

# ROYAL APOLLO GROUP

**V**ertical  
**T**ransport  
**S**ystems

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



# Who are we?

Royal APOLLO Group proudly stands as the world-leading player in our industry. Our diverse portfolio encompasses key business units, including Vertical Transport Systems, Logistic Systems, and Baling & Debaling, with a primary focus on Vertical Transport Systems (VTS). With facilities strategically located across Europe, Asia, and the United States, we're poised to provide tailored solutions to clients worldwide.

Our heritage, spanning nearly 180 years, testifies to our unwavering commitment to innovation and service. Under the leadership of Claudia Van den Pol, the sixth generation in the family business, Royal APOLLO also represents women's empowerment in business.

At Royal APOLLO Group, we embrace our commitment to innovation and quality every day, while seamlessly blending tradition and progress. We create a happy workplace for our employees and trustful relationships with our valued partners.

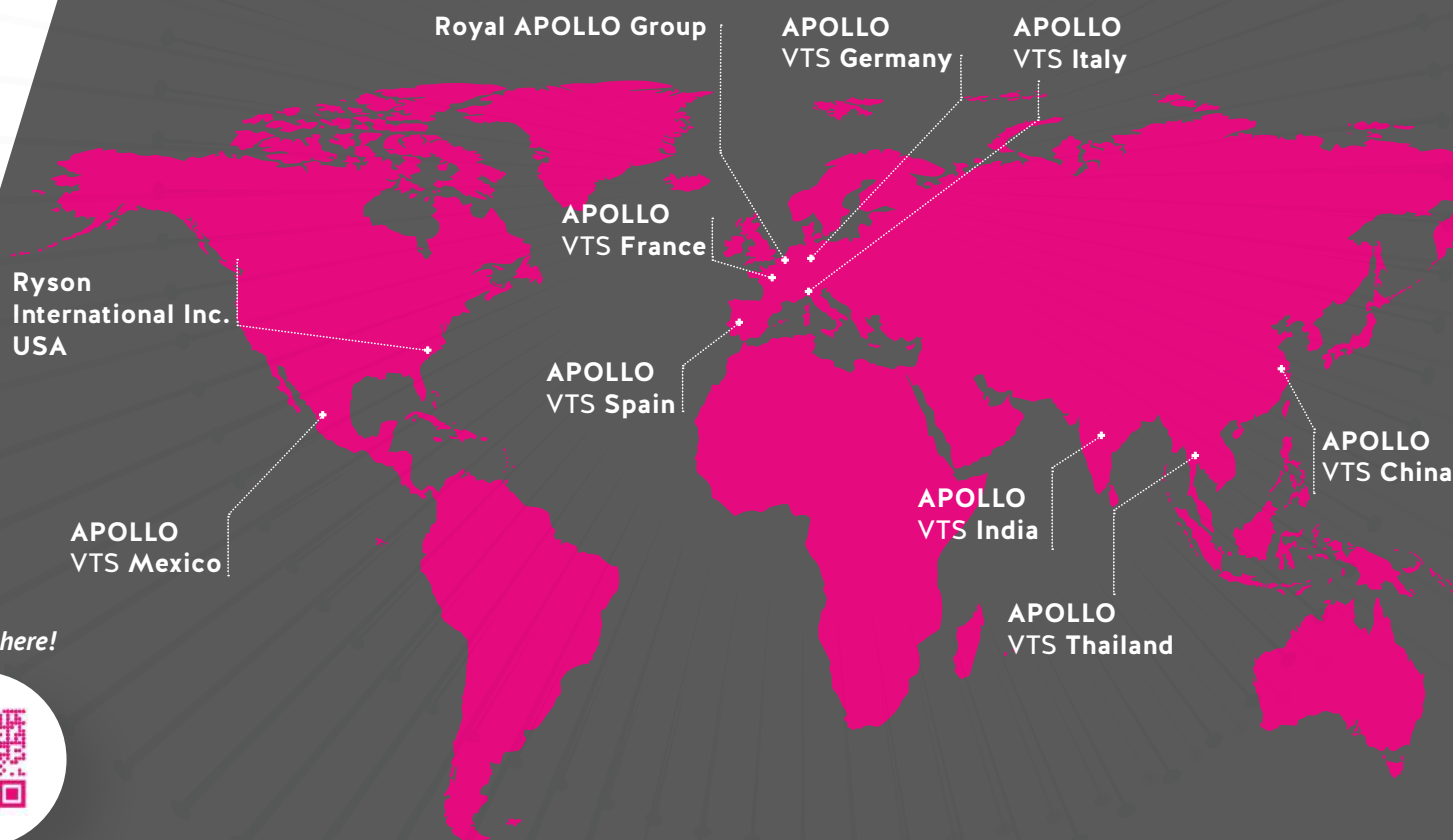
**Since  
1847**

**95%  
Global  
Coverage**

**3  
Factories**

**6  
Service  
Centres**

**200+  
Employees  
Worldwide**



*Find us here!*



# Solutions for many industries



## Warehousing and Logistics

The future of warehousing is up! Vertical space can optimize any warehouse or order fulfillment operation. As logistic automation technology becomes more crucial, our vertical conveyors become increasingly essential.

Scan QR for info!



## Food & Beverage

In this fast-paced industry, companies need reliable machinery. We offer solutions for compact, high-capacity elevation change at any point in your process, from bottling to end-of-line packaging and storage.



## Consumer Packaged Goods

Challenged with product variations and multi-pack flexibility, bottlenecks occur if packaging lines are not flexible enough to handle different sized packages. Our conveyors can handle many different sizes and shapes of goods at once with no down-time!



## Industrial & Manufacturing

Large machineries take up much floorspace, so many production lines send materials overhead from one process to the next. Suitable for handling different temperatures, our small footprint solutions reliably solve production layout challenges.



## More?

Contact us and discover all the possibilities within your organisation through our smart transport systems.

# What we move...

## Packed products



Bags



Bundles



