

Overhead Conveyor Power & Free Type PF 80





Durable, powerful and able to withstand even the most demanding conditions with up to a 3.500 kg payload.

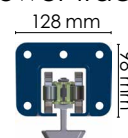
The Power & Free conveyor type PF80 consists of two tracks. In the upper "Power" track a cardchain with pulling dogs (A) attached at a fixed pitch. In the underlying "Free" tracks the trolleys are moved throughout the system. The trolleys and chain are linked by an interlocking latch system. (B,C) The accumulation mechanism is integrated in the trolley. (D,E,F)

Upon reaching the accumulation plate (F) of the leading trolley or a closed accumulation stop the trolleys' accumulation mechanism (D or E) is activated and the latches (B,C) drop from the pulling dog on the cardchain, freeing the trolley from the pulling dog engagement.

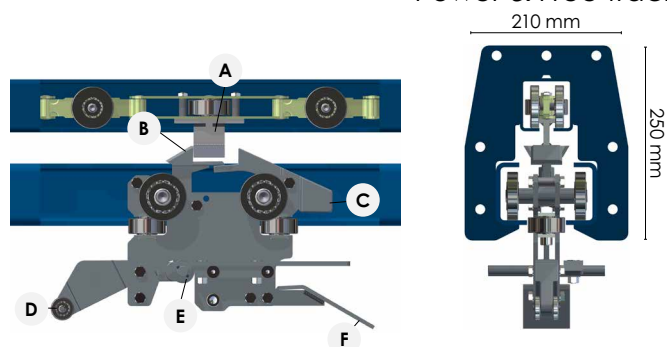
The PF 80 trolleys' accumulation plate (F) and accumulation stops ensure that trolleys/carriers are immediately released from the power chain enabling them to accumulate in 30°, 45°, 60°, 90°, 120° or linear buffer zones.

- (A) pulling dogs mounted on cardchain at fixed pitch
- (B) front chain latch
- (C) rear chain latch
- (D) disengagement lever
- (E) disengagement axle
- (F) accumulation plate

Power track



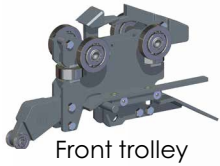
Power & Free track



The cost effective modular PF80 system is assembled specifically to meet customer requirements. Chain pitch, trolley capacity and carrier size as well as accumulation distance are just a few of many parameters designed to meet customer demands.

PF80 is powered by one or more electrically operated drive units. The system can be designed with multiple chain loops and switch tracks for directing trolleys to numerous required destinations, providing optimal flexibility. An encoding system enables the individual trolleys to activate the switch tracks and the control system ensures that the carriers run through the chosen process areas to the correct stop /buffer positions. If these features are important to you in a transport system, then the PF80 is the right solution for your material handling.

