

SINCE
1897



PTB SPECIAL PRODUCTS

Custom Material Handling Equipment

Since 1897





This brochure is meant to inform you about the activities of PTB Special Products B.V. You can read about what it is we do on a daily basis, how we do it, how it all came to be, and what we can do for you.

PTB Special Products B.V.

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Version 1.0 2018

About us

The story of PTB Special Products starts with the establishment of PTB itself, all the way back in 1897. For more than 120 years PTB has been active in the world of custom equipment, by designing and manufacturing equipment for customers all over the world.

Established in 1897, PTB has been around for a long time. It all started as a farriery in a small town close to Groningen, the Netherlands.

PTB Special Products designs and constructs custom lifting and conveying machines for handling heavy loads, equipment and machinery. Our customers use PTB machinery in warehouses, logistic centers and factories.

PTB Special Products is a division of the PTB Group, which operates four different companies. Its headquarters are located in Groningen, the Netherlands.



**Established in
1897**



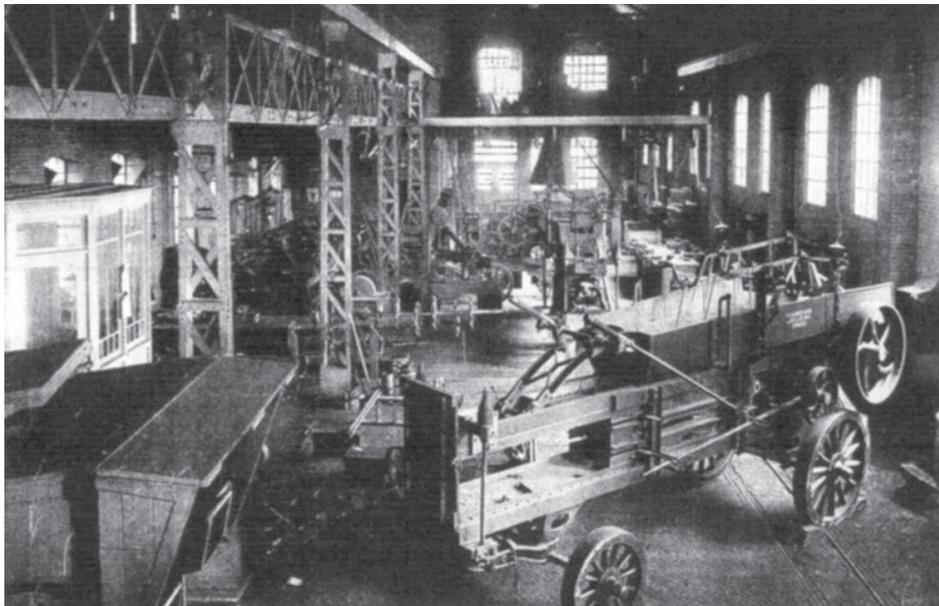
**Operational in
10 countries**



**Located in
the Netherlands**



**Custom equipment
since 1914**



History



PTB is established
Mr. Pot & Mr. Ter Borg
start PTB as a farriery in
Ezinge, the Netherlands.



Relocated to new factory
PTB builds a new factory at
the outskirts of Groningen
and moves there in 1916.



First pallettruck designed
PTB designs and constructs
its first material handling
equipment, a pallet truck.

18
97

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70

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94

History of PTB



First machine constructed
PTB starts producing
agricultural machinery, such
as threshers and balers.



PTB Transportmiddelen
The chapter of material
handling equipment starts
with the establishment of
PTB Transportmiddelen B.V.



First PTB Special
With the construction of the
DP50, the first customer
specific pallet truck, PTB
Special Products is founded.



What we do

When standard equipment cannot get the job done, custom equipment is the solution. How do you get certain materials from point A to point B? Ask PTB, we will give you an answer. The answer is mostly given in the form of a rough idea for a electrical drivable machine.

