



Handling & Lifting Equipment





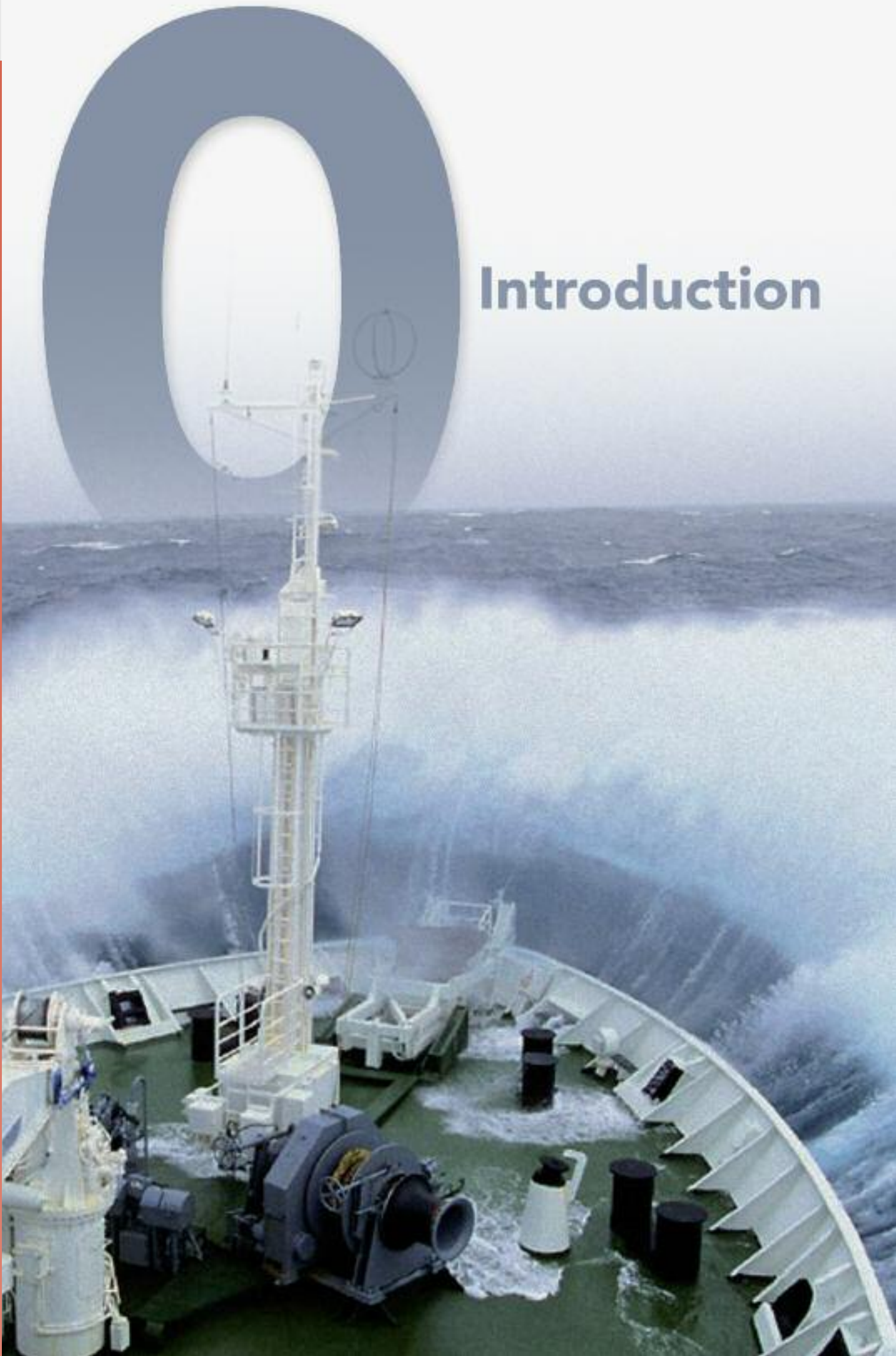
Madrid • Lisbon • Genova • Antwerp
Marseille • Gothenburg • Piraeus • Sankt Petesburg
Buenos Aires • Dubai • Shanghai • Pusan

"The World is our Business"



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Introduction





Welcome

to TEC CONTAINER S.A

We are a company based in Spain, specialized in design and production of equipment for Container Handling & Lashing, General Cargo, Wind Energy and Equipment for Personnel Security in Terminals and Ports.

- Since 1976, the year in which the company was founded, TEC CONTAINER has supplied products to more than 70 different ports in more than 40 countries all over the world.
- Since 1976, more than 350 new vessels have been originally supplied with the lashing equipment of TEC CONTAINER.
- Since 1976, more than 1500 Spreaders have been delivered to customers in more than 40 different countries, together with a variety of models of Safety Cages, Overheight Frames, Lifting Beams and tailor-made Container Handling Equipment.

For us innovation is nowadays a tradition.

Own Design and Own Production

After more than 30 Years of Experience...

Corporate Hits

1976

Foundation

1986

 NV Lash
TEC (BELGIUM)

1990

 TECNICAS Contentorizaçao
(PORTUGAL)

1992-1999

New Agents and Branches in

- South Korea
- Argentina
- Croatia
- United Arab Emirates
- Greece
- Finland
- France

1985

 TEC Container
(ITALY)

1989

 First Expansion:
New Workshop Facilities

1991

 TEC Container
FAR EAST (SINGAPORE)

Production

1976

 Foundation and Beginning of
TEC CONTAINER Technical Office in Madrid.

1985

 First Cellular guide and Fully Deck
Equipped vessel is delivered by TEC.

1989

 First Spreaders are designed,
produced and delivered.

1984

 First Own Produced
Lashing Equipment.

1986

 Ro-Ro Equipment is
introduced in TEC's Portfolio.

2000

 The Handling Equipment
Branch is created.


2006
Third Expansion: Capital Increase and New Partners in the Company.

2009
New Agents in Turkey

2012
New Agents in Panamá & Venezuela

2000
Second Expansion: New Workshop Facilities

2008
New Agents in the Russian Federation

2010
Fourth Expansion: Brand New Factory and new offices



2003
The First Safety Cages are sold to the Main Ports of Spain.

2009
First Contract for Wind Energy Solutions is Signed.

2005
TEC starts with the production of Roll Trailers and Goose-Necks for Ports.

2012
New web for container handling: www.containerspreaders.com



TEC CONTAINER SA has become a reference for Shipowners, Shipyards, Ports and Terminals. Our clients in more than 80 countries and within a great variety of industrial sectors have awarded us their recognition for our optimal combination of leading design, quality and experience.

TEC CONTAINER SA has managed to transform and to adapt itself through these 30 years from a locally- based company focused on the Shipping industry to a diversified group with interests in a vast range of industrial sectors. Quality, constant activity in research and development of new standards and our well known customer service has taken TEC CONTAINER to the privileged position where actually occupies.

In these 30 Years TEC CONTAINER SA has created a solid net of Agents and Branches all over the world. A great part of our success is due to their qualified work.

In 2010 TEC CONTAINER will inaugurate new production facilities to reinforce our strateic plan.



Always in the front line of **innovation**

Quality

TEC CONTAINER, S.A. pursues a continual improvement of the quality of our customer service, in order to achieve the maximum level of competitiveness in the branch, based on confidence and customers integration and loyalty. The Management of TEC CONTAINER, S.A. promotes the implementation and maintenance of the QUALITY CONTROL SYSTEM based on the standard norm UNE-EN ISO 9001:2008. The Management of TEC CONTAINER, S.A. establishes the basis of this QUALITY CONTROL POLICY as the principal pillars of our organization as follows:

- Guarantee of the customers' satisfaction and even the surpassing of customers' expectations, through a balance between improvement of quality and reduction of costs, making them participants in our QUALITY CONTROL SYSTEM .
- Continuous improvement of the services and the processes in TEC CONTAINER, S.A. through establishment and revision of objectives and goals.
- Active participation in the fulfillment of the objectives as a responsibility of all the personnel of TEC CONTAINER, S.A.
- The QUALITY CONTROL POLICY is annually revised and adapted to possible changes. The personnel of TEC CONTAINER, S.A. is informed about the adjustment of the QUALITY CONTROL SYSTEM continually, and the updated information is publicly available.



All **TEC** Container Lashing Products are certified by:



**Tec Container S.A.**

Madrid / Spain

Tecnicas de Contentorização LTD

Barreiro / Portugal

MARINE CONSULTANTS

France

TEC LEVAGE

France

WEST PACIFIC MARINE & INDUSTRIAL, INC

Panamá / Colombia

TRADERS, C.A.

Venezuela

MEO BRASIL

Itanhaém -SP- Brazil

Juan Carlos Isaia

Buenos Aires / Argentina

Tec Container SRL

Genova / Italy

IMEX Marine D.O.O.

Croatia / Serbia / Slovenia

Yeke Denizcilik AS

Tuzia Istanbul / Turkiye

Certex Sevenska AB

Gothenburg / Sweden

N.V. Lash Tech

Antwerp / Belgium

LLS Armada

Saint Petesburg / Russian Federation

AdamallysDeira-Dubai /
United Arab Emirates**Jewon Corporation**Gupyung-Gong, Saha-Ku
Busan / Korea**TEC CONTAINER S.A.**C/ Tajo 19 & 13 • Pol. Industrial "Las Acacias" • 28840 • Mejorada del Campo Madrid (Spain)
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TEC R+D

- Do you need some special solution for moving, lifting or securing your goods?
- Are you looking for a device to make easier your loading / unloading operations?
- Are you looking for a safer performance in your handling operations?

In brief, do you consider that there could be another way to handle, lift, store, load and unload your goods to reduce operational time, cycles, risk and finally... costs?

TEC CONTAINER R+D Department is ready to help you.

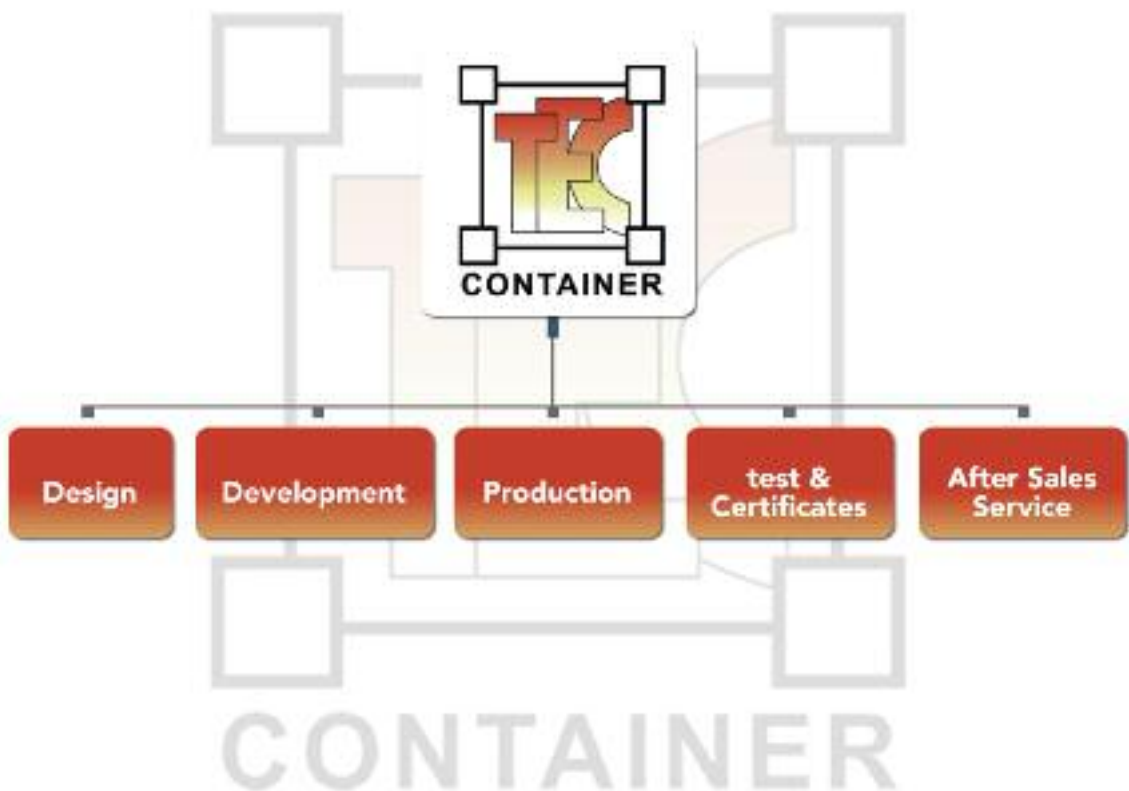
TEC CONTAINER designs and produces exactly what our customers require. We have invented tailor-made solutions for hundreds of customers. We boast an extensive catalogue of handling solutions.

We believe that service has to be linked with the special "added value". For us, **TEC CONTAINER** starts in our **R+D projects**. For more than 30 years now we have been in constant contact with our clients, assisting them and solving their necessities. Our goals: To increase our clients' **productivity** and **reliability** using cutting-edge technology.

All our products are supported by:

- TEC & CE Certificate
- Other Certificates
- Service Manuals and Instructions.
- Informative Plates
- Spare parts Guides.
- Maintenance Guides.

Please contact the **R+D Department** in tecnico@tecontainer.com



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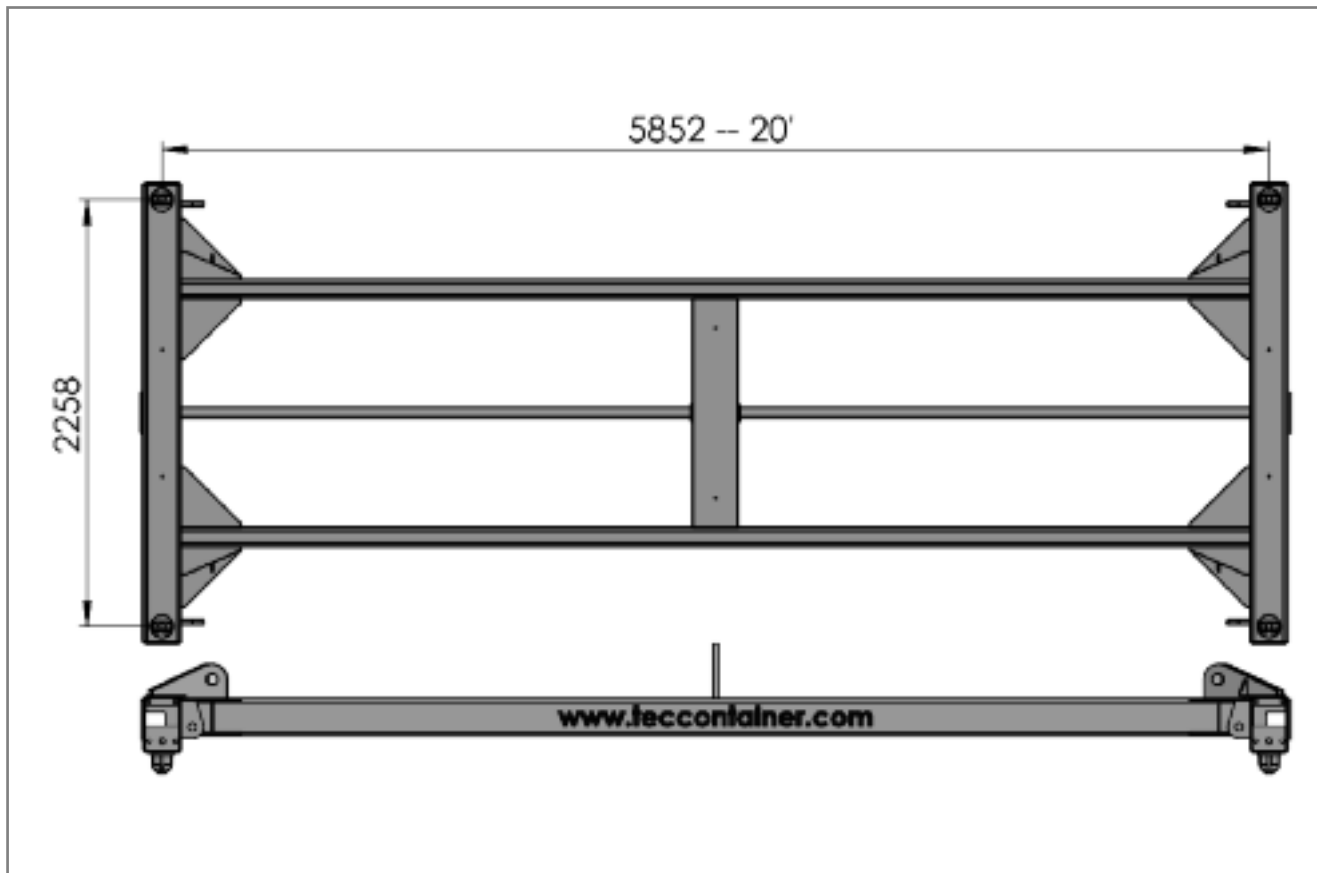


Handling Equipment for Containers

- 1.1. Standard Semiautomatic Spreaders
- 1.2. Non - Standard Semiautomatic Spreaders
- 1.3. Special Spreaders
- 1.4. Optional Equipment

1.1. Semiautomatic Spreaders

BA-008: Semiautomatic Spreader for 20' Containers



BA-008 has become a classic as a solution in the container handling for vessels and small Terminals.

More than 1.000 units sold all over the world.

Available from SWL = 20 Tn to 32 Tn.

GL Drawing approval.

Any Classification Society load test available.

CE Certificate.

Check Page 26 for optional equipment.

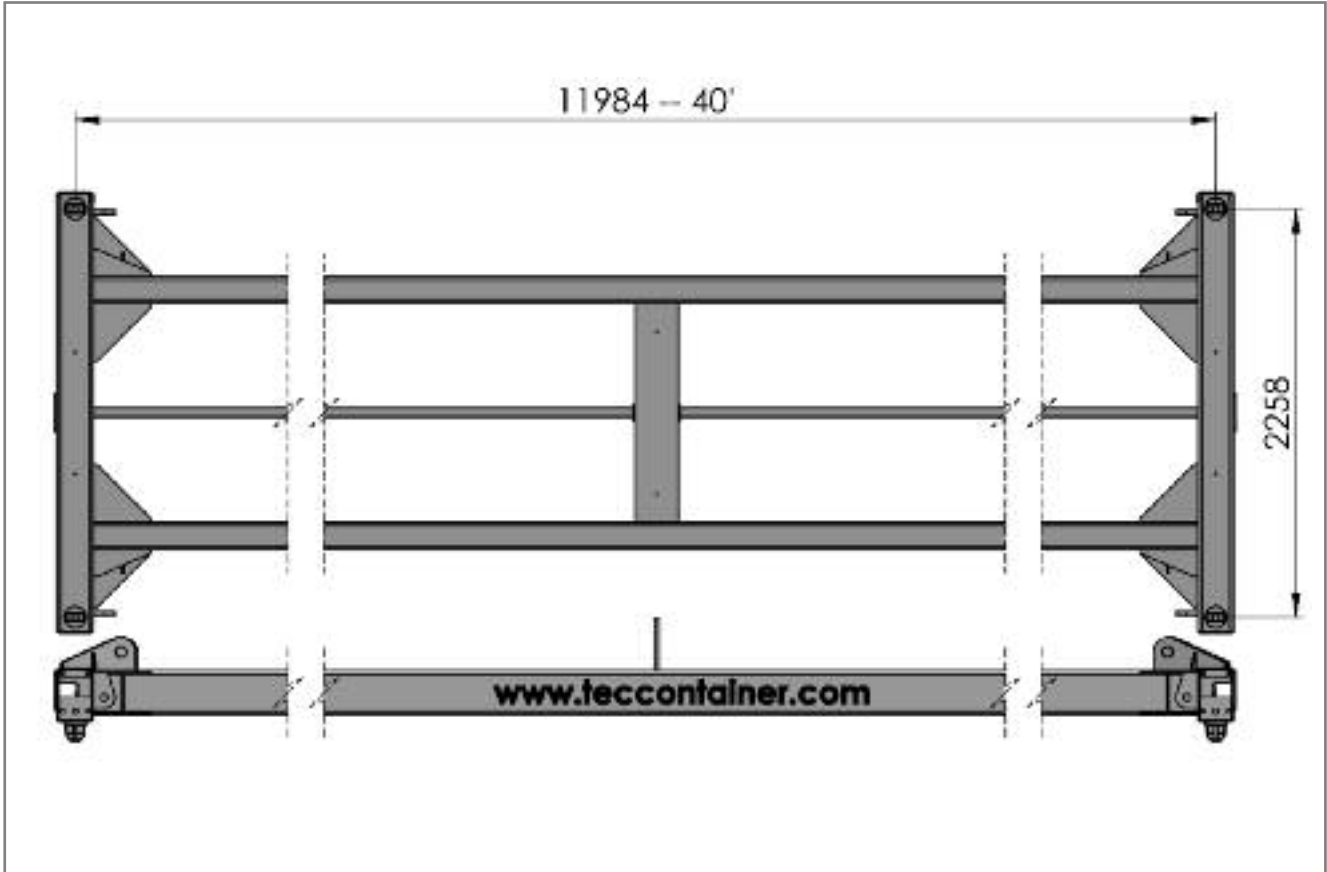




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BA-009: Semiautomatic Spreader for 40' Containers



BA-009 has become a classic as a solution in the container handling for vessels and small Terminals.

More than 1.000 units sold all over the world.

Available from SWL = 20 Tn to 42 Tn.

GL Drawing approval.

Any Classification Society load test available.

CE Certificate.

Check Page 26 for optional equipment.

1.1. Semiautomatic Spreaders

Semiautomatic Spreaders: Use & Maintenance Instructions

1



Position 1: OPERATION START

- Wires are Loose.
- Twistlocks are in longitudinal position: OPEN.
- Triangle is in OPEN position.



The Spreader is ready to be moved to the desired place.



