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## Aero-Mechanical conveyors 空气机械输送机



### 关于我们

HIWAY的设计和生都是在意大利完成,具有一流的质量和可靠性,在世界任何地方都能得到良好的技术支持。HIWAY是创新输送系统中输送粉料的最佳供应商。



### Our company

HIWAY design and manufacture their products in Italy, assuring quality, reliability and assistance. HIWAY is leader in the field and is synonymous with high quality in a wide range of innovative systems for the handling of bulk materials and powders.



### Unsere Firma

HIWAY entwickelt und stellt alle ihre Erzeugnisse in Italien dank der Professionalität und Zuverlässigkeit her. HIWAY hat eine führende Stellung in diesem Bereich und der Name ist mit hoher Qualität unter vielen Systemen für die Bearbeitung von Losen- und Pulverwaren gleichbedeutend.



### Nuestra empresa

HIWAY proyecta y construye todos sus productos en Italia, garantizando profesionalidad, fiabilidad y asistencia. HIWAY es un nombre líder en este sector y es sinónimo de alta calidad en el ámbito de una vasta gama de sistemas para la manipulación de materiales a granel y en polvo.



Leader in powder handling

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# HiWay®

Leader in powder handling

粉料处理领导者



# HiWay空气机械输送机

HiWay空气机械输送机适用于各类粉料和颗粒运输中。一套系统是由联通管子的两件或多件转角轮构成，在转角轮配备的适当齿环内，绳子会咬合，并且在管子内被轴向牵拉。在牵拉阶段，沿着绳子特定间隔的塑料盘会造成较小的抽吸腔，后者确保材料不会分层，而易碎产品不会降解。

在绳盘上的线性速度会造成空气移动，从而让材料流动，并且轻便地将其运输。

低能耗确保了高产量和高效益。

绳盘的离心作用让运输期间产生的气体分离成为可能。产品卸载是由一个特殊的卸载出口引起的，后者可以让材料流出，立即抑制并减少回路内的空气。

粉料不流入环境，输送不同密度产品的可能性，既有设备内的轻松整合是使该系统有效，可靠，环保且非常多功能。



HiWay使用了优质材料：弧线为碳钢或AISI 304或316不锈钢材质，管子和绳索是镀锌碳钢或不锈钢，盘则是聚氨酯，尼龙，酯等材料。低电功率（见表格），最小的必要维护，安装的简便性，精粹的设计，系统的可组合性，高性能使得HiWay输送机成为适合最困难需要的多功能系统。

## HiWay Aero-Mechanical Conveyors

HiWay aero-mechanical conveying systems are designed to handle a wide variety of powders, granular products and bulk material. The system is a high speed cable and disc conveyor made up of two or more special housings connected by tubes and fitted with particular sprockets, which turn the rope passing it on to the conveying tube.

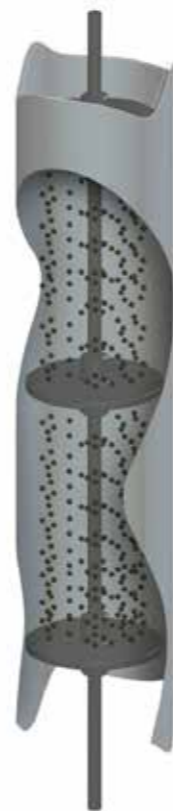
The plastic discs fixed on the cable at regular intervals create discrete air pockets as they travel along the tube. Materials are conveyed with the minimum of degradation and separation, which is particular important with friable and fragile materials.

The high linear speed imparted to the discs issues estrema as to create air displacement with consequent material fluidization, high-speed running and significant lower power consumption, which guarantee high efficiency and considerable outputs.

Discharge of the material from the air stream is achieved by centrifugal action: the product passes out through a discharge end, while the air is recirculated down the return tube into the circuit.

The totally enclosed, dust-free handling environment, the wide variety of handled products with different specific weights and the highly adaptable capacity of the system to match existing plants make HiWay aeromechanical conveyors extremely efficient, reliable, ecological and highly versatile.

HiWay aero-mechanical conveying systems are manufactured from very high quality materials: corners are made of mild steel or 304 or 316 stainless steel, tubes and ropes are produced in galvanized mild steel or stainless steel, discs in polyurethane, nylon, estane etc. The low power requirements (see table), the minimal maintenance, the simple assembly, the light design, the modular construction and the high performance of the system make HiWay highly adaptable to meet the most particular challenges.



## 主要的输送机版本 - Main versions of conveyors



TVE - CV  
(多功能)类空气机械输送机

凭借输送机从0°到90°的定向，理性设计确保了系统的效率和多功能性。

TVE - CV Aero-Mechanical Conveyor (vertical)

The rational design guarantees a highly efficient and versatile system with angles of operation from 0° to 90°.



TVE - COV  
类空气机械输送机 (横向/纵向)

管子（第一横段、第二竖段）的配置可以呈现多个入口，并且可以将管路重叠或并排。

TVE - COV Aero-Mechanical Conveyor (horizontal/vertical)

The tubular construction – first section horizontal, second section vertical – is fitted with one or more inlets and with tubes arranged vertically or horizontally side by side.



TVE - BCV  
类(竖直)双向空气机械输送机

通过该方案，可以给两处供源，只要将机动转向反转即可。

TVE - BCV Bidirectional Aero-Mechanical Conveyor (vertical)

This solution is designed for feeding two loading hoppers, simply inverting the drive unit rotation.



TDN  
类(横向)分配输送机

分配输送机运行时，管路内绳索的转速较低，而输送机配置了多个带有气动或手动闭合阀的卸料口，利用了空气机械系统的相同配件。

TDN Distribution Conveyor (horizontal)

The TDN distribution conveyor is operated at slow rotating speed of the cable within the tube; it is fitted with multiple outlets and pneumatic or manual cut-off valves and has similar accessories to the aero-mechanical systems.

## 应用范例 - Examples of applications



### 空气-机械输送机 - 规格 Aero-Mechanical Conveyors - Specifications

款型 TYPE	安装功率 POWER	承载 TROUGHPUT
TVE 76	1,5/2,2 KW	15 m³/h
TVE 114	2,2/3 KW	35 m³/h

### 分配输送机 - 规格 Distribution Conveyors - Specifications

款型 TYPE	安装功率 POWER	承载 TROUGHPUT
TDN 76	1,5/2,2 KW	8 m³/h
TDN 114	2,2/3 KW	16 m³/h

有ATEX版本可用 - AVAILABLE IN ATEX VERSION

## 主要的输送材料 - Main products handled by HiWay

石灰  
碳酸钙  
滑石粉  
二氧化钛  
硅酸盐  
纤维素  
三聚氰胺  
尿素  
石英粉

樟  
干胶片  
氧化铅  
氧化铁  
木粉  
咖啡  
奶粉  
橄榄壳  
茶

辣椒  
糖  
爆炒米  
爆米花  
可可  
雾化粘土  
炭黑  
PVC粉料和颗粒  
PET

Lime  
Calcio carbonate  
Talcum  
Titanium dioxide  
Silicate  
Cellulose  
Melamine  
Urea  
Quartz powder  
Camphor

Dried glue flakes  
Lead oxide  
Iron oxide  
Wood flour  
Coffee  
Milk powder  
olive husk  
tea  
Spices

Sugar  
Puffed rice  
Pop corn  
Cocoa  
Atomized clay  
Carbon black  
PVC powder and granules  
PET