Do you need to lift and transport heavy steel coils? We can design an electric heavy duty coil stacker. Do you need to remotely move nuclear waste, which weighs more than 50.000 kilograms? We can develop a heavyweight pallettruck. Cannot get your train's bogies inside your workshop? We can design a machine that tows the bogies of the traintracks, onto a platform to be transported throughout your facility.

The solution does not end with just a design. The entire process of design to the final equipment all happens within PTB's facilities.

Custom-made Pallet Trucks

Usage examples: moving of heavy goods on pallets, injection molds, coils on pallets, sizable equipment



Custom-made Electric Stackers

Usage examples: the transportation and stacking of heavy goods on pallet, metal coils, machine parts



Custom-made Tow Tractors

Usage examples: the towing of trailers, airplanes, busses, trains



How we do it

The process of designing and producing custom-made equipment is a comprehensive process. This process has been divided into five major categories. From concept to equipment.



Phase 1

The Logistical Challenge

The customer informs us about the challenge of handling certain materials.



Phase 2

The Preliminary Design

PTB engineers come up with a preliminary design to conquer the challenge.



Phase 3

The Collaboration

The customer and PTB collaborate on the feasibility and discuss further customizations.



Phase 4

The Definitive Design

After all factors are accounted for, PTB engineers create the definitive design and the customer signs off.



Phase 5

The Production & Assembly

PTB's production facility produces the parts and PTB technicians build and assemble the entire machine.

Phase

1 Logistical Challenge



Do you need to move goods that are either too heavy or too large to be handled by regular equipment? Have you been searching the marketplace for equipment to get the job done, but have you not been able to find anything suitable? Propose your challenge to PTB Special Products. Our engineers develop logistic solutions in the form of material handling equipment on a daily basis.

Once we have received your inquiry, we generally require additional technical information. We request this information by sending an interactive form, which outlines all the details we need, and gives you a general idea of the options we offer.



Phase

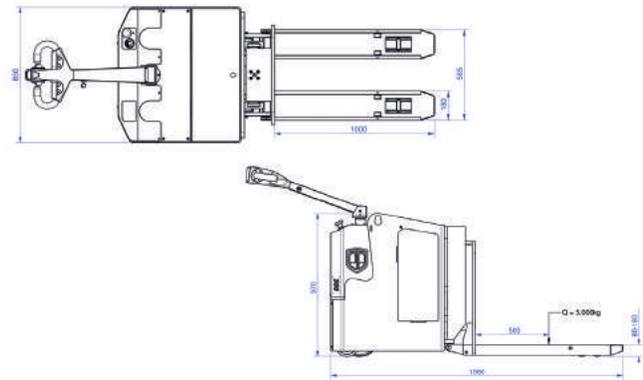
2 Preliminary Design



Based on your technical data our engineering department starts working on a solution starting with a brainstorm session. Ideas are discussed and calculations are made.

We understand that time and floor space is very valuable to you, therefore we come up with relatively small and efficient solutions, so that you can focus on making the most of your company's space and your employees' time.

These efforts will eventually lead to a preliminary design for the equipment, which will be sent to you accompanied by an estimated budget price. We believe that with this data, your company can make an informed decision.



Phase

3 The Collaboration



Communication is key when it comes to custom-made equipment. Therefore, anybody is welcome to visit PTB's facilities in Groningen, the Netherlands. Ofcourse this is not always possible due to travel distances, thus a contact person is appointed to keep in touch with you during the collaboration.

Through essential communication we will be getting to know you and your company. Because by getting to know you, and your getting to know us, we can combine our knowledge to come to the best possible solution.

If you plan a visit to our facilities, we will plan a tour of our facilities as well as a visit to one of our customers, where custom-made solutions can be seen in action.



