

# HUMBERT & POL

*Förderanlagen - Conveying Systems*



*SYSTEMS FOR THE IN-HOUSE MATERIAL HANDLING*



Pendulum Bucket  
Conveyors



Belt Conveyors



BIG BAG  
Filling and  
Discharge Stations



Spiral  
Conveyors



Lifting and  
Tipping Stations



Engineering

Consultancy   Planning   Manufacturing   Assembling   Maintenance





H  
U  
M  
B  
E  
R  
T  
&  
P  
O  
L

For over 50 years now HUMBERT & POL has been your partner of choice for the design and manufacture of handling systems for in-house bulk product and unit loads.

Combining superbly engineered classical conveying systems with bespoke specialist equipment, our engineers and technicians will produce individual solutions for a wide range of industries and handling needs, from hygiene sensitive food all the way up to heavy industry.

We use the widest possible variety of material in the manufacture of our products – from mild to high quality stainless steel (CRES/SST304/SST313) as well as high-tech surface coatings.

When it comes to complete plant turnkey engineering, our customers benefit from the outset from our extensive expertise, whether dealing with single conveyor belts, complex conveying machinery or a specialist solution.

For many years HUMBERT & POL's customers throughout the world have appreciated our simple order processing systems and our ability to keep delivery promises. Because our company is medium sized and we work together with specialised partners, we are also able to achieve the flexibility required to fulfil specialised requests. Whatever your application, we will come up with the most reliable and competitive solution.





Pendulum Bucket  
Conveyors

### Gentle product handling

Whether your materials handling requirements are for segregation or degradation free movement, dust or gas tight handling, HUMBERT & POL pendulum bucket elevators provide every possible solution for the gentle and efficient handling and distribution of your material in bulk. Modular design provides for flexible construction making subsequent modifications to the conveyor layout a simple task.



Belt Conveyors

### Belt conveyors for all fields of application

Modern conveyor technology, accurately tailored to your requirements and conveyor standards. We offer efficient belt conveyor systems for virtually all industry requirements, the most varied construction methods, dimensions and drive types, as well as a multitude of additional options and service features.



BIG BAG Filling  
and Discharge  
Stations

### BIG BAG handling

Secure filling and discharging of all Big Bag sizes with or without inner liner, for free or poorly flowing, dusty or abrasive products. HUMBERT & POL fill and discharge stations offer individually designed solutions to meet customer specifications, customer-focussed solutions which can be extended to multifaceted components.



Spiral Conveyors

### Vertical unit load handling

Continuous material handling up or down. Maximum space saving vertical conveyor technology using a column design for unit loads such as cardboard boxes, trays, bags, drums or similar. This guarantees maximum efficiency with minimal amount of control installation costs. May also be used as storage.



Lifting and  
Tipping Stations

### Tipping, tilting, lifting

Customised lift and tip stations to optimise production cycles. Our lift and tip stations lift and discharge boxes, plastic stackable containers and pallets at any set height. Not only can they for example be suited to the design of the ergonomic workplace, but virtually all bulk materials can also be discharged from different types of containers.



Engineering

### Engineering/Installation

From initial planning to commissioning and beyond, HUMBERT & POL will be with you to provide comprehensive and professional help and advice. From your first consultation, working together at the design and project stage, through control design and installation, you'll get everything from a single source.



## Deutschland

---

HUMBERT & POL GmbH & Co KG

St. Annener Str. 117

D-49326 Melle

Tel.: 05428 / 9292-0

Fax: 05428 / 707

[www.humbertundpol.com](http://www.humbertundpol.com)

[info@humbertundpol.com](mailto:info@humbertundpol.com)

## International

---

Canada / USA

Denmark

England

Finland

Greece

Israel

Sweden

Switzerland





# HUMBERT & POL

Förderanlagen - Conveying Systems

## PENDULUM BUCKET CONVEYORS

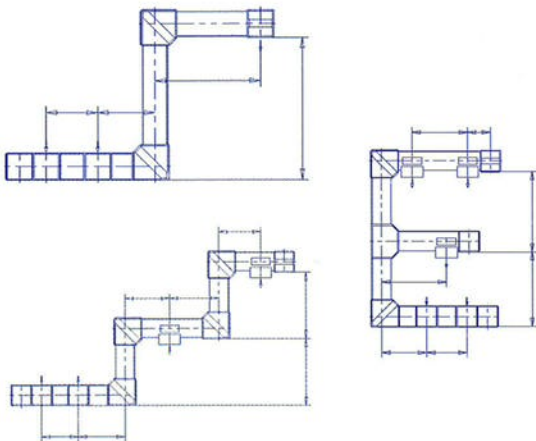
Manifold completions for the careful bulk handling

