



**P&F380**

**POWER & FREE OVERHEAD CONVEYOR**

The P&F380 is a highly flexible power & free conveyor system, which comes with a load capacity of up to 1100 Lbs (500 kg). With a simple and reliable accumulation of wagons the P&F380 enables the possibility of buffer zones of 45°, 90° and in line.

To ensure low system costs, the P&F380 has a minimal need for transfer units, as it is designed with a highly smooth trolley transfer from one conveyor circuit to another.

The leading edge CALDAN trolley- and accumulation stop design is the safeguard for instant and extremely reliable separation of wagons in the accumulating zones.

The P&F380 handles accumulation noiseless with non-friction disengagement of the trolleys from the conveyor chain drive.

Through the use of modular components, the P&F380 is the paramount standard of flexibility and liberty when it comes to configuring conveyor layouts. On top of that the rigorous and renowned CALDAN high-end components and quality testing, ensures that clients worldwide can run our systems in harsh environments with total confidence.





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**TECHNICAL SPECIFICATIONS**

The Power & Free conveyor type P&F380 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 30° rise and fall sections - depending on the load - is possible due to a uniquely constructed link between the chain carriers and the trolley pawls.

<p><b>Chain carrier pitch:</b> 7.08 / 10.62 inches (180 / 270 mm)</p> <p><b>Max. temperature (surrounding):</b> 482 °F</p> <p><b>Max. load per trolley (4-wheeled):</b> 441 Lbs (200 kg)</p> <p><b>Max. load per wagon (load bar with 2 / 4 trolleys):</b> 660 / 1100 Lbs (300 / 500 kg)</p> <p><b>Standard length, straight profile:</b> 118.11 inches (3.000 mm)</p> <p><b>Trolley wheels / chain bearings:</b> Open or sealed and greased version</p> <p><b>Horizontal curves:</b> Degree: 90° / 45° / 30° / 15° Radius: 27.55 / 39.37 inches (700 / 1000 mm)</p>	<p><b>Vertical curves:</b> Degree (depending on work-load): 15° / 30° Radius: 98.43 inches (2.500 mm)</p> <p><b>Drive unit:</b> Straight version with double sided caterpillar drive or 90° version with driving wheel. Gear motor with fixed or variable speed</p> <p><b>Tension unit:</b> Manual or pneumatic / weight-loaded</p> <p><b>Switching gate:</b> Manual, pneumatic or electrical version</p>	<p><b>Vertical drop- and lift section:</b> Available in guided / floor mounted version or un-guided and suspended from the ceiling</p> <p><b>Accumulating stop:</b> Pneumatic or electrical version</p> <p><b>Pneumatic lubrication:</b> Semi- or fully automatic version. Point- or fog lubrication of the cardan chain and / or the trolleys</p> <p><b>Special designs:</b> E.g. turning stations</p> <p><b>Accumulation possibilities:</b> Automatic. In-line, 90° and 45°</p>
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