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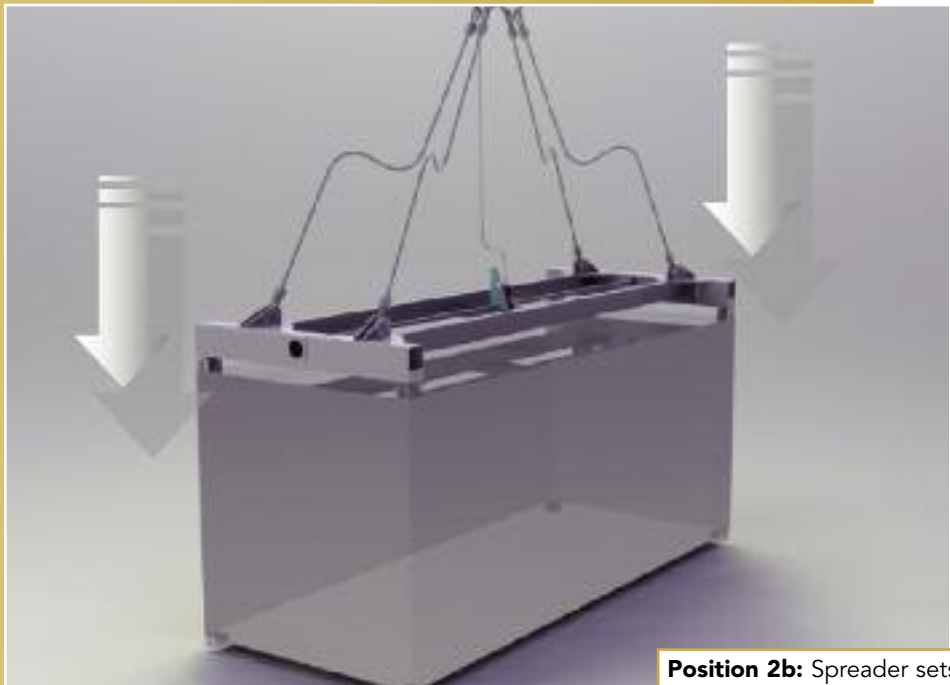
Semiautomatic Spreaders: Use & Maintenance Instructions

2a



Position 2a: Crane starts elevation

2b



Position 2b: Spreader sets down on the container.

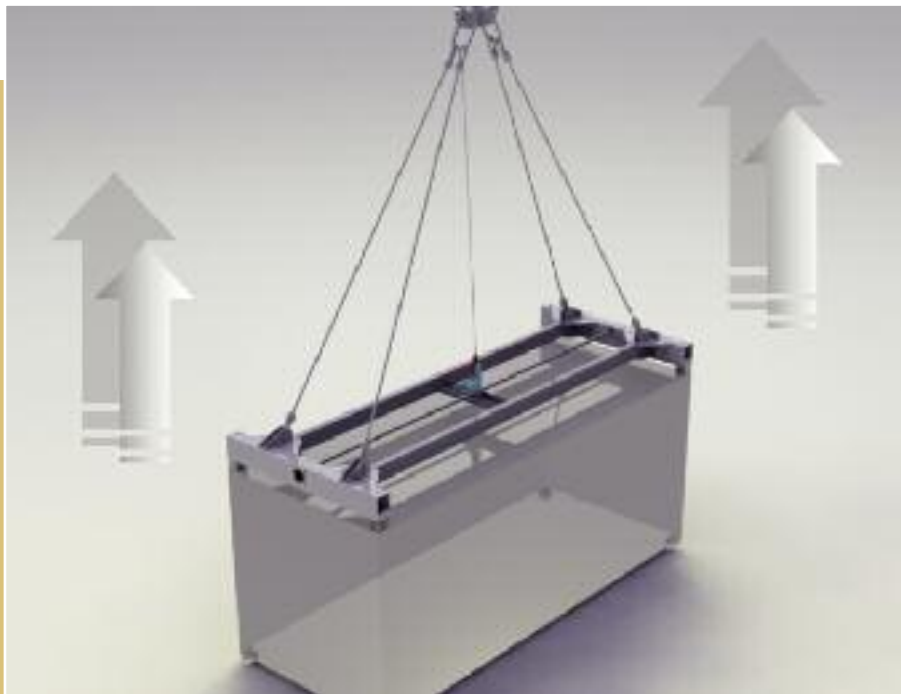
Position 2b: BEFORE LIFTING

- Wires are loose.
- Twistlocks are in longitudinal position: OPEN.
- Triangle is in open position.

1.1. Semiautomatic Spreaders

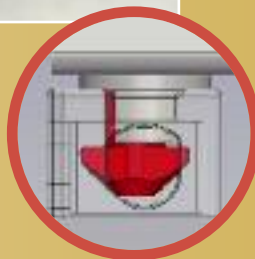
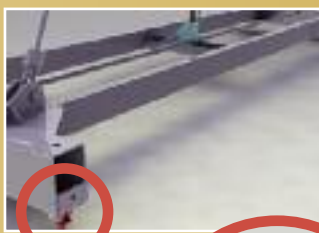
Semiautomatic Spreaders: Use & Maintenance Instructions

3



Position 3: CRANE STARTS ELEVATION SPREADER CLOSES THE CONES

- Wires are tight.
- Twistlocks rotate to TRANSVERSAL position: LOCKED.
- Triangle is in CLOSED position.



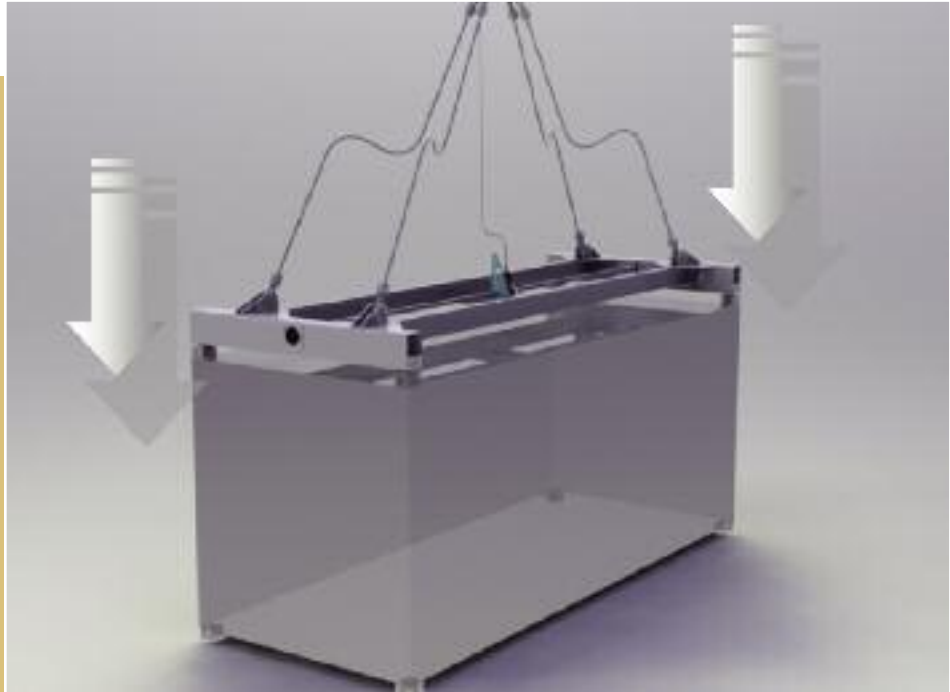
The Container is secured and ready to be handled to the desired place.



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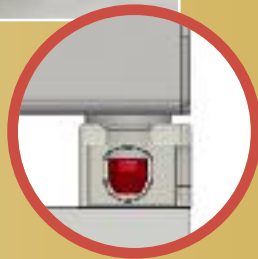
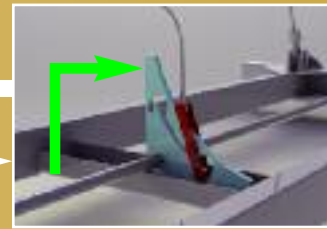
Semiautomatic Spreaders: Use & Maintenance Instructions

4



**Position 4:
CRANE FINISH ELEVATION
SPREADER OPENS THE
CONES TO RELEASE THE
CONTAINER**

- Wires are loose.
- Twistlocks rotate back to the initial position: OPEN.
- Triangle is back to the OPEN Position.

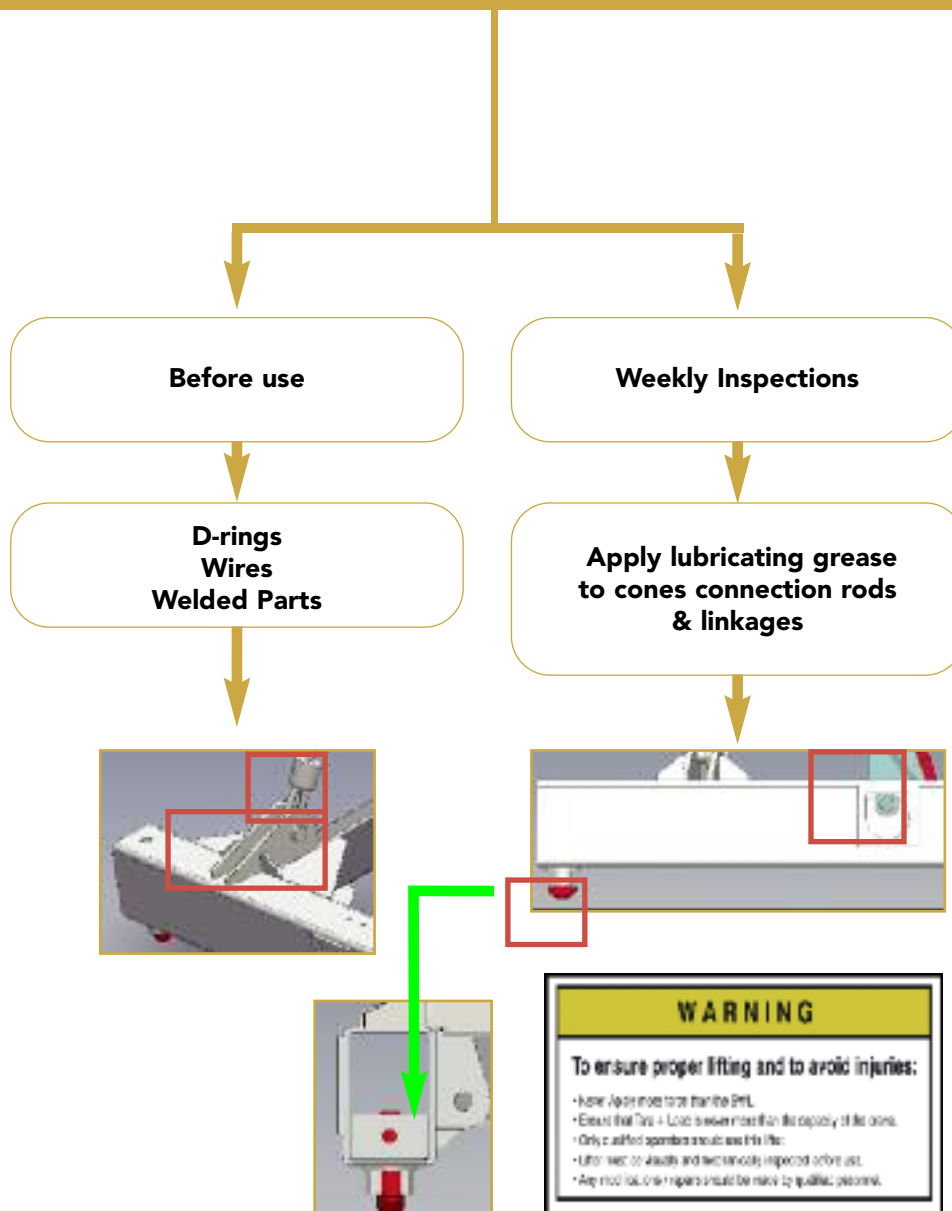


The Container has been safely left in the desired location.

1.1. Semiautomatic Spreaders

Semiautomatic Spreaders: Use & Maintenance Instructions

TEC Container light Spreaders require a very low maintenance





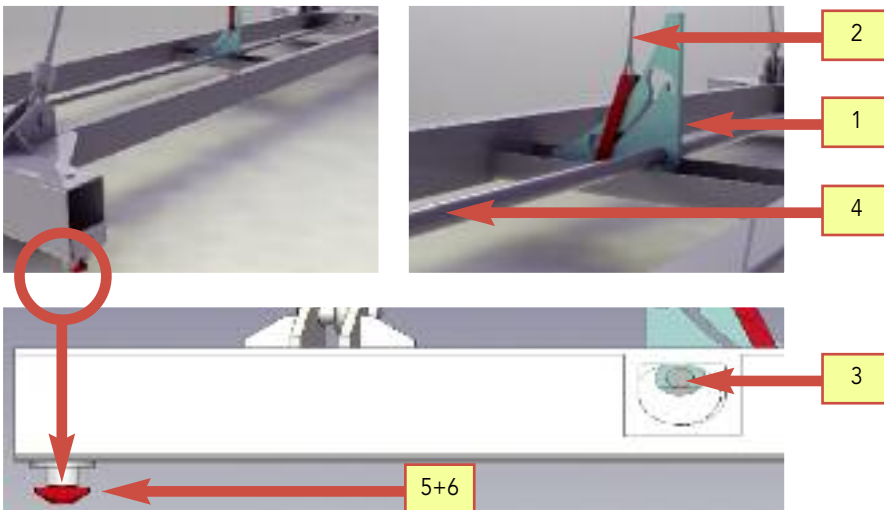
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BA-008: Semiautomatic Spreader for 20' Containers



1 MAIN TRIANGLE	CARTELA DE MANDO	BA-009-6-1 / BA-008-6-1
2 SLIDING + NYLON ROPE	CORREDERA + CUERDA	N/A
3 STEERING SWIVEL ARM	BIELA	BA-018-4-1
4 MAIN ROD 45x4.5	TUBO CENTRAL 45x4.5	N/A
5 SECURITY PIN SET	CONJUNTO PIN DE SEGURIDAD	BA-008-200
6 TWISTLOCK	CONO	BA-018-3-4
7 WIRES SET	CONJUNTO DE CABLES	BA-008CB // BA-009CB



PREVENTIVE MAINTENANCE REQUIRED:

Slings:

- Revise the lead bush.
- Revise the thimbles.
- Check for cuts in the external slings.
- Check for deformation of the upper rings.
- Check for deformation of the pins and the housings of the pins.
- Revise the state of the pin bolts.

Structure:

- Revise the welds.
- Check for possible points of corrosion.
- Check for deformations or strikes.

Mechanism:

- Clean the housing of the Twistlocks regularly.
- Lubricate the Twistlocks.
- Tighten the bolts from the nut to the Twistlocks.
- Check the state of the connecting rods.
- Tighten the bolts of the main actuator tube to the mechanisms of the heads.
- Check the state of nylon rope.
- Tighten the slide of the triangle.
- Lubricate the triangle in the sliding area.
- Tighten the bolts connecting the triangle to the main actuator tube.
- Make sure there are no external objects in the heads.
- Lubricate the areas in which the main actuator tube connects with the cross beams of the structure.

1.2. Other Semiautomatic Spreaders

Index of Special Spreaders

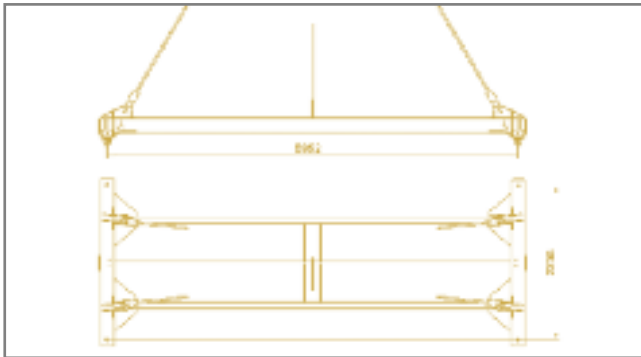
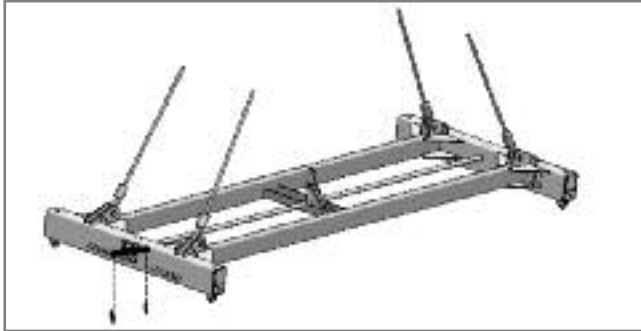


Manually Operated	Hybrid	Electric / Hydraulic	Special Designs
For Hook Crane	Manual + Semiauto Spreaders	Automatic Operation	For Rough Conditions
For Forklift			With Rotatory movements
For Bridge Crane			With Gravity point regulation
			Twin Spreaders



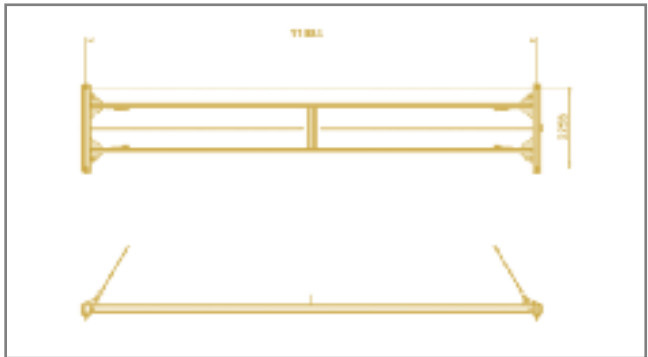
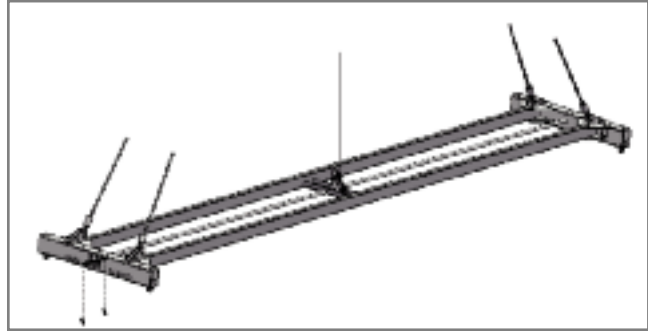
"The world is our business"

BA-008MS: Manual + Semiautomatic Spreader (20')



SWL available up to 32 Tons.
*Check Page 26
for additional accesories*

BA-009MS: Manual + Semiautomatic Spreader (40')

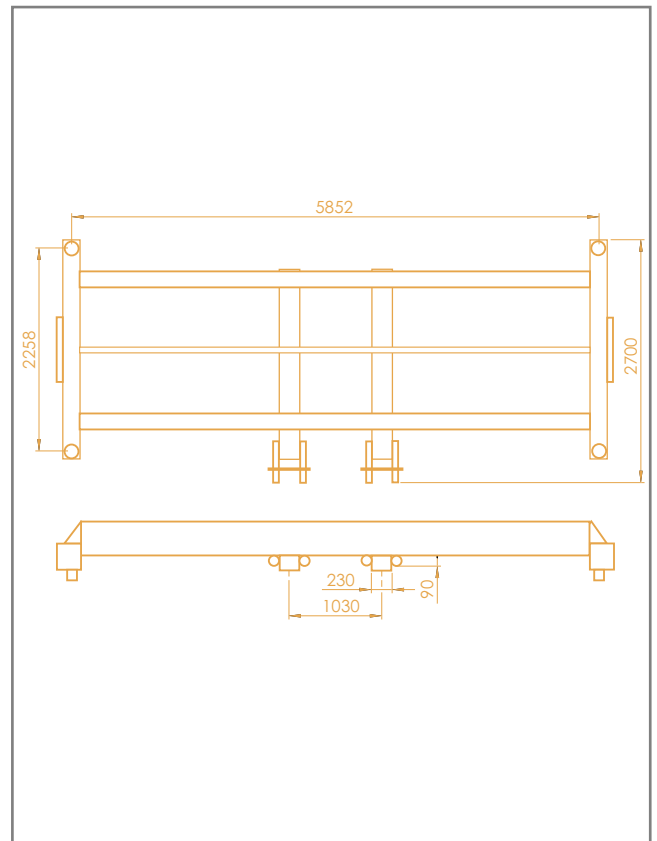
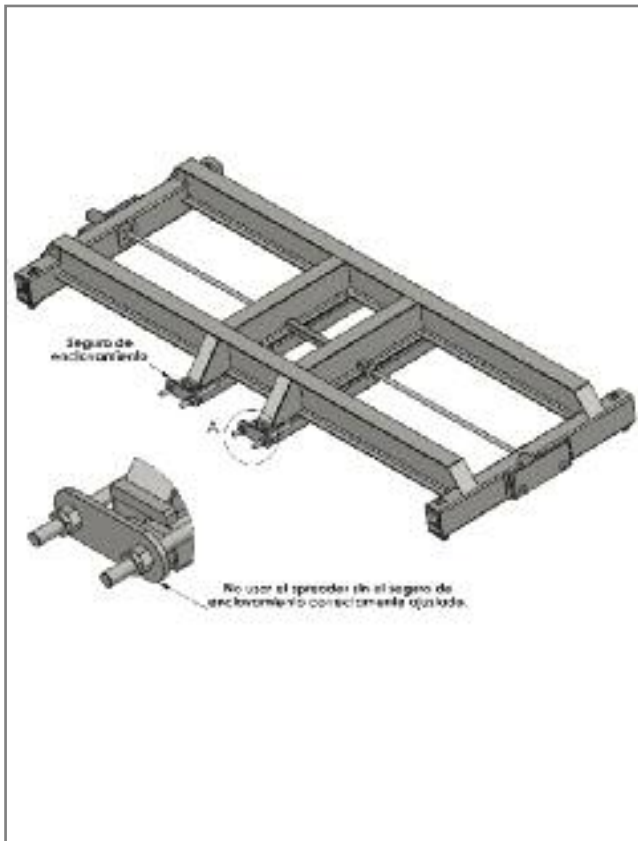


SWL available up to 40 Tons.
*Check Page 26
for additional accesories*



1.3. Special Spreaders

BA-012G: Manual Spreader for Forklift



Length Available
for 20' & 40'.

SWL available
from 15 to 28 Tons.

Forklift pockets
to allow handling.

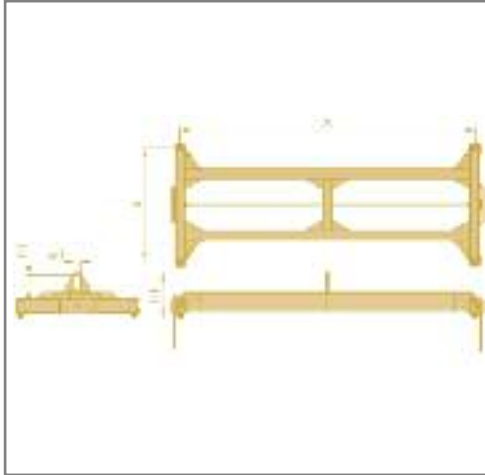
Multiple configurations accord-
ing to the
customer requirements.



