Material Handling and Storage Equipment

Roll-Out Shelf Racks
Drawer Racks
Sheet Racks
Bar Storage Unit
Cantilever Racks
History

Karl H. Bartels GmbH was founded in 1948 in Hamburg – Schenefeld by Karl Heinrich Bartels. At the beginning in a small workshop only simple manual transporting devices were being produced. In the course of the years Karl Heinrich grew into becoming a specialist of transporting and storing techniques. Due to our persisting will to innovate and our customer orientation, we have become one of the leading companies in this field.

Our core competence lays clearly in custom design. There is no rack we cannot build nor is there a rack we cannot deliver from our selected commercial products.

Due to our flexibility and long years of experience, we are in the position to find fast and uncomplicated solutions to meet any kind of customers demand. From the construction of a tricky storage system, space saving storing racks for heavy and long goods up to conversion of standard commercial products – we offer you a solution for almost anything!

Our Motto is

Custom design is our standard performance

We do not only develop and produce custom designed products, but also offer conceptual planning and maintenance of these goods.

In addition we have continuously expanded our range of commercial products, to offer our customers “everything from one source”. This has made us an “all around provider” of transporting devices and storage equipment.

Another milestone to customer’s proximity has been achieved after moving to the outskirts of Hamburg in a new office building and production site. First of all, you as a customer gain, not least because of optimising our production we lower costs and can make reasonable prices for you!
Philosophy

For us customer orientation means a maximum on flexibility and willingness to learn. We find solutions to our customers’ problems. Hereby we focus on their opinion and pass it on to our employees.

The companies founder Karl H. Bartels determined this philosophy, and we still live it today.

Thanks to our strong customer orientation, we have become specialists throughout the years, and in the meantime custom design is standard procedure for us.

We can produce small number of pieces to moderate prices.

Our goal is to offer you a pleasant, good informed and reliable purchase

Quality

Getting annoyed of insufficient quality holds on longer than the short happiness of a good deal. That is why highly rated quality is important to us. Since 1996 we have been certified by DIN EN ISO 9001:2000. So this guarantees you the highest possible quality and service.

Many products we offer are produced by us. We demand the same high quality on the commercial products as we do ours, before they are sent to our customers. Bartels products guarantee high quality and a long life span. Long life span guarantees less waste, less recycling. We consider the resources of our earth.

We have a highly qualified and experienced team working for us. Modern manufacturing equipment and many years of know-how ensures high quality standard. We are constantly improving our processes and sequences which enables us to meet the economic demands of our customers, to manufacture market orientated technologic high class products.

Our distribution network of outdoor salesman makes sure that our customers are served in the best possible manner.

A country wide network of mechanics ensures a customer orientated service, which means short distances and best possible maintenance of your devices.

Constant training and schooling of our employees is fundamental for our success.
Roll-Out Shelf Rack
loading by crane

Loading lengthy goods in narrow spaces!

- Gain more space in narrow warehouses
- Shelf 100% extractable
- Roll in and roll out of shelf arms made narrow aisles possible
- Quick and direct access
- Safe because of flexible loading by means of a crane system
- High load capacity
- Excess lengths are no problem
Roll-Out Shelf Rack
up to 2,600 kg per work arm

**Design**
Specially torsion-free and rigid construction. All moving parts are mounted on roller bearings. The individual structures (two control masts and two rack structures) are completely welded and assembled units. Being cross-toothed, the driveshaft has a non-slip surface providing a good grip in order to ensure controlled rotary and roll off movements of the pushing arm even under load. Color: Structure blue RAL 5012, Roll-out arms red RAL 2002. Special varnishing is also possible.

**Principle**
A crank turning a spindle rolls out each rack arm. Rolling out is carried out in a controlled manner and is limited by the depth of the arm. The ratio of spindle shaft to crank rotation is 2.36 : 1.
With a full load of 5,000 kg, an initial crank force of approx. 15 kg may be required; once in motion, only little force is needed.
Each rack unit consists of at least two base structures, longitudinal binders and control mast for each rack side. Depending on the type of lengthy goods, several base structures can be implemented for each rack at a customer-specific spacing.
Storing the goods on very high shelves is possible with the help of e.g. platform ladders or lifts.
Residual lengths can be stacked with supporting pallet or shelf arm spacing is set as required.

**Rack examples**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Load capacity per shelf arm</td>
<td>kg 1600 2600</td>
</tr>
<tr>
<td>Load capacity per rack</td>
<td>kg 3200 5200</td>
</tr>
<tr>
<td>Shelf dim.: rated depth (standard)</td>
<td>mm 500 500</td>
</tr>
<tr>
<td>rated height</td>
<td>mm 300 300</td>
</tr>
<tr>
<td>Shelf levels (incl. roof shelf)</td>
<td>Stück 2 x 5 2 x 5</td>
</tr>
<tr>
<td>Overall rack length</td>
<td>mm 5287 5327</td>
</tr>
<tr>
<td>Rack width (-depth)</td>
<td>mm 1409 1469</td>
</tr>
<tr>
<td>Rack height (overall)</td>
<td>mm 2641 2813</td>
</tr>
<tr>
<td>Height: 1st shelf (above floor)</td>
<td>mm 253 276</td>
</tr>
<tr>
<td>Upper Level (height above floor)</td>
<td>mm 1882 2052</td>
</tr>
<tr>
<td>Roof shelf (height above floor)</td>
<td>mm 2341 2513</td>
</tr>
<tr>
<td>distance between supporting frames</td>
<td>mm 3000 3000</td>
</tr>
<tr>
<td>material length</td>
<td>mm 6000 6000</td>
</tr>
<tr>
<td>Safety flaps for crank journals</td>
<td>Order-No. 126.052 126.051</td>
</tr>
<tr>
<td>Other capacities and measures are possible - please request!</td>
<td></td>
</tr>
</tbody>
</table>

**Accessories:**
**Supporting pallet or metal trays**
For especially flexible lengthy good or remainders.
Stays in the rack as hook-in floor.
Suitable for stacking and unstacking.

