



FACTSHEETBOOK

Vertical Transport Systems

Products of APOLLO VTS

Spiral Conveyor
Twister
Monorail Conveyor
Bucket Elevator





About the Royal APOLLO Group

Every day we strive to develop and deliver products and services that help our customers grow. Because standing still brings you nowhere, it might even move you backwards. Especially when it comes to the production lines of our customers.

ALWAYS MOVING DREAMS TO REALITY
Standing on the shoulders of her ancestors, Claudia is the 6th generation of the Van den Pol family. A family of entrepreneurs that grew from a blacksmith that started in 1847 into a worldwide player in a niche market. Being a worldwide player, means being close to our

global customers. Claudia and all APOLLO employees are determined to realize the long-term goals of APOLLO and their customers with energy, drive and vision.



Models & Types*

Single Lane Spiral Conveyors

| Type | Dstc 1 | D | B |
|----------|--------|------|-----|
| 1200-300 | 1200 | 1600 | 300 |
| 1300-400 | 1300 | 1800 | 400 |
| 1500-400 | 1500 | 2000 | 400 |
| 1600-500 | 1600 | 2200 | 500 |
| 1600-600 | 1600 | 2300 | 600 |
| 1700-600 | 1700 | 2400 | 600 |
| 1800-650 | 1800 | 2550 | 650 |

Dual Lane Spiral Conveyors

| Type | Dstc 1 / Dstc 2 | D | B |
|---------------------|-----------------|------|-----|
| 1200-300 / 2000-300 | 1200 / 2000 | 2400 | 300 |
| 1300-400 / 2300-400 | 1300 / 2300 | 2800 | 400 |
| 1600-500 / 2800-500 | 1600 / 2800 | 3400 | 500 |

Mass Flow Spiral Conveyors

| Type | Dstc 1 | D | B |
|----------|--------|------|-----|
| 2100-254 | 2100 | 2454 | 254 |
| 2400-500 | 2400 | 3000 | 500 |
| 2500-400 | 2500 | 3000 | 400 |

Heavy Duty Spiral Conveyors

| Type | Dstc 1 | D | B |
|-------------|--------|------|-----|
| 1700-400-HD | 1700 | 2200 | 400 |
| 1700-600-HD | 1700 | 2400 | 600 |

Narrow Trak Spiral Conveyors

| Type | Dstc 1 | D | B |
|----------|--------|------|-----|
| 1100-150 | 1100 | 1350 | 150 |
| 1200-230 | 1200 | 1530 | 230 |

Wide Trak Spiral Conveyors

| Type | Dstc 1 | D | B |
|----------|--------|------|-----|
| 2200-760 | 2200 | 3060 | 760 |
| 3000-900 | 3000 | 4000 | 900 |

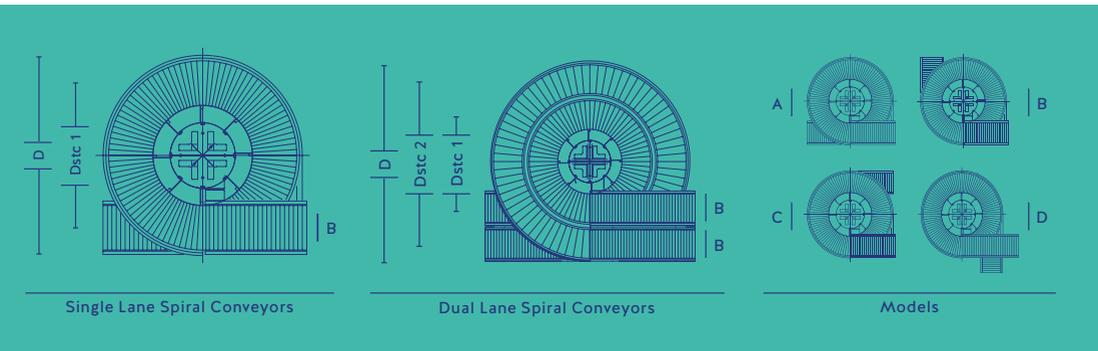
*Other Models & Types on request



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Designed to handle...