Phase

4 Definitive Design



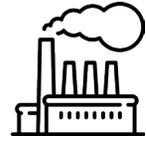
Once the solution is agreed to, our engineers start working on turning the preliminary design into a definitive design. PTB uses technical software to calculate and draw the machine. The software enables PTB to generate technical drawings for the production of the parts. Also, 3d-models can be created, to give you an idea about the exterior of the equipment.

The definitive design will be sent to you for an official sign-off, after which the production phase commences.



Phase

5 Production & Assembly



Once PTB receives the official sign-off on the definitive design, the production process begins. First a planning is made, by a collaboration between the engineers, the technicians and the factory. Then the parts are sent to the factory and production begins.

The metal chassis and general framework is produced first, after which all additional components as well as the drive, control and general electric components are produced or ordered.

The first part of the assembly process entails the construction of the main framework. After which the sheet metal and small metal components are affixed. Before all driving and controlling components are installed, the main body is coated.

The final part of production demands the installation of all electrical and hydraulic components. Testing and inspection commences after the engineer signs off.

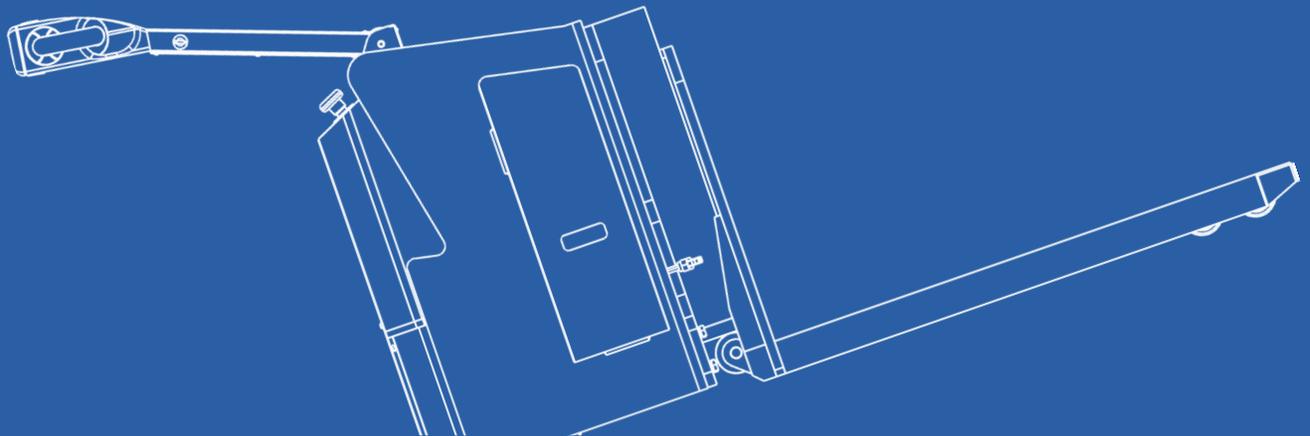


Lift off!

The machine is now ready to be used. It will help make your company's work environment safer, more intelligent and more efficient.

This does not mean goodbye. We will gladly assist you with:

- ✓ **In-company training**
- ✓ **Recurring service & maintenance**
- ✓ **Incidental maintenance**
- ✓ **Annual inspection**