**Shelf dividers**
Add-on shelf dividers to provide optimal storage goods.
Cassette type drawer shelf

Loadable by crane from the front and the face sides

100% extension
Direct access - no restacking required
Incredibly space saving due to the pivoting projection
Ideal for machine lines
Clearly arranged even with different lengths, sorts and rest pieces
Optionally extendable

Bar stock can be loaded by crane.
Cassette type drawer shelf
for loading by crane

- Direct access - no restacking required as for bar stock pallets
- Incredibly space saving due to low construction height and pivoting projection
- Ideal for machine lines
- For bar stock up to 6000 mm and 12 t
- Also suitable for rest pieces
- Clearly arranged, even with different types of bar stock
- Flexible use due to 3-way operation (front and 2 face sides)
- Light moving cassettes running in ball bearing guides

**Design:** Very stable, torsion resistant steel structure. Bolted carrying frame to take up 6 welded bar stock cassettes. The supplied roll-off roller is simply plugged into the open structure to ease the removal of material from the face side. Loading: 6 cassettes with a load bearing capacity of 2000 kg above one another. Colour: Frame blue RAL 5012, cassettes red RAL 2002. Roll-off roller included in scope of delivery.

Special paint finish in any RAL-colour possible at extra cost - please enquire.

**On request:** Attachable shelf partition - please enquire!

**Please note:** Floor anchorage required.

<table>
<thead>
<tr>
<th></th>
<th>model</th>
<th>KSR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total loading capacity</td>
<td>kg</td>
<td>12000</td>
</tr>
<tr>
<td>Loading capacity / shelf</td>
<td>kg</td>
<td>2000</td>
</tr>
<tr>
<td>Loading capacity / shelf</td>
<td>pc.</td>
<td>6</td>
</tr>
<tr>
<td>Overall dimensions W x D x H, pivoted projection closed</td>
<td>mm</td>
<td>6610 x 990 x 1970</td>
</tr>
<tr>
<td>Overall dimensions W x D x H, pivoted projection open</td>
<td>mm</td>
<td>6610 x 1720 x 1970</td>
</tr>
<tr>
<td>Inside cassette dimensions W x D x H</td>
<td>mm</td>
<td>6200 x 600 x 200</td>
</tr>
</tbody>
</table>
Bar Storage Unit

Completely extractable loading

Ideal for small warehouses
Tidy in low storage areas
Very space-saving and clearly arranged
Quick operation with grabs or stacker
Easy handling from the front side
Low investment costs
Easily extractable system
Design with two alternatives
Bar Storage Unit
1,000 kg capacity per rack

Design with two alternatives

Solid steel construction
The base rack consists of two welded parts with e.g. 2 x 5 shelves to hold altogether 10 racks or trolleys. The connecting section is made of a pair of crossbars, which are attached to the frame of the next unit.

Color: frame blue RAL 5012, racks red RAL 2002. Special varnishing is possible with all RAL-colors—please ask for further information!

Operation
The racks are grabbed by the leading edge at the front side, lifted approx. 20 mm with a hydraulic system and the loading pulled out to 100%. The back end of each rack is provided with ball bearing flange wheels.

Possible Construction

Hang in hydraulic grab on to the section rack, lift and pull.

<table>
<thead>
<tr>
<th>Rack examples:</th>
<th>Order-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>base shelf with 2 shelves and each 5 rack sections outside measure: W x D x H 1640 x 6587 x 2190 (without racks) support for highest rack: 2040 mm over floor</td>
<td>124.010</td>
</tr>
<tr>
<td>connection section for 5 section racks</td>
<td>124.020</td>
</tr>
<tr>
<td>racks with 2 ball bearing flange wheels capacity 1000 kg inside width W x D x H 500 x 6000 x 300 mm</td>
<td>124.036</td>
</tr>
<tr>
<td>Accessories: hydraulic grab with special rack uptake</td>
<td>124.001</td>
</tr>
<tr>
<td>adapter for fork lift</td>
<td>124.003</td>
</tr>
<tr>
<td>details of customer fork lift required</td>
<td></td>
</tr>
</tbody>
</table>

Other partitioning, dimensions or designs are possible - please request!

Hang in hydraulic grab on to the section rack, lift and pull.

Racks with two ball bearing flange wheels

Racks incl. trolley with four ball bearing flange wheels
Drawer Rack for lengthy loads

Long loads in narrow spaces

- Space saving, can be placed directly near the wall
- 2/3 extendable drawer with up to 1000 kg loading capacity per drawer
- Easy identification and quick retrieval of goods
- Simple and easy handling
- Solid welded trays for optimal support of materials
- Compact storing by crane or forklift

Model 4 + 1 extractable shelves and fixed roof shelf

Non-standard performances are standard for us
Drawer Rack for lengthy loads

Design
Solid steel construction, about 2/3 extractable drawers with interlock, double ball bearing guides, top drawer is a fixed roof selve and not extractable. Color: upright frame blue RAL 5012, drawers red RAL 2002. The drawer rack is delivered completely mounted.

Principle:
This single sided drawer rack offers optimal space saving storage of long length of material and steel bars. Insertable stacks as well as welded stops prevent loads from slipping off the drawer. Each drawer has a grip to easily extract loads.
Options from front to rear supports or solid trays available - please request.
A floor anchor is neccessary.

Optional custom made measurements and other number of drawers possible! - Other RAL colors also available upon request.