Totes



Containers



Shrink wrapped



Crates



Tires



Carton wrapped



Trays



Cartons

## Mass products



Bottles



Cans



Jars

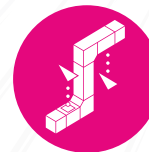


Cups



Pouches

## Bulk products



Confection



Powder



Hardware



Grain



Pet Food



Coffee



Seeds/Nuts



Recycle/Waste



## What's in it for you?



### Space savings

APOLLO's space-saving conveyor systems move products vertically with a very small footprint. This affords more space for other operations or helps reduce the required size of a new facility.



### High throughput

Our Spiral Conveyors gently and reliably move various product sizes and shapes continuously at speeds up to 60 m./min., while maintaining product orientation. Our Bucket Elevators provide a gentle flow of bulk products up to 59 m<sup>3</sup>/h.



### Low installation & integration cost

Our equipment is pre-tested prior to shipping and typically shipped in one piece, saving implementation costs. Their modular design also allows quick and cost-effective on-site modifications with very little downtime.



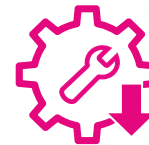
### Customizable to specific applications

Some applications have specific requirements. Almost every aspect of our machines can be tailored to be a perfect fit for your process and environment.



### High efficiency

We guarantee a high degree of durability, low noise, and low power consumption in conveying operations. A single small motor is usually all that is needed for even the heaviest loads.



### Low downtime and maintenance

Our solutions require little adjustments and maintenance. Even routine preventative maintenance does not require much time off-line. With proper care our equipment has been proven to run for decades!



### Global coverage; local service

Royal APOLLO covers the globe. We have sales, service, and support available anywhere in the world. This puts both international and local customers at ease and in touch.



### Nearly 180 years of experience

Approaching 180 years of business experience, we know about conveying, about what works and what doesn't. We are happy to collaborate in the design phase to find the best solution to your applications.

# Our product range

## Spiral Conveyor

Every Spiral Conveyor is designed according to our proven reliable technology, offering many features and benefits. This technology makes the Apollo Spiral Conveyors faster (up to 60m./min.) and more reliable than any other Vertical Transport Solution.