SINGLE & DUAL LANE



MASS FLOW



HEAVY DUTY



NARROW TRAK



WIDE TRAK



BUCKET ELEVATOR





Spiral Conveyor Single Lane

The APOLLO Spiral Conveyor is a proven reliable concept in vertical conveying, designed to conserve valuable floor space. The guide system includes low friction steel bearings and the chain is made of a heavy duty chrome plated steel construction. The guide rails are made of polyurethane embedded in an extruded aluminium profile. The slats are of moulded reinforced polycarbonate.

The Facts

- 50 kg/m
- 60 m/minute
- One motor
- Possibility to ship in several pieces
- Operate 24/7
- Small footprint
- Low friction operation
- Built-in protection

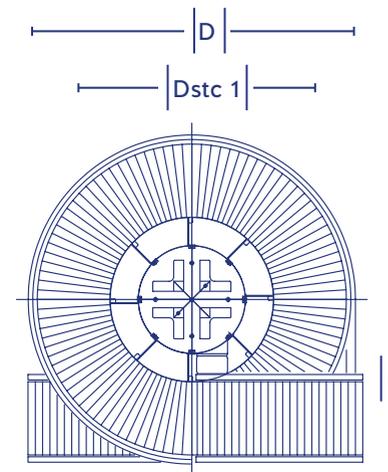


Designed to handle...



Facts & Measurements

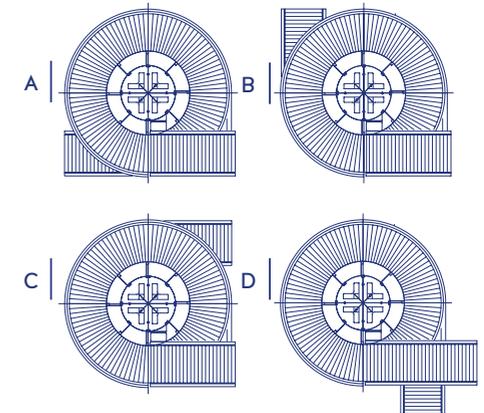
The APOLLO Spiral Conveyors are of modular design and are available in several standard versions to accommodate a wide range of loads and applications. The Spiral Conveyors can go up or down and can be made reversible. All models can have extended infeed or outfeed, making Spiral Conveyors easy to fit in most lay outs.



Models & Types*

| Type | Dstc 1 | D | B |
|----------|---------|---------|--------|
| 1200-300 | 1200 mm | 1600 mm | 300 mm |
| 1300-400 | 1300 mm | 1800 mm | 400 mm |
| 1500-400 | 1500 mm | 2000 mm | 400 mm |
| 1600-500 | 1600 mm | 2200 mm | 500 mm |
| 1600-600 | 1600 mm | 2300 mm | 600 mm |
| 1700-600 | 1700 mm | 2400 mm | 600 mm |
| 1800-650 | 1800 mm | 2550 mm | 650 mm |

*Other types on request



Configurations

Standard machine

| Part | Specifications |
|---------------------|---|
| Base structure | Coated aluminium pipe with galvanized cross beams |
| Chain configuration | Chrome plated chain |
| Plating | Coated in specified RAL colour |

Stainless steel dry use

| Part | Specifications |
|---------------------|---|
| Base structure | Stainless steel pipe with stainless steel cross beams |
| Chain configuration | Chrome plated chain |
| Plating | Stainless steel |

Stainless steel wash down

| Part | Specifications |
|---------------------|---|
| Base structure | Stainless steel pipe with stainless steel cross beams |
| Chain configuration | Chrome plated chain with stainless steel bearings |
| Plating | Stainless steel |



Spiral Conveyor Dual Lane

The APOLLO Dual Lane Spiral Conveyors have got two tracks running next to each other. Both tracks are separately driven and have the possibility to run synchronised or with different speeds and/or in opposite directions. This feature provides large flexibility for production facilities, where floor space is of utmost importance. The Dual Lane Spiral Conveyor can be executed with different track widths.

The Facts

- 50 kg/m
- 60 m/minute
- Small footprint
- Possibility to ship in several pieces
- Operate 24/7
- Low friction operation
- Built-in protection
- Double capacity

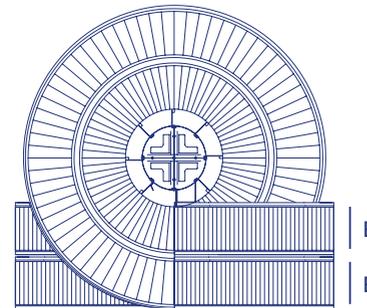


Designed to handle...