Rack examples

<table>
<thead>
<tr>
<th>Model</th>
<th>SRL (2/3-extractable)</th>
<th>SRL 3 + 1</th>
<th>SRL 4 + 1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>loading capacity / level kg</td>
<td>1000</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>shelves pc</td>
<td>3 + fixed roof shelf</td>
<td>4 + fixed roof shelf</td>
</tr>
<tr>
<td>shelf measurements</td>
<td>W x D mm</td>
<td>4000 x 800</td>
<td>4000 x 800</td>
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<tr>
<td>usable shelf height mm</td>
<td>300</td>
<td>300</td>
<td></td>
</tr>
<tr>
<td>extraction mm</td>
<td>483</td>
<td>483</td>
<td></td>
</tr>
<tr>
<td>rack width mm</td>
<td>4216</td>
<td>4216</td>
<td></td>
</tr>
<tr>
<td>rack depth mm</td>
<td>1072</td>
<td>1072</td>
<td></td>
</tr>
<tr>
<td>rack depth extended mm</td>
<td>1600</td>
<td>1600</td>
<td></td>
</tr>
<tr>
<td>height mm</td>
<td>1754</td>
<td>2169</td>
<td></td>
</tr>
<tr>
<td>first level height mm</td>
<td>1442</td>
<td>1457</td>
<td></td>
</tr>
<tr>
<td>dead weight kg</td>
<td>880</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td>order-no.</td>
<td>126.401</td>
<td>126.402</td>
<td></td>
</tr>
</tbody>
</table>

Non-standard performances are standard for us

Drawer Rack
loading by crane

Completely extractable for heavy sheet metal!

Ideal for loading and removing with a crane or a stacker

Safe handling of delicate sheet metal

High loading capacity up to 3,000 kg

Smooth roll mechanism on flange wheels

Shoot bolt of every single drawer

Also available with an adjustable stem
Intralogistics
KARL H. BARTELS GmbH
Info-Tel.: +49 (0)4126 3968-333
Email: info@bartels-logistic.de

Drawer Rack
up to 3,000 kg per drawer

Power transmission per crank:
Easy extension of racks, advised from 2,000 kg - please ask for more information.

Design
Solid steel construction, drawers incl. plastic side stakes, running on flange wheels.
Standard construction: 8 extractable drawer levels plus one fixed roof shelf. Shelf height is also available in different versions. Color: frame blue RAL 5012, drawers red RAL 2002, plastic side stakes of drawers graphit grey RAL 7024. Special colors possible.

Principle
Optimal for loading and unloading with a crane or a stacker, as drawers are fully extractable.
Available with fixed or hinged extension that saves space and provides room in the aisles in front of the racks.
Drawers can be secured with a shoot bolt.
Standard capacity of 2,000 kg per rack, 3,000 kg possible upon request.

Rack examples

<table>
<thead>
<tr>
<th>model</th>
<th>for sheet sizes L x B mm</th>
<th>levels (extractable + fixed top)</th>
<th>loading capacity /level kg</th>
<th>flat floor Order-No.</th>
<th>floor with spacers Order-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>with fixed extension SRB 20/2</td>
<td>2000 x 1000</td>
<td>8 + 1</td>
<td>2000</td>
<td>126.275</td>
<td>126.276</td>
</tr>
<tr>
<td>with hinged extension SRB 20/2</td>
<td>2000 x 1000</td>
<td>8 + 1</td>
<td>2000</td>
<td>126.277</td>
<td>126.278</td>
</tr>
<tr>
<td>SRB 25/2</td>
<td>2500 x 1250</td>
<td>8 + 1</td>
<td>2000</td>
<td>126.281</td>
<td>126.282</td>
</tr>
<tr>
<td>SRB 30/2</td>
<td>3000 x 1500</td>
<td>8 + 1</td>
<td>2000</td>
<td>126.285</td>
<td>126.286</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>design</th>
<th>for sheet sizes mm</th>
<th>capacity / level kg</th>
<th>a mm</th>
<th>b mm</th>
<th>c mm</th>
<th>d mm</th>
<th>d (with folded extension) mm</th>
<th>f mm</th>
<th>h mm</th>
<th>k mm</th>
<th>l mm</th>
<th>m mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>with fixed extension SRB 20/2</td>
<td>2000 x 1000</td>
<td>2000</td>
<td>2054</td>
<td>1032</td>
<td>2441</td>
<td>2147</td>
<td>–</td>
<td>2201</td>
<td>1980</td>
<td>200</td>
<td>1600</td>
<td>125</td>
</tr>
<tr>
<td>with hinged extension SRB 20/2</td>
<td>2000 x 1000</td>
<td>2000</td>
<td>2054</td>
<td>1032</td>
<td>2441</td>
<td>2147</td>
<td>1416</td>
<td>2201</td>
<td>1980</td>
<td>200</td>
<td>1600</td>
<td>125</td>
</tr>
<tr>
<td>SRB 25/2</td>
<td>2500 x 1250</td>
<td>2000</td>
<td>2554</td>
<td>1282</td>
<td>2941</td>
<td>2647</td>
<td>1666</td>
<td>2701</td>
<td>1960</td>
<td>200</td>
<td>1600</td>
<td>125</td>
</tr>
<tr>
<td>SRB 30/2</td>
<td>3000 x 1500</td>
<td>2000</td>
<td>3054</td>
<td>1532</td>
<td>3441</td>
<td>3147</td>
<td>1916</td>
<td>3201</td>
<td>1970</td>
<td>210</td>
<td>1610</td>
<td>115</td>
</tr>
</tbody>
</table>

a - rack width
b - rack depth
c - total width
d - total depth
f - depth by extended rack
h - total height
k - lowest level height
l - highest level height
m - inside rack height

We build drawer racks for you according to your requirements - also with different width, depth, number of floors, double-sided extractable drawers for back loading, and so on...

Capacity up to 5,000 kg per rack possible - please request.
Quickly store your sheet material!

