

A Member of the Constructor Group



MOBILE PALLET RACKING - MOVO

The ultimate storage solution





Keep your warehouse moving



More information see:
www.constructor-storage.com/MOVO

Mobile Racking - the sensible choice

Constructor's Mobile Racking system (MOVO) is the ultimate solution for high density storage of all pallet sizes or goods that need to be stored. The design eliminates the need for multiple picking aisles which significantly reduces the storage area required, or alternatively doubles the storage capacity in the same size area.

MOVO is comprised of conventional pallet or cantilever racking mounted on steel framed trolleys which run on imbedded rails in the floor. A range of rails, bases and control systems are available to provide the best possible fit for your warehouse. A control unit operates the MOVO and numerous standard safety features complete the solution. This package of features ensures easy operation and absolute safety at all times.

Each MOVO Installation is custom made so it can be tailored to your individual needs and available warehouse space, offering the ultimate in storage design.

- ✓ **High density storage which requires only one truck aisle**
- ✓ **Full access to all pallet locations**
- ✓ **Can accommodate various pallet sizes**
- ✓ **Suitable for cold stores; reduce running costs by minimising the area to be chilled**
- ✓ **Operating temperature -30C to +40C**
- ✓ **Integration with WMS is possible**
- ✓ **Can be operated remotely with additional control units**
- ✓ **Increase your storage capacity by up to 100% or reduce your storage footprint**