Facts & Measurements

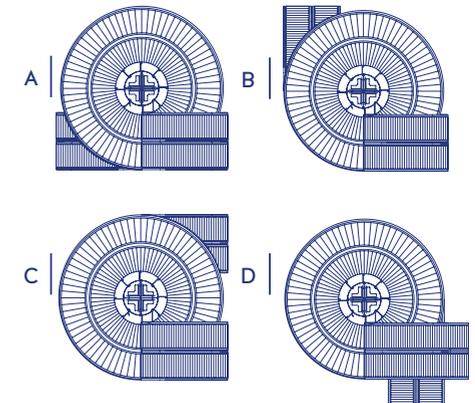
The APOLLO Spiral Conveyors are of modular design and are available in several standard versions to accommodate a wide range of loads and applications. The Spiral Conveyors can go up or down and can be made reversible. All models can have extended infeed or outfeed, making Spiral Conveyors easy to fit in most lay outs.



Models & Types*

| Type | Dstc 1 | Dstc 2 | D | B |
|---------------------|---------|---------|---------|--------|
| 1200-300 / 2000-300 | 1200 mm | 2000 mm | 2400 mm | 300 mm |
| 1300-400 / 2300-400 | 1300 mm | 2300 mm | 2800 mm | 400 mm |
| 1600-500 / 2800-500 | 1600 mm | 2800 mm | 3400 mm | 500 mm |

*Other types on request



Configurations

Standard machine

| Part | Specifications |
|---------------------|---|
| Base structure | Coated aluminium pipe with galvanized cross beams |
| Chain configuration | Chrome plated chain |
| Plating | Coated in specified RAL colour |

Stainless steel dry use

| Part | Specifications |
|---------------------|---|
| Base structure | Stainless steel pipe with stainless steel cross beams |
| Chain configuration | Chrome plated chain |
| Plating | Stainless steel |

Stainless steel wash down

| Part | Specifications |
|---------------------|---|
| Base structure | Stainless steel pipe with stainless steel cross beams |
| Chain configuration | Chrome plated chain with stainless steel bearings |
| Plating | Stainless steel |



Spiral Conveyor Mass Flow

The APOLLO Mass Flow Spiral Conveyors are designed to handle full and empty bottles, cans, jars and other similar single containers. Products are conveyed up or down in a continuous mass flow. APOLLO Spiral Conveyors have a small footprint and provide considerable space savings compared to conventional methods. The Mass Flow Spiral Conveyors are equipped with extended in- and outfeed tangents to facilitate smooth side transfer to and from external conveyors. Mass Flow Spiral Conveyors can be delivered with integrated in- and outfeed conveyors to ensure a smooth side transfer of products.

The Facts

Up to 120.000 bottles/cans per hour

One motor

Possibility to ship in several pieces

Low friction operation

Operate 24/7

Built-in protection

Side transfer



Designed to
handle...



Cans



Jars



Bottles



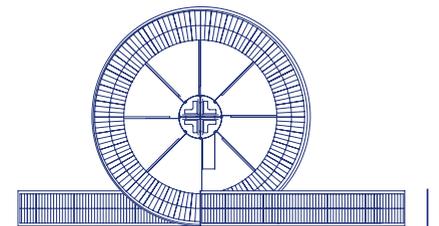
Cups



Pouches

Facts & Measurements

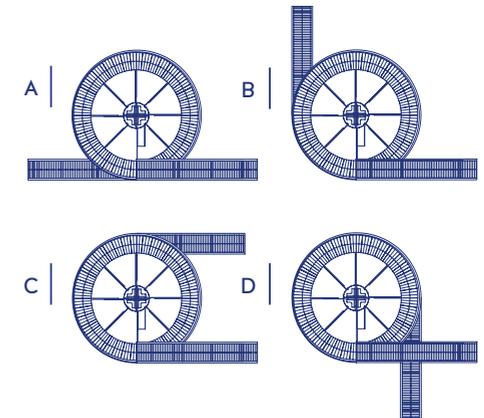
The APOLLO Spiral Conveyors are of modular design and are available in several standard versions to accommodate a wide range of loads and applications. The Spiral Conveyors can go up or down and can be made reversible. All models can have extended infeed or outfeed, making Spiral Conveyors easy to fit in most lay outs.