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BA-012F1: Spreader for Bridge Crane: 1 link

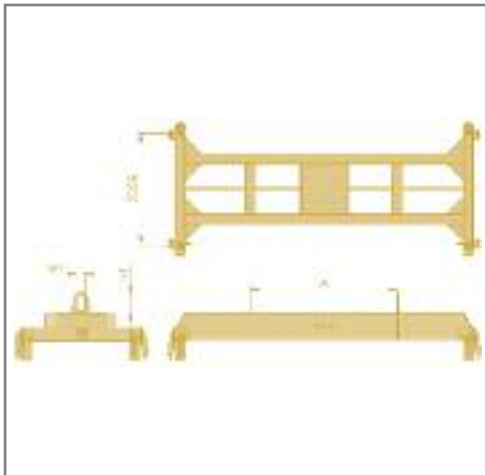


Length Available
for 20' & 40'.

SWL available
from 15 to 40 Tons.

Multiple configurations
according to the
customer requirements.

BA-012F2: Spreader for Bridge Crane: 2 link

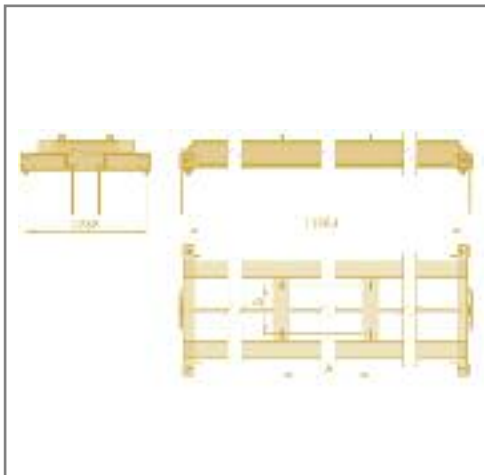
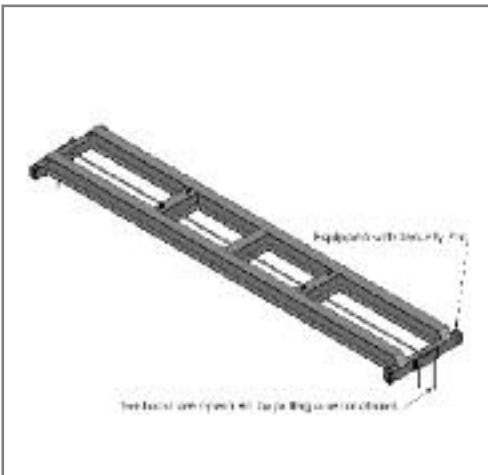


Length Available
for 20' & 40'.

SWL available
from 15 to 40 Tons.

Multiple configurations
according to the
customer requirements.

BA-012F4: Spreader for Bridge Crane: 4 link



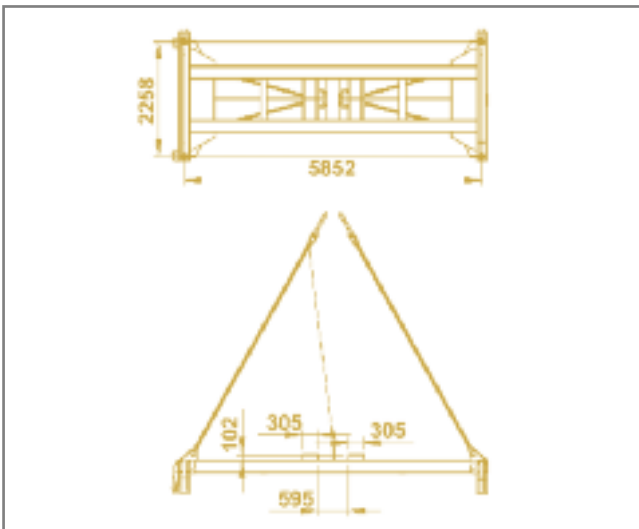
Length Available
for 20' & 40'.

SWL available
from 15 to 40 Tons.

Multiple configurations
according to the
customer requirements.

1.3. Special Spreaders

BA-008N: Spreaders for Rough Conditions



SWL available up to 32 Tons.

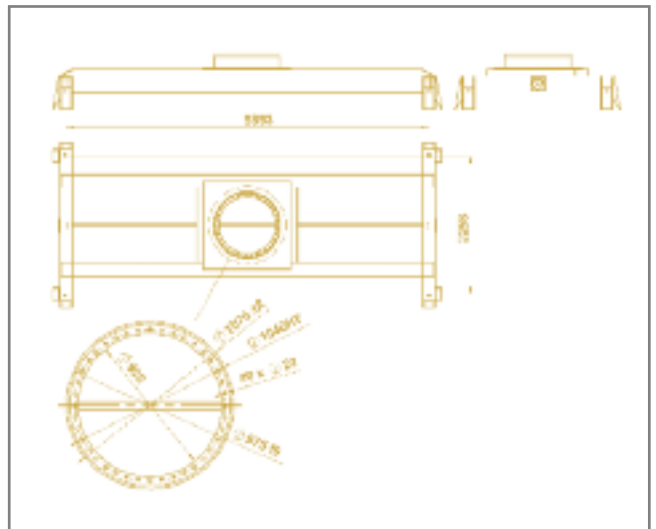
Length Available for 20' & 40'
Fixed Guides.

Special transversal beams.
Wider reinforcements in all the structure.

Please contact the TEC CONTAINER technical department for multiple configurations and options.

*Check Page 26
for additional accesories*

BA-227: Rotatory Spreaders



SWL available up to 32 Tons.

Length Available for 20' & 40'
Fixed Guides.

Electrically operated from the ground staff.
Emergency Button and Remote Control.
Light Signals.

Please contact the TEC CONTAINER technical department for multiple configurations and options and more detailed information.

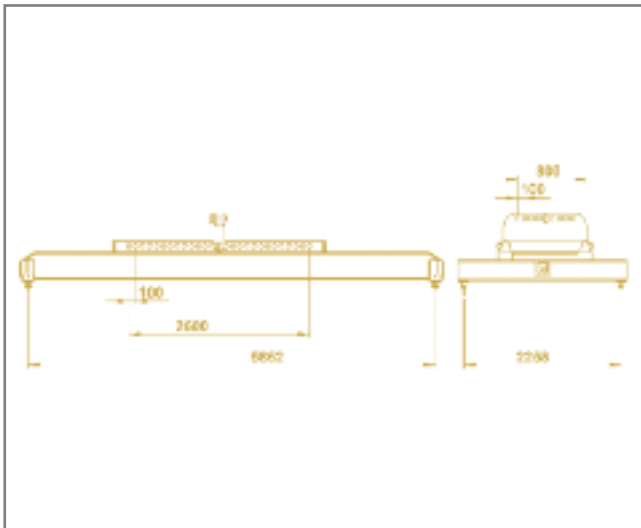
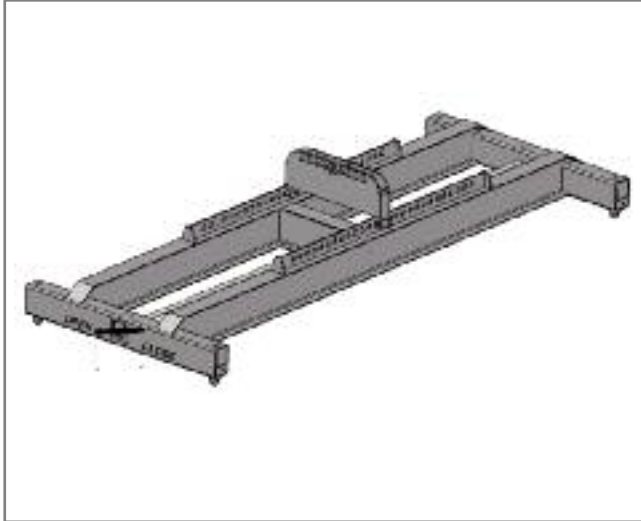
*Check Page 26
for additional accesories*



SPECIAL DESIGNED SPREADERS

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BA-012R: Gravity Point Regulation Spreader



SWL available up to 32 Tons.

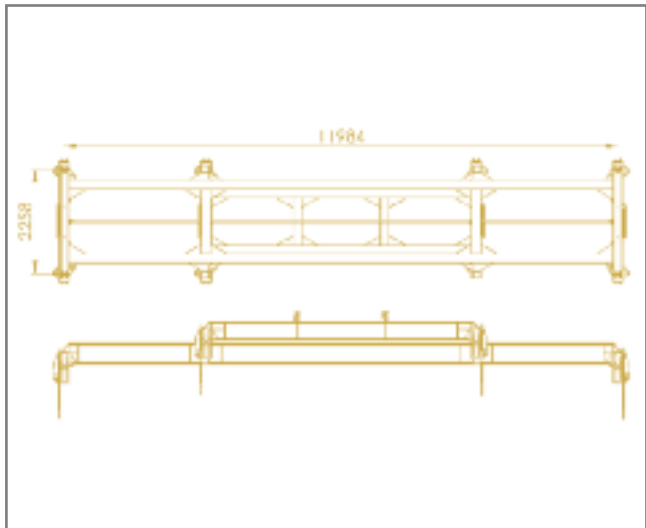
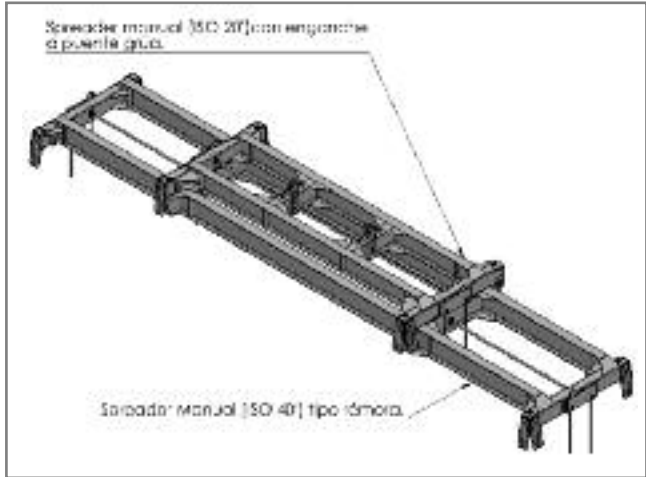
Length Available for 20' & 40'.

It manually permits the regulation of the Gravity point to allow unbalanced loads.

Please contact the TEC CONTAINER technical department for multiple configurations and options.

Check Page 26 for additional accesories

BA-165: Semiautomatic Spreader for Bridge Crane



SWL available up to 32 Tons.

Length Available for 20' & 40'

Fixed Guides.

Electrically operated from the ground staff.

Emergency Button and Remote Control.

Lighyt Signals.

Please contact the TEC CONTAINER technical department for multiple configurations and options and more detailed information.

Check Page 26 for additional accesories

1.4. Optional Equipment

1 20°C DEGREES BELOW ZERO CONFIGURATION:
If the Spreader is going to be used in weather conditions -20°C it is necessary to make a special production process:

- Material used is S355J2+N
- Special reinforcement in critical points of the structure.
- Transversal beams made of stronger tubes.



2 SECURITY PINS:
This system increases the security of the Spreaders. One pin besides each twistlock which blocks the open/locking movement Of those twistlocks if the spreader is not fully connected with the container to be handled.
If any Twistlock is not well fitted in the ISO Corner of the Container the spreader remains blocked, making it imposible to lock the twistlocks to avoid failures.



3 GUIDES/FLIPPERS:
Very useful to facilitate aproach maneuvers of the crane driver to the container.
A full range of flippers with several characteristics are available upon request.



4 FORKLIFT POCKETS:
The best way to move and store the spreader when it is not in use.
Unless indicated otherwise, all TEC CONTAINER Forklift Pockets are valid only when the spreader is not loaded.Pockets are valid only for transport purposes.



5 LOAD TEST:
All our spreaders are delivered with a CE certificate.If a third party inspection is requested TEC could provide a Bureau Veritas "LOAD Test Certificate"





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6 DEMOUNTABLE FOR EASY TRANSPORT:

All TEC CONTAINER Spreaders can be produced demountable in order to order to reduce transport cost as the spreader can be shipped in a standard ISO Container.

Clear instructions about mounting at site and tools are delivered together with the spreader.

NEW



7 LONG TERM GALVANIZED PROTECTION:

Spreaders from TEC CONTAINER can be delivered with extra protection against corrosion by a hot dip galvanized coating, This extra protection guarantees an extra long life for your spreaders.

8 EXTENSION CHAINS:

This is an extra chance to handle open-top containers or damaged containers with serious deformations. Different lengths available upon customers requirements.



9 EXTRA VISIBLE SIGNS FOR CRANE DRIVERS:

Upon customers requests our spreaders can be provided with highly visible panels to inform the driver about the position of the cones. OPEN/LOCKED signs in any language upon customer request in extra luminiscent ink are provided.

10

**ALL OUR SPREADER CAN BE PAINTED WITH
YOUR CORPORATIVE COLORS & LOGO
FOR FREE**



2





Overheight Spreaders

2.1. Overheight Frame

2.2. Semiautomatic & Manual Overheight Frame

2.1. Overheight Frame

BA-030E: Fully Automatic Overheight Frame

Available in 20' and 40' and Telescopic versions.

Triple safety system:

- Pins which detect the contact with the container.
- Sensors which detect the positions of the cones.
- Light signal clearly visible for the crane operator.

Totally electromechanical system:

- Fully operational inside cellular guides.
- Opening and Locking directly activated from the control cabin.
- Fully programmable PLC for the safety system control.
- Switch on / off automatically.
- Low battery Indicator.
- Very easy maintenance.
- Energy supplied by gel battery: long life duration and cutting-edge technology.
- Battery charger incorporated.
- Guaranteed for use in sea environment.

**All versions can be demountable for easier transportation.
CE Certificate incorporated.**





"The world is our business"



BA-030E: Fully Automatic Overheight Frame



Overheight Spreaders

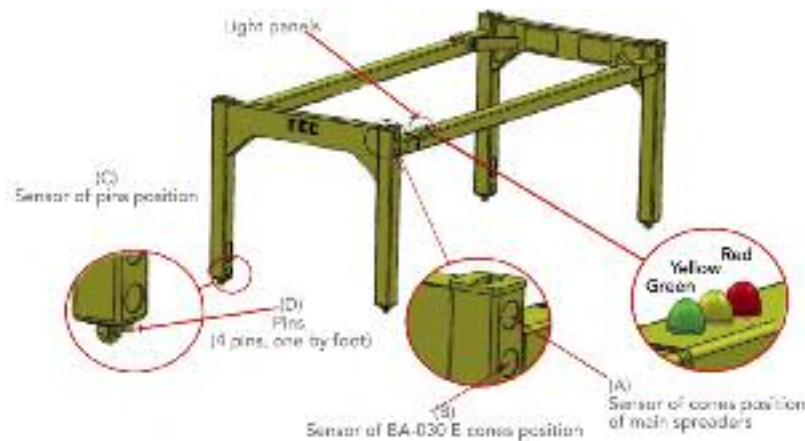
Size	Fixed 20'	Fixed 40'
Length (Cones Center)	6.050 mm	12.190 mm
Width	2.430mm	
Weight	2.200 Kg.	3.000 Kg.
Free Overheight	Upon Customer requirements	
SWL	Upon Customer requirements	

- Solar battery charger.
- Extra set of security twistlocks.
- Extra set of safety lights.
- Annual safety check.
- Assembly at destination.
- Certified by any classification society.
- Complete structure in S355J2+N.
- Safety cones in 42CrMo4.
- All sensors with protection class 1P67.
- Electrical actuator stainless IP67.
- Painting Specification suitable for Sea environment.

2.1. Overheight Frame

BA-030E: Fully Automatic Overheight Frame

- When the main spreader is on the BA-030E and introduces the twistlocks in the 4 corners and closes them the Sensor A detects it and a red light of the panel comes on.
- When the 4 pins D situated in the lower part of the BA-030E enter completely in the upper container corners a yellow light comes on which indicates "Container Contact". If one or more of the pins has not entered correctly, the cones will not close and the yellow light will not appear.
- Then, the cones close automatically, sensor B detects it and the light of the panel changes from yellow to green.
- When pins are in "D" position the cones of the BA-030E can be opened as many times as needed. The only thing that has to be done is open / close the cones of the main spreader. Sensor A detect its and order the open / close the BA-030E safety twistlocks.



- Light is RED for OPEN CONES and GREEN for CLOSED CONES, remaining the yellow one (indicating "Container Contact") lit up during the whole process.
- After green light appears the container can be elevated in the air and moved to the designated place. When BA-030E rises at about 10 mm the sensor C of the pin D detects it and orders "Twistlocks Blocked".
- When the container is stacked over another one or on a vehicle, the pins D enter again totally. Then the situation "Container Contact" is again activated and the cones are released. The main spreader cones open, the sensors detect it and open the BA-030E cones, RED light comes on. Now, BA-030E can be elevated.
- The BA-030E can be separated from the parent spreader by just opening the spreader cones. If after 30 mi the BA-030E is not picked up, it disconnects itself.

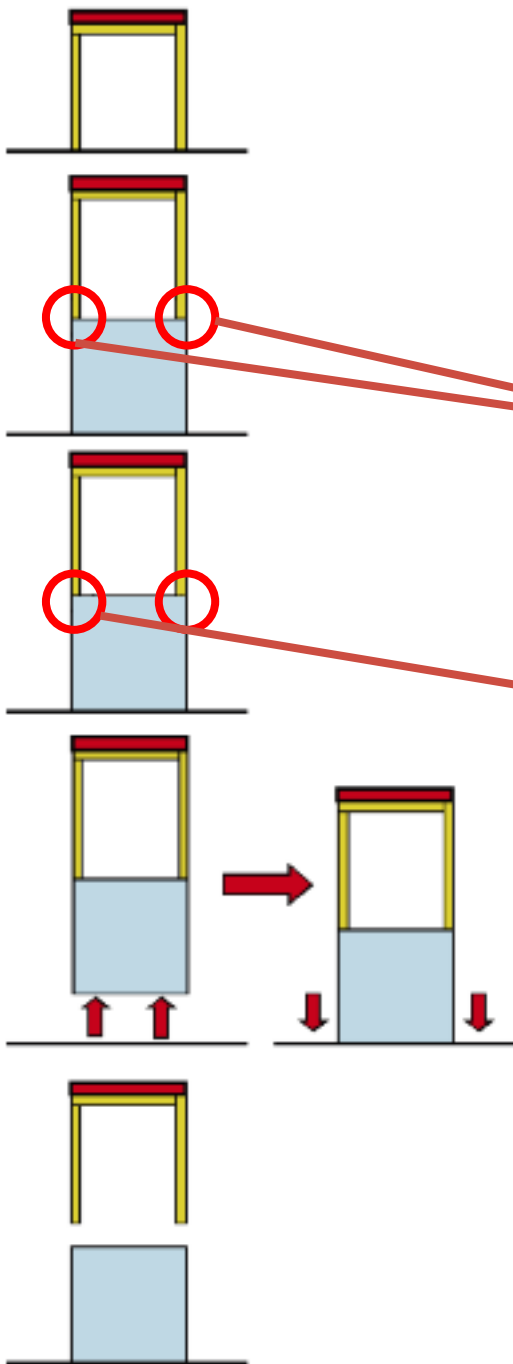


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BA-030E: Fully Automatic Overheight Frame

SPREADER OVERHEIGHT FRAME (REF TEC BA- 030E) STANDARD WORKING CYCLE



1 STARTING OF THE OPERATION

The system starts operating when the main spreader closes the twistlocks in the upper corners of BA-030E. In this moment the main spreader can be transported to the containers which will be manipulated.

2 STARTING OF THE LOADING:

2.1. The BA-030E detects the contact with the container and starts the mode: "Total Contad with Container / Twistlocks open".

Twistlocks remain open till receiving a command from the main spreader.

2.2. The main spreaders sends command to close the twistlocks and BA030E starts mode: "Total contact with container / Twistlocks closed"

Twistlocks remain dosed.

From this moment on the main spreader can be lifted and BA - 030E passes to mode: "Container Loading"

3 LIFTING AND END OF LOADING:

The main spreader is positioned. The BA-030E detects it and passes to mode: "Total contact with container / Twistlocks closed", in stand-by awaiting further instructions

4 END OF OPERATING

The main spreader sends a command to open the twistlocks. BA-030E starts mode: "Total Contact with Container / Twistlocks open". In this moment the BA-030E is disconnected from the container and can be transported to a new position by the spreader.

2.1. Overheight Frame

BA-030ET: TELESCOPIC Fully Automatic Overheight Frame

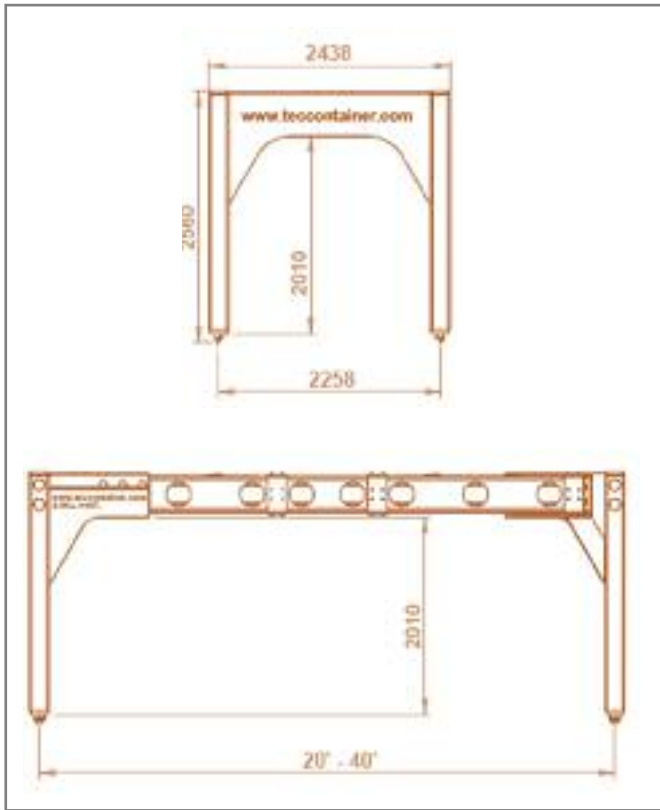




"The world is our business"



BA-030ET: TELESCOPIC Fully Automatic Overheight Frame



Overheight Spreaders

The main features of the Overheight Spreader (**BA-030ET**) It is a universal model which works with all the existing spreaders, both crane and reachstacker.

