



P&F140

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

The new P&F140 floor conveyor is a heavy-duty power & free floor conveyor offering first class reliability for next generation demands. The P&F140 is designed to meet the expectations of international clients, setting a new benchmark when it comes to handling the largest, and heaviest, unbalanced jigs.

新款P&F140地面输送机是为新一代需求提供一流可靠性的重型积放式地面输送机。此P&F140输送系统旨在满足国际客户的期望需求，为最大、最重、最摇晃不稳的夹具处理设定了新的基准。

Supreme accuracy in guiding is secured by the 4 horizontal guide bearings as well as the fully adjustable “Free” track. Compared to traditional skid systems or roller conveyors, the P&F140 operates with high reliability and smoothness. This is due to the limited use of drive units and sensors, requiring a minimum of effort and interference from the control system.

4个水平导向轴承和完全可调节的积放式轨道为高精度导向提供了保证。与传统滑橇系统和滚筒式输送机相比，P&F140的运行具有高可靠性和平稳性。这得益于系统所需驱动和传感器数量少，减少控制系统干扰。

System advantages / 系统的优点：

- Renowned and industry proven CALDAN build quality ensuring high reliability rates.
知名且行业公认的卡尔丹制造质量，确保产品的高可靠性
- Low maintenance - less moving sensible parts require less attention.
低维护需求 — 由于较少移动敏感运动机件，您无需为此操心
- Full flexibility - complete freedom during the design stage as well as the advantages from traditional Power & Free systems
全方位灵活性 — 拥有传统积放式系统的优点，且设计更灵活
- Simplified plant design - compact profile design minimizes restriction in airflow in spray booths, flash offs and ovens.
简化的工厂设计 — 紧凑的轨道设计最大限度地减少了喷漆、流平、烘烤车间内对气流的影响
- Goose neck design prevents wash fluids from entering the conveyor.
鹅颈式设计 — 为防止洗涤液进入输送系统的独特的卡尔丹设计方案
- Compact design minimizes overspray dust settling on the conveyor thereby stopping dust from travelling through the entire system.
低清洁需求 — 紧凑的设计最大限度地减少了落在输送机上的过喷粉尘，从而防止粉尘在整个系统中扩散





CALDAN conveyor - Let's Move Together!



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P&F140

Technical specifications / 技术规格

The Power & Free floor conveyor, Type P&F140, 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.

The trolley body is made of 6 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&F140型积放式地面输送机由3个卡尔丹轨道组成。在下面“动力”轨中，卡尔丹链条由一个或多个驱动装置驱动。在上面“运行”轨中，设计的小车和小车组由动力链条推头驱动。小车车身由6mm激光切割折边制成，配有4个密封载重轮和4个用于侧面导向的密封水平导向轮。

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 / 300 mm
链条节距: 180 / 270 / 300 毫米
Max. temperature (surrounding): 250° C
最高适用温度(周边): 250° C
Max. load per 4-wheeled trolley: 250 kg
每4轮式小车最大承载: 250 公斤
Max. load per wagon
(load bar with two trolleys): 500 kg
每小车组最大载总(一载重梁连接两个小车): 500 公斤
Standard length, straight profile: 3.000 mm
标准长度, 直轨: 3,000 毫米
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°.
Radius: Min. 1.250 mm and larger

角度: 90° / 45° / 30° / 15°.
半径: 最小值1,250 毫米 或以上
Vertical curves / 垂直弯头:
Degree (depending on workload): 30° / 15°.
Radius: 2.500 (1.500) mm
角度(取决于载重): 30° / 15°.
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 and pneumatic version
张紧装置: 手动和气动形式

Lubrication:
Pneumatic fog or point lubrication -
automatic
加油机: 气动定点式加油 — 自动

Accumulation features: In line, 45 or 90°
积放形式: 直线、45°、平行(90°角) 排列

Special features:
Turning stations, drop sections, switching
gates, transfer units and chain switches
特色装置:
旋转站、下降区、道岔、推车机、链条道岔