Models & Types*

| Type | Dstc 1 | D | B |
|------------|---------|---------|--------|
| 2100 - 254 | 2100 mm | 2454 mm | 254 mm |
| 2400 - 500 | 2400 mm | 3000 mm | 500 mm |
| 2500 - 400 | 2500 mm | 3000 mm | 400 mm |

*Other types on request



Configurations

Standard machine

| Part | Specifications |
|---------------------|---|
| Base structure | Coated aluminium pipe with galvanized cross beams |
| Chain configuration | Chrome plated chain |
| Plating | Coated in specified RAL colour |

Stainless steel dry use

| Part | Specifications |
|---------------------|---|
| Base structure | Stainless steel pipe with stainless steel cross beams |
| Chain configuration | Chrome plated chain |
| Plating | Stainless steel |

Stainless steel wash down

| Part | Specifications |
|---------------------|---|
| Base structure | Stainless steel pipe with stainless steel cross beams |
| Chain configuration | Chrome plated chain with stainless steel bearings |
| Plating | Stainless steel |



Spiral Conveyor Heavy Duty

The APOLLO Heavy Duty Spiral Conveyors can handle double the weight of our regular Spiral Conveyors. They can be shipped in one piece, which drastically reduces time and installation costs. The load capacity is 100 kg per meter for speeds up to 60 m/min. Only one motor is required, resulting in substantial savings in energy, controls and system integration. The Heavy Duty Spiral Conveyors can be delivered with shoot in and out conveyors for a multi-level product flow.

The Facts

- 100 kg/m
- 60 m/minute
- Possibility to ship in several pieces
- Built-in protection
- One motor
- Small footprint
- Operate 24/7

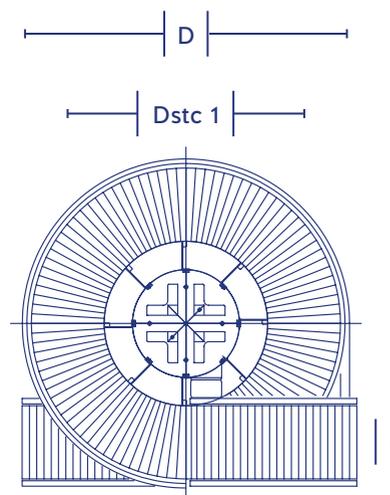


Designed to handle...



Facts & Measurements

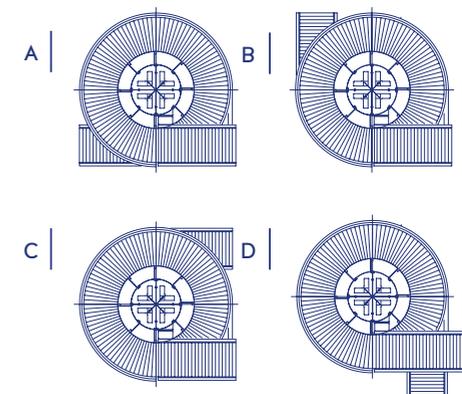
The APOLLO Spiral Conveyors are of modular design and are available in several standard versions to accommodate a wide range of loads and applications. The Spiral Conveyors can go up or down and can be made reversible. All models can have extended infeed or outfeed, making Spiral Conveyors easy to fit in most lay outs.



Models & Types*

| Type | Dstc 1 | D | B |
|-------------|---------|---------|--------|
| 1700-400-HD | 1700 mm | 2200 mm | 400 mm |
| 1700-600-HD | 1700 mm | 2400 mm | 600 mm |

*Other types on request



Configurations

Standard machine

| Part | Specifications |
|---------------------|---|
| Base structure | Coated aluminium pipe with galvanized cross beams |
| Chain configuration | Chrome plated chain |
| Plating | Coated in specified RAL colour |

Stainless steel dry use

| Part | Specifications |
|---------------------|---|
| Base structure | Stainless steel pipe with stainless steel cross beams |
| Chain configuration | Chrome plated chain |
| Plating | Stainless steel |

Stainless steel wash down

| Part | Specifications |
|---------------------|---|
| Base structure | Stainless steel pipe with stainless steel cross beams |
| Chain configuration | Chrome plated chain with stainless steel bearings |
| Plating | Stainless steel |