Best. Datum	Num. Nr.	Kunde	Art der Anlage	Reihe Nr.	Wert	Maße	Erweise	geliefert	Konditionen	geleistete Leistungen
18.01.57	123456	Herr Dr. Schmidt	4. Reihe, 1. und 2. Reihe	123	1.234,56	1.234,56	1.234,56	1.234,56	1.234,56	1.234,56
19.01.57	123457	Herr Dr. Schmidt	4. Reihe, 1. und 2. Reihe	124	1.234,57	1.234,57	1.234,57	1.234,57	1.234,57	1.234,57
20.01.57	123458	Herr Dr. Schmidt	4. Reihe, 1. und 2. Reihe	125	1.234,58	1.234,58	1.234,58	1.234,58	1.234,58	1.234,58
21.01.57	123459	Herr Dr. Schmidt	4. Reihe, 1. und 2. Reihe	126	1.234,59	1.234,59	1.234,59	1.234,59	1.234,59	1.234,59
22.01.57	123460	Herr Dr. Schmidt	4. Reihe, 1. und 2. Reihe	127	1.234,60	1.234,60	1.234,60	1.234,60	1.234,60	1.234,60
23.01.57	123461	Herr Dr. Schmidt	4. Reihe, 1. und 2. Reihe	128	1.234,61	1.234,61	1.234,61	1.234,61	1.234,61	1.234,61
24.01.57	123462	Herr Dr. Schmidt	4. Reihe, 1. und 2. Reihe	129	1.234,62	1.234,62	1.234,62	1.234,62	1.234,62	1.234,62
25.01.57	123463	Herr Dr. Schmidt	4. Reihe, 1. und 2. Reihe	130	1.234,63	1.234,63	1.234,63	1.234,63	1.234,63	1.234,63
26.01.57	123464	Herr Dr. Schmidt	4. Reihe, 1. und 2. Reihe	131	1.234,64	1.234,64	1.234,64	1.234,64	1.234,64	1.234,64
27.01.57	123465	Herr Dr. Schmidt	4. Reihe, 1. und 2. Reihe	132	1.234,65	1.234,65	1.234,65	1.234,65	1.234,65	1.234,65
28.01.57	123466	Herr Dr. Schmidt	4. Reihe, 1. und 2. Reihe	133	1.234,66	1.234,66	1.234,66	1.234,66	1.234,66	1.234,66
29.01.57	123467	Herr Dr. Schmidt	4. Reihe, 1. und 2. Reihe	134	1.234,67	1.234,67	1.234,67	1.234,67	1.234,67	1.234,67
30.01.57	123468	Herr Dr. Schmidt	4. Reihe, 1. und 2. Reihe	135	1.234,68	1.234,68	1.234,68	1.234,68	1.234,68	1.234,68
31.01.57	123469	Herr Dr. Schmidt	4. Reihe, 1. und 2. Reihe	136	1.234,69	1.234,69	1.234,69	1.234,69	1.234,69	1.234,69
01.02.57	123470	Herr Dr. Schmidt	4. Reihe, 1. und 2. Reihe	137	1.234,70	1.234,70	1.234,70	1.234,70	1.234,70	1.234,70
02.02.57	123471	Herr Dr. Schmidt	4. Reihe, 1. und 2. Reihe	138	1.234,71	1.234,71	1.234,71	1.234,71	1.234,71	1.234,71
03.02.57	123472	Herr Dr. Schmidt	4. Reihe, 1. und 2. Reihe	139	1.234,72	1.234,72	1.234,72	1.234,72	1.234,72	1.234,72
04.02.57	123473	Herr Dr. Schmidt	4. Reihe, 1. und 2. Reihe	140	1.234,73	1.234,73	1.234,73	1.234,73	1.234,73	1.234,73
05.02.57	123474	Herr Dr. Schmidt	4. Reihe, 1. und 2. Reihe	141	1.234,74	1.234,74	1.234,74	1.234,74	1.234,74	1.234,74
06.02.57	123475	Herr Dr. Schmidt	4. Reihe, 1. und 2. Reihe	142	1.234,75	1.234,75	1.234,75	1.234,75	1.234,75	1.234,75
07.02.57	123476	Herr Dr. Schmidt	4. Reihe, 1. und 2. Reihe	143	1.234,76	1.234,76	1.234,76	1.234,76	1.234,76	1.234,76
08.02.57	123477	Herr Dr. Schmidt	4. Reihe, 1. und 2. Reihe	144	1.234,77	1.234,77	1.234,77	1.234,77	1.234,77	1.234,77