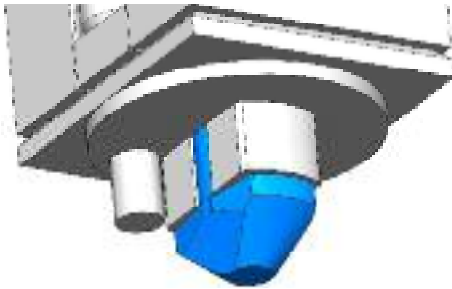
- The master spreader need not be modified because the **BA-030ET** fits to all the models.
 - The OPEN and CLOSE orders are transmitted directly by the operator of the crane / reachstacker through their control devices.
 - Triple safety system:
 - Pins which detect the contact with the container.
 - Sensors which detect the positions of the Twistlocks.
 - Light signal clearly visible for the crane operator.
 - Fully Apt for cellular guides.
 - System fully programmable and adaptable to customer needs.
 - Automatic switch on / off system.
 - Low battery indicator.
 - Version with solar panel batteries and alternatively, a standard battery charger version with standard settings to be used in areas with few hours of daylight.
 - Free overheight space upon request.
- For further information please contact us in the email teccontainer@teccontainer.com

2.2. Semiautomatic & Manual Overheight Frame

BA-030H: Semiautomatic Overheight Frame

The BA-030H is an overheight frames for lifting ISO CONTAINERS and flat-racks with oversize loads.

It can be picked up by any main spreader capable of picking ISO containers of all types of equipment i.e. Ship to Shore Cranes, Gantry Cranes, Rubber Tyred Gantry Cranes, Reachstackers, etc without any need of modification of it or extra attachments.



Security System

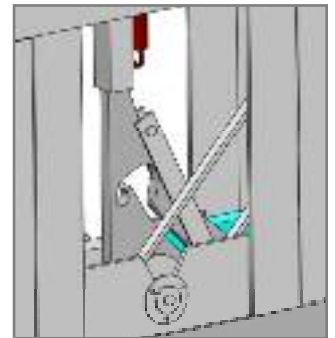
There are four safety pins, installed in all four legs of the spreader, which:

- 1.- Prevent accidental unlocking of cones while under load.
- 2.- Avoid locking/unlocking operation as long as twistlocks are not correctly seated in the corner castings of the container.

Semiautomatic Mechanism

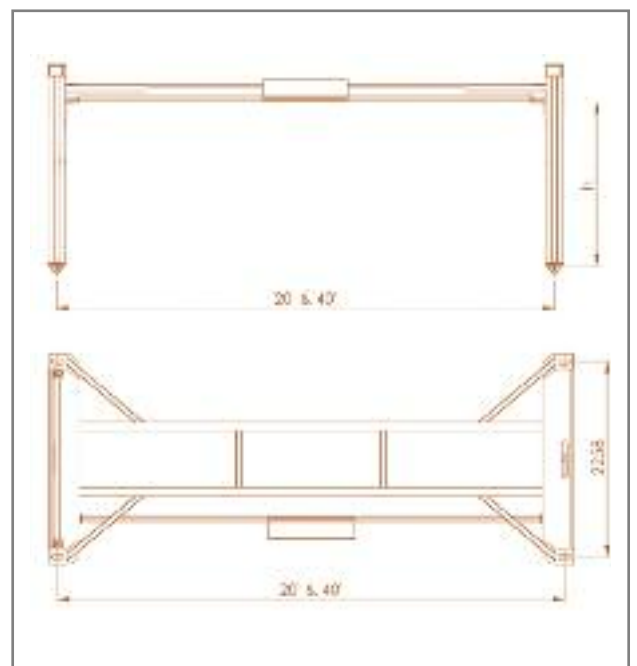
The BA-030H is a spreader which locks/unlocks its twistlocks itself thanks to up & down movements of the crane with no need of manual operation of stevedores.

Therefore, there is no internal electrical power or external hydraulic power installed in.



Technical Data

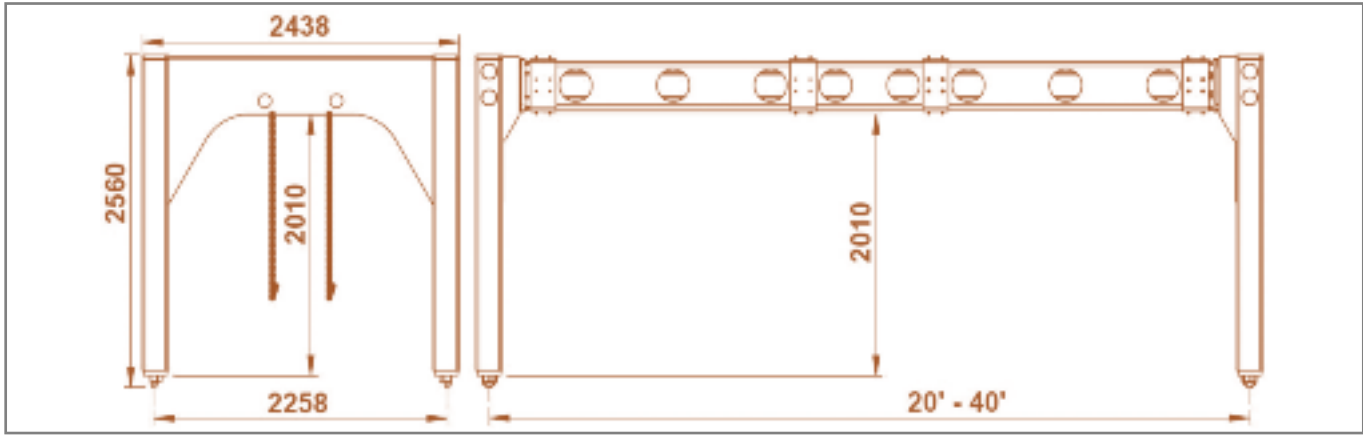
- Structure made of structural steel S-355 J2+N.
- Twistlocks are made of high strength steel F-1252.
- SWL = 60T
- "h" = free height. Upon customer's requirements.
- Net weight:
 - 20' Spreader = 2200 Kg
 - 40' Spreader = 3000 Kg
- Painting suitable for sea environment.





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BA-030M: Manual Overheight Frame



FULLY MANUAL OPERATED SYSTEM:

- Double lock / unlock independent per side.
- Security devices in every leg.
- Mechanical signals swl under customer requirement.
- Free height under customer requirement.
- Can be delivered demountable for an easier transport.
- Telescopic or fixed versions available.



Overheight Spreaders

3





Safety Cage

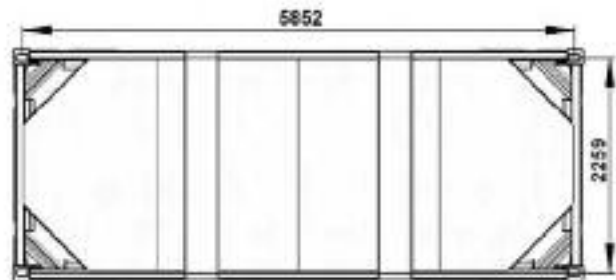
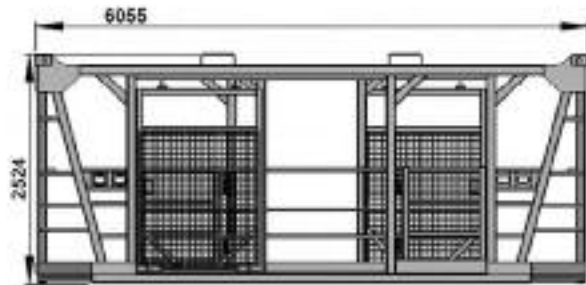
3.1. Safety Cages for Spreaders

3.2. Safety Cages for Hook Cranes



3.1. Safety Cages for Spreaders

BA-185L: STEVEDORING SAFETY CAGE



(Common to all TEC Safety Cages)

- Identical Dimensions to a 20' I.S.O. container to allow Storage & Transport.
- Tare 3.500 Kg.
- Maximum Working Load = 6.000 Kg.
 - 4 persons / complete working equipment (1.000 Kg).
 - 2 Containers for Lashing Material (2.500 kg / each).
- Maximum Weight (Tare Included) 9.500 Kg.



(Common to all TEC Safety Cages)

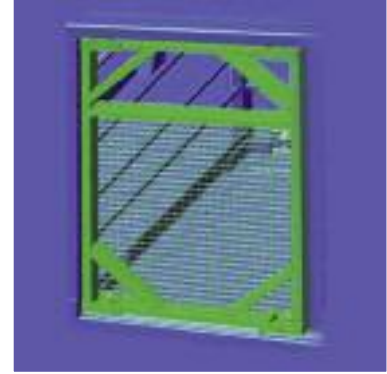
- Double Safety System:
 - Automatic: Through the Twistlocks of the spreader.
 - Manual: Using a safety Quick Hook & Chain from the interior of the cage.
- Safety Railing in the Complete Perimeter and internal handhold at 150 mm from outside the Safety cage.
- Completely covered Ceiling except in the corners, which remain opened to enable fitting of manual couplings of cage to the Spreader.



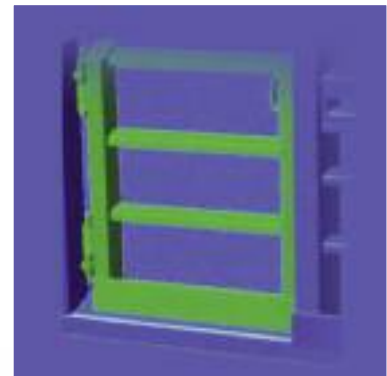
"The world is our business"



BA-185L: STEVEDORING SAFETY CAGE



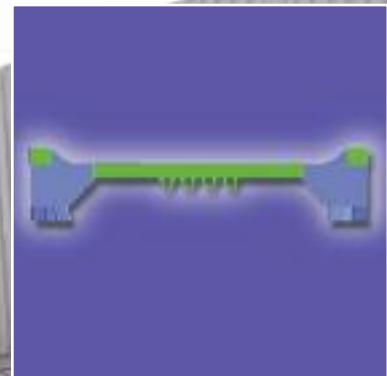
The Sliding doors have height enough to prevent falling down of Twistlocks during the stowing process.



Doors for the stevedors have an automatic system to maintain them closed while hanging from the crane.

(Common to all TEC Safety Cages)

- 150 mm high Toe Recess along the whole perimeter.
- Non-sliding floor with dram spots.
- 2 doors, one on each side, with opening towards the interior, spring closesystem and automatic locks.
- 4 ISO holes for Personnel Hamesses near Safety Cage Doors.
- Neoprene-lined hooks to place 4 actuator poles for Twistlocks.
- Top-embedded locker to maintain the Security Hamesses while not in use.
- Safety instructions in most common Languages.



Fall-Prevention Equipments can be fitted to 8 Lashing Eyes placed behind the working positions below the ceiling of the cage.



Safety Cages

3.1. Safety Cages for Spreaders



BA-185L: For Intense Stevedoring Purposes:

- 2 storage containers for Twistlocks that can be loaded and unloaded by a Fork-lift.
- 4 Doors, 2 in each side of the Safety Cage. 2 for workers and 2 in order to load and unload the containers with a standard forklift.



BA-185B: The Best for Internal Transport:

- Complete open Space inside the Safety Cage.
- 2 Doors for stevedores.
- Fully Rubber Floor for extra safety.



BA-185A: Combined Solution for Difficult Access Areas:

- 4 Doors for stevedores. 2 in the long side and 2 in the short side of the cage.
- Fully Rubber Floor for extra safety.



BA-185(40ft): The Best solution to Reduce Time:

- 4 Doors in the long Side of the Cage.
- 2 Containers to keep Twistlocks during Stevedores duties.



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BA-185L: STEVEDORING SAFETY CAGE

SAFETY CAGE BA-185L INSTRUCTIONS FOR USE

**While operating the safety cage,
the following actions MUST be ALWAYS performed:**

Radio operator is in contact with crane operator and makes sure this contact is maintained while the spreader is connected to the cage.

Connecting spreader to cage:

- A) Close the Twistlocks of the spreader.
- B) Secure 4 fitting points with safety chains and hooks from inside the cage.

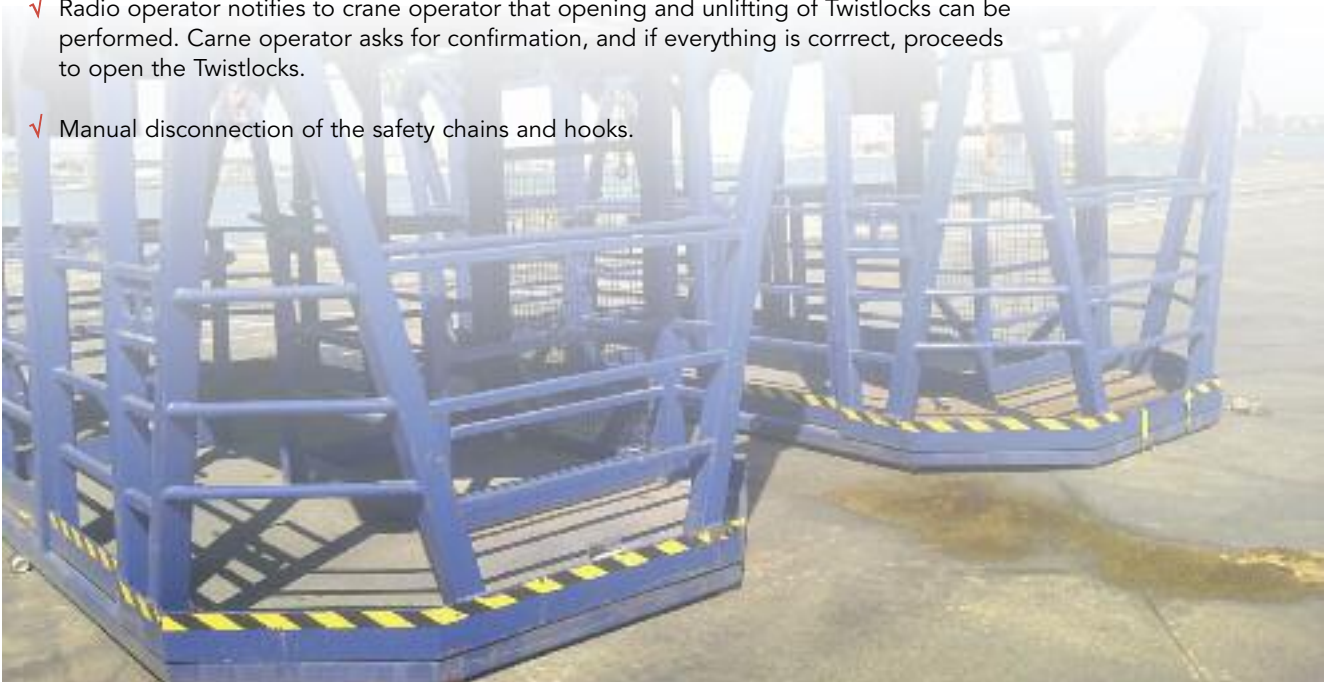
Radio operator duties:

- ✓ Checks if all the material loaded is duly fitted and lashed into the corresponding containers and fitting points.
- ✓ Assures that the total maximum work load (5.000 Kg + 4 persons with their complete working equipment) is not exceed. The total weight of the cage, including the self weight, must not exceed 9.500 Kg.
- ✓ Checks that the maximum load by container in its respective cell does not exceed 2.500 Kg and that they are duly secured.
- ✓ Checks that the working tools are duly secured.
- ✓ Checks that all doors are closed and recured.
- ✓ Checks that operators wear fall-prevention and personal protection equipment.
- ✓ Advises to the crane operator that lifting can be started. Crane operator asks for confirmation. If everything is correct, radio operator gives permission for lifting to be started.

Once the final position is reached, the crane operator announces the end of the movement asks for confirmation and when receivec, gives permission to start work. Same process is repeated at the return of the personnel cage.

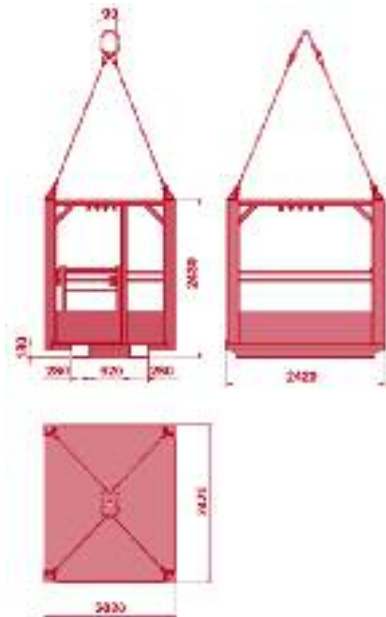
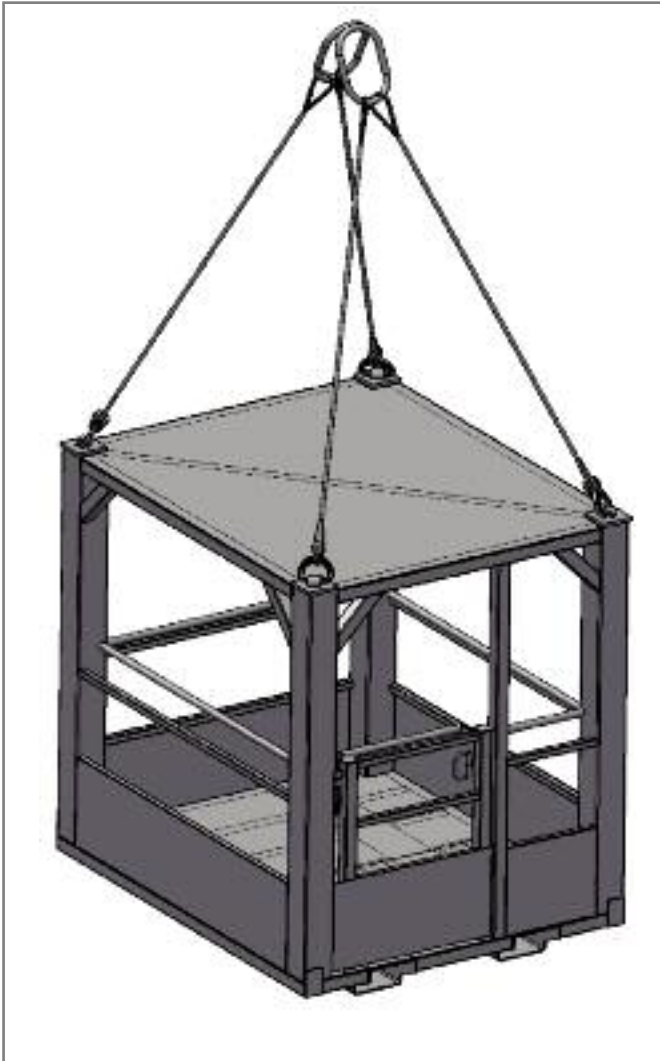
Disconnecting personnel cage from spreader:

- ✓ Radio operator notifies to crane operator that opening and unlifting of Twistlocks can be performed. Carne operator asks for confirmation, and if everything is correct, proceeds to open the Twistlocks.
- ✓ Manual disconnection of the safety chains and hooks.



3.2. Safety Cages for Hook Cranes

BA-164 G: Safety Cage (2,4x2)



Reference	Sizes S x W x L (mm)	Load Capacity (Kg)	People Capacity max.	Weight (Kg)
BA-164 G (2,4x2)	2.400 x 2.020 x 2.430	750	5	1.600



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BA-164 B: Safety Cage (1,4x1)



Safety Cages

Reference	Sizes S x W x L (mm)	Load Capacity (Kg)	People Capacity max.	Weight (Kg)
BA-164 B (1,4x1)	1.500 x 1.000 x 2.200	300	2	350

4





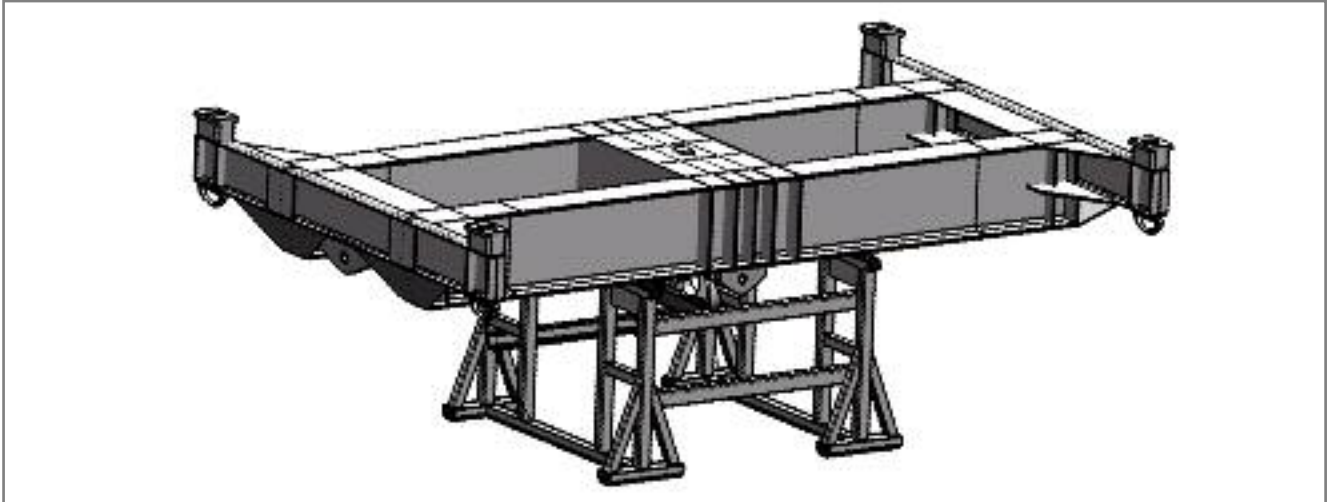
Non Conventional Loads

- 4.1. Equipment for Crane + Spreader
- 4.2. Equipment for Crane + Hook
- 4.3. Beams
- 4.4. Equipment for Forklift
- 4.5. Equipment for Reachstaker
- 4.6. Pallet Handling
- 4.7. Car & Truck Handling



4.1. Equipment for Crane + Spreaders

BA-110: Multipurpose Frame



Frame to convert any Spreader into a Fully operational multipose tool.
Available in a full range of measures.
Available up to SWL = 80 Tons.
Available with a special bed prepared to leave the frame when is it unused.
Multiple configurations according to the customer requirements.