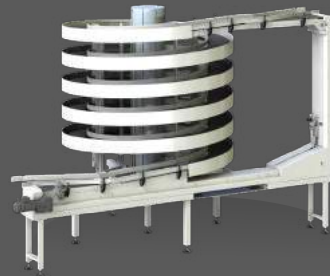
### Single Lane

Save floor space and increase throughput.  
- 50 kg/m  
- One motor



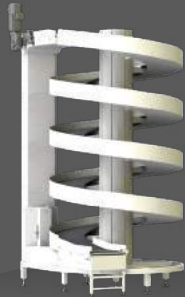
### Dual Lane

Two spirals in one!  
- 50 kg/m  
- Double capacity



### Mass Flow

Handles cans, jars, bottles and many more!  
- Max. 120,000 units/hour  
- Side transfer



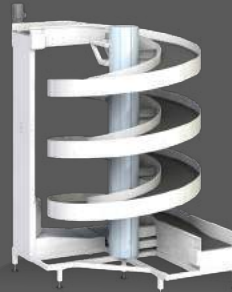
### Heavy Duty

For the tough jobs!  
- 100 kg/m  
- One motor



### Narrow Trak

Handle small loads.  
- 25 kg/m  
- Side transfer possible



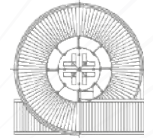
### Wide Trak

For the big loads!  
- 100 kg/m  
- Max. product width 900 mm

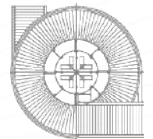
## Models & types

Type	Dstc 1/ Dstc 2	D	B
<b>Single Lane Spiral Conveyors</b>			
1200 - 300	1200	1600	300
1300 - 400	1300	1800	400
1500 - 400	1500	2000	400
1350 - 450	1350	1850	450
1600 - 500	1600	2200	500
1600 - 600	1600	2300	600
1700 - 600	1700	2400	600
1800 - 650	1800	2550	650
<b>Dual Lane Spiral Conveyors</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
<b>Mass Flow Spiral Conveyors</b>			
2100 - 254	2100	2454	254
2400 - 500	2400	3000	500
2500 - 400	2500	3000	400
<b>Heavy Duty Spiral Conveyors</b>			
1700 - 400 - HD	1700	2200	400
1600 - 500 - HD	1600	2150	500
1700 - 600 - HD	1700	2400	600
<b>Narrow Trak Spiral Conveyors</b>			
1100 - 150	1100	1350	150
1200 - 230	1200	1530	230
<b>Wide Trak Spiral Conveyors</b>			
2200 - 760	2200	3060	760
3000 - 900	3000	4000	900

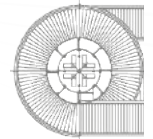
### Models



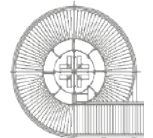
A



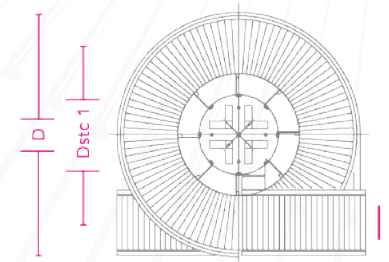
B



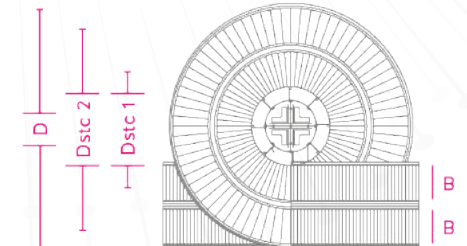
C



D



Single Lane Spiral Conveyors



Dual Lane Spiral Conveyors



# Spiral Conveyor Superior design



## Modular construction

Our modular design allows application specific designs without additional cost. They are constructed with nuts and bolts, instead of welding. Modification is simple, even after installation.



## Rolling friction

Our Spiral Conveyor design uses rolling instead of sliding friction, eliminating operational wear-and-tear and giving class-leading low operating noise!



## Overlapping slats

The overlapping slats creates a reliable conveying surface that reduces pinch points that damage the products and increase operator safety.



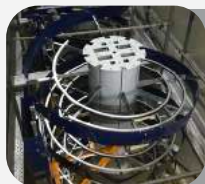
## Friction Surface

The conveyor can be ordered with 25%, 50% or 100% friction levels to eliminate product sliding. Because a steeper incline is possible, this can save cost.



## Pre-assembled

Typically shipped pre-tested and pre-assembled, installation time and implementation costs can be saved. Installation is as simple as standing the spiral up and anchoring it in place.



## Partial disassembly

Shipping in sections is also an option if there is a very tight installation area, such as a small penetration between floors and small openings.



## Superior structural design

Standardized components form rigid and precise structures that can handle high weights and can be built to seismic specifications.