- ✓ *SUITABLE FOR YOUR REQUESTS*
- ✓ *ALIGNED TO CONVEYED MATERIAL AND CONVEYOR CAPABILITY*
- ✓ *INDIVIDUAL ROUTEING*



### The most gentle way to handle bulk products

Whether you require demulsified-free, break-proof or dust-free transportation: **HUMBERT & POL** pendulum bucket conveyors offer all possibilities to transport and fill your bulk material efficiently and with careful handling. Besides the generally feasible horizontal and vertical conveyance in a machine, there are several ways for filling and discharge stations.



Setting up samples

### Fundamental Advantages

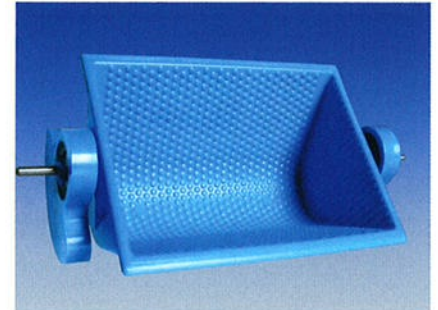
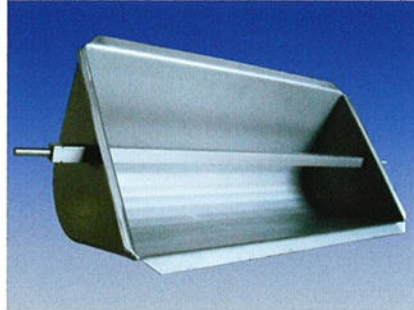
- Careful handling during smooth operation
- Perfect accessibility for service and maintenance
- Optional integrated bucket cleaning station for dry and wet cleaning
- Guaranteed future. Aligned to altered conveying tasks in your factory, **HUMBERT & POL's** modular designs allow a new setting up of pendulum bucket conveyors at all times.
- A wide range of setting up options enables ideal logistics and the ideal use of your room.

### For all bulk materials with special production requirements

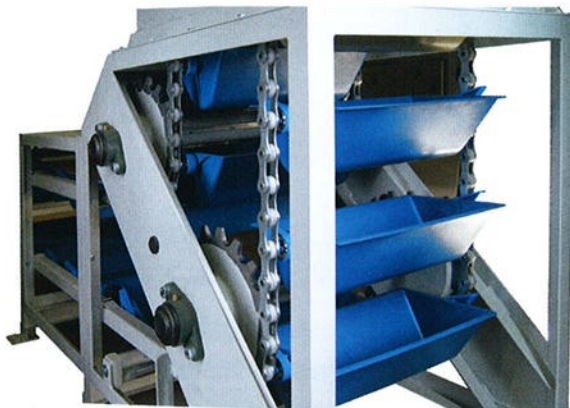




## Conveyor Bucket Models



For virtually all applications and special functions **HUMBERT & POL** offers suitable conveyor buckets. The selection of the construction material normally results from the transported material's specifications.



Housing without covering

We offer diverse plastic models such as fibre-glass reinforced, detectable, electro-conductive and accredited compatibility for use in food. You obtain metal works of the conveyor buckets in mild steel, stainless steel or aluminium. Optionally we offer nubby bucket inner surfaces, perforated bucket tanks or coated surfaces of all sorts such as Teflon-coatings.

The **CONVEYOR CHAIN** can be made of case hardening, heat treatable or stainless steel. The corresponding rollers can be made of steel, stainless steel or plastics. Hence for your case of operation ideal material pairing is guaranteed.

## Housing Design

**HUMBERT & POL** provides a great variety of closed or open housing designs for pendulum bucket conveyors: in mild steel with diverse types of coatings, for example powder-coating, wet-varnishing or hot-dip galvanised as well as in different corrosion-resistant steels.