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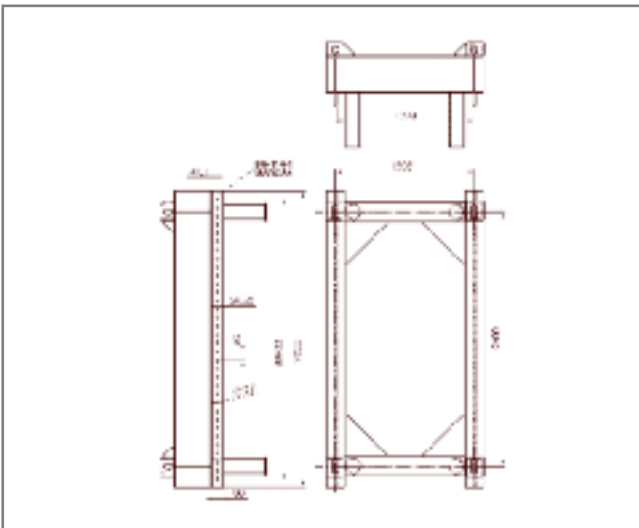
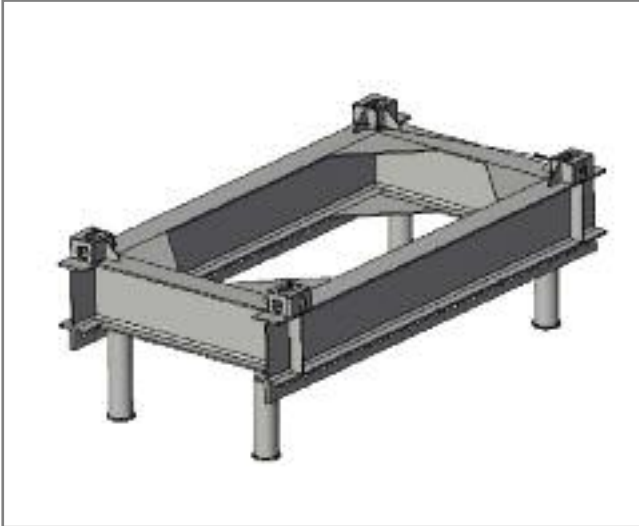
Non conventional Loads



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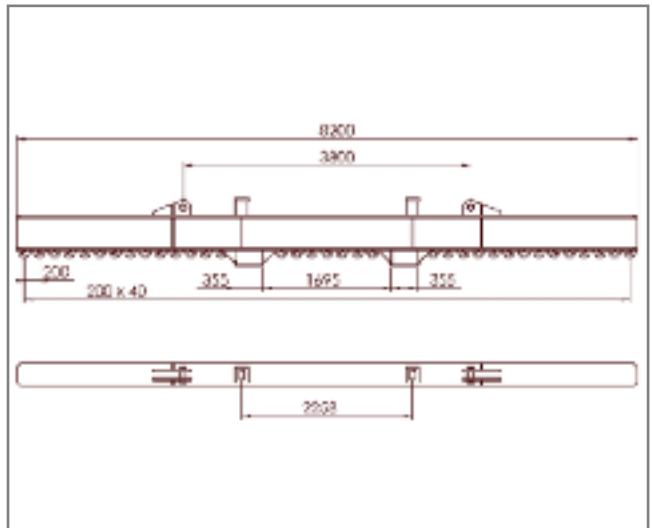
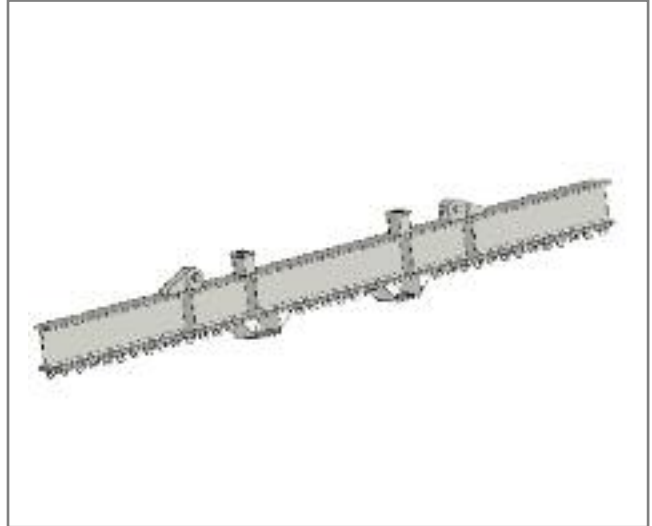
BA-114: Frame for Multiple Shackles



Another idea to convert a standard Spreader into a multipurpose frame.

Configuration of the Lower Links for shackles under customer requirements. SWL up to 20 Tons.

BA-203: Frame for Multiple Shackles



Another idea to convert a standard Spreader into a multipurpose frame.

Using 2 X BA-203, one in each short side of the spreader, the result is a multipurpose Spreader ready to admit any load configuration.

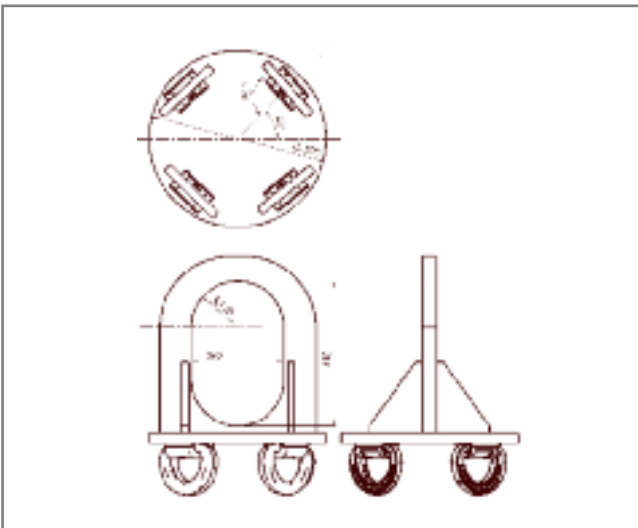
Configuration of the Lower Links for shackles under customer requirements.

From 6 to 8 meters long & SWL up to 36 Tons.

Non conventional Loads

4.2. Equipment for Crane + Hook

BA-120: Multilink



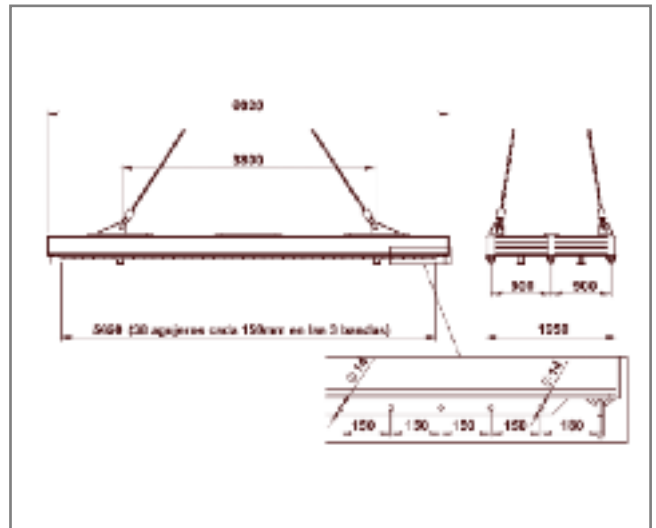
It converts the single hook into a multiple link tool.

Available in a full range of measures.

Available up to SWL = 80 Tons.

Multiple configurations according to the customer requirements.

BA-213: Multipurpose Frame for Cranes



Multiple links in the lower part for shackles and chains. 32 links every 200mm in the lower part of the 3 beams.

It is a very versatile tool with a all-purpose use for general cargo. Available for 16Tons and 24Tons configurations.

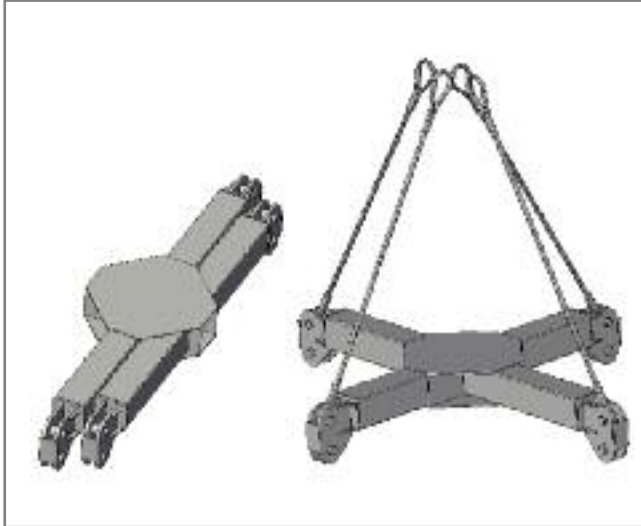
Multiple configurations according to the customer requirements.



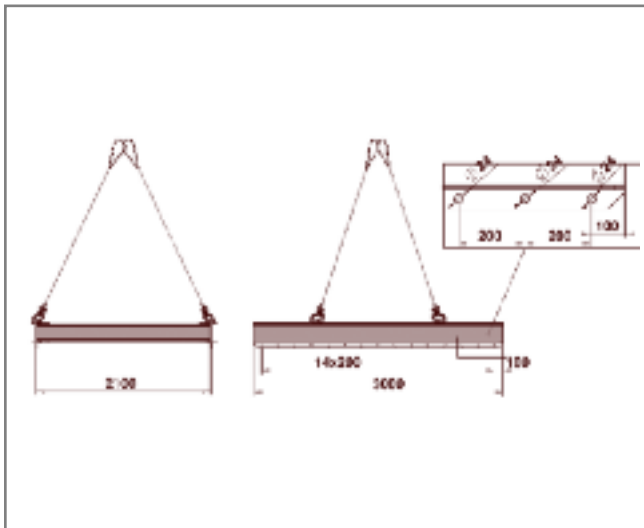
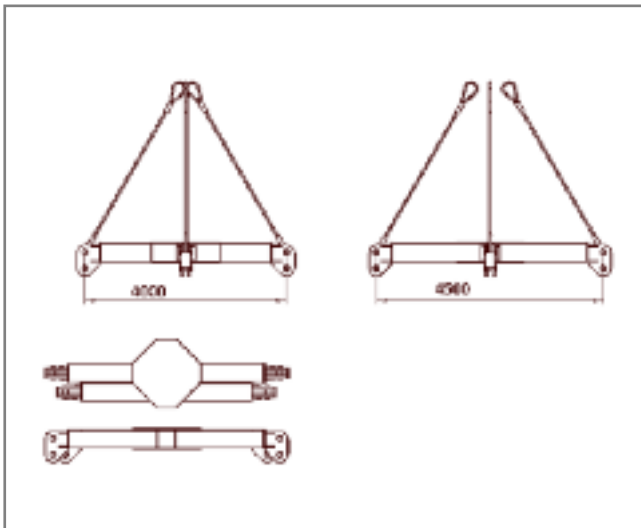
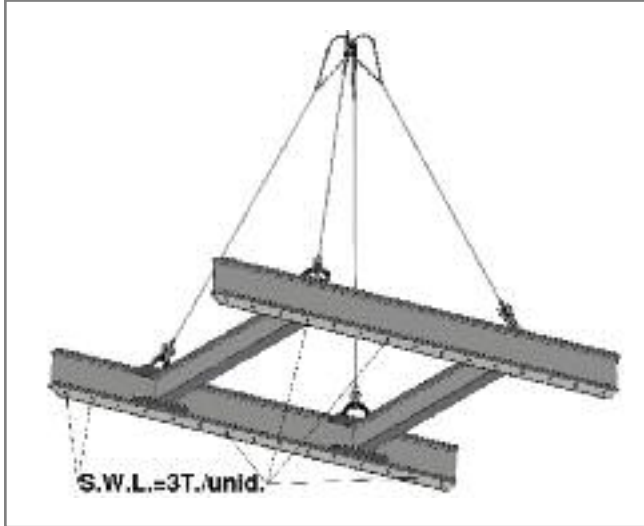
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BA-129: Demountable Lifting Frame



BA-220: Lifting Frame for Crane + Hook



Also known as Folding frame or Scissors Frame. It has 2 main positions:

- First, folded to reduce the transport costs.
- Second, working position to ensure a robust design of up to 100 Tons.

Available versions from SWL = 20Tons until 100 Tons.

Multiple configurations according to the customer requirements.

It converts the single hook into a multiple link tool.

Links of 24mm diam every 200mm in both lower beams.

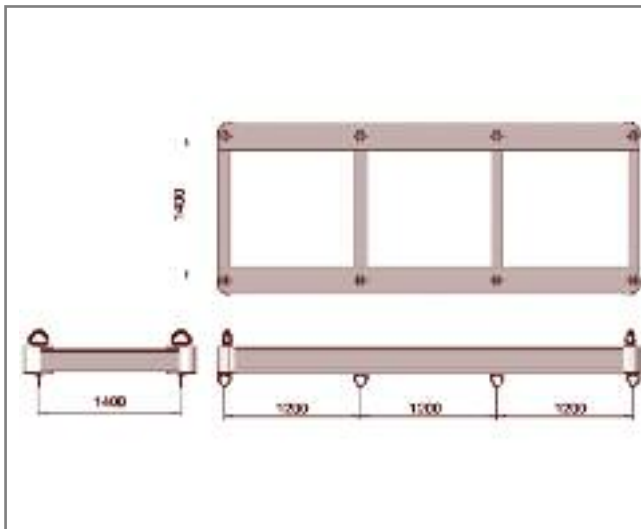
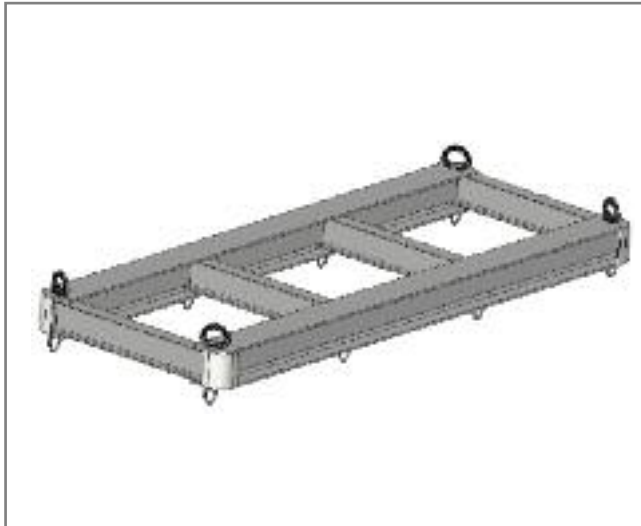
Available up to SWL = 20 Tons.

Multiple configurations according to the customer requirements.

Non conventional Loads

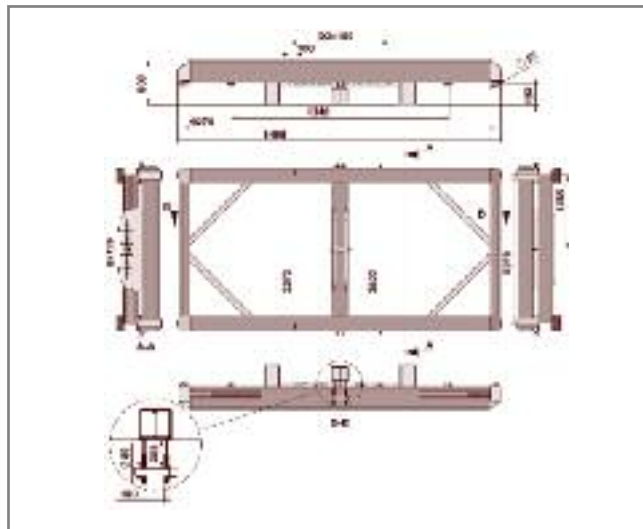
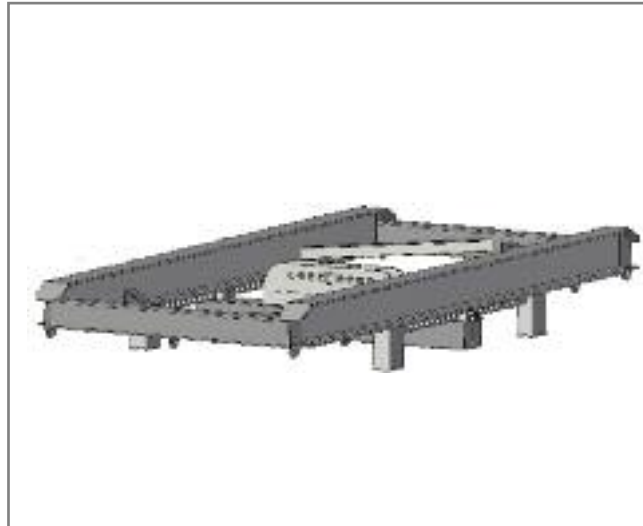
4.2. Equipment for Crane + Hook

BA-168: Muntipurpose frame for Crane + Hook



It converts the single hook into a multiple purpose frame.
 Available up to SWL = 20 Tons.
 Multiple configurations according to the customer requirements.

BA-223: Gravity point Regulator Frame



This frame has a easy but powerfull regulator of the Gravity Point.

Very useful when lifting unbalanced loads.

The user can compensate and modify the gravity point sideways and headways.

Available up to SWL = 20 Tons.

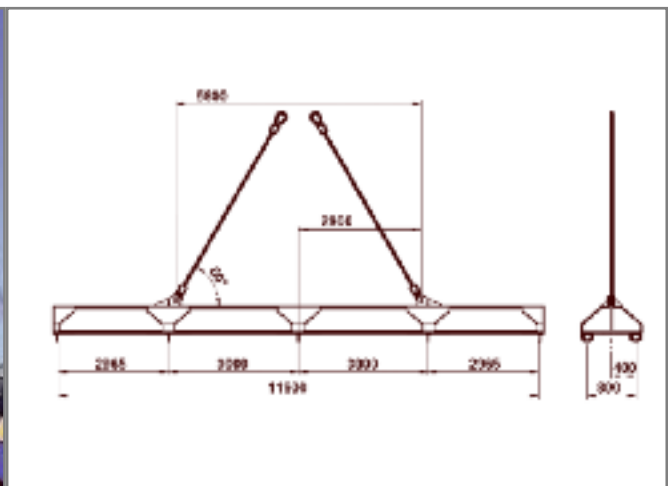
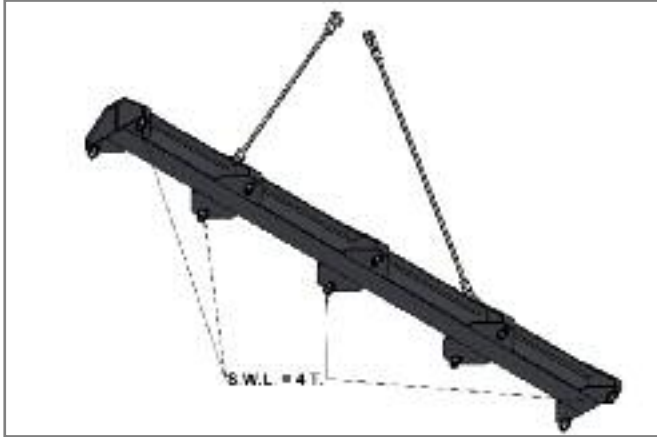
Multiple configurations according to the customer requirements.

4.3. Beams



"The world is our business"

BA-130: Multipurpose Beam

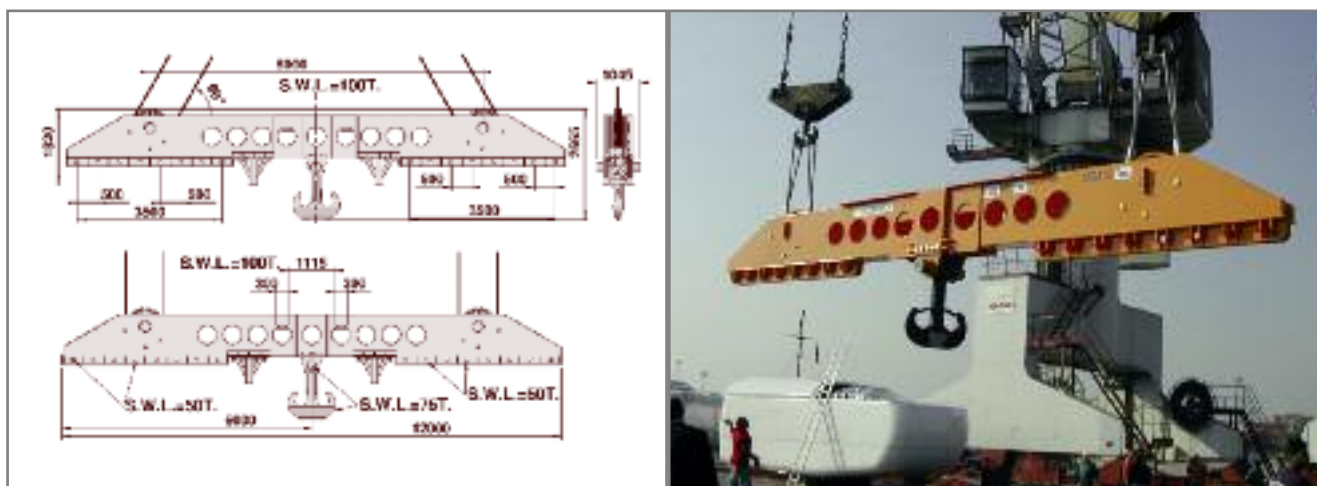
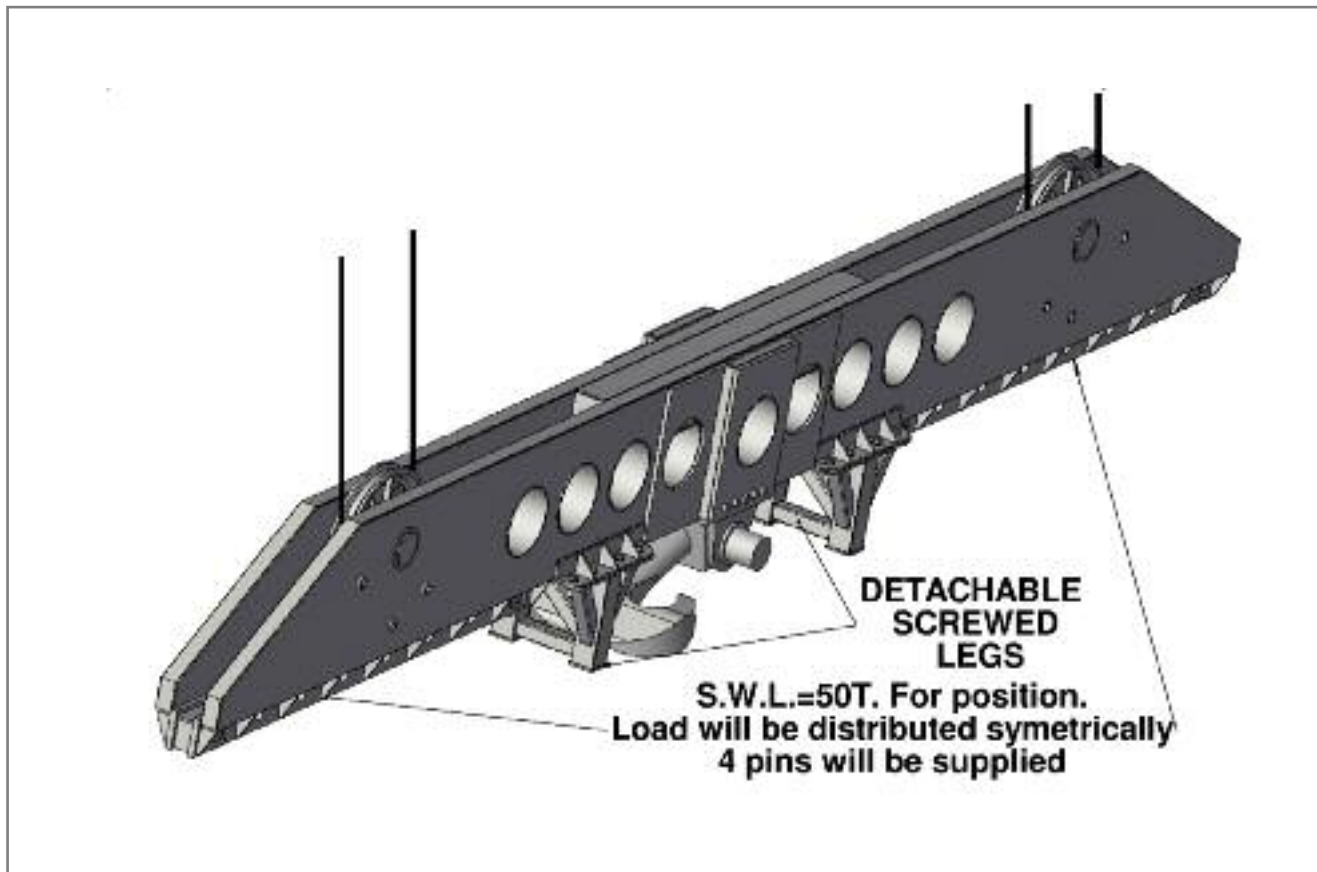


The standar TEC CONTAINER Lifting Beam.
A must for General Cargo Handling.
Available from SWL = 16 Tons up to 45 Tons.
Available from 6m to 12m wide.
Multiple configurations according to the customer requirements.