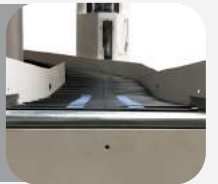
## Driven by center chain

A center chain, bearings, and rails drive the conveyor, applying rolling friction. This eliminates the need for center weight distribution and allows fully loaded start/stop.



## Horizontal infeed and outfeed

Our standard design features a horizontal transition to adjoining conveyors, which is gentler on the machines and assures a smooth and reliable transition for products.



## Automatic chain tensioner

The standard automatic chain tensioner assures the machine runs smoothly and minimizes maintenance. Visible indications when the chain needs to be shortened.



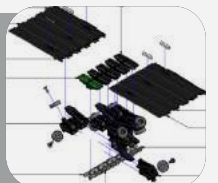
## Built in over-torque protection

If a jam were to occur, the standard failsafe device shuts the machine down in an over-torque scenario. This helps prevent damage to both the spiral and the products.



## Individually replaceable components

Another cost-effective of our modular design is that each component can easily be replaced individually and only what is needed.



# Spiral Conveyor Options & customization



## Coating types and special environments

Available in powder-coated steel, stainless steel washdown, or hybrid. Special applications for low temperature (freezer applications), heat-tolerant, and FDA detectable slats.



## RAL choices

Powder-coated versions are available in any choice of RAL color. Whether it's in your brand's color, to match other equipment, or applying a safety color, we've got you covered!



## Slat and friction types

Two slat designs: a nesting slat offering a flat surface ideal for bottles and cans in mass, and an overlapping slat ideal for cartons and unitized containers. Also available with different friction levels for better grip.



## Transition types

Our conveyors can be configured to either end-to-end transfer of cartons, totes, and similar items, or gentle side-transfer of mass flow items such as cans, bottles, and jars.



## Shoot in & out conveyors

Some models can be equipped with shoot-in/-out conveyors to enter or exit at intermediate elevations. This efficient and space-saving option allows a single spiral to transport to multiple elevations, like a multi-tier pick module.

## Looped and loopless stacking

Multiple Spiral Conveyors can be stacked on top of each other for near limitless elevation. Vertically speaking, you'd run out of building before you ran out of our conveying potential!



## Pre-wiring & control panel

Our conveying systems are generally sold without wiring or controls because typically our customers will wire them into their own controls. However, we can optionally do it to help save costs or implementation time.



## Guide rails

Guide rails are available if product orientation is critical or to make rows within the Spiral Conveyor for transporting items side by side.



## Missing slat detection and product sensors

Additional controls are also available, including a system that alerts you if there are missing slats in the machine, or items moving through the Spiral Conveyor need to be tracked.



## Jib-arm for easy drive maintenance

An overhead mechanical swing arm can be installed to support the maintenance or replacement of the drive motor. This can come in handy considering how high our Spiral Conveyors (and drive positions) can be!



# Our product range

## Bucket Elevator

The Bucket Elevators are very well suited for transporting a broad range of bulk products in the agriculture, food, and industrial segment, including abrasive and extreme temperature applications. The machine is used for very gentle vertical and horizontal conveying of all kinds of granular products with virtually no spillage.