09.02.57	123478	Herr Dr. Schmidt	4. Reihe, 1. und 2. Reihe	145	1.234,78	1.234,78	1.234,78	1.234,78	1.234,78	1.234,78
10.02.57	123479	Herr Dr. Schmidt	4. Reihe, 1. und 2. Reihe	146	1.234,79	1.234,79	1.234,79	1.234,79	1.234,79	1.234,79
11.02.57	123480	Herr Dr. Schmidt	4. Reihe, 1. und 2. Reihe	147	1.234,80	1.234,80	1.234,80	1.234,80	1.234,80	1.234,80
12.02.57	123481	Herr Dr. Schmidt	4. Reihe, 1. und 2. Reihe	148	1.234,81	1.234,81	1.234,81	1.234,81	1.234,81	1.234,81
13.02.57	123482	Herr Dr. Schmidt	4. Reihe, 1. und 2. Reihe	149	1.234,82	1.234,82	1.234,82	1.234,82	1.234,82	1.234,82
14.02.57	123483	Herr Dr. Schmidt	4. Reihe, 1. und 2. Reihe	150	1.234,83	1.234,83	1.234,83	1.234,83	1.234,83	1.234,83
15.02.57	123484	Herr Dr. Schmidt	4. Reihe, 1. und 2. Reihe	151	1.234,84	1.234,84	1.234,84	1.234,84	1.234,84	1.234,84
16.02.57	123485	Herr Dr. Schmidt	4. Reihe, 1. und 2. Reihe	152	1.234,85	1.234,85	1.234,85	1.234,85	1.234,85	1.234,85
17.02.57	123486	Herr Dr. Schmidt	4. Reihe, 1. und 2. Reihe	153	1.234,86	1.234,86	1.234,86	1.234,86	1.234,86	1.234,86
18.02.57	123487	Herr Dr. Schmidt	4. Reihe, 1. und 2. Reihe	154	1.234,87	1.234,87	1.234,87	1.234,87	1.234,87	1.234,87
19.02.57	123488	Herr Dr. Schmidt	4. Reihe, 1. und 2. Reihe	155	1.234,88	1.234,88	1.234,88	1.234,88	1.234,88	1.234,88
20.02.57	123489	Herr Dr. Schmidt	4. Reihe, 1. und 2. Reihe	156	1.234,89	1.234,89	1.234,89	1.234,89	1.234,89	1.234,89
21.02.57	123490	Herr Dr. Schmidt	4. Reihe, 1. und 2. Reihe	157	1.234,90	1.234,90	1.234,90	1.234,90	1.234,90	1.234,90
22.02.57	123491	Herr Dr. Schmidt	4. Reihe, 1. und 2. Reihe	158	1.234,91	1.234,91	1.234,91	1.234,91	1.234,91	1.234,91
23.02.57	123492	Herr Dr. Schmidt	4. Reihe, 1. und 2. Reihe	159	1.234,92	1.234,92	1.234,92	1.234,92	1.234,92	1.234,92
24.02.57	123493	Herr Dr. Schmidt	4. Reihe, 1. und 2. Reihe	160	1.234,93	1.234,93	1.234,93	1.234,93	1.234,93	1.234,93
25.02.57	123494	Herr Dr. Schmidt	4. Reihe, 1. und 2. Reihe	161	1.234,94	1.234,94	1.234,94	1.234,94	1.234,94	1.234,94
26.02.57	123495	Herr Dr. Schmidt	4. Reihe, 1. und 2. Reihe	162	1.234,95	1.234,95	1.234,95	1.234,95	1.234,95	1.234,95
27.02.57	123496	Herr Dr. Schmidt	4. Reihe, 1. und 2. Reihe	163	1.234,96	1.234,96	1.234,96	1.234,96	1.234,96	1.234,96
28.02.57	123497	Herr Dr. Schmidt	4. Reihe, 1. und 2. Reihe	164	1.234,97	1.234,97	1.234,97	1.234,97	1.234,97	1.234,97
29.02.57	123498	Herr Dr. Schmidt	4. Reihe, 1. und 2. Reihe	165	1.234,98	1.234,98	1.234,98	1.234,98	1.234,98	1.234,98
01.03.57	123499	Herr Dr. Schmidt	4. Reihe, 1. und 2. Reihe	166	1.234,99	1.234,99	1.234,99	1.234,99	1.234,99	1.234,99

