



## POWER & FREE CONVEYOR

### TYPE P&F400

The flexible P&F system with a load capacity up to 3.500 kg.

Simple and reliable accumulation of wagons in in line, 45° and in 90° buffer zones.

Smooth trolley transfer from one conveyor circuit to another minimizes the use of transfer units, thus lowering systems costs.

Unique trolley- and accumulation stop design ensures an instant and a highly reliable separation of wagons in the accumulating zones.

The use of modular components offers total flexibility and liberty in configuring the conveyor circuit layout.

Consequent use of tested quality components giving confidence in operation even in very harsh working environments.

Noiseless accumulation by means of non friction disengagement of the trolleys from the conveyor chain drive.

*”The all-round P&F system  
for your materials handling”*

**Specifications:**

The Power & Free conveyor type P&F400 consists of two Caldan straight profiles. In the upper "Power" profile a cardan chain is driven by one or more drive units.

In the underlying "Free" profile the wagons are driven by power chain carriers, via pivotal pawls attached to the front and back of the trolley.

Both the chain carrier pitch and the accumulation distance is designed according to customer request.

The wagons can, according to handling requirement, be separated and accumulated either in line, or at 45° or 90° within accumulation zones.

When routed into a closed accumulation stop, or when reaching the "tail" of the previous trolley, the trolley's accumulation lever is lifted and the pawl units are lowered. Hereby the trolley is disengaged from the chain carriers.

Conveyance with loads in up to 45° rise and fall sections - depending on the load - is possible due to a uniquely constructed link between the chain carriers and the trolley pawls.

**Technical data:**

Chain carrier pitch:	180 / 270 mm
Max. temperature (surrounding):	250° C
Max. load per trolley (4-wheeled):	500 kg
Max. load per wagon (load bar with 2 / 4 or 8 trolleys):	1.000 / 2.000 / 3.500 kg
Standard length, straight profile:	3.000 mm
Trolley wheels / chain bearings:	Open or sealed and greased version
Horizontal curves:	
Degree:	90° / 45° / 30° / 15°
Radius:	700 / 1.000 mm
Vertical curves:	
Degree (depending on work-load):	15° / 30° / 45°
Radius:	1.000 / 1.500 / 2.500 mm
Drive unit:	Straight version with double sided caterpillar drive or 90° version with driving wheel. Gear motor with fixed or variable speed
Tension unit:	Manual or pneumatic / weight-loaded
Switching gate:	Manual, pneumatic or electrical version
Vertical drop- and lift section:	Available in guided / floor mounted version or unguided and suspended from the ceiling
Accumulating stop:	Pneumatic or electrical version
Pneumatic lubrication:	Semi- or fully automatic version. Point- or fog lubrication of the cardan chain and / or the trolleys
Special designs:	E.g. turning stations
Accumulation possibilities:	Automatic. In-line, 90° and 45°