## Special Applications & Options

In addition the following options, depending on application and requirements, are available:

- individual bucket tilting
- gas-proof appliances
- integrated weighing
- conveyor bucket cleaning wet and dry
- ATEX-compatible models

*Do you have any enquiries?*

*Don't hesitate to contact us.*

Telephone: **+49 (0)5428 - 92 92-0**

Fax: **+49 (0)5428 - 707**

[info@humbertundpol.com](mailto:info@humbertundpol.com)

**HUMBERT & POL**

further Infos



[humbertundpol.com](http://humbertundpol.com)





## Pendulum bucket cleaning

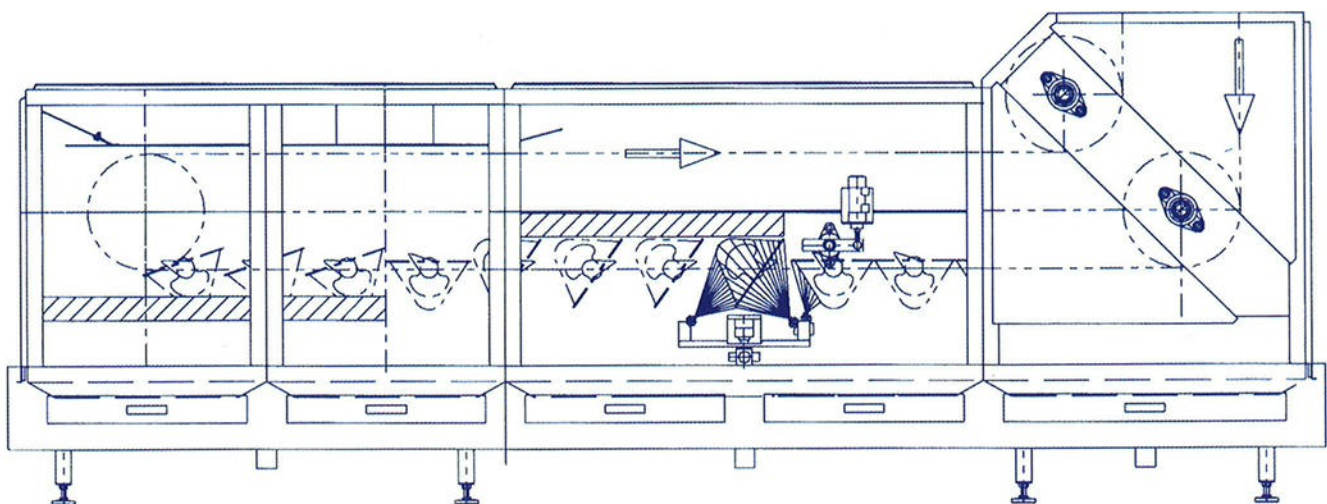
Semi- or fully automatic integrated station

- ✓ *POTENTIAL TO EXTEND  
FOR AUTOMATIC CLEANDOWN OF CASING*
- ✓ *DRY CLEAN VERSION ALSO AVAILABLE*



### Wet or dry cleaning of pendulum elevator buckets

HUMBERT & POL offers an innovative and patented elevator bucket cleaning module with downstream bucket drying or aspiration system, which can be integrated into existing pendulum bucket elevators. Time-consuming manual cleaning according to product and colour changes can therefore be minimised or even dispensed with completely. - At the end of a conveying run, the cleaning programme then commences on a predetermined cycle. The cleaning nozzles move diagonally to the direction of travel beneath the upturned buckets. Any product residue is thus removed.