◀ The start of a success story

First order of a mobile racking system was taken on 24th January 1957.

Nearly 9,000 MOVO sales since then and still growing!

From static to mobile - Strømmes Reklame, Norway

Strømmes Reklame is one of the leading suppliers in Norway of promotional items. Due to an increasing demand they needed more pallet spaces within their existing warehouse building. The warehouse was already heavily populated with traditional static racking and no more space appeared to be available.

By changing their static pallet racking system to MOVO the number of pallet spaces were increased by a staggering 70%, within the same sized building. The length, width and height in the warehouse was maximised to satisfy their demand for more pallet places.



At Strømmes Reklame

changing from Static to Mobile Pallet Racking increased the number of pallet spaces by **70%**, without having to expand the building.



More information see:
www.constructor-storage.com/MOVO

Layout options for mobile racking

The advantage of MOVO is that at the design stage it offers a choice between two different benefits. Do we use the space available and add more capacity? Or should we reduce the overall storage area?

► Conventional pallet racking



- Total storage area: 625 m²
- Number of pallet places: 1152
- Floor space used: 74%

► MOVO - increased capacity



- Total storage area: 625 m²
- Number of pallet places: 2304
- Floor space used: 74%

► MOVO - reduced storage area



- Total storage area: 625 m²
- Number of pallet places: 1152
- Floor space used: 46%

- ✓ Maximum use of floor space – only one operating aisle required
- ✓ Save up to 50% of the space required by conventional pallet racking

- ✓ Increase your storage capacity by up to 100%
- ✓ Dense storage can reduce energy bills in cold store environments

Mobile Pallet or Cantilever Racking

MOVO can be designed using pallet racking or cantilever racking. The principles remain unchanged with the storage unit being mounted on mobile bases which are controlled electronically.



ADVANTAGES OF MOBILE PALLET RACKING:

- ✓ High storage density
- ✓ Ideal for cold stores
- ✓ Easy to adjust
- ✓ Simple in handling



ADVANTAGES OF MOBILE CANTILEVER RACKING:

- ✓ Perfect for long goods
- ✓ Loads handled barrier-free
- ✓ No limitation in the length of the stored goods
- ✓ Adjustable arm length for deeper products

The frozen food logistics centre of D & S Fleisch, Essen

With a big increase in the export of meat products to Western and Eastern Europe as well as Asia, D & S Fleisch made the decision to invest in a new logistic centre for the storage and preservation of their expanding product range.

Up to 1,360 tons of meat are produced daily by the abattoirs at the D & S Fleisch GmbH in Essen, near Oldenburg, and what is not shipped as fresh product is immediately frozen and ends up in D & S Fleisch high-tech frozen logistics centre.

The refrigerated warehouse at the abattoir of D & S Fleisch ensures that up to 13,000 pallets of meat products remain in perfect condition at a constant -25 degrees until shipment.

TOTAL CAPACITY

- ✓ Freezer capacity: 180 tons
- ✓ Storage capacity: 12,968 Euro-pallets
- ✓ Production capacity: 180 pallets per hour
- ✓ Number of racking systems (MOVO): 15
- ✓ Number of static racking systems: 12



More information see:
www.constructor-storage.com/MOVO

Maximum safety features with MOVO

- ✓ Acoustic warning to announce imminent movement of trolleys
- ✓ Flashing lights during movement
- ✓ Emergency stop buttons on each trolley instructs immediate cut off
- ✓ The safety light barrier system runs along the front face and checks all aisle movement. If a truck or person is in one of the aisles it will prevent any further trolley movement until they have exited.
- ✓ The local light barrier system runs down the aisle of the trolleys and will stop the trolley if a person is located inside the aisle.
- ✓ Fork lift counting – releases automatically when number of trucks is zero.



