

Floor Conveyor

# Power & Free Type FT 350



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The Power & Free conveyor type FT 350 consists of three tracks. In the upper two "Free" tracks the trolleys are moved throughout the system. In the underlying "Power" track a cardan chain with pulling dogs (A) attached at a fixed pitch.

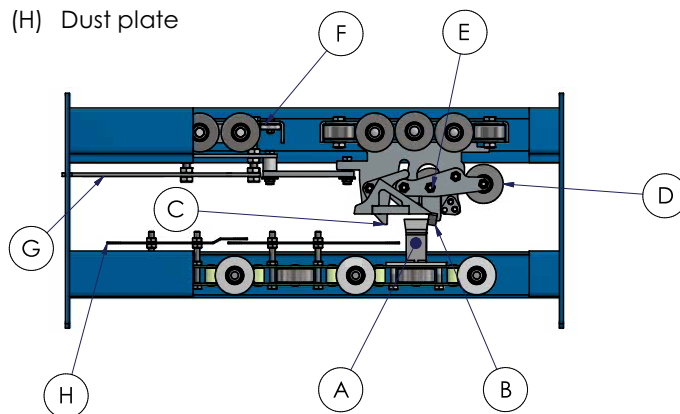
The trolleys and chain are linked by the pivoting mechanism on the trolleys. Engagement is achieved by allowing the pivoting mechanism on the trolley (A) to remain in the lower position and connect with the pulling dog on the chain. (B) E.g. When an accumulation stop is opened.

Front trolleys (B) are disengaged upon reaching closed accumulation stops or buffering behind rear trolleys. (C) The pivoting mechanism (A) pivot upwards and are freed from the chain. The FT350 accumulation system has a minimum of moving parts and is therefore simple to maintain. The FT350 trolleys' accumulation configuration 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.

The cost effective modular FT 350 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.

FT350 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 FT350 is the perfect solution for your material handling needs.

- (A) Pulling dogs mounted on chain at fixed pitch
- (B) Front chain latch
- (C) Rear chain latch
- (D) Disengagement lever
- (E) Disengagement axle
- (F) Rear trolley
- (G) Accumulation plate
- (H) Dust plate





## Trolley types



Basic trolley



Basic trolley with fixed engagement



Switch track



Front trolley with turning device

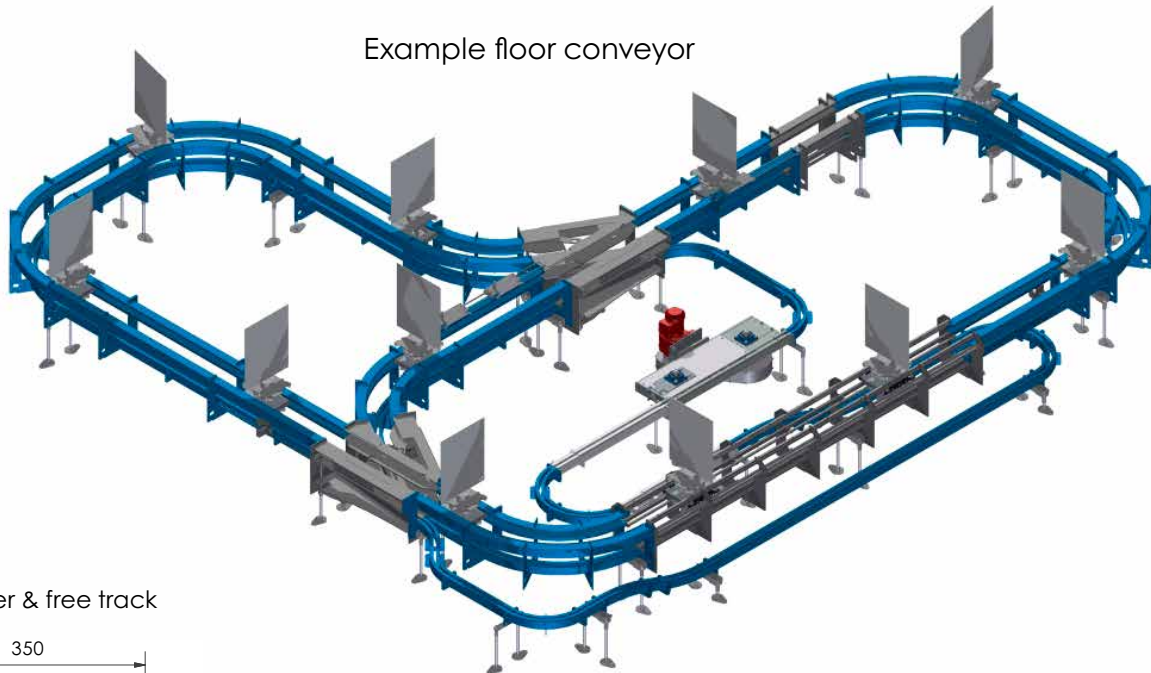


Rear trolley with accumulation plate

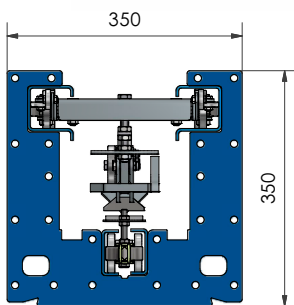


Support legs

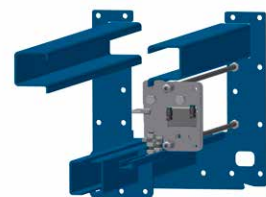
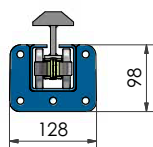
## Example floor conveyor



Power & free track



Power track



Stop

## Technical data:

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**Max. load, each trolley arrangement:**

1 trolley (6-wheeled)-200 kg., 2 trolleys-200 kg.

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**Method of Running:**

Power & Free or Fixed Engagement.

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**Accumulation possibilities:**

Linear, 30°, 45°, 60°, 90°, 120°.

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**Min. buffer length:**

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

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**Cardanchain, pitch:**

180, 270 or 300 mm.

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**Trolley bearings, Chain bearings:**

Open or shielded bearing fitted with grease.

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**Lubrication:**

Automatic lubricator - high temperature oil CT250.

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**Max. Ambient Temperature:**

250° C.

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**Standard lengths- straight profiles:**

1.000, 2.000, 3.000 mm., fix length under 1.000 mm.

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**Standard horizontal curves radius- PF track:**

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

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**Standard horizontal curves angle- PF track:**

15°, 30°, 45°, 60°, 90°.

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**Standard vertical curves radius- PF track:**

R-2000 mm.

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**Standard vertical curves angle- PF track:**

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

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**Switch track 30°:**

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

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**Lifting and lowering station:**

Electrically or hydraulically operated.

Floor mounted.

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**Accumulating stop:**

Pneumatic, electrically operated.

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**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.

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**Innovative custom designs:**

Horizontal turning station for carriers, High Precision Carrier fixation.

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