- Necessary material directly to place at the work bench
- Complex storing of sheet material
- Easy to remove with the fork lift
- Multiply your storing space
- Individually stackable one on the other
- Endlessly expandable system
Flat Pallet Storage Rack

2000 kg capacity per storage tray

Intralogistics

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Flat Pallet Storage Rack

- centrally stored sheet material, completely extractable
- neatly and sparing arranged in narrow spaces
- storing in racks provides direct access at any time
- sheet material can be used directly besides the work bench because of the complete extraction of the loaded flat pallet
- pallets can be stored or stacked as well as inside or outside the storage rack - with or without loads
- optional fork pockets inside the frame for optimal usable height.

Design

Solid welded steel construction. Flat pallets lay on brackets and can therefore be moved separately. The pallets have to be extracted and transported with a fork lift. In front and besides the pallets there are plastic stanchions colored in graphit-grey RAL 7024. In the back there are fixed stoppers to keep the storing goods from falling out. The corner posts of the pallets are constructed in such a way, that the pallets can be stored outside the steel frame and can be stacked fully loaded one atop of the other.

Delivery mounted, floor anchor necessary!

Fork pocket dual space: 850 mm; light pocket width: 148 x 68 mm; capacity per pallet up to 2000 kg; Pallets are 6-times stackable (6 pallets one atop of the other); Color: frame blue RAL 5012; pallets red RAL 2002.

Tell us what you want to store and we will design racks or complete a rack system to suit your needs.

with inside fork pockets

<table>
<thead>
<tr>
<th>model</th>
<th>order-no.</th>
<th>over all measurements W x D x H</th>
<th>usable measurements of pallets</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>mm</td>
<td>mm</td>
</tr>
<tr>
<td>KF</td>
<td>124.101</td>
<td>2436 x 1100 x 2158</td>
<td>2050 x 1050 x 130</td>
</tr>
<tr>
<td>MF</td>
<td>124.102</td>
<td>2936 x 1350 x 1918</td>
<td>2550 x 1300 x 90</td>
</tr>
<tr>
<td>GF</td>
<td>124.103</td>
<td>3436 x 1600 x 1738</td>
<td>3050 x 1560 x 60</td>
</tr>
</tbody>
</table>

with fork pockets underneath the pallet

<table>
<thead>
<tr>
<th>model</th>
<th>order-no.</th>
<th>over all measurements W x D x H</th>
<th>usable measurements of pallets</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>mm</td>
<td>mm</td>
</tr>
<tr>
<td>KF</td>
<td>124.111</td>
<td>2436 x 1100 x 2590</td>
<td>2050 x 1050 x 130</td>
</tr>
<tr>
<td>MF</td>
<td>124.112</td>
<td>2936 x 1350 x 2350</td>
<td>2550 x 1300 x 90</td>
</tr>
<tr>
<td>GF</td>
<td>124.113</td>
<td>3436 x 1600 x 2230</td>
<td>3050 x 1550 x 60</td>
</tr>
</tbody>
</table>

Design with fork pockets underneath the pallet.

Integrated fork pockets

Ideal combination of a drawer rack for metal sheets.

Tell us what you want to store and we will design racks or complete a rack system to suit your needs.
Depalettiser
for sheet metal packets up to 3000 kg

Non-standard performances are standard for us

A rapid separation of sheet metal packets from pallets

Individually adjustable to any pallet format
Take-up stands also deployable as individual assembly stands
Can be positioned together for saving space when not in use
4 steering rollers per take-up stand ensure mobility
Can also be driven under load
Design

The Depalletiser is comprised of two take-up stands, which are coupled together by means of a connecting arm. The robust, steel welded structure is outfitted with 4 steering casters per take-up stand, as well as with two total-arresting devices. Wheels: free-running polyamide wheels, optionally with polyurethane tread, are elastic and low-noise producing.

Functional operation

The take-up stands are coupled together into one unit by the connecting arm. Thereby, the separation distance is determined according to pallet dimensions. The stanchions are removed from their storage positions, inserted into their working positions, and can be shifted accordingly on their respective take-up stand to fit through the gaps in the pallet. After being loosened, the wood pallet falls onto the support blocks. The freed sheet metal packet now lies on the removable stanchions. It can now be easily taken up and transported by means of a forklift or crane.

Precise in detail

As a space-saving feature, the connecting arm between the two take-up stands is stored directly in the take-up stand. In this manner, it is always on-hand and won't be misplaced. The locking pin for affixing the connecting arm is outfitted with axial locking to prevent it from slipping out during shifting. Removable stanchion storage points are provided for within the free-wheeling stands so that they are readily available, even when being stored if not in use.

Load limit per take-up stand kg 1500
Measurements W x D x H mm 1000 x 510 x 865
Height with removable stanchions mm + 260
Material measurements:
| Min. dimensions | mm | 200 x 600 |
| Max. dimensions | mm | 3000 x 1500 depending on the flexibility of the material being unloaded |

Order-No. 124.201
Sheet Rack for Metal Sheets

Ideal for storing residuals

- Storing of different sizes possible
- Easy to take out due to simple sorting system
- Vertical storing of plate materials
- Space-saving handling of delicate metal sheets
- Especially sparing with high-quality metal sheets
- No paper interlayer necessary

Every drawer is fully extractable.
Sheet Rack for Metal Sheets

Ideal for storing residuals

Design

Suitable for metal sheet sizes up to max. 3,000 x 1,500 mm

Solid steel construction, drawers separately extractable, plates can also be rolled back from rear part, base made of waterproof plywood, walls with plastic plating for different table formats. Exact guidance of the drawer, upper shelf arms mounted on roller bearings, safe through foot protection. Color: blue RAL 5012, extractable racks color red RAL 2002.

Principle

The vertical sheet racks offers ideal space-saving storing of plate material such as metal sheets, wood plates, plastic sheets etc.

Synthetic material ensures sparing storage especially of high-quality metal sheets, e.g. stainless steel, aluminum, NE metals

Vertical handling excludes danger of damaging the surface of delicate metal sheets - no paper interlayer necessary.

