



P&F100 - precision engineered Power & Free floor conveyor .



P&F100

Power & Free floor conveyor / 积放式地面输送机

The flexible floor-based Power & Free system with a standard load capacity up to 400 kg. Reliable accumulation and separation of trolley and wagon sets. Smooth trolley transfer by using conventional switching gates without expensive transfer units.

灵活地面面积放式系统的标准负载能力高达400公斤。可靠的单个小车及车组的积放。无需使用昂贵的推动机构，通过采用常规的道岔，小车便可在输送带上顺畅地转换前进方向。

The purpose designed P&F100 combines the flexibility of the overhead power and free conveyors with the stability of conventional skid systems.

- High stability of unbalanced jigs
- High accuracy of presentation

P&F100的设计结合了积放式悬挂输送机的灵活性与传统滑橇系统的稳定性。

为摇晃不稳的夹具提供高稳定性
精准的运行定位

Ideally suited for painting and assembly processes. No contamination as the work pieces are placed on top of the conveyor system:

- Increases production quality
- Reduces product rejection rate

完美适配喷漆和组装工艺。因工件被放置在传送带系统的顶部，待处理的部件不会受到污染：

生产质量得以提高
不良率得以降低

Manages 30° inclines (depending on workload). Noiseless accumulation by means of non-friction disengagement of the trolleys from the drive chain. Very compact in design minimising floor area requirements, restriction to air flow in spray booths etc.

可以实现30°倾斜爬坡（取决于载重量）。小车与驱动链条平顺脱离，实现无噪音积放。其紧凑的设计能够最大限度地减少对占地面积的要求和对喷漆车间气流的限制等等。





CALDAN conveyor solutions - simply perfect.



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P&F100

Technical specifications / 技术规格

The Power & Free floor conveyor, Type P&F100, consists of three CALDAN profiles. In the lower "Power" profile the cardan chain is driven by one or more drive units. In the upper "Free" profiles the purpose designed trolley and wagon sets are driven by power chain carriers, via pivotal pawls attached to the front and back of the trolley.

The trolley body is made of 5 mm. laser cut and folded plates and is equipped with 4 sealed load carrying wheels and 4 sealed horizontal wheels for side guiding. Both the power chain carrier pitch and the accumulation distance are designed according to customer specification. Each trolley and wagon set can be separated from the power chain and accumulated in line, 45° or 90° zones.

When reaching a closed accumulation stop or when reaching the tail of the previous trolley, the accumulation lever is lowered, and the trolley pawl units are lifted. Conveyance with loads in rise and fall sections is possible due to a uniquely designed link between the chain carriers and the trolley pawls.

P&F100型积放式地面输送机由三个卡尔丹轨道组成。在下面“动力”轨道中，万向链由一个或多个驱动装置驱动。在上面“积放”轨道中，小车和车组通过前后的中枢挂钩，与动力链条推头进行对接并被推动。小车车身由5毫米激光切割折边钢板制成，配有四个密封载重轮和四个用于侧面导向的密封水平轮。此外，动力链条推头间距和积放节距可以根据客户要求设计。每个小车和小车组都能与动力链条脱离，并实现直线、45°、90°形式积放。当行至一个关闭的停止器或到达前面小车的尾部时，小车的积放杆将被压低，同时小车的挂钩会被抬高，从而实现小车与链条推头脱离。独特的小车与链条推头连接设计，易于实现小车载重通过上下坡升降段。

Chain carrier pitch: 180 / 270 mm

链条节距: 180 / 270 毫米

Max. temperature (surrounding): 250° C

最高适用温度 (周边): 250° C

Max. load per 4-wheeled trolley: 200 kg

每4轮式小车最大载重: 200公斤

Max. load per wagon (

load bar with two trolleys): 400 kg

每小车组最大载总 (含载重梁2个小车组合): 400公斤

Standard length, straight profile:

3.000 mm - equipped with flanges

标准长度, 直轨: 3,000 毫米 - 配备法兰

Trolley bearings:

Closed and greased for low maintenance

小车轴承:

含润滑油脂密封式版本以实现低维护

Horizontal curves / 水平弯头:

Degree: 90° / 45° / 30° / 15°

角度: 90° / 45° / 30° / 15°

Radius: 700 / 1.000 mm

半径: 700 / 1,000 毫米

Vertical curves / 垂直弯头:

Degree (depending on workload): 30° / 15°

角度 (取决于载重): 30° / 15°

Radius: 2.500 (1.500) mm

半径: 2,500 (1,500) 毫米

Special dimensions on request.

特殊规格可定制

Drive unit: Straight double-sided version

with caterpillar chain drives

驱动装置: 直线两侧版本, 由履带式链条驱动

Tension unit: Manual & pneumatic version

张紧装置: 手动和气动形式

Switching gate: Pneumatic blade version (without separate transfer sections).

R = 700 mm

道岔: 气动拨片形式 (不含单独的推动器)。

R = 700 毫米

Accumulation stops: Pneumatic version

积放停止器: 气动形式

Lubrication:

Pneumatic point lubrication - automatic

加油机: 气动定点式加油 - 自动

Accumulation features: In line, 45° and

parallel (90°)

积放形式: 直线、45°、平行 (90°角) 排列

Special features: Turning stations and drop sections

特色装置:

旋转站和下降区