



P&F420

P&F overhead conveyor / 悬挂型积放式输送机

The flexible Power & Free system with a load capacity up to 10.000 kg.
此灵活性高的积放式系统有高达10,000公斤的负重能力。

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

通过简单可靠的小车组积放, 能够实现缓存区内45°或90°或直线排列放置。

Minimum accumulation distance - 400 mm.

最少积放间距为 400 毫米。

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

小车转向平顺, 无需使用推车机, 即可实现小车在不同线路间的切换, 从而降低了系统成本。

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

独特的小车和停止器设计, 保证小车组在积放区快速且可靠的车链分离。

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

采用模块化构件, 为输送机运行线路的配置提供了灵活性和自由度。

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

系统部件经过严格质量检测, 确保了系统即使是在严苛环境下也能运行。

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

小车与输送机链条之间无摩擦式分离, P&F420在积放时实现有效降噪。





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Technical specifications / 技术规格

The Power & Free conveyor type P&F420 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.

P&F420型积放式输送机由2个卡尔丹标准直轨组成。在上面“动力”轨中，卡尔丹链条由一个或多个驱动装置驱动。在下面“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。链条节距和积放区距可以根据客户要求设计。小车可根据搬运要求，被分离及积放成直线或45°或90°排列于积累区内。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，取决于载重，可以实现30°通过上下坡段。

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 trolley (4-wheeled): 1000 kg
每小车最大承载(4轮式): 1000 公斤
Max. load per wagon (load bar with 2 / 4 / 8 / 16 trolleys): 2.000 / 4.000 / 6.000 / 10.000 kg
每小车主最大载总(含载重梁的2/4/8/16个小车组合): 2,000 / 4,000 / 6,000 / 10,000 kg
Standard length, straight profile: 3.000 mm
标准长度, 直轨: 3,000 毫米
Trolley wheels / chain bearings:
Open or sealed and greased version
小车轮/链板轴承:
非密封式或含润滑油脂密封式
Horizontal curves:
水平弯头:
Degree: 90° / 45° / 30° / 15°

角度: 90° / 45° / 30° / 15°
Radius: Min. 1.500 mm
半径: 最小值 1,500 毫米
Vertical curves: Depending on workload
垂直转弯: 取决于负载重量
Drive unit: Straight version with double sided caterpillar drive or 90° version with driving wheel. Gear motor with fixed or variable speed
驱动装置: 直线形式, 由双侧履带式驱动, 或90°形式, 由驱动轮驱动。齿轮马达为定速或变速。
Tension unit:
Manual or pneumatic/ weight-loaded
张紧装置: 手动或气动/重力式
Switching gate: Manual, pneumatic or electrical version
道岔: 手动或气动或电动
Vertical drop- and lift section: Available in

guided/ floor mounted version or unguided and suspended from the ceiling
垂直升降: 可选择带导轨/落地式或无导轨式, 悬挂于楼顶上
Accumulating stop:
Pneumatic or electrical version
停止器: 气动或电动
Pneumatic lubrication: Semi- or fully automatic version. Point- or fog lubrication of the cardan chain and / or the trolleys
气动式加油机: 半自动或全自动版本。定点或喷雾式对链条及小车进行加油。
Special designs: E.g. turning stations
特殊设计: 例如转向站
Accumulation possibilities:
Automatic. In-line, 90° and 45°
积放功能: 自动, 直线或90°角或45°角排列