Different formats can be stored in one shelf and can be taken out easily due to a sorting system.

Design is possible as a left or right inclined version for optimal fulfilling your store necessities. Please inform us when ordering.

Special sizes upon request!

Rack example:

<table>
<thead>
<tr>
<th>Model</th>
<th>GF 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Order-No.</td>
<td>130.026</td>
</tr>
<tr>
<td>Suitable for formats L x W</td>
<td>mm 3000 x 1500</td>
</tr>
<tr>
<td>Capacity per rack</td>
<td>kg 700</td>
</tr>
<tr>
<td>Dimensions L x W x H</td>
<td>mm 3755 x 1347 x 1828</td>
</tr>
<tr>
<td>Number of racks</td>
<td>St. 5</td>
</tr>
<tr>
<td>Depth of rack</td>
<td>mm 3000</td>
</tr>
<tr>
<td>Width of rack</td>
<td>mm 90</td>
</tr>
<tr>
<td>Height of rack</td>
<td>mm 1500</td>
</tr>
</tbody>
</table>
Drawer Rack for Heavy Weight Material flex

Boltless shelving for heavy loads

- Interlock and individual protection of each drawer
- 2/3 extractable with up to 1000 kg loading capacity per shelf
- Endlessly expandable with extension racks
- The height of shelves can be individually adjusted
- Easy identification and quick retrieval of goods
- Simple and easy handling
- Good running quality of shelves due to ball bearing guide
- Compact storing by crane or forklift

variable boltless shelving
Drawer Rack for Heavy Weight Material *flex*

**Design**

The basic rack has a total 7500 kg loading capacity consisting of two upright frames from pallet rack components. Each shelf is consisting of an upper and lower guide and two traverse guide arms with beam-to-column connectors to hang in drawers. The beam-to-column connectors have to be fixed to the upright frames with a security pin. Each frame is punched in 50mm distance to individually adjust each shelf in height. Minimum height of each shelf: 150 mm.

Interlock that locks all other shelves in when one shelf is rolled out, as per reg. UVV BGR 234 (former ZH 1/428).

Add on rack: same as basic rack, but with just one upright frame.

Colour: Upright frame galvanized, drawer: red RAL 2002, available in all RAL colours upon request!

**Detailed specials:**

This heavy weight material rack is ideal for space saving storage of pallets, big tools or heavy loads.

The metal base is offered for space saving storage for even small parts, tools or boxes. Naturally, any other base material possible-please request!

Each drawer is easy to adjust in height due to punched frame to meet the ever changing storage requirements.

Each drawer is 2/3 extractable.

Floor anchor is necessary.

**Optional custom made measurements and other number of shelves possible!**

**Rack examples**

<table>
<thead>
<tr>
<th>Type</th>
<th>SR Flex</th>
<th>(2/3-extendable)</th>
<th>basic rack</th>
<th>add on rack</th>
</tr>
</thead>
<tbody>
<tr>
<td>capacity per shelf</td>
<td>kg</td>
<td>1000</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td>shelf measures</td>
<td>width x depth mm</td>
<td>1000 x 1200</td>
<td>1000 x 1200</td>
<td></td>
</tr>
<tr>
<td>number of shelves</td>
<td>pc.</td>
<td>4</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>rack height</td>
<td>mm</td>
<td>2200</td>
<td>2200</td>
<td></td>
</tr>
<tr>
<td>usable shelf height</td>
<td>mm</td>
<td>310</td>
<td>310</td>
<td></td>
</tr>
<tr>
<td>extraction</td>
<td>mm</td>
<td>780</td>
<td>780</td>
<td></td>
</tr>
<tr>
<td>rack width</td>
<td>mm</td>
<td>1270</td>
<td>1165</td>
<td></td>
</tr>
<tr>
<td>rack depth</td>
<td>mm</td>
<td>1277</td>
<td>1277</td>
<td></td>
</tr>
<tr>
<td>dead weight</td>
<td>kg</td>
<td>185</td>
<td>170</td>
<td></td>
</tr>
<tr>
<td>order-no.</td>
<td></td>
<td>126.101</td>
<td>126.102</td>
<td></td>
</tr>
</tbody>
</table>

Roof shelf order-no. 126.103
Extremely easy unwinding and lifting goods on barrels
Strength saving handling on construction sites
Handling and transportation of cables, chains, ropes etc.
All-round and easy handling of goods bundled and on barrels
Put together in three pieces makes it space saving
Ideal for work shops, production plants, construction sites
No service or maintenance costs

Custom Design is our Standard Performance
Design

Solid steel construction, welded frame with adjustable eccentric hanging suspension mounting, hinged frame and hook guard. The adjustable hanging suspension allows a variety of axis adjustments. So you can find the optimal position when working with barrels. This enables the user to pick up the barrels to move them to another position without big effort.

Function

To unwind a barrel, first the axis of the unwinding device is lead through the axis of the barrel. Then the barrel can be move to an optimal position in accordance to the dimension of the barrel. By doing this two equal tappets arise, these can be mounted to the axis to close firmly with the barrel. Now the user can roll the barrel over the floor into working position. This elevates the eccentric hanging suspension of the unwinding device. Easy unwinding is now possible.

The user never needs to manually pick up a full barrel.