**Safety
according to the
European Directive
2006/42/EG and
EN 15095**

Controls

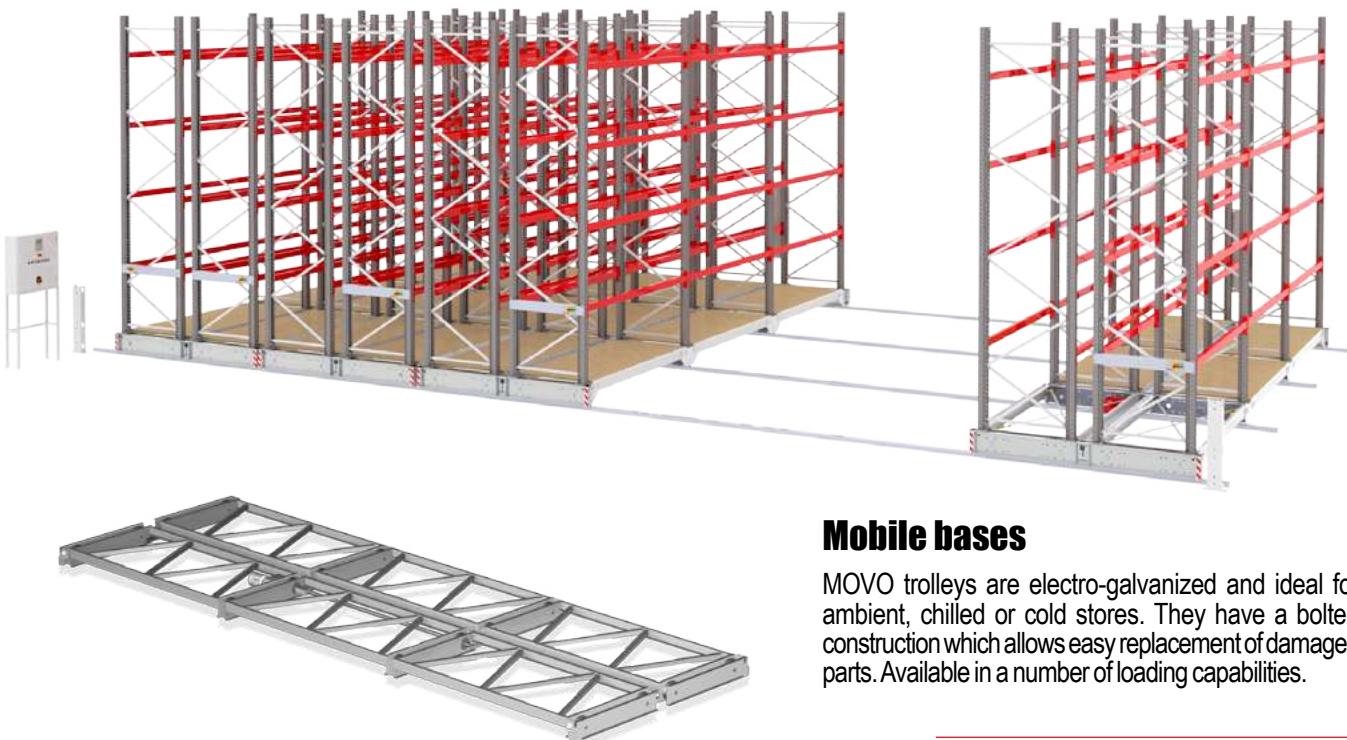
A range of various control options are available to meet all requirements:

- **Light control** – only the open aisle is lit
- **Commission mode** – open pre-selected aisles
- **Night Position** – even spread - improves air circulation
- **Sprinkler position** – a mode for fire protection
- **Picking position** – multiple aisles partially open for access
- **Remote control** – diagnostic and maintenance from experts
- **Aisle selection via radio control** – remote controlled aisle selection saves time as the fork lift truck driver can open the aisles before arrival

Operating the MOVO can be done either from the central pilot control, from controls on each trolley or via remote radio control.

Rails

The design and quality of the rails together with correct installation, is a prerequisite for a safe, well working MOVO-system. MOVO rails are made from low profile steel and can be installed on an existing floor or integrated into a new floor. In either scenario concrete is molded between the rails to form a flat floor ensuring an even operating surface.



Mobile bases

MOVO trolleys are electro-galvanized and ideal for ambient, chilled or cold stores. They have a bolted construction which allows easy replacement of damaged parts. Available in a number of loading capabilities.



More information see:
www.constructor-storage.com/MOVO



Quality assured German engineering

The mobile bases that form the heart of a Constructor mobile racking system are designed and manufactured in Germany, in accordance with strict local legislation and all EU regulations. This quality assured product is checked during and after manufacturing to ensure that a reliable product is delivered to our customers, every time.

The electrical configuration is individually designed and verified by our electrical engineers and all electrical components are supplied from our German suppliers.

Service & Maintenance

We understand the importance of having a fully operational warehouse at all times, so in the unfortunate event of a breakdown rest assured that we can get you up and running again as quickly as possible. Constructor provides a full professional service package to make sure quick response times if your product requires attention.

To make sure your mobile racking is in optimum condition Constructor also conducts a yearly dynamic safety check which includes thorough testing of the light barriers functions and software. This can be combined with your yearly rack inspection for minimum interruption to your daily operations.



More information see:

www.constructor-storage.com/Warehouse-safety/Service-Contracts



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