### Designed to handle...



Confection



Powder



Screws



Grain



Pet Food



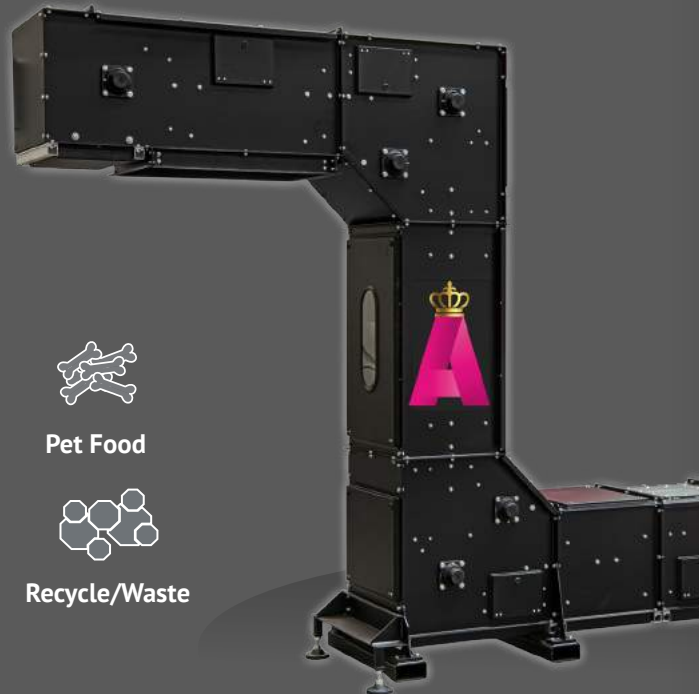
Coffee



Seeds/Nuts



Recycle/Waste



## Models and capacities

### Models

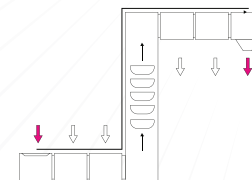
As standard, the pendulum Bucket Elevator is supplied as a Z, I, or C-version. For special installations, the elevators are formed as an E-version or a double Z-version, referred to as the stair version. Additionally, other models can be supplied on request.

### Capacities

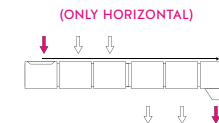
The pendulum Bucket Elevator is available in three different types based on a bucket filling degree of 75% and a machine design speed of 0,35 m/s.

- BE 100 for max. 10 m<sup>3</sup>/h
- BE 200 for max. 23 m<sup>3</sup>/h
- BE 600 for max. 59 m<sup>3</sup>/h

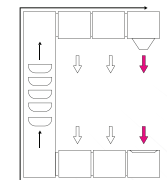
### Standard installations



Z-INSTALLATION

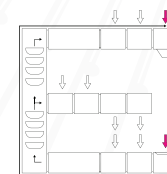


I-INSTALLATION

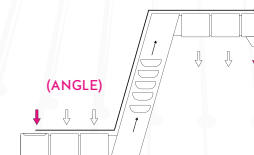


C-INSTALLATION

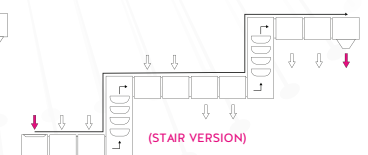
### Special installations



E-INSTALLATION



Z-INSTALLATION



DOUBLE Z-INSTALLATION



# Bucket Elevator Superior design

The APOLLO Bucket Elevator combines horizontal and vertical transport in one installation with the possibility of several inlets and outlets. This solution replaces combinations of belt conveyors and conventional bucket elevators, saving on initial investment and maintenance costs.

The APOLLO Bucket Elevator also comes with plenty of unique design points, such as:



## Tension station

Chain tensioning via manual spindles ensures high machine durability.



## Inlet

The incoming product is fed to the pendulum Bucket Elevator continuously or batch wise. The edges of the buckets overlap each other in the inlet section and therefore prevent spillage of kernels.



## Chain break detection

A sensor detects the rotation of the sprocket. In case of a chain breakage, the Bucket Elevator will be switched off to avoid further damage.



## Chain and buckets

- Long life, high-tensile, chromated chain, with steel or nylon rollers (noise reduction)
- Chain also available in stainless steel with stainless steel rollers
- Standard buckets glass fibre reinforced polyamide
- Buckets in compliance with food grade standards, FDA and EC 1935/04
- Anti-static or detectable buckets are optional



## Outlet

The number of outlets is flexible. The last outlet is always fixed to tilt and unload, while additional ones can be pneumatically actuated separately. These additional outlets further optimise conveying flexibility and enhance product handling.



## Drive

Solely high quality components are used to ensure optimal durability and minimal down-time. Geared motors on our Bucket Elevators are supplied by SEW. Their renown low power requirements reduce energy consumption and eventually costs.



## Overload switch

An overload switch fitted on the drive station stops the drive immediately if abnormal torque is experienced, preventing possible machine damage.

# Bucket Elevator Options & customization

## Coating types

Available in the standard powder-coated steel or stainless steel configuration for wet and washdown environments

## RAL choices

Powder-coated versions are available in any choice of RAL color. Whether it's in your brand's color, to match other equipment, or applying a safety color, we've got you covered!

## Inlet & outlet quantities

Depending on the demands of the production line, multiple inlet and/or outlet stations can be implemented.

## Additional inspection windows

Depending on the needs of our customers, we can implement additional inspection windows and also make the Bucket Elevator transparent in desired and technically possible places.

## Pre-wiring & control panel

Our conveying systems are generally sold without wiring or controls because typically our customers will wire them into their own controls. However, we can optionally do it to help save costs or implementation time.