<table>
<thead>
<tr>
<th>capacity / pair</th>
<th>kg</th>
<th>600</th>
</tr>
</thead>
<tbody>
<tr>
<td>overall measurement</td>
<td>Ø mm</td>
<td>800</td>
</tr>
<tr>
<td>measurement of winding goods</td>
<td>Ø mm</td>
<td>300 - 1000</td>
</tr>
<tr>
<td>overall barrel measurement</td>
<td>until approx. Ø mm</td>
<td>1200</td>
</tr>
<tr>
<td>dead weight</td>
<td>total ca. kg</td>
<td>35</td>
</tr>
<tr>
<td>frames each kg</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Order-No.</td>
<td></td>
<td>116,200</td>
</tr>
</tbody>
</table>

Using one side of the frame enables usage for any other batches in horizontal bundles.
Quickly tipped directly from the stacker

- Empties itself
- Erects itself
- Self-acting lock
- No physical effort required
- Secure handling
- On pallet with fork pocket
- Mobile with swivel and fixed castors
- For lever pallet lifter usage
Self-Tipping Carriage
up to 2,000 litres content

3 designs alternatives:
- on pallet
- with two swivel and fixed castors
- for lever pallet lifter usage

Advantages:
- easy - secure - quick - no physical effort necessary
- automatic tipping and emptying after unlocking
- goes automatically back to starting position
- automatic self-locking


Optionally:
- galvanised or V2A - please ask!
- absolute liquid tightness (see accessories)

Upon request we can also offer further dimensions, volumes or designs – please ask!!

Automatic activation:
Tipping easily even from high up, no need of linkage or something comparable. The operator does not have to leave the stacker; the activator of the self tipping carriage is just to be pushed against a solid edge – e.g. of the container – and tipping process is automatically activated; after emptying the self-tipping carriage automatically locks itself again, automatic, vertical parts butt at the edge and activate the tipping process. The expediently attached automatic activation also enables tipping far into the catching device and not only emptying at the edge.

Various accessories:
- Automatic unlocking
- Liquid tight welded
- Lid half-folding with grip and locked clamps
- Ball valve 1/2" and removable filter at the bottom, as well as liquid tight welded
- In different colors as for containers for recyclable materials
- Extremely low overall height of only 552 mm, optimal use under pressures, drill machines, lathes etc..

Special designs and vanishing are possible - please request!
Jacks + Roller Plates

Pulling easier than pushing!!

- Economic on four wheels
- Space-saving on two wheels
- Mobile due to great maximum angle of turn
- Secure due to solid bolting device
- No accidental leaping up of towing bar

Non-standard performances are standard for us.
Jacks + Roller Plates
up to 5,000 kg capacity

Design
Solid steel construction, loading capacity of the rolling plate to be able to pull up to 5,000 kg. Wheels made of solid rubber or vulcollan. Available with and without brakes. Very secure, as towing bars do not leap up accidentally. Wooden rolling plate bordered in angle steel or U-steel frame, welded fittings, mounted on roller bearings, from 5,000 kg vulcollan ball bearing wheels.

Principle
Firm bolting between lever pallet lifter and rolling plate. Disc brake for a secure use in slope sections on demand. Space-saving shunting at narrow places due to the possibility of fixing the towing bar.

When pulling loads over 3,000 kg please use electric pallet truck, Bartels catalogue 2007, page 134.

Upon request also available with coupling to hitch up to the towing vehicle on demand.
Climber-Coolie Speezy automatically nevelling

Keeps loading platform continuously horizontal

Automatically starts climbing when reaching the stairs

Detachable loading ramp

It only takes approx. one minute for one level, downstairs even quicker

Safely balanced on two crawlers

Continuously horizontal ...
... when transporting copiers, refrigerators, (even aquariums) a.s.o.
Climber-Coolie Speezy 200

- automatic levelling function especially for copying machines and the like
- tandem wheels allows easy moving over plain surfaces
- high battery capacity ensures often use and long distances
- foldable for easy transport
- even just one person alone can handle heavy loads without any risk of back injuries.

When folded, only little space needed

<table>
<thead>
<tr>
<th>Climber Coolie Speezy 200</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Capacity</strong></td>
</tr>
<tr>
<td><strong>Dimensions built up mm</strong></td>
</tr>
<tr>
<td><strong>L x W x H folded mm</strong></td>
</tr>
<tr>
<td><strong>Loading Ramp L x W mm</strong></td>
</tr>
<tr>
<td><strong>Speed (with 200 kg load on stairs 35° angle)</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>Motor</strong></td>
</tr>
<tr>
<td><strong>Battery (2 x 12 V, 17 Ah)</strong></td>
</tr>
<tr>
<td><strong>Service time/battery charge at approx. 25° C</strong></td>
</tr>
<tr>
<td><strong>Max. stair angle</strong></td>
</tr>
<tr>
<td><strong>Stair Landing mm</strong></td>
</tr>
<tr>
<td><strong>Dead Weight (incl. battery) kg</strong></td>
</tr>
<tr>
<td><strong>accessories:</strong> Sonel charger 24 V/3 A article no.</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

Loads are always horizontal, therefore safe for user and goods
Climber Coolie Speezy 100
– the fast transporter over stairs

- It “flies” over stairs – faster than any other machine of this kind and therefore saves a lot of time.
- Easy handling because it automatically starts climbing when it reaches the stairs.
- Safe on the stairs because the crawler support rests on at least two steps, making tedious balancing and holding unnecessary.
- The 4-fold tandem wheels allows the “Speezy” to be easily moved over plain surfaces.
- The very high battery capacity ensures extended service time and long distances.
- Since foldable, it can even be carried in a car trunk.
- Humane – no carrying or dragging loads over stairs – no longer any risks of back aches and pains.