Non conventional Loads

4.3. Beams

BA-175 G: Multipurpose Heavy Beam



One of most powerful and most multifunctional beam produced by TEC CONTAINER.
Ready to be used with one single crane or two tandem cranes.
Ready to be used with the central lower doble hook or holes for shackles up to 50 Tons each.
Available from SWL = 75 Tons in central hook or 100 Tons in the lateral holes.
Multiple configurations according to the customer requirements.



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BA-187: Modular Beam



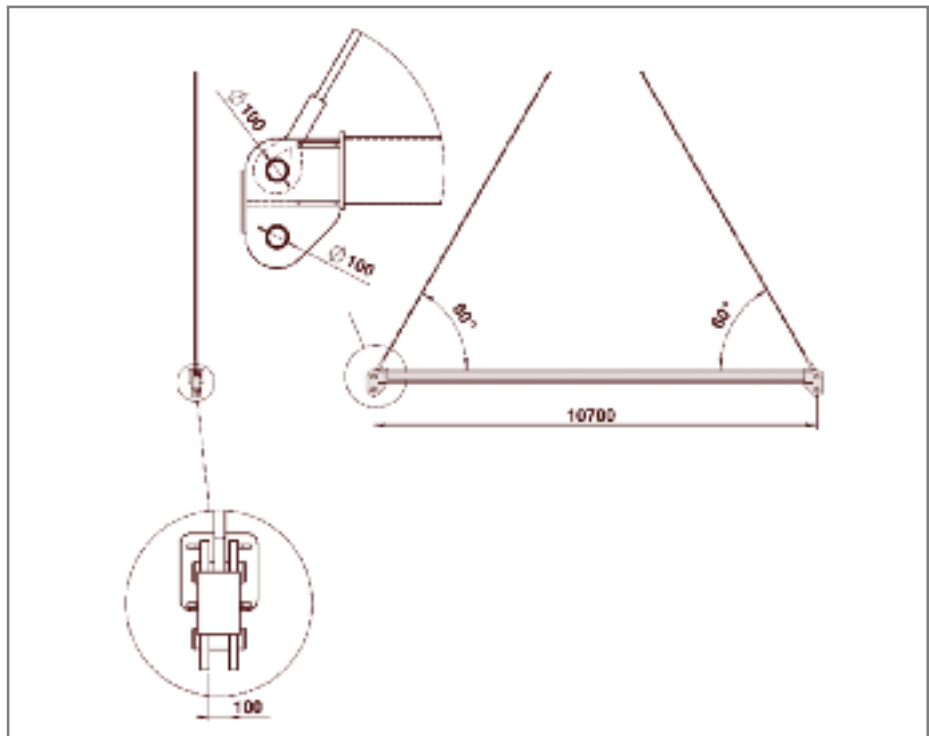
The easiest way to have multiple beams using one simple idea.

One central body + 2 lateral heads with different links under customer requirements.

Valid for single / tandem cranes.

Length and SWL of each beam can be made under customer requirements.

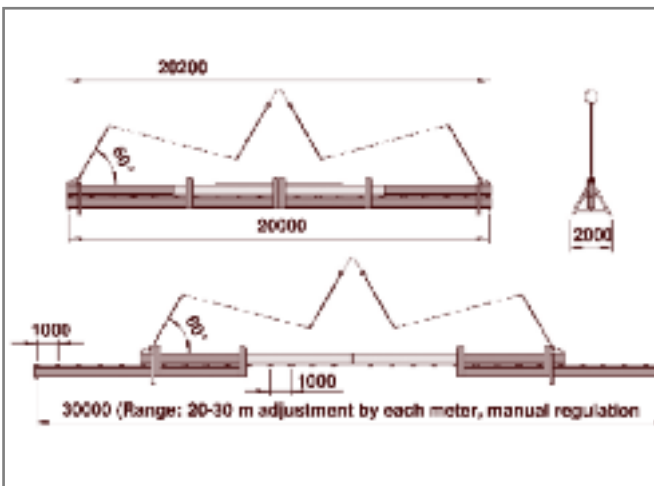
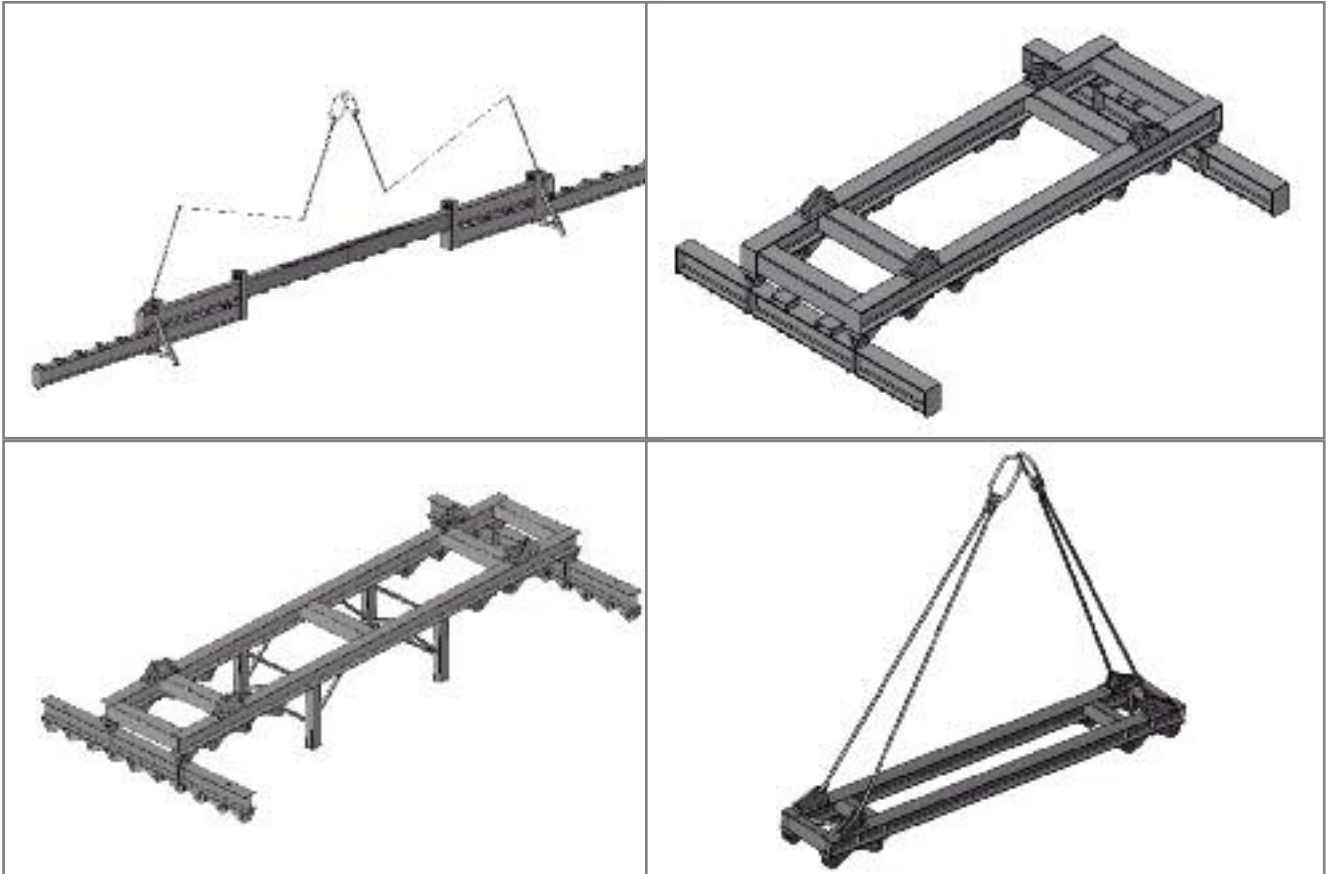
Up to 100 Tn SWL.



Non conventional Loads

4.3. Beams

BA-190: Heavy Duty Beam



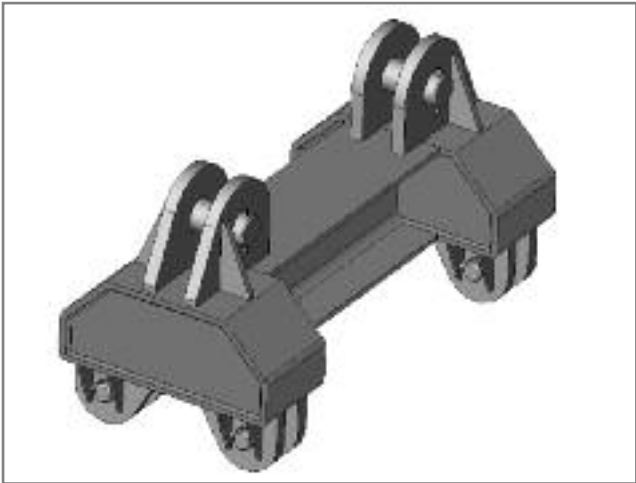
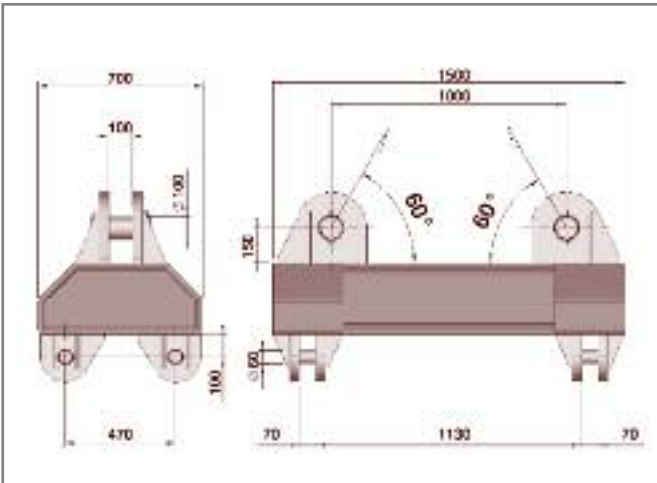
BA-190 is a complete Range of Heavy Beams and frames.
Valid for single / tandem cranes.
The small model is SWL 30 Tons while the Biggest of the family is 100 Tons.
Available as well in telescopic versions.
Length and SWL of each beam can be made under customer requirements.



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BA-189: Small Beam / Heavy Loads

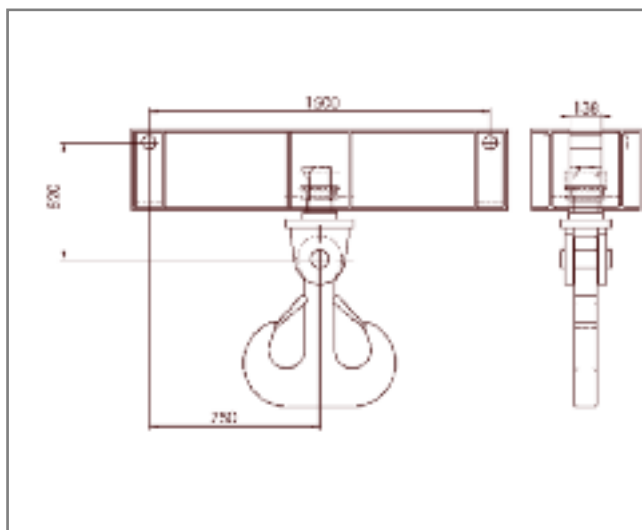
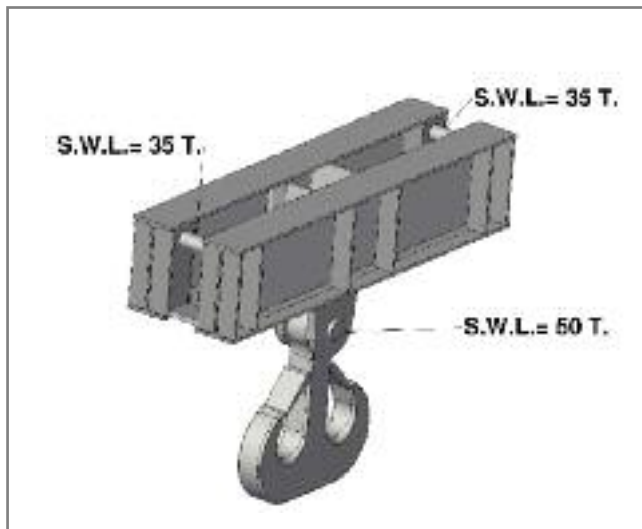


One of the TEC CONTAINER Smallest beams.
At the same time one of the most Powerful.
Length and SWL of each beam can be made under customer requirements.

Non conventional Loads

4.3. Beams

BA-186: Beam for Tandem Cranes



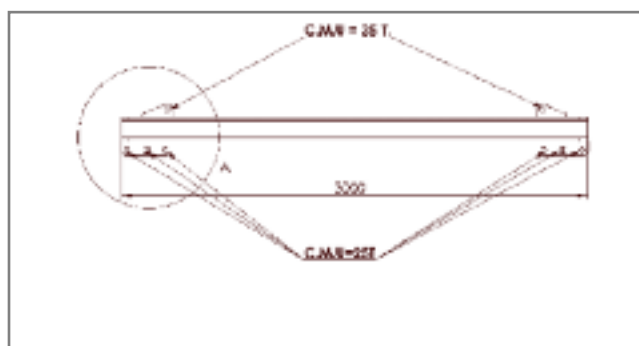
The Best solution to join two cranes into one single beam.

Two cranes, in tandem mode, join its forces using this single beam.

Length and SWL of each beam can be made under customer requirements.

Already produced range of model with SWL from 20 Tons to 50 Tons.

BA-197: Heavy Loads Beam



Another versatile range of products.

Due to the lifting lower holes, the **BA-197** permits gravity point regulation if the loads are not balanced.

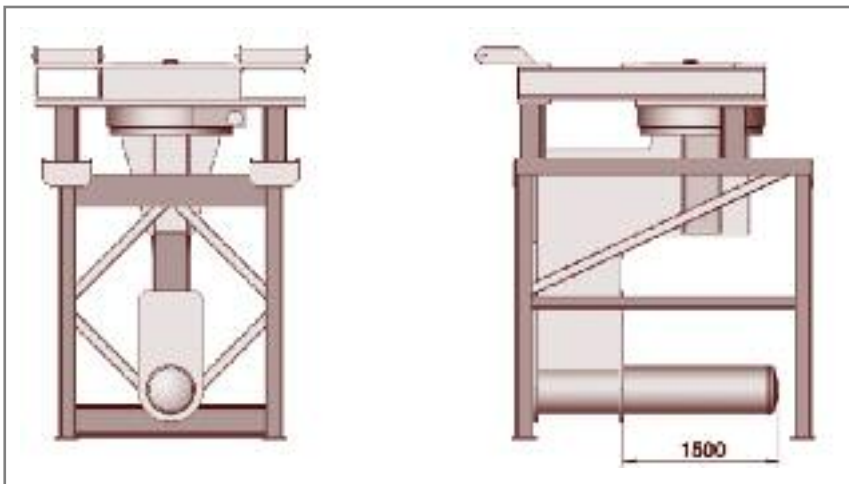
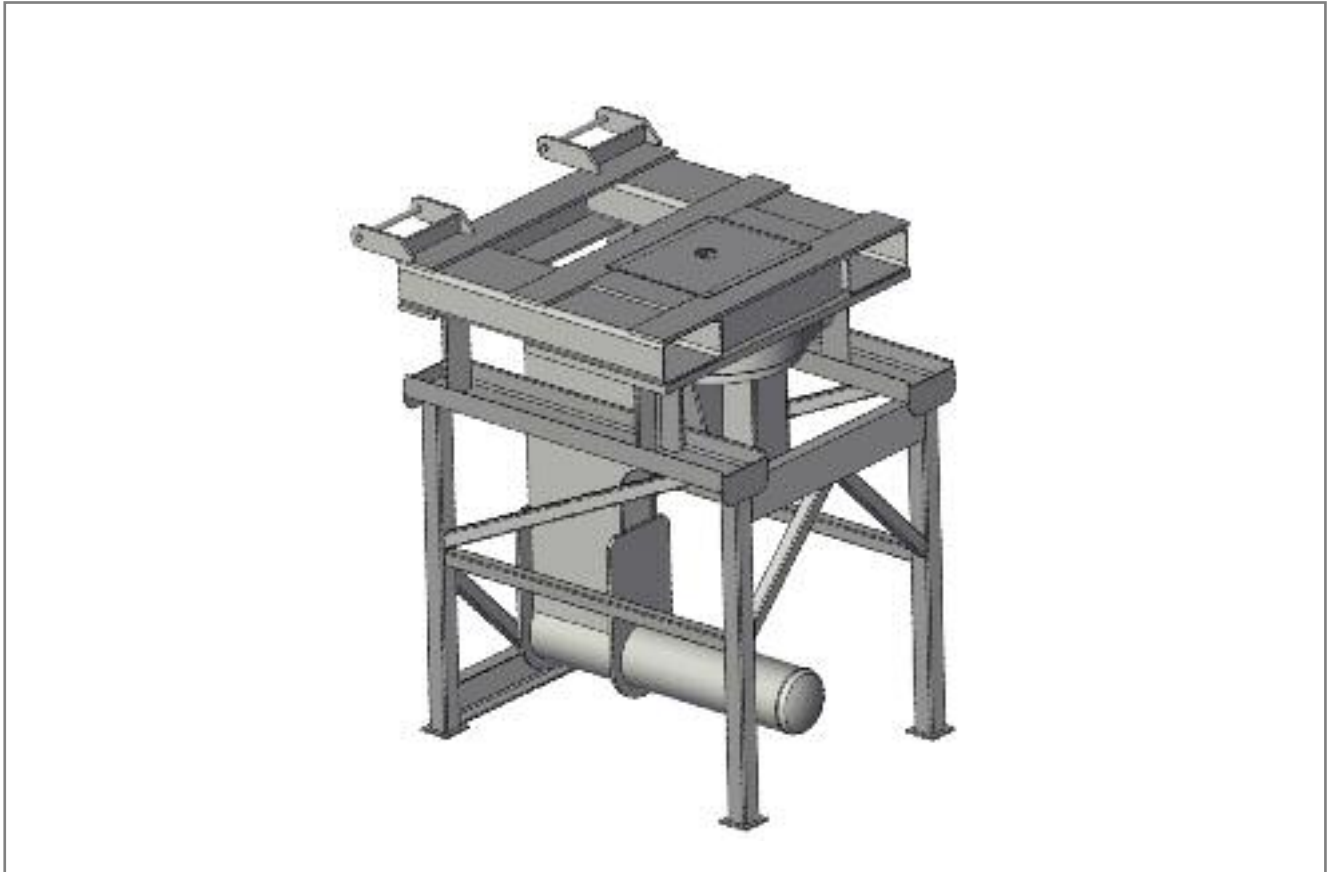
Length and SWL of each beam can be made under customer requirements.

4.4. Equipment for Forklift

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BA-141: Rotatory C-Hook for Forklift



Non conventional Loads

Universal Link for almost any forklift.
Up to 360° movements to both sides to ease loading / unloading operations.
SWL of the C-Hook under customer requirements.
Able to handle Coils up to 40 Tons and 1500mm wide.
When not in use, the **BA-141** remains in a bed also provided.
Multiple configurations according to the customer requirements.

4.4. Equipment for Forklift

BA-172C: Boat Loader for Forklift



This attachment allows any truck to put in and to take out of water boats easily.

No major modifications or works have to be done in the Marina.

No major modifications have to be done in the Forklift.