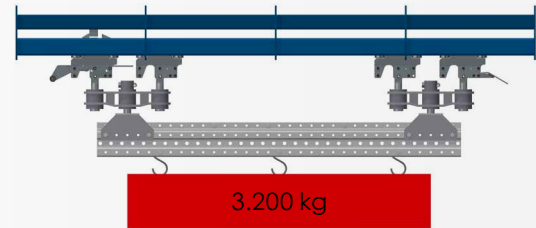
Trolley types



1 Trolley



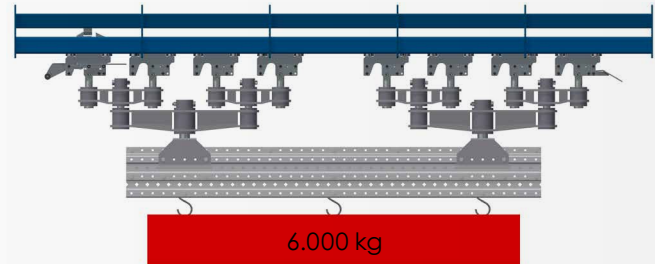
4 Trolleys



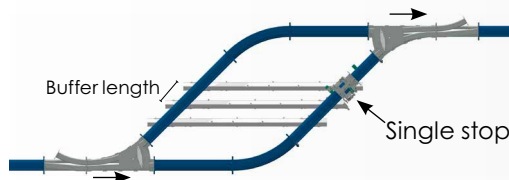
2 Trolleys



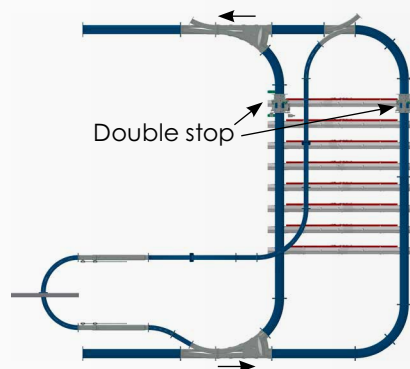
8 Trolleys



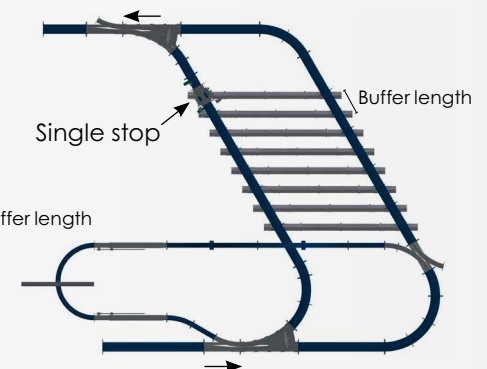
30°-45°-60° Buffer Zone



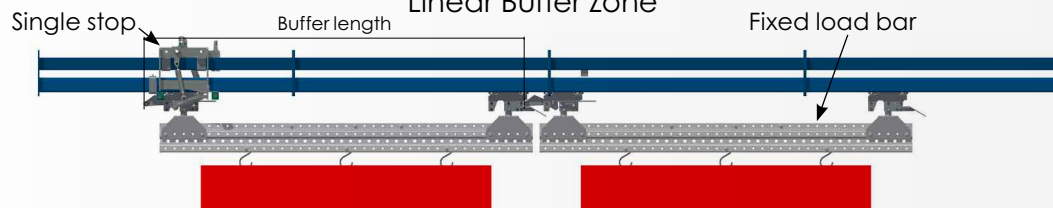
90° Buffer Zone



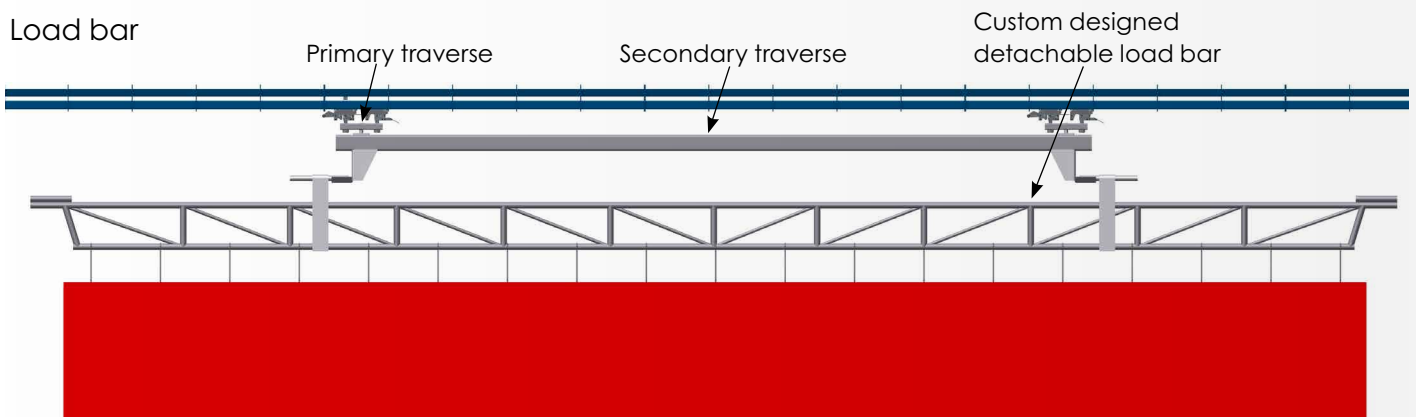
120° Buffer Zone



Linear Buffer Zone



Load bar



Technical data:

Max. Load each trolley arrangement:

1 trolley (4-wheeled)-800 kg., 2 trolleys-1.600 kg.,
4 trolleys-3.200 kg., 8 trolleys-6.000 kg.

Method of Running:

Power and Free or fixed engagement.

Accumulation possibilities:

Linear, 30°, 45°, 60°, 90°, 120°.

Min. buffer length:

With 1 trolley = 300 mm. With 2 trolleys = 600 mm.

Min. distance between front-trolley arrangement and back-trolley arrangement, for trolleys running in cross section via switch tracks.

1.000 mm.

Cardan chain, pitch:

180, 270 or 300 mm.

Trolley and Chain bearings:

Open or Shielded bearing fitted with grease.

Lubrication:

Automatic lubricator - high temperature oil CT250.

Max. Ambient Temperature:

250°C.

Standard lengths- straight profiles:

1.200, 1.800, 2.400, 3.000 mm., fix length under 1.200 mm.

Standard horizontal curves radius- PF track:

R-700, R-1.000, R-1.500, R-2.000 mm.

Standard horizontal curves angle- PF track:

15°, 30°, 45°, 60°, 90°.

Standard vertical curves radius- PF track:

R-2.000 mm.

Standard vertical curves angle- PF track:

10°, 15°, 30°, 45°, (depending on work-load).

Switch track radius 1.000-30°:

Trolley, pneumatically, electrically, or mechanically (Flip-Flop) operated.

Lifting and lowering station:

Electrically or hydraulically operated.

Floor mounted or suspended from the steel construction.

Available as guided or unguided version.

Applicable in linear section or cross section.

Accumulating stop:

Pneumatic, electrically operated.

Drive Unit:

Straight version with single or double sided drive. Electric Gear motor with fixed or variable speed via frequency converter. Adjustable Max Torque Limiter. Optional in build encoder with various resolutions.

Innovative custom designs:

Horizontal turning station for carriers, Load bars, Detachable load bars, Manipulators, Pick and Place Units, High Precision Carrier Fixation.

**FOR MORE
INFORMATION!**



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Headoffice Denmark:

Conveyor Teknik A/S | Industrivej 9 | DK-4700 Naestved
Phone: +45 5573 3400 | Fax: +45 5573 3500
sales@ctas.dk | www.ctas.dk

Conveyor Teknik India Pvt. Ltd. | Door nr. 15 | DRR Avenue, Audco Nagar
Kattupakkam | Chennai- 600056 | India
Phone: +9144 24763760 | www.ctas.dk | sales@ctas.dk