Spiral Conveyor Narrow Trak

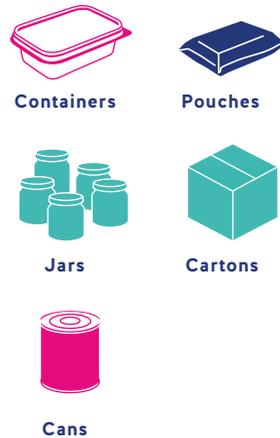
The APOLLO Narrow Trak Spiral Conveyor is designed with the proven reliable APOLLO Spiral Conveyor philosophy being; rolling friction. The chain slat arrangement in combination with the smaller base structure makes the Narrow Trak a perfect solution to transport small, single items. The Narrow Trak Spiral Conveyor contains a specific slat design which allows side transfers instead of head to head transfer, allowing small products to enter and exit the Spiral Conveyor.

The Facts

- Up to 25 kg/m
- 60 m/minute
- Small footprint
- Possibility to ship in several pieces
- Operate 24/7
- Low friction operation
- Possibility of side transfer

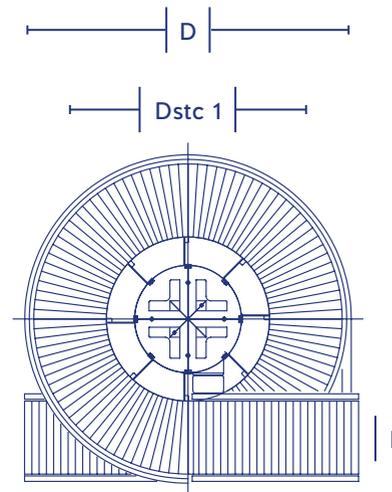


Designed to handle...



Facts & Measurements

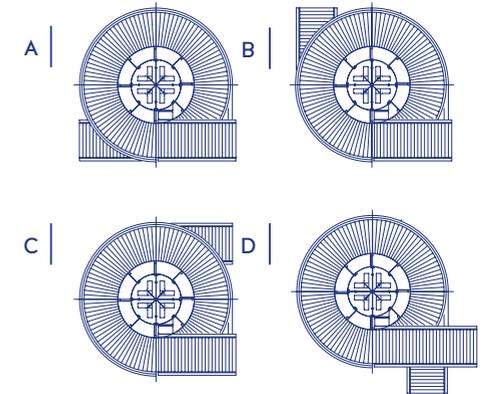
The APOLLO Spiral Conveyors are of modular design and are available in several standard versions to accommodate a wide range of loads and applications. The Spiral Conveyors can go up or down and can be made reversible. All models can have extended infeed or outfeed, making Spiral Conveyors easy to fit in most lay outs.



Models & Types*

| Type | Dstc 1 | D | B |
|----------|--------|------|-----|
| 1100-150 | 1100 | 1350 | 150 |
| 1200-230 | 1200 | 1530 | 230 |

*Other types on request



Configurations

Standard machine

| Part | Specifications |
|---------------------|---|
| Base structure | Coated aluminium pipe with galvanized cross beams |
| Chain configuration | Chrome plated chain |
| Plating | Coated in specified RAL colour |

Stainless steel dry use

| Part | Specifications |
|---------------------|---|
| Base structure | Stainless steel pipe with stainless steel cross beams |
| Chain configuration | Chrome plated chain |
| Plating | Stainless steel |

Stainless steel wash down

| Part | Specifications |
|---------------------|---|
| Base structure | Stainless steel pipe with stainless steel cross beams |
| Chain configuration | Chrome plated chain with stainless steel bearings |
| Plating | Stainless steel |



Spiral Conveyor Wide Trak

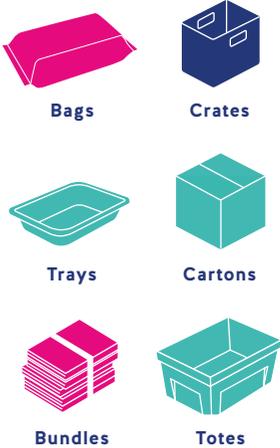
The APOLLO Wide Trak Spiral Conveyor can handle a variety of load sizes, big and small. It is ideal for warehousing and order picking operations. It reaches speeds up to 60 meter per minute and has a load capacity of 100 kg per meter. Only one motor is required, resulting in substantial savings in energy, controls and system integration.

