



P&F100S - vertical Power & Free floor conveyor .

P&F100S

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

The new CALDAN P&F100S is the further development and Power & Free version of our renowned HD100S “Stepper”. Based on the proven CALDAN triple rail system, and the design principle of high presentation accuracy and stability, the new P&F100S takes floor conveyor technology to a new level.

新款卡尔丹P&F100S是经进一步开发,是知名HD100S “Stepper” 的积放式版本。基于经验证的卡尔丹三轨系统,以及高到位精度和稳定性的设计原则,新款P&F100S将地面输送机技术提升到了一个新的水平。

The accumulation and separation of trolleys is highly reliable, and a smooth trolley transfer is achieved by using conventional switching gates without expensive transfer units.

小车可实现可靠的积聚和分离。使用常规道岔而无需昂贵推进装置,小车便可在输送机上顺畅切换路径。

The system conveys work pieces on vertical rise and fall sections without tilting - the work piece remains vertical at all times. This allows for the system to be designed with less space requirements and thus requiring less energy in ovens etc., as the work pieces can be conveyed at closer pitches around the system.

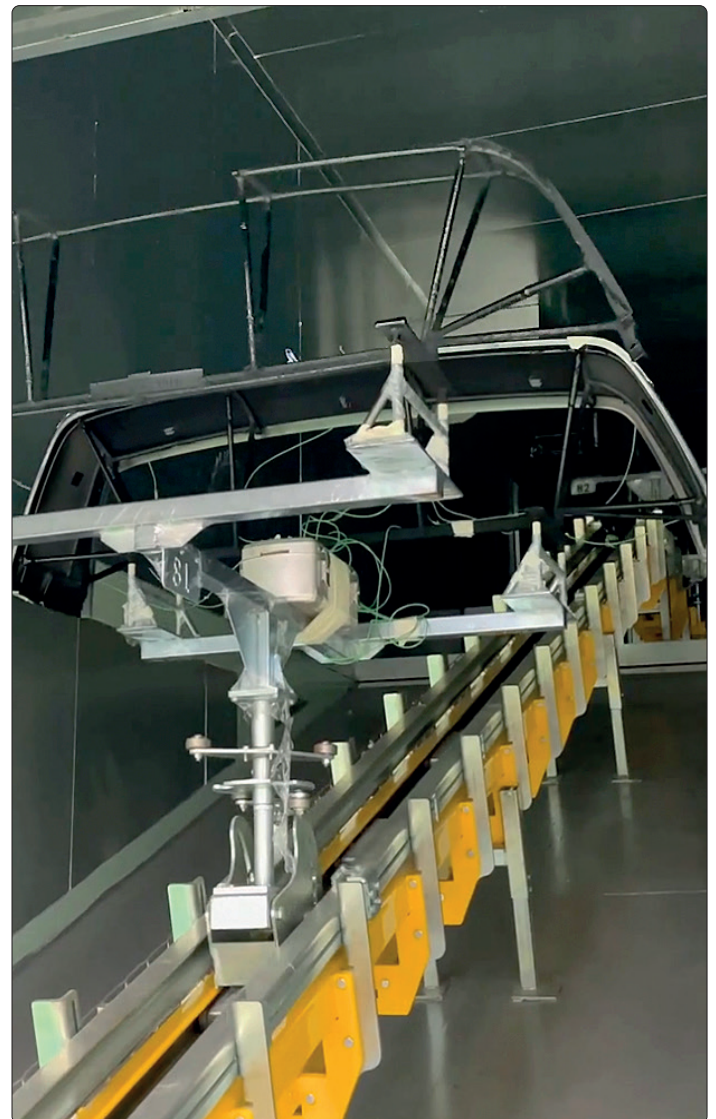
系统能在上下坡段输送工件时不发生倾斜—工件始终保持垂直。这便可降低在系统设计时对空间大小的要求。同时,由于工件可以在系统周围以更近的距离运行,更小的空间需求有效降低烘烤炉等设备的能耗。

Further advantages include the use of a more economical jig design, less influence of gravity force on jigs / wagons and minimised risk of parts falling from jigs in the vertical rise and fall sections.

更多的优点包括可采用更为经济夹具设计、夹具/小车组受重力影响减少以及工件在上下坡段从夹具上掉落风险的最小化。

As with all CALDAN products, the system has been designed and pre-built in our R&D department, and fully tested before being introduced to the marketplace.

与所有卡尔丹产品一样,该系统已在我们的研发部门进行了设计和预构建,并在投放市场前进行了全面的检测。





P&F100S

Technical specifications / 技术规格

The Power & Free floor conveyor, Type P&F100S, 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 trolleys are driven by power chain carriers, via pivotal pawls attached to the front and back of the trolley.

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 can be separated from the power chain and accumulated in in-line 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.

P&F100S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。

每个小车都能与动力链条脱离，并聚集于直线积放区域。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。

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: 50 kg
每四轮小车最大承载: 50 公斤
Standard length, straight profile:
3.000 mm - equipped with flanges
标准长度, 直轨: 3,000 毫米 - 配置法兰
Trolley bearings:

Closed and greased for low maintenance
小车轴承: 含润滑油脂密封式以实现低维护

Horizontal curves / 水平弯头:
Degree: 90° / 45° / 30° / 15°. Radius: 700 / 1.000 mm.
角度: 90° / 45° / 30° / 15°. 半径: 700 / 1,000 毫米.
半径: 700 / 1,000 mm

Vertical curves / 垂直弯头:
Radius: 700 / 1.000 mm
半径: 700 / 1,000 毫米
Degree (depending on workload): 30° / 15°.
Radius: 2.500 (1.500) mm
角度(取决于负载): 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: 直线双侧履带式链条驱动
Tension unit:
Manual and pneumatic version
张紧装置:
手动和气动方式

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
积放形式: 直线排列
Special features:
Turning stations and drop sections
特色装置: 旋转站和下降区