## Anti-spilling sleeve

This option ensures minimal waste and pollution in the Bucket Elevator.

## Bucket types

Several bucket types are available depending on your requirements:

- White (standard)
- Blue (detectable)
- Black (antistatic)
- Stainless steel

## Air cleaning station

As a cleaning option, we can implement an automatic CIP system with air or water.

## Bucket knocker

This option ensures optimal release of sticky products.

## Dust collection vacuum ports

Easy to clean dust drawers are a machine option.

## Dust tight enclosures

The body of the Bucket Elevator can be dust tight sealed to withstand various influences.



# Service beyond sales

## 1 Installation Expertise:

Our team specializes in the seamless installation of APOLLO machines, guaranteeing their correct functionality beyond our standard 24-months warranty.

*Check out our warranty sheet outlining the terms and conditions!*



## 2 High-Level Maintenance, Inspection, and Commissioning:

We offer comprehensive maintenance services to enhance the performance and lifespan of your APOLLO machines, which helps our customers to expand their business. Our expert team conducts thorough inspections and provides commissioning training to ensure the correct operation of the machines.



## 3 Remote Service App with AR:

Besides traditional on-site service visits, we can alternatively offer remote visual assistance that combines live video with powerful AR guiding features for faster problem resolution and immediate customer support.



## 4 After-Sales Service and Ticket System:

Our dedicated ticket system ensures easy communication, both internally and externally. From spare parts requests to breakdowns, inspections, and documentation, we address a wide range of needs promptly.



## 5 Spare Parts Management:

Our spare parts teams around the world handle all local spare parts requests efficiently, providing offers within 24 hours. Customs inquiries and shipping details are also managed by our dedicated spare parts team.



## 6 Continuous Improvement:

We actively gather feedback from the field to inform our Research and Development efforts. This collaborative approach allows us to suggest and implement improvements, ensuring the best solutions for our customers.



## 7 APOLLO Academy Training:

Explore our APOLLO Academy, offering certified Spiral Conveyor maintenance training. The one-day course equips your service technicians with the knowledge needed for proper machine care, reducing operational expenses and ensuring business continuity. We provide maintenance plans based on the operation and spare part packages.

*Learn more about this training in this video!*



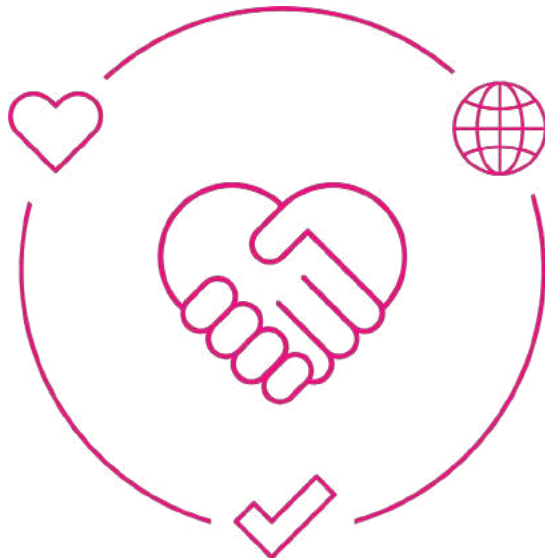
# Always moving *forward*

## Our Mission

APOLLO contributes to efficient and sustainable logistic processes within companies.

We deliver high quality machines to our customers, while ensuring that we create a joyful, healthy and sustainable working environment.

## Our Core Values



### Joyful workplace



The company feels like a playground, you can make mistakes, be open and vulnerable while at the same time, the energy is exciting, joyful and innovative.

### Global partner



APOLLO's people show the joy, passion and expertise to develop the best machines & deliver the best service globally! Everybody knows the direction of the company and the goals we have set. Everybody in his or her own way is actively contributing towards reaching our goals.

### Quality and service driven



APOLLO is the company you need to talk to about your logistic challenges. We bring nearly 180 years of experience. This is carried by our people, our vibe, our outstanding service and our innovative atmosphere. It's only obvious that we produce machines with the highest quality standards!



## Contact us!

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.



# ROYAL APOLLO GROUP

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Check us out!



### The Royal APOLLO Group consists of:

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APOLLO VTS Trading (Shanghai) Co., Ltd, APOLLO VTS Mexico S. de  
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