The Facts

- 100 kg/m
- 60 m/minute
- Product width up to 900 mm
- Built in protection
- Operate 24/7
- Sustainability because only one motor is required
- Possibility to transport different load sizes at the same time

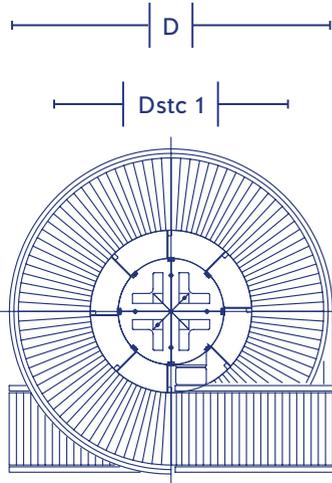


Designed to handle...



Facts & Measurements

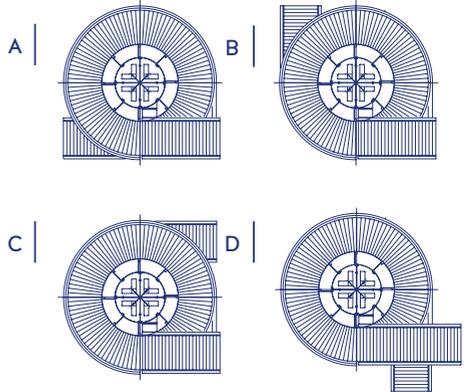
The APOLLO Spiral Conveyors are of modular design and are available in several standard versions to accommodate a wide range of loads and applications. The Spiral Conveyors can go up or down and can be made reversible. All models can have extended infeed or outfeed, making Spiral Conveyors easy to fit in most lay outs.



Models & Types*

| Type | Dstc 1 | D | B |
|------------|---------|---------|--------|
| 2200 - 760 | 2200 mm | 3060 mm | 760 mm |
| 3000 - 900 | 3000 mm | 4000 mm | 900 mm |

*Other types on request



Configurations

Standard machine

| Part | Specifications |
|---------------------|---|
| Base structure | Coated aluminium pipe with galvanized cross beams |
| Chain configuration | Chrome plated chain |
| Plating | Coated in specified RAL colour |

Stainless steel dry use

| Part | Specifications |
|---------------------|---|
| Base structure | Stainless steel pipe with stainless steel cross beams |
| Chain configuration | Chrome plated chain |
| Plating | Stainless steel |

Stainless steel wash down

| Part | Specifications |
|---------------------|---|
| Base structure | Stainless steel pipe with stainless steel cross beams |
| Chain configuration | Chrome plated chain with stainless steel bearings |
| Plating | Stainless steel |



Technical specifications

Belt widths

| | | |
|-----|-----|-----|
| 200 | 300 | 400 |
| 500 | 600 | |

Rotation

| |
|-------------------------------------|
| 90° clockwise or counter clockwise |
| 180° clockwise or counter clockwise |

Rotation Length of one unit

| | |
|------|-----------|
| 90° | 3,000 mm* |
| 180° | 5,600 mm* |

*Other types on request

SPIRAL CONVEYOR OPTION 1

Shoot In & Out Conveyor

The APOLLO shoot-in and shoot-out conveyors can be applied to the Spiral Conveyors on several floor levels. This allows loads to enter or leave the Spiral Conveyor from different levels. These conveyors provide controlled spiral exit or entry. The conveyors can be applied with belts or with rollers, depending on the product that has to be transported. The speed of the conveyors can be adjusted for a smooth continuous product flow.

The Facts

- 50 kg/m
- 60 m/min (shoot-in)
- 40 m/min (shoot-out)
- Built in protection
- Operate 24/7
- Possible with belts and rollers

SPIRAL CONVEYOR OPTION 2

Monorail Conveyor

The APOLLO Monorail Conveyor is ideal for inclining or declining in tight quarters and can handle multiple curves with one drive. This so called 3D Conveyor allows lengths up to 50 meter, including several curves, incline/decline sections.

The Facts

- 60 m/minute
- Operating load 50 kg/m
- One motor

Belt widths (mm)

| | | | | | |
|-----|-----|-----|-----|-----|-----|
| 200 | 300 | 400 | 500 | 600 | 650 |
|-----|-----|-----|-----|-----|-----|

Product Twister

The APOLLO Product Twister is an innovative conveyor for in-line rotating of cases and other unitised loads. The loads can be rotated 90° or 180° in a continuous motion. This conveyor is used in packing lines where products need to be rotated upside down or to one side without delay or product damage. The APOLLO Product Twister can accommodate a wide range of load sizes without adjustment.