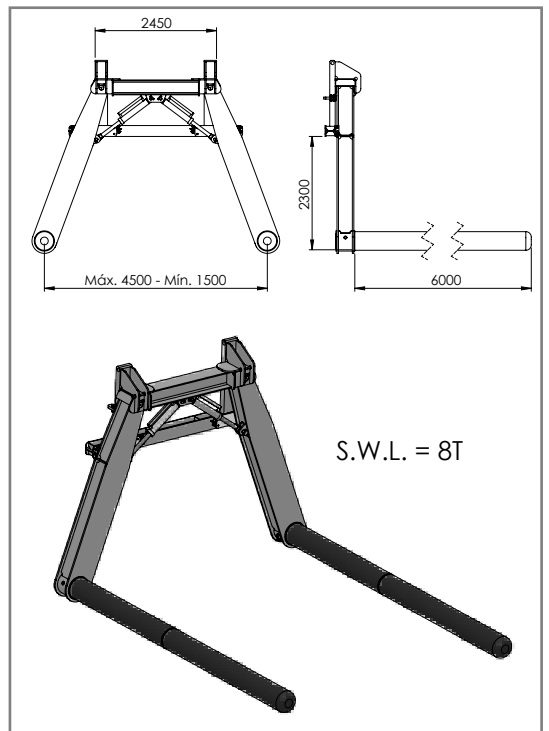
Hydraulic activation from the cockpit.

Galvanized for total protection.

The arms open & close to adapt to any sleeve boat.

The arms are lined with neoprene to prevent any damage to the boat.

Major measures and SWL under customer requirements.

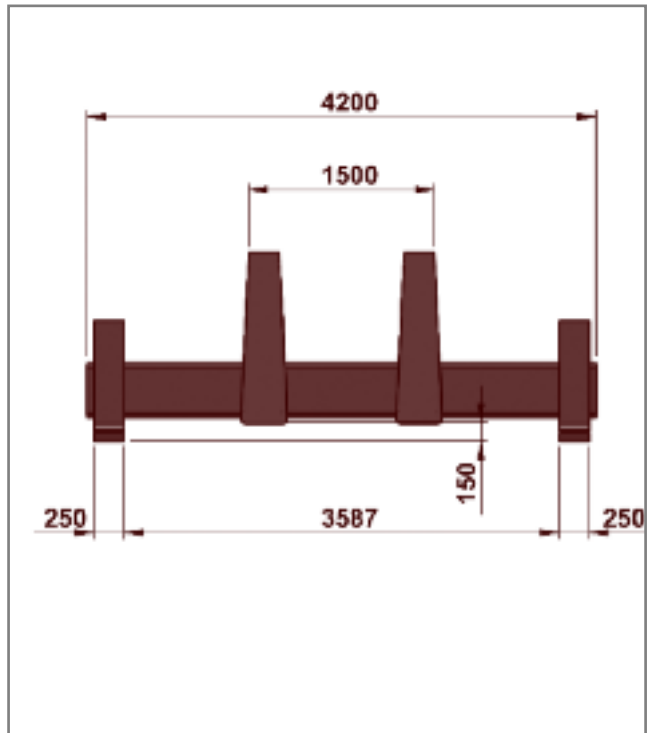
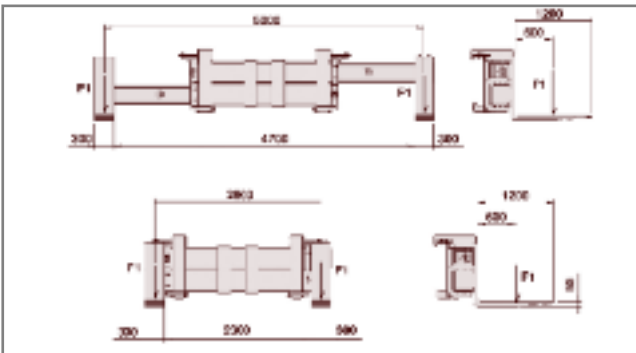
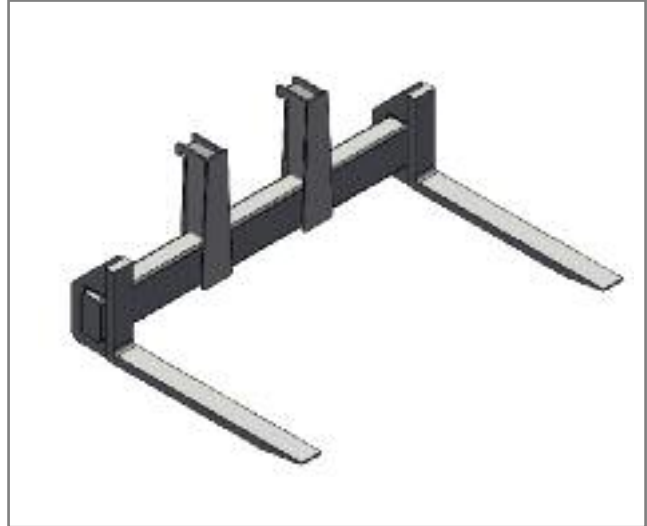
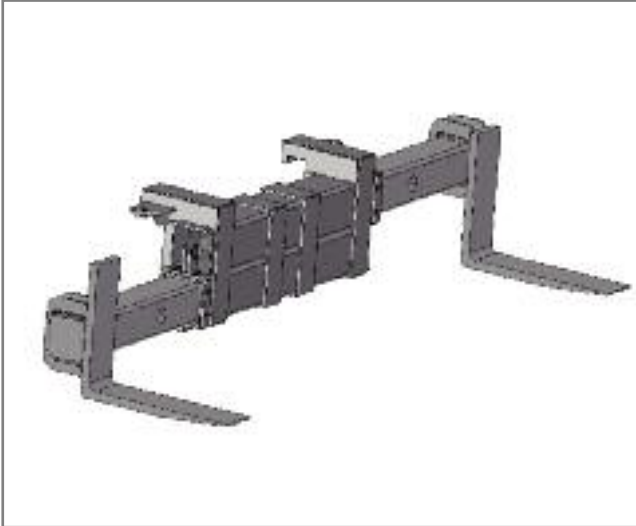




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BA-137 A,BA-137 B: Forks + Attachment

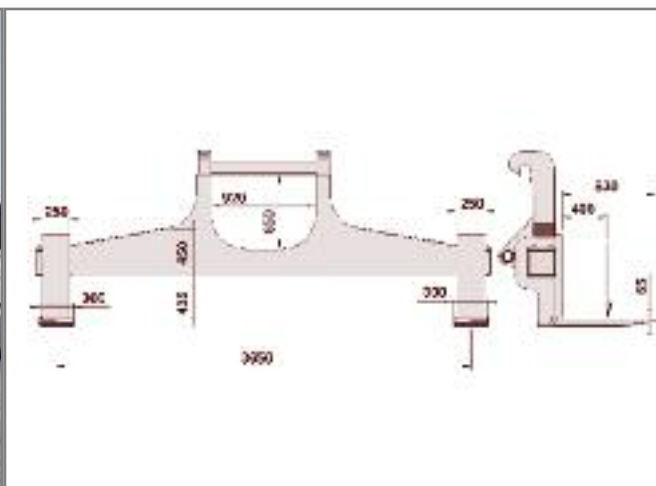
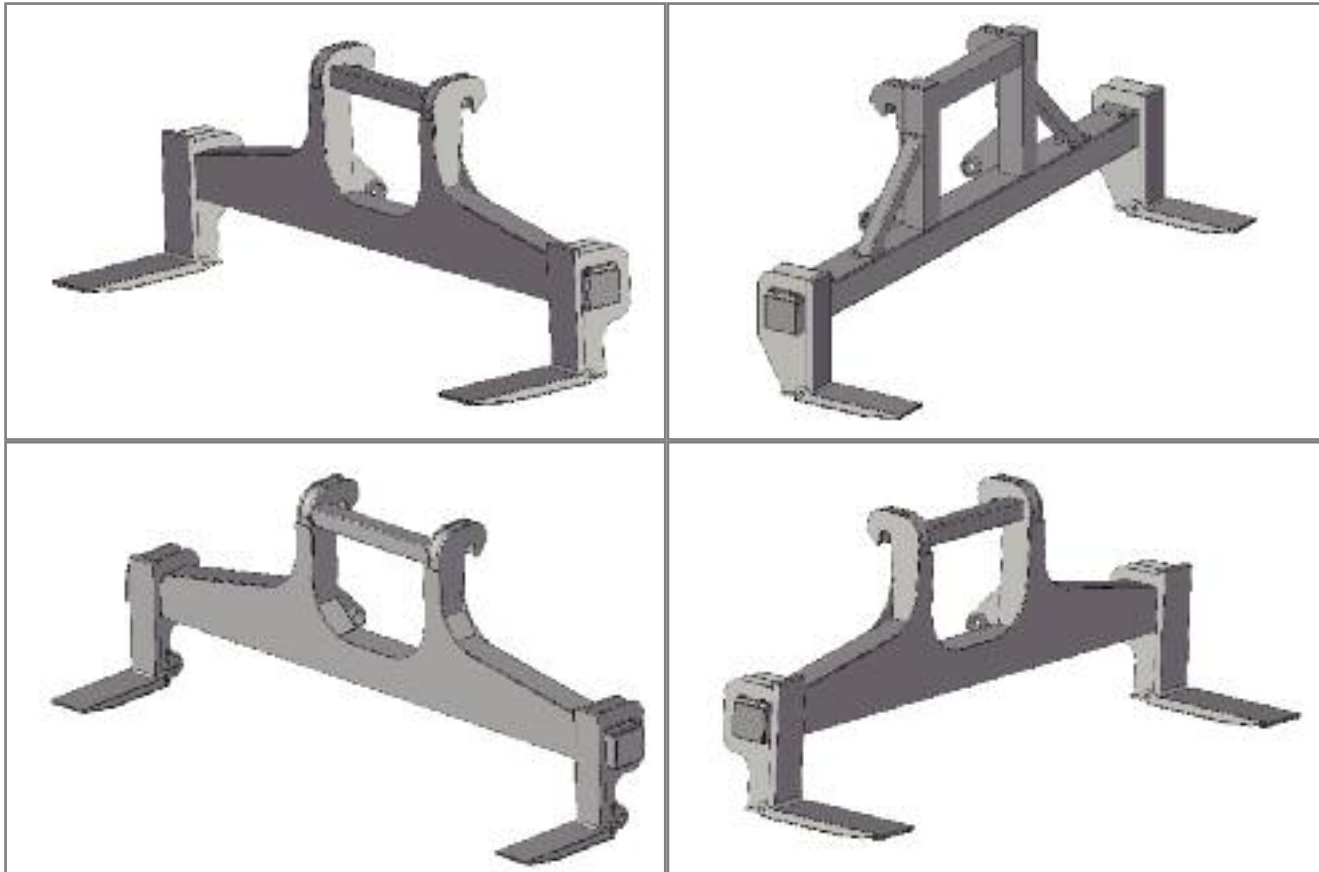


- Universal Link for almost any type or forklift.
- Your simple forklift can be converted into a more powerful machine.
- Available in Telescopic version.
- Different length of the forks under customer requirements.
- SWL of the standard version = 7 Tons.
- Multiple configurations according to the customer requirements.

Non conventional Loads

4.4. Equipment for Forklift

BA-183: Forks + Attachment



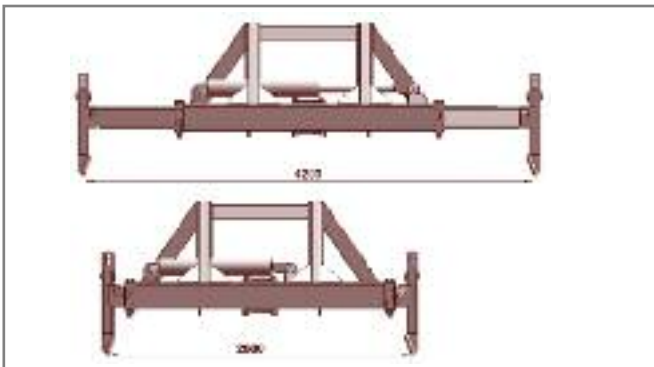
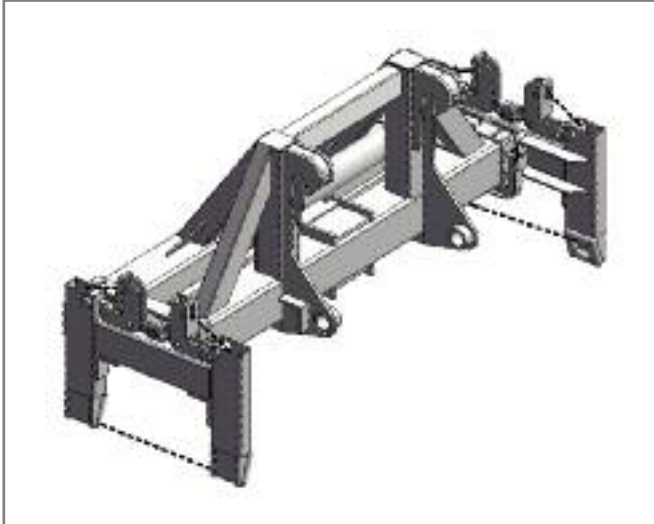
Universal Link for almost any type of forklift.
Your simple forklift can be converted into a more powerful machine.
All forks are provided with anti-abrasion covering.
Different length of the forks under customer requirements.
SWL of the standard version = 12,5 Tons.
Multiple configurations according to the customer requirements.



"The world is our business"



BA-115: Glass Loader for Forklift



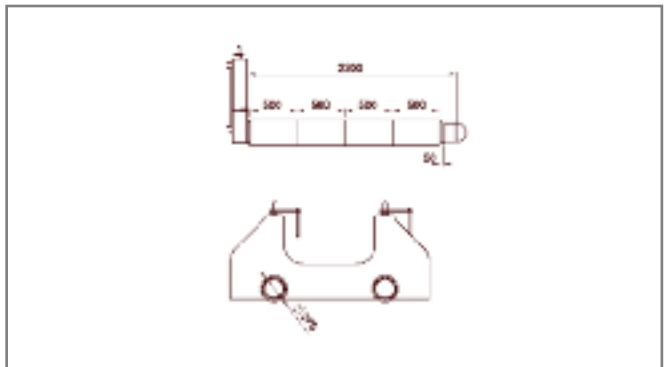
Universal Link for almost any type of forklift.

Telescopic attachment that permits handling of glass packages without any ground staff intervention.

SWL of the standard version = 14 Tons.

Multiple configurations according to the customer requirements.

BA-138: Multiple Coil Handler



Universal Link for almost any type of forklift.

This attachment multiplies the power of a simple forklift and allows you to handle, load and unload two or more coils in every cycle.

SWL of the standard version = 14 Tons.

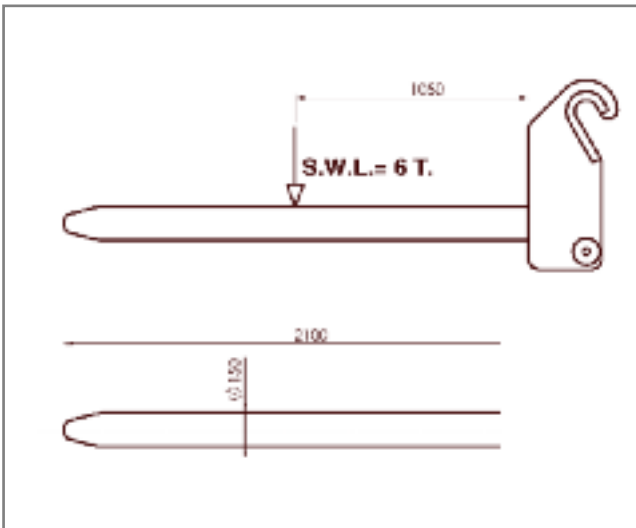
Optionally supplied with reinforced nylon protections.

Multiple configurations according to the customer requirements.

Non conventional Loads

4.4. Equipment for Forklift

BA-123: Simple Coil Handler



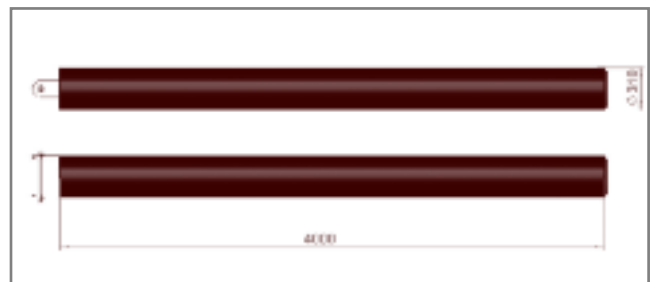
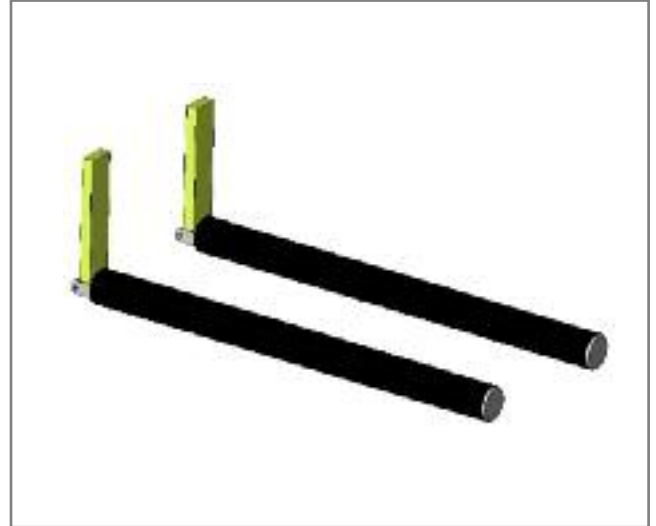
Universal Link for almost any type or forklift.

This attachment multiplies the power of a simple forklift and allows you to handle, load and unload steel coils easily.

SWL of the standard version = 6 Tons.

Multiple configurations according to the customer requirements.

BA-172: Marina Boat Handlers



Universal Link for almost any type or forklift.

Special handler for yachts and boats.

A must in any marina.

Rubber protected. Sling also provided by TEC.

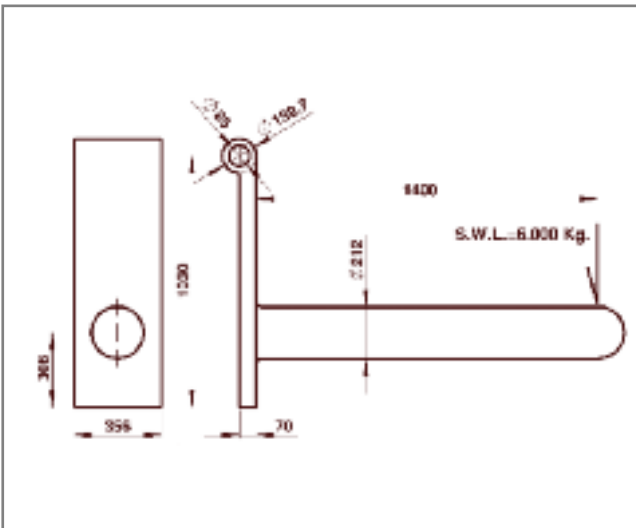
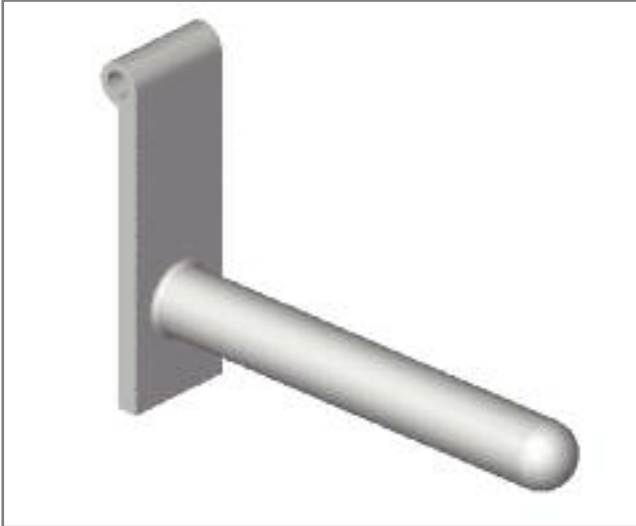
SWL of the standard version = 3 Tons.

Multiple configurations according to the customer requirements.



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BA-148: Simple Coil Handler



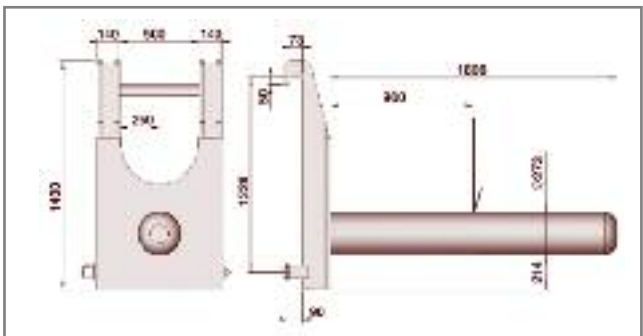
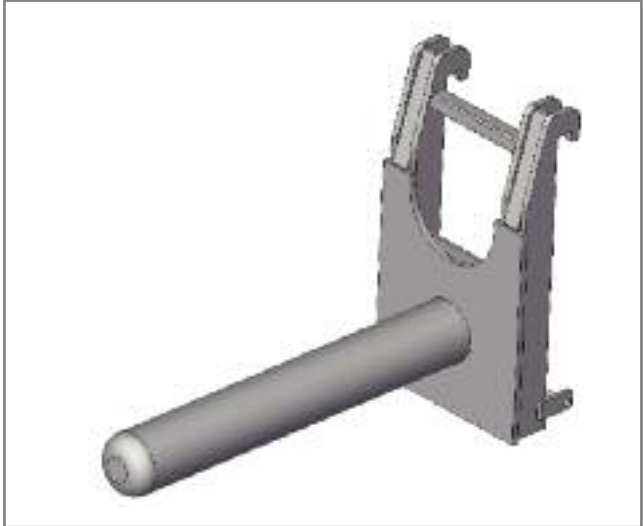
Universal Link for almost any type of forklift.

This attachment multiplies the power of a simple forklift and allows you to handle, load and unload steel coils easily.

SWL of the standard version = 6 Tons.

Multiple configurations according to the customer requirements.

BA-149: Strong Coil Handler



Universal Link for almost any type of forklift.

This attachment multiplies the power of a simple forklift and allows you to handle, load and unload steel coils easily.