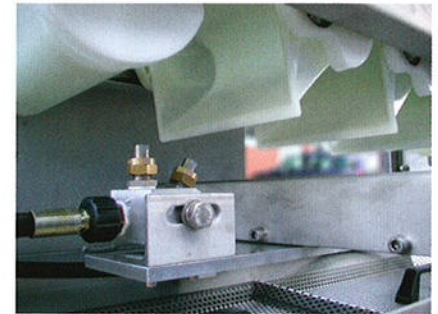
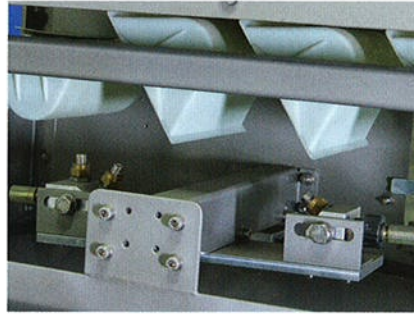
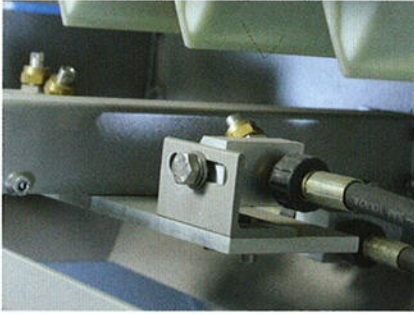
### Optimum cleaning results

The exact timing and positioning of the buckets, together with the linear drive fitted with cleaning nozzles, provide for optimum cleaning of the conveyor buckets both from the inside and outside in one operation cycle. The cycle length can be individually adjusted according to the level of contamination.

During wet cleaning the pressure is increased by means of a high pressure cleaner. Results can be improved by use of hot water and cleaning additives. For dry cleaning, low noise and energy efficient flat spray nozzles are utilised.



## Upgrade or retrofit a cleaning system



To achieve a perfectly clean finish in the elevator buckets, the automatic nozzle holders can be set with regard to jet direction, exposure time, hydraulic and air pressure.

## Drying/ Aspiration

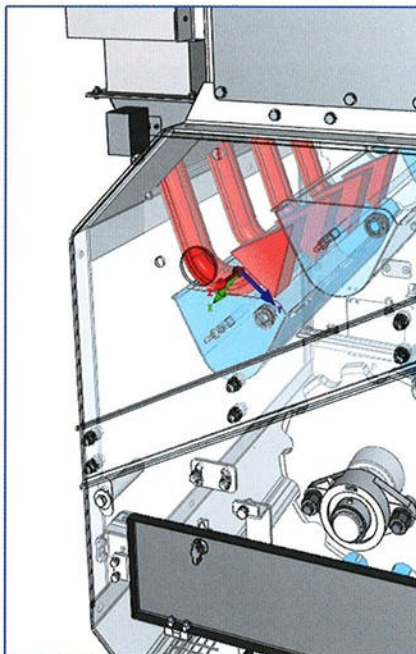


Fig. Pendulum bucket drying

### Detailed operation

Elevator buckets are dried by means of hot air. The buckets swing into the ideal position in the dry air zone.

The elevator buckets are dried quickly and in a gentle manner by a hot air current. The conveyor chain is dried separately with compressed air.

Compressed air is used to blow off the elevator buckets in the dry cleaning station. Detached dust and dirty particles are immediately removed by suction.

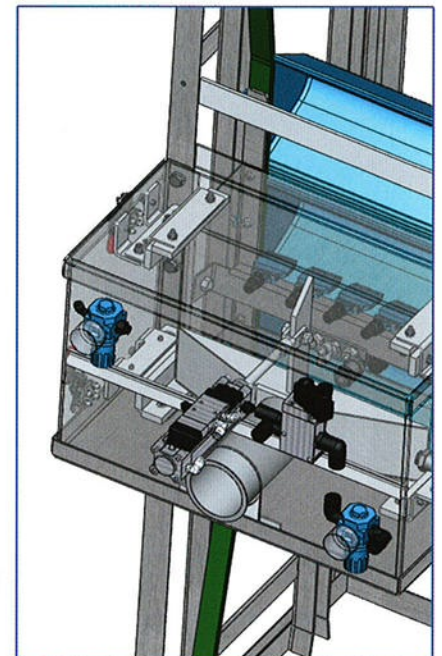


Fig. Dry cleaning

## Options

- Solvent spraying
- Disinfection
- Extension for casing cleandown with tank wash nozzles
- Semi-automatic version

*Do you have any enquiries?*

*Don't hesitate to contact us.*

**Telephone: +49 (0)5428 - 9292-0**

**Fax: +49 (0)5428 - 707**

**info@humbertundpol.com**

**HUMBERT & POL**

further Infos



humbertundpol.com