The Facts

- Low friction operation
- 50 kg/m
- 40 m/minute
- Small footprint

Designed to handle...



Shrink wrapped



Bundles



Cartons



Carton wrapped



Designed to handle...



Sweets



Powder



Screws



Grain



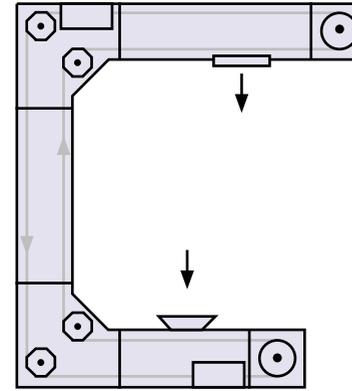
Seeds



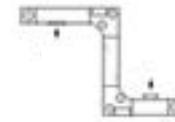
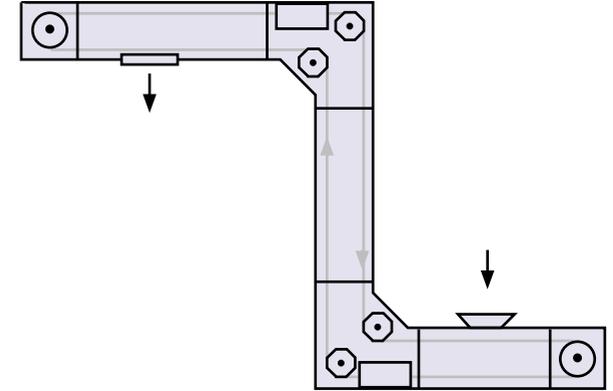
Coffee

Bucket Elevator

C-model



Z-model



Models & Types

| Type | l/h |
|------|--------|
| 100 | 10.000 |
| 200 | 23.000 |
| 600 | 59.000 |

Bucket materials

Specifications

| |
|----------------------------------|
| Anti-static |
| FDA approved |
| TDA detectable by metal detector |

Bucket Elevator

The APOLLO Bucket Elevator combines horizontal and vertical transport in one installation. This together with the possibility of several inlets and outlets makes our installation an efficient part of your production process. The Bucket Elevator can be equipped with nozzles to ensure clean buckets.

The Facts

- Modular design
- Several inlets and outlets are possible
- No alteration of product during transport
- Easy to install
- High reliability
- Low maintenance
- One motor

Always moving *forward*

Contact

WHEREVER YOU ARE IN THE WORLD, A MEMBER OF THE ROYAL APOLLO GROUP IS ALWAYS ABLE TO HELP YOU IN YOUR OWN CONTINENT, TIME ZONE AND LANGUAGE.

HEADQUARTERS GROUP

ROYAL APOLLO Group

Modem 28
7741 MJ Coevorden
+31 524 51 50 51
vts@apollobv.com
www.royalapollobv.nl

INTERCONTINENTAL

APAC

Bangplee Industrial Estate
172/4 Moo 17
Tambon Bang Sao Thong, Amphur
Bang Sao Thong
Samutprakarn, Thailand
+66 2315 1450
vtsapac@apollobv.com

China

Room 5135, 51F Raffles City
268 Middle Xizang Road
Huangpu District, Shanghai
200001, PR China
+86 21 2312 7575
vtsapac@apollobv.com

India

5th Floor, Unit No. 509,
Sr. No. 30/3A, Platinum Square,
Lohegaon, Viman Nagar,
Pune-411014, Maharashtra, India
+91 853 097 0404
india@apollobv.com

USA/North America

Ryson International, Inc.
300 Newsome Drive
Yorktown, VA 23692, USA
+1 757 898 15 30
sales@ryson.com
www.ryson.com

Latin America

Apollo VTS Mexico
+52 3 314 104 603
latam@apollobv.com



The Royal APOLLO GROUP consists of:
APOLLO VTS, APOLLO ISC, APOLLO LS,
APOLLO VTS ASIA, APOLLO VTS India Private Ltd.,
APOLLO VTS Trading Shanghai, APOLLO Service
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