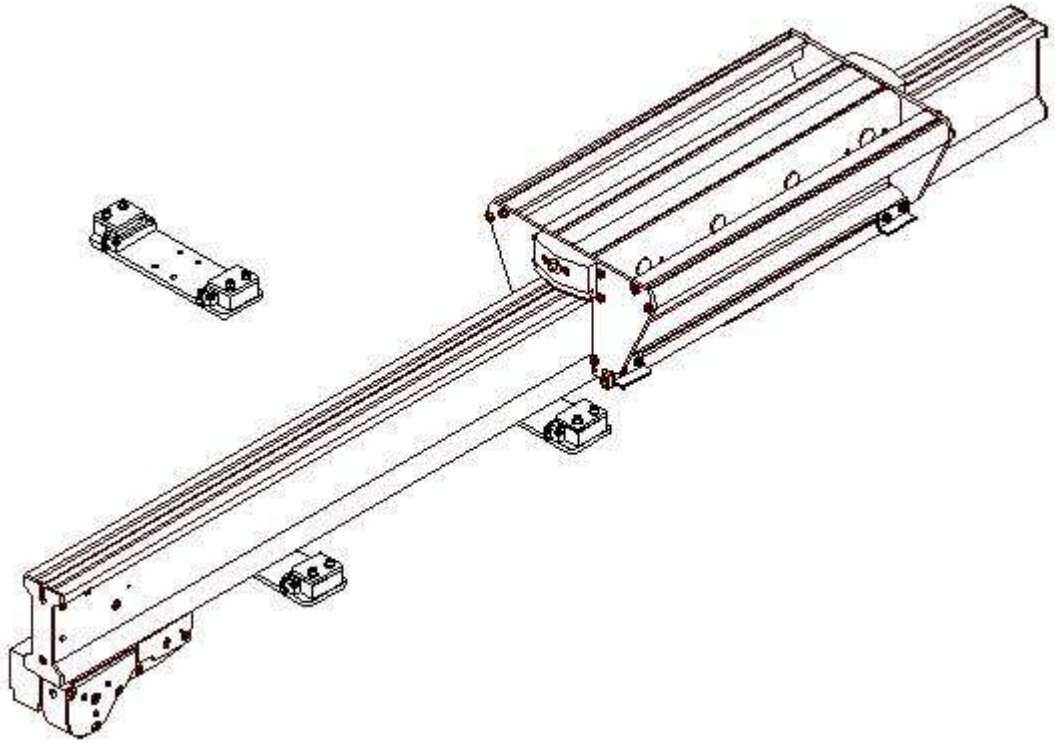

SHUTTLE STOP
ANTIRETURN DEVICE



STOP AND
ANTI-LIFT
DEVICE

SHUTTLE CLAMPING DEVICE

Clamping devices are used to clamp the shuttle in position to reduce movement in critical operator stations



SHUTTLE POSITIONING DEVICE

Positioning devices are used to lock the shuttle in position and avoid any movement during critical operations at the working place