PTB EPD45



EUROPEAN
SPALLATION
SOURCE

About PTB EPD45

Works at **European Spallation Source**

Built by **PTB Special Products B.V.** in 2017

Is currently located in **Lund, Sweden**

Was commissioned by **European Spallation Source** in 2016

Is designed to **move heavy klystrons**

 4.500 kg

 2.870 mm

 0 - 4.5 km/h

 320 Ah 48V





PTB DP100

PHILIPS

About PTB DP100

Works at **Philips**

Built by **PTB Special Products B.V.** in 2005

Is currently located in **Eindhoven, the Netherlands**

Is designed to **move heavy magnets**

 10.000 kg

 3.320 mm

 0 - 4 km/h

 300 Ah 48V





PTB EPS120

Aleris

About PTB EPS120

Works at **Aleris Aluminium**

Built by **PTB Special Products B.V.** in 2015

Is currently located in **Duffel, Belgium**

Is designed to **load aluminium coils in containers**

Can handle slopes **up to a 10% gradient**

 12.000 kg

 3.475 mm

 0 - 3 km/h

 775 Ah 48V





PTB DP150



About PTB DP150

Works at **NedTrain**

Built by **PTB Special Products B.V.** in 2007

Is currently located in **Haarlem, the Netherlands**

Is designed to **move train bogies**

It picks up train bogies **from the train tracks**

*This is the total platform length



-  15.000 kg
-  4.000 mm*
-  0 - 5 km/h
-  400 Ah 48V



PTB DP100

HITACHI

About PTB DP100

Works at **Hitachi Construction Machinery**

Built by **PTB Special Products B.V.** in 2007

Is currently located in **Amsterdam, the Netherlands**

Is designed to **move excavator compartments**

Is equipped with **a high operator plateau and a camera**

*This is the total fork length

 10.000 kg

 2.400 mm*

 0 - 3 km/h

 440 Ah 48V





PTB ZP160

 TRAFOTEK

About PTB ZP160

Works at **Trafotek Oy**

Built by **PTB Special Products B.V.** in 2015

Is currently located in **Turku, Finland**

Is designed to **move transformers**

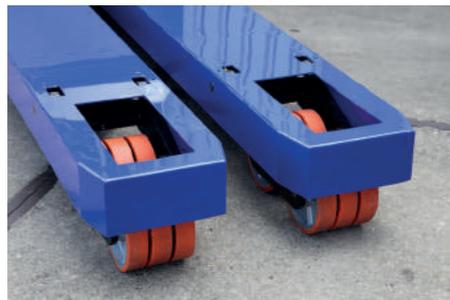
Is built as **a seated model, for driver comfort and safety**

 16.000 kg

 3.600 mm

 0 - 3.5 km/h

 560 Ah 48V





PTB DP130

ASML

About PTB DP130

Works at **ASML**

Built by **PTB Special Products B.V.** in 2013

Is currently located in **Veldhoven, the Netherlands**

Is designed to **move semiconductor lithography systems**

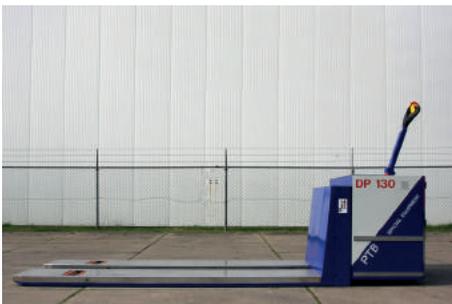
Is equipped with **stainless steel forks** for clean-room applications

 13.000 kg

 3.970 mm

 0 - 3 km/h

 300 Ah 48V





PTB ZP35



About PTB ZP35

Works at **Koolwijk Moerdijk B.V.**

Built by **PTB Special Products B.V.** in 2013

Is currently located in **Moerdijk, the Netherlands**

Is designed to **move multiple pallets efficiently**

Is designed to **drive speeds up to 17 km/h**

 3.500 kg

 4.100 mm

 0 - 17 km/h

 775 Ah 48V





PTB STB63



About PTB STB63

Works at **Essity Operations Hoogezand B.V.**

Built by **PTB Special Products B.V.** in 2003

Is currently located in **Hoogezand, the Netherlands**

Is designed to **move heavy pallets**

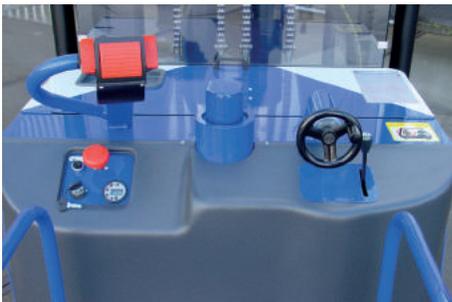
Is equipped with **a standing platform**