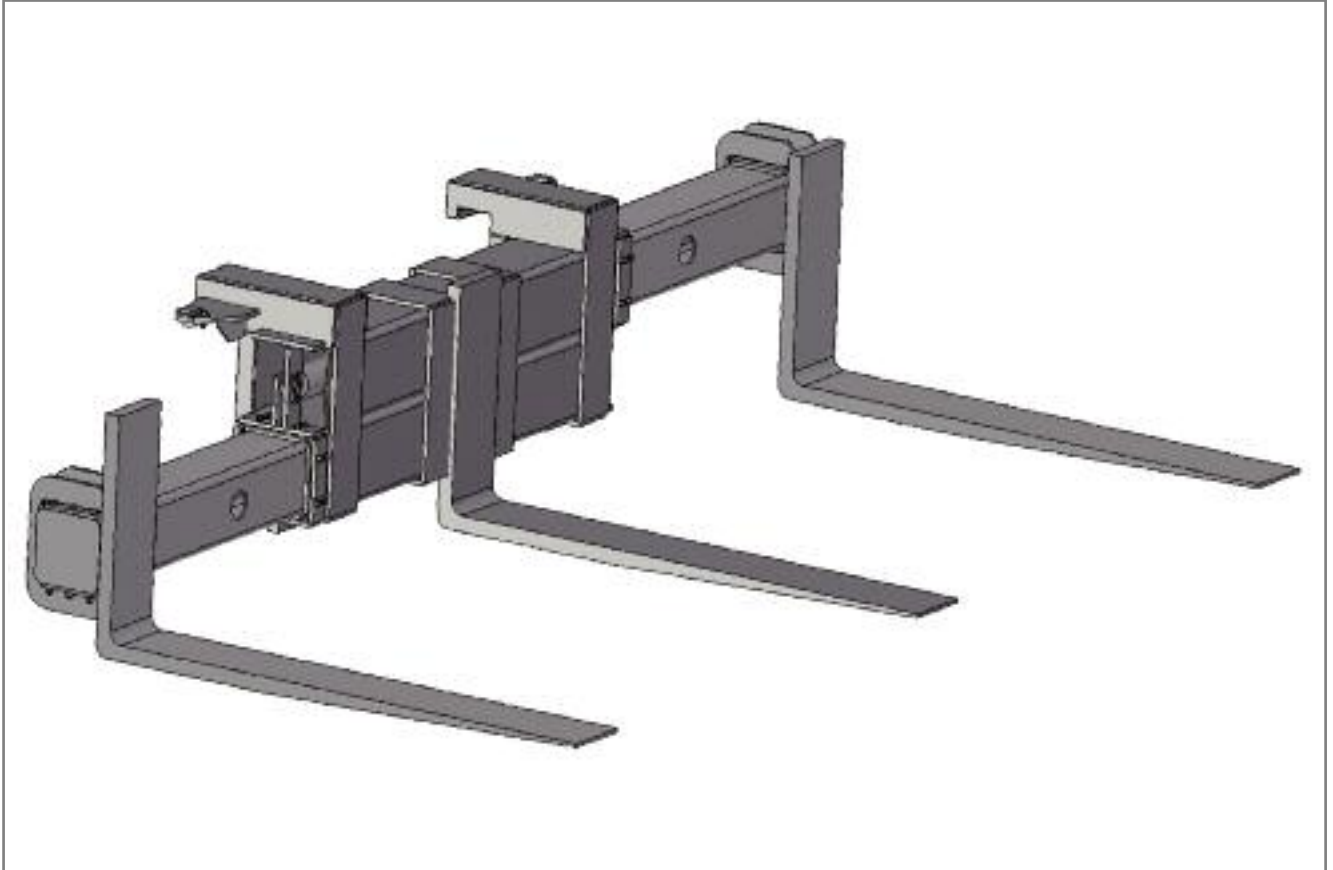
SWL of the standard version = 30 Tons.

Multiple configurations according to the customer requirements.

Non conventional Loads

4.4. Equipment for Forklift

BA-212: Telescopic Forks + Attachment

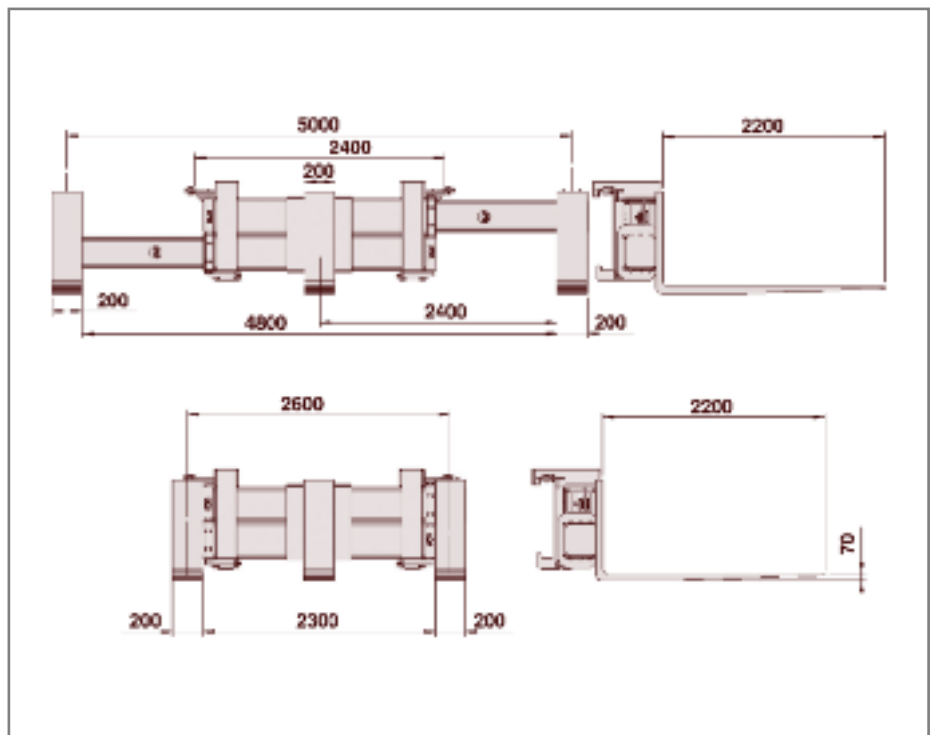


Universal Link for almost any type of forklift.

Your simple forklift can be converted into a more powerful machine.

Different length of the forks under customer requirements SWL of the standard version = 12,5 Tons.

Multiple configurations according to the customer requirements.

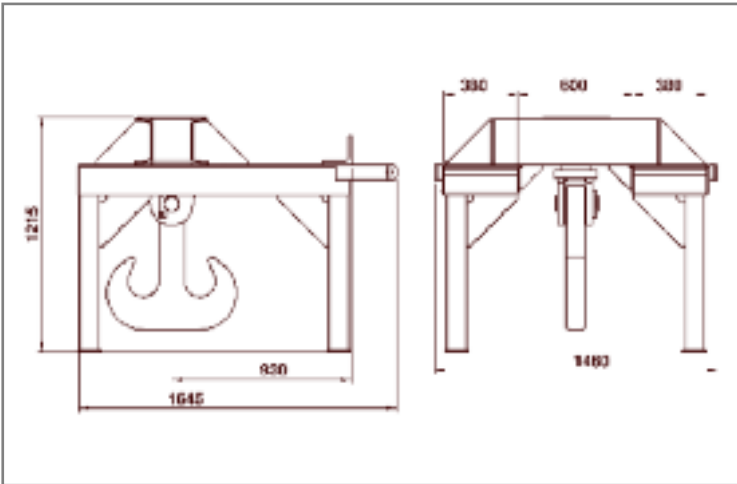
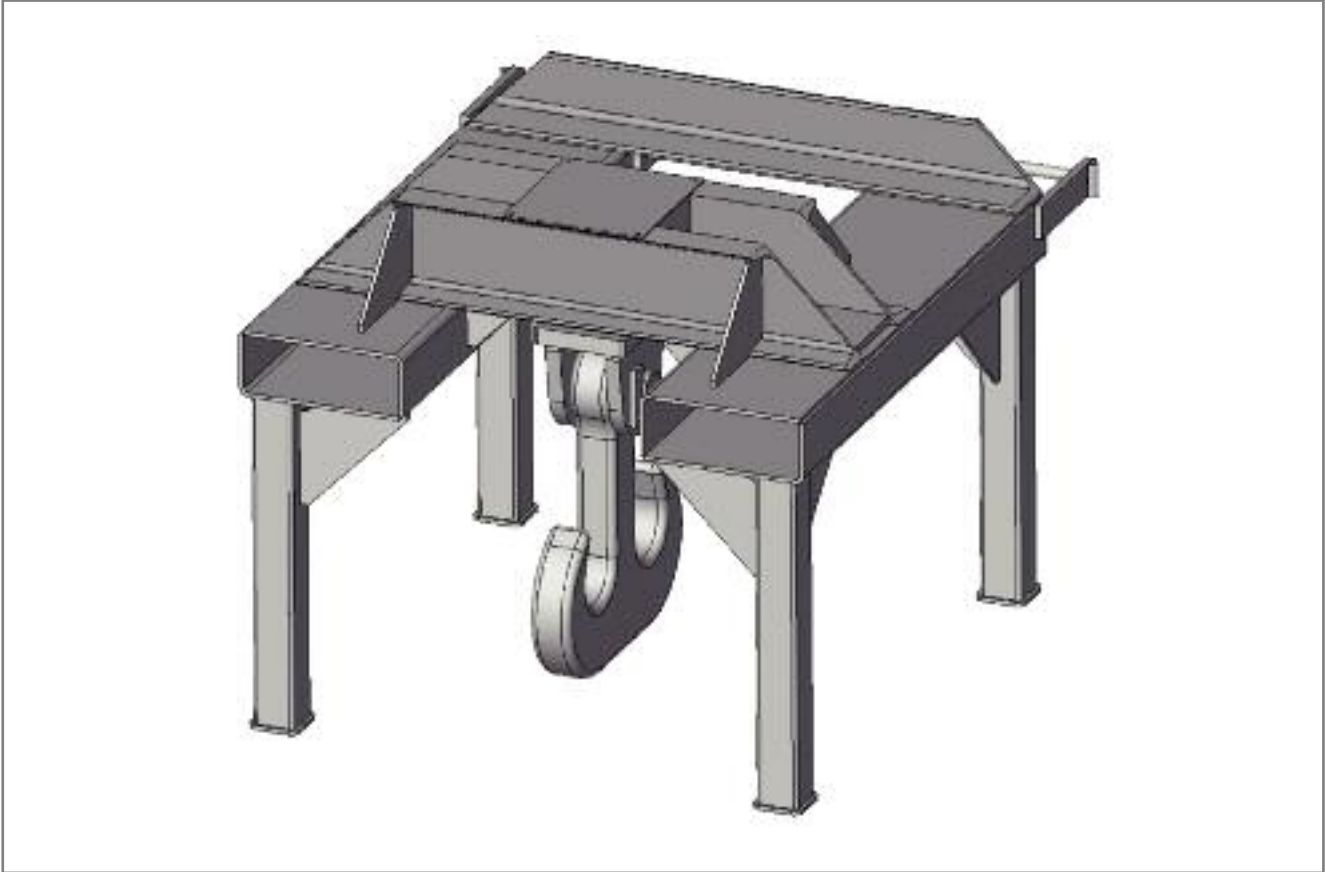




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BA-153: Multipurpose Attachment



This attachment converts your standard forklift into a powerfull general cargo machine thanks to the lower double hook.

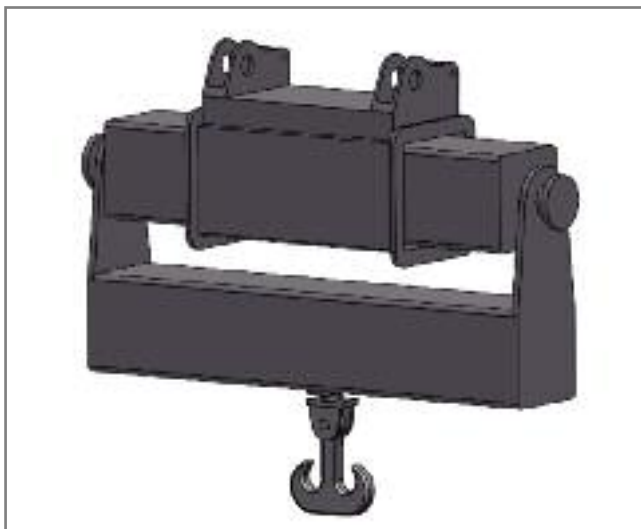
Different lenght of the forks under customer requirements SWL of the standard version = 32 Tons.

Multiple configurations according to the customer requirements.

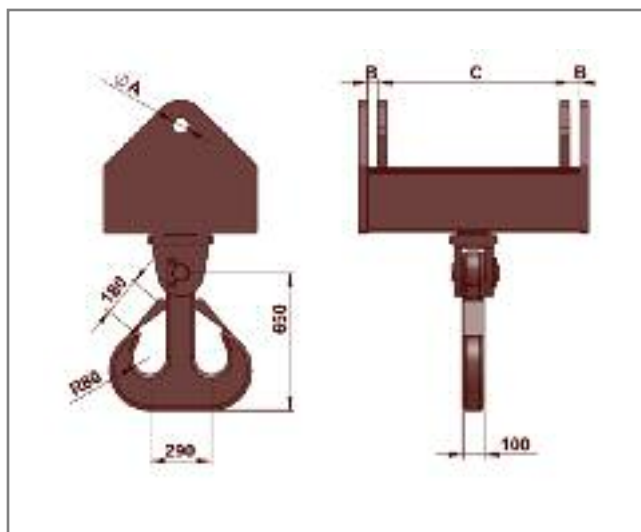
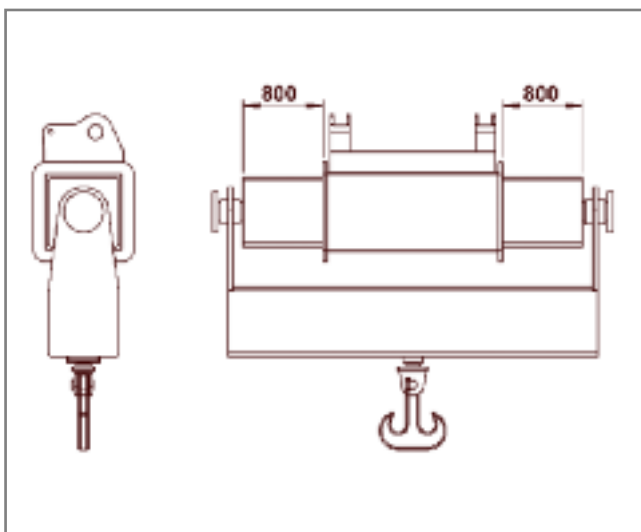
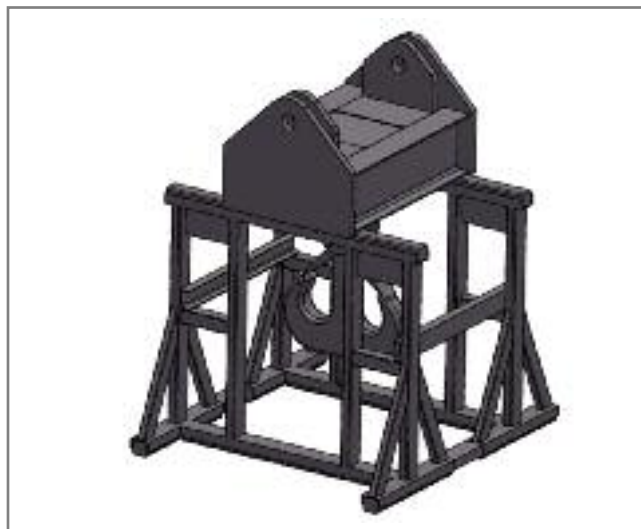
Non conventional Loads

4.5. Equipment for Reachstaker

BA-237: Reachstacker to double Hook Converter



BA-237T50: Reachstacker to Coil Handler Converter



Universal Link for almost any reachstacker.

This attachment converts the Reachstacker into a General Cargo machine.

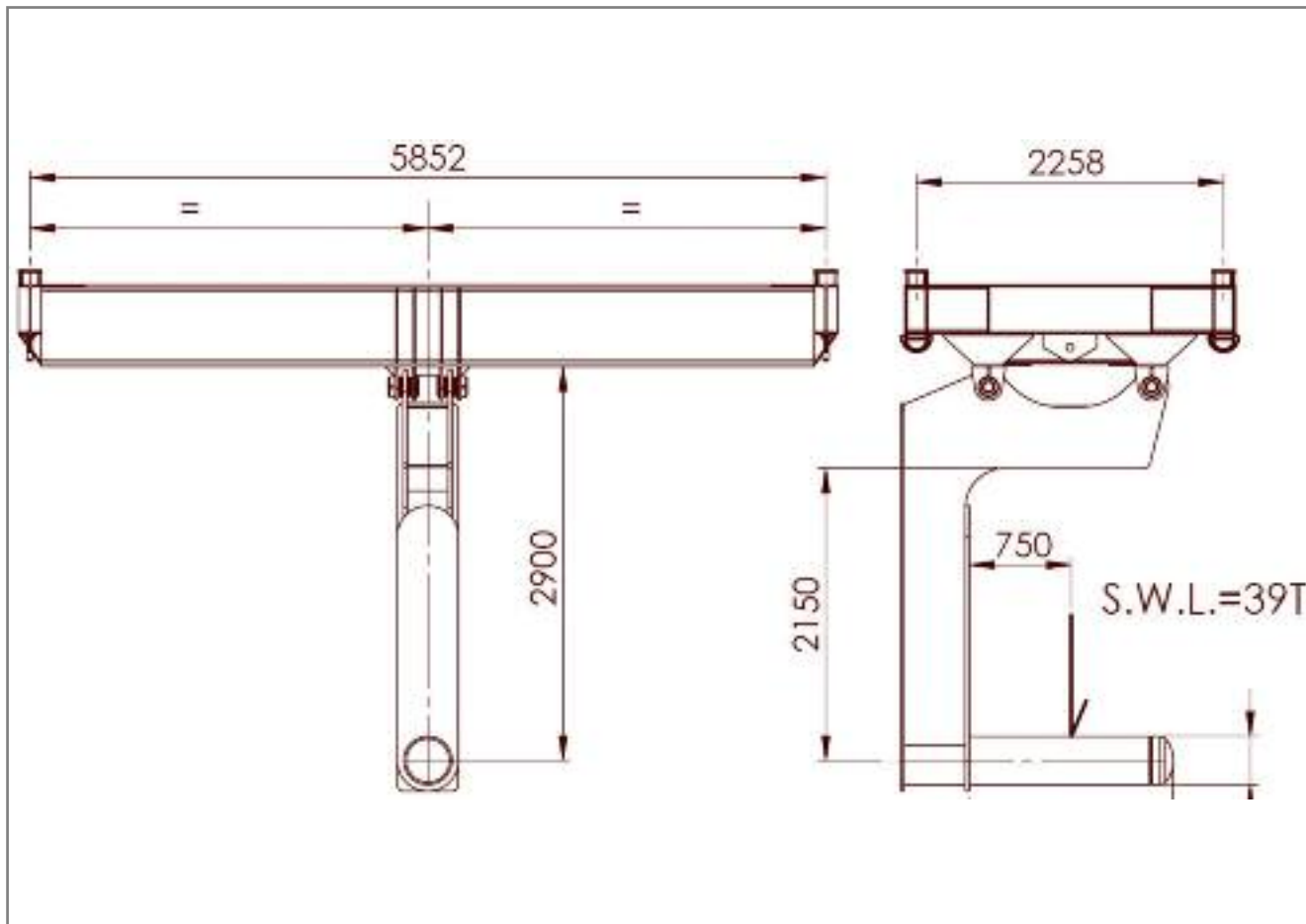
SWL of the lower double hook under customer requirements.

When not in use, the BA-237 remains in a bed also provided.

Multiple configurations according to the customer requirements.

4.5. Equipment for Reachstaker

BA-110CP: Coil Handler for Reachstacker



Ready to be used in any spreader or Reachstacker.

No modifications in the main Spreader are needed.

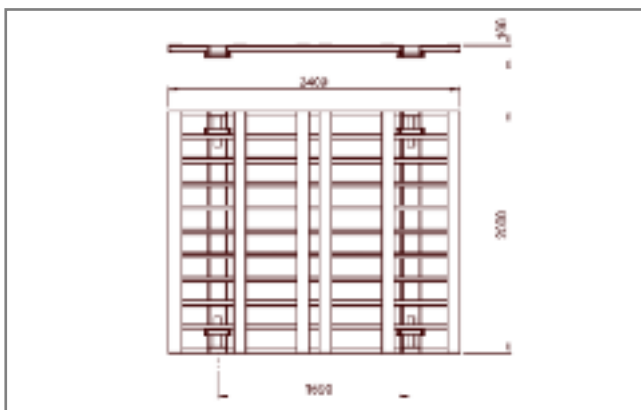
The BA-100CP is delivered with a Stand for easy pick up.

SWL and main measures are adaptable under customer's requirement.

4.6. Pallet Handling



BA-226: Pallet Base + Slings

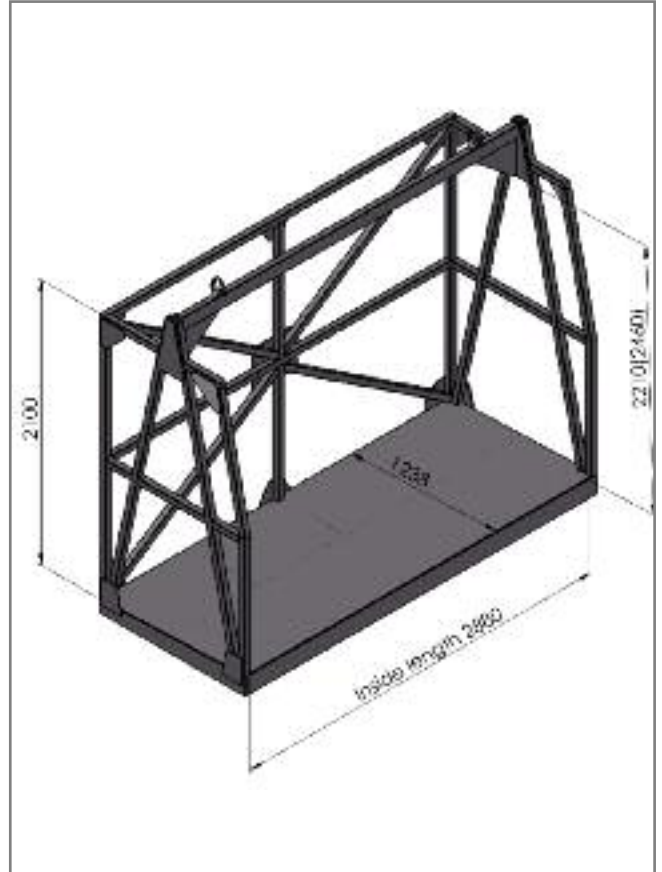