Climber Coolie Speezy 100

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>100 kg</td>
</tr>
<tr>
<td>Dimensions built up mm</td>
<td>1450 x 415 x 844 mm</td>
</tr>
<tr>
<td>L x W x H folded mm</td>
<td>1147 x 415 x 342 mm</td>
</tr>
<tr>
<td>Speed up m/min.</td>
<td>11 (approx. 44 steps)</td>
</tr>
<tr>
<td>Speed down m/min.</td>
<td>15 (approx. 60 steps)</td>
</tr>
<tr>
<td>Motor</td>
<td>magnetic 425 W</td>
</tr>
<tr>
<td>Battery (2 x 12 V, 12 Ah)</td>
<td>24 V / 12 Ah</td>
</tr>
<tr>
<td>Service time/battery charge</td>
<td>ca. 50 min m. 100 kg</td>
</tr>
<tr>
<td>Max. stair angle</td>
<td>35°</td>
</tr>
<tr>
<td>Tie-down strap (incl.)</td>
<td>2.7 m</td>
</tr>
<tr>
<td>Dead Weight (incl. battery)</td>
<td>65 kg</td>
</tr>
<tr>
<td>Accessories:</td>
<td></td>
</tr>
<tr>
<td>Soneil charger 24 V/3 A</td>
<td>article no. 333.251</td>
</tr>
</tbody>
</table>

Machines with 1,000 kg capacity upon request.
Climber-Coolie Pianoplan

ideal Stair Robot Transporter
for difficult, heavy and bulky loads

- Safe - an electromagnet brake supports the operator regardless of weight or form of load automatically and continuously.
- Economical - designed for a one – two man operation which usually requires four to five, and even safer, easier and healthier.
- Easy to manoeuvre – thanks to its dimensions and its inside roller lifting system, Pianoplan can turn also on very narrow landings (min. 850 mm wide).
- Easy to handle – all control switches are on the control panel and all movements are carried out smoothly and precisely.
- Delivery includes two holding straps and charger.

Types:
- **Type Standard** - with horizontal loading platform, frontal adjustable to shift the center of load plus vertical outriggers for easy moving on narrow landings.
- **Type Horizontal** - same as above standard type with an additional feature, horizontal lifting platform (load remains in a horizontal position when transporting).
- **Type Vertikal** - same as standard type but equipped additionally with a 90° vertical turning platform (objects can be loaded directly from the ground).

Standard color: blue RAL 5017, other colors upon request against added costs.

Optional: Speedy - with independent moving crawlers with two motors (2 x 700 W) allowing to turn safely on flat grounds, stairs and in narrow spaces. The optional speedy increases the dead weight by 25 kg.

<table>
<thead>
<tr>
<th>Type</th>
<th>Standard</th>
<th>Horizontal</th>
<th>Vertikal</th>
</tr>
</thead>
<tbody>
<tr>
<td>loading capacity kg</td>
<td>600</td>
<td>600</td>
<td>600</td>
</tr>
<tr>
<td>length mm</td>
<td>min. 1280</td>
<td>min. 1280</td>
<td>min. 1280, max 1690</td>
</tr>
<tr>
<td>usable length mm</td>
<td>min. 1360</td>
<td>min. 1360</td>
<td>min. 1360</td>
</tr>
<tr>
<td>width mm</td>
<td>540</td>
<td>540</td>
<td>540</td>
</tr>
<tr>
<td>length of loading platform mm</td>
<td>1205</td>
<td>1205</td>
<td>min.1205, max.1605</td>
</tr>
<tr>
<td>width of loading platform mm</td>
<td>430</td>
<td>430</td>
<td>430</td>
</tr>
<tr>
<td>front extension mm</td>
<td>500</td>
<td>500</td>
<td>500</td>
</tr>
<tr>
<td>min. height of platform mm</td>
<td>325</td>
<td>370</td>
<td>405</td>
</tr>
<tr>
<td>max. height of platform mm</td>
<td>700</td>
<td>700</td>
<td>700</td>
</tr>
<tr>
<td>dead weight kg</td>
<td>275</td>
<td>315</td>
<td>320</td>
</tr>
<tr>
<td>speed m/min.</td>
<td>12</td>
<td>12</td>
<td>12</td>
</tr>
<tr>
<td>Motor W</td>
<td>1200</td>
<td>1200</td>
<td>1200</td>
</tr>
<tr>
<td>pressure bar</td>
<td>110</td>
<td>125</td>
<td>130</td>
</tr>
<tr>
<td>battery 2 x 12 V Ah</td>
<td>65</td>
<td>65</td>
<td>65</td>
</tr>
<tr>
<td>battery charge floors</td>
<td>50</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>charger 230 V / 50 Hz / 115A</td>
<td>incl.</td>
<td>incl.</td>
<td>incl.</td>
</tr>
<tr>
<td>incl. option „Speedy“</td>
<td>Artikel-Nr.</td>
<td>330.020</td>
<td>330.021</td>
</tr>
<tr>
<td>Artikel-Nr.</td>
<td>330.030</td>
<td>330.031</td>
<td>330.032</td>
</tr>
<tr>
<td>additional price: other RAL-colour Artikel-Nr.</td>
<td>330.024</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
The stainless steel platform can be turned upright up to 90° for better load or unloading goods.

The end stop prevents the load from sliding downwards on the stairs.

Over a steel wheel glides the load softly on the stainless steel platform.

Like a sack truck the load can be picked directly from the floor or from the pallet!

Easy curving with switch on control panel or by lowering the lifting support.

Additional Option Speedy: two independent powered crawlers makes the pianoplan much easier to move!

Steep stair angles are no burden for the pianoplan!

For very long loads the platform can be extended front or backside.
Climber-Coolie CU 133

- transporting quickly upstairs and downstairs
- secure in handling
- one single person can move heavy loads all alone
- human and healthy - no back ache or lumbago
- it only takes approx. 1 minute for one level, downstairs even quicker
- universal - even for long loads
- excellent balance as running on two crawlers
- even with unbowed handle - please request.

Convenient to handle, as the control switch has magnetic plates and can be fixed everywhere on the frame; or simply hold it in your hand. Working with the climper-coolie is continuously trouble free, as you can simply switch from working on level grounds to stairs and vice versa. Due to battery operation, the operator is independent from electric supply and the stair robot transporter can be used anywhere. The rechargeable dry battery is included in delivery. Batteries can be changed easily.

Motor: DC 24/210 W; speed: upstairs 1.6 m/min, downstairs 1.8 m/min.