 7.500 kg

 2.600 mm

 0 - 5 km/h

 320 Ah 48V





PTB DP150



About PTB DP150

Works at **Elopak Denmark**

Built by **PTB Special Products B.V.** in 2013

Is currently located in **Esbjerg, Denmark**

Is designed to **change industrial presses**

Lifts 15 tons **on a platform with an initial height of 150mm**

*This is the total fork length

 15.000 kg

 2.400 mm*

 0 - 3 km/h

 420 Ah 48V





PTB DP150

**PEISKER
LOGISTIK**

About PTB DP150

Works at **Peisker Logistik GmbH**

Built by **PTB Special Products B.V.** in 2013

Is currently located in **Waldbröl, Germany**

Is designed to **load trucks with injection molds**

Is moving **injection molds for Mercedes-Benz**

*This is the total fork length

 15.000 kg

 1.600 mm*

 0 - 6 km/h

 400 Ah 48V





PTB DP100

DE VLIETGER

About PTB DP100

Works at **TimeSavers International B.V.**

Built by **PTB Special Products B.V.** in 2011

Is currently located in **Goes, the Netherlands**

Is designed to **move deburring machines**

Is equipped with **3.000 mm forks with 115 mm initial height**

*This is the total fork length

 10.000 kg

 3.000 mm*

 0 - 3 km/h

 420 Ah 24V





PTB Special Products is part of the PTB Group. The PTB Group consists of multiple companies, active in different markets, though working together closely. A brief description of each of the other companies is provided below.



PTB Machinefabriek is a full service engineering works. The factory designs, develops and produces metal and plastic products. PTB Machinefabriek has a modern factory with powerful cnc-machines operated by skilled employees.



Transclusion B.V. was founded by the owner of the PTB Group, as an importer of driving material handling equipment. With decades of experience in the field of forklifts, pallettrucks and more, Transclusion now offers a variety of robust machinery to the Dutch market, through a network of dealerships.



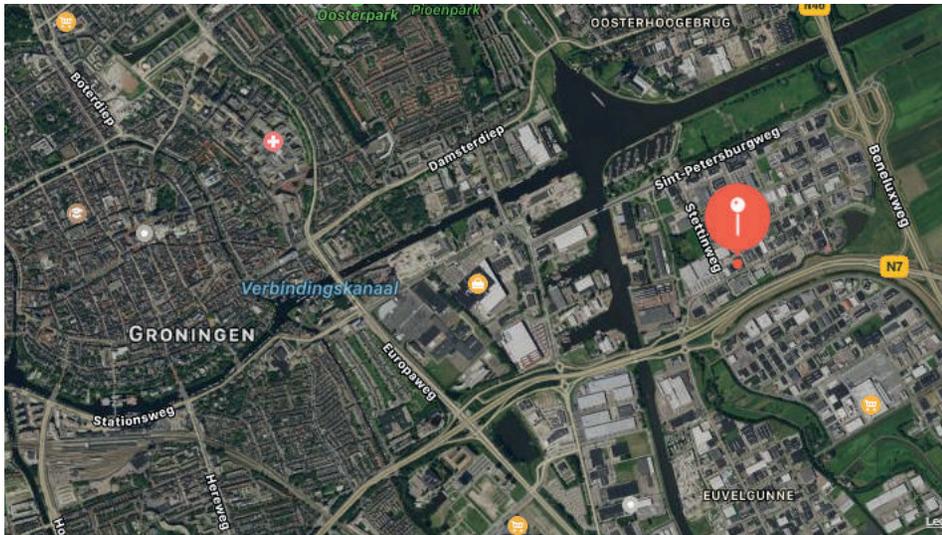
PTB Transportmiddelen is the predecessor of PTB Special Products. It offers a broad variety of warehouse equipment, which is complimented by its provision of services, such as maintenance and inspection of warehouse equipment.

Contact

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