### Accessories:

**Truck loading ramp:**
Aluminium design, capacity: 800 kg, length 2500 mm, inner width 800 mm, dead weight 22 kg.

<table>
<thead>
<tr>
<th>Design</th>
<th>CU 133</th>
</tr>
</thead>
<tbody>
<tr>
<td>Load capacity</td>
<td>kg 130</td>
</tr>
<tr>
<td>Dimensions:</td>
<td></td>
</tr>
<tr>
<td>Length</td>
<td>mm 1710</td>
</tr>
<tr>
<td>Width</td>
<td>mm 500</td>
</tr>
<tr>
<td>Depth</td>
<td>mm 395</td>
</tr>
<tr>
<td>Crawler width</td>
<td>mm 2 x 50</td>
</tr>
<tr>
<td>max. length of load</td>
<td>mm 1710</td>
</tr>
<tr>
<td>Shovel</td>
<td>mm 500 x 180</td>
</tr>
<tr>
<td>Motor voltage</td>
<td>V 12</td>
</tr>
<tr>
<td>Motor performance</td>
<td>W 210</td>
</tr>
<tr>
<td>Speed with load</td>
<td>m/min.</td>
</tr>
<tr>
<td>upstairs</td>
<td>7,0/13,0</td>
</tr>
<tr>
<td>downstairs</td>
<td></td>
</tr>
<tr>
<td>Battery</td>
<td>2 x 6V / 20 Ah</td>
</tr>
<tr>
<td>Operation time</td>
<td>min. 30</td>
</tr>
<tr>
<td>Batt.-load</td>
<td>(at +25 °C)</td>
</tr>
<tr>
<td>Dead weight</td>
<td>kg 54</td>
</tr>
<tr>
<td>Order-No.</td>
<td>330.001</td>
</tr>
</tbody>
</table>
Climber-Coolie CU 406 / CU 606

- safe – while moving on stairs machine and load lay safely on three steps, no need for the operator to keep against it
- cost-saving – one or two person can do the work of two to four or more – they need half the time and have less effort
- human – no back ache or lumbago
- quick – 1 floor in one minute
- universal – even long loads are no problem, because the upper handle frame is detachable
- good balance because the climber-coolie moves on two crawlers
- convenient – control switch has a magnetic plate and can be fixed everywhere on the frame or keep it simply in your hands
- continuously trouble free working, simply switching between ground to stairs or vice versa
- independent of mains voltage: the battery power unit is everywhere usable
- dry batteries of high capacity – no leakage
- changing batteries in the battery case is simply easy.

Adjustable load platform:
Ideal adjustment of the load gravity centre due to a motorized adjustable load platform, standard feature with design CU 606. Motor: DC 24/210 W; Speed: upstairs 1,6 m/min, downstairs 1,8 m/min.
This adjustability makes transport on stairs easy, even in case of loads with different centers of gravity.
Adjustable range: 400 mm up, 200 mm down.

Minimum stair landing dimensions

<table>
<thead>
<tr>
<th>Type</th>
<th>CU 406</th>
<th>CU 606</th>
</tr>
</thead>
<tbody>
<tr>
<td>Load capacity kg</td>
<td>400</td>
<td>600</td>
</tr>
<tr>
<td>Dimensions: Length mm</td>
<td>2055</td>
<td>2055</td>
</tr>
<tr>
<td>Width mm</td>
<td>678</td>
<td>678</td>
</tr>
<tr>
<td>Depth mm</td>
<td>630</td>
<td>630</td>
</tr>
<tr>
<td>Crawler width mm</td>
<td>2 x 90</td>
<td>2 x 90</td>
</tr>
<tr>
<td>max. length of load mm</td>
<td>1900</td>
<td>1900</td>
</tr>
<tr>
<td>Shovel mm</td>
<td>580 x 180</td>
<td>580 x 180</td>
</tr>
<tr>
<td>Motor voltage V</td>
<td>24</td>
<td>24</td>
</tr>
<tr>
<td>Motor performance W</td>
<td>400</td>
<td>400</td>
</tr>
<tr>
<td>Speed with load upstairs / downstairs m/min.</td>
<td>4,3/5,2</td>
<td>3,3/4,0</td>
</tr>
<tr>
<td>Rechargeable dry battery</td>
<td>2 x 12 V/24 Ah</td>
<td></td>
</tr>
<tr>
<td>Operation time / Batt.-load (at ~+25°C) min.</td>
<td>60</td>
<td>60</td>
</tr>
<tr>
<td>Dead weight kg</td>
<td>125</td>
<td>150</td>
</tr>
<tr>
<td>(incl. battery) Artikel-Nr.</td>
<td>330.003</td>
<td>330.004</td>
</tr>
</tbody>
</table>

Accessories:
- Artikel-Nr.
- Truck loading ramp 316.050
- Charger 24 V / 3 A 333.251
- Batteries 2 x 12 V/24 Ah 330.015
Scamble Trolley for Climber-Coolie

- offers easy and safer handling of bulky and heavy loads
- enables easy handling and turning on narrow landings
- move the climber coole from the stairs directly onto the (scramble) trolly then move it to the next stair case and roll it from the trolly onto the stairs.

**Design:** steel construction, two pieces (trolley and cantilever), 10 steering wheels polyamide Ø 50 mm.

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>capacity</td>
<td>kg</td>
<td>720</td>
</tr>
<tr>
<td>width</td>
<td>mm</td>
<td>460</td>
</tr>
<tr>
<td>length</td>
<td>mm</td>
<td>510</td>
</tr>
<tr>
<td>length incl. cantilever</td>
<td>mm</td>
<td>1420</td>
</tr>
<tr>
<td>dead weight</td>
<td>kg</td>
<td>32</td>
</tr>
<tr>
<td>Artikel-Nr.</td>
<td></td>
<td>135.300</td>
</tr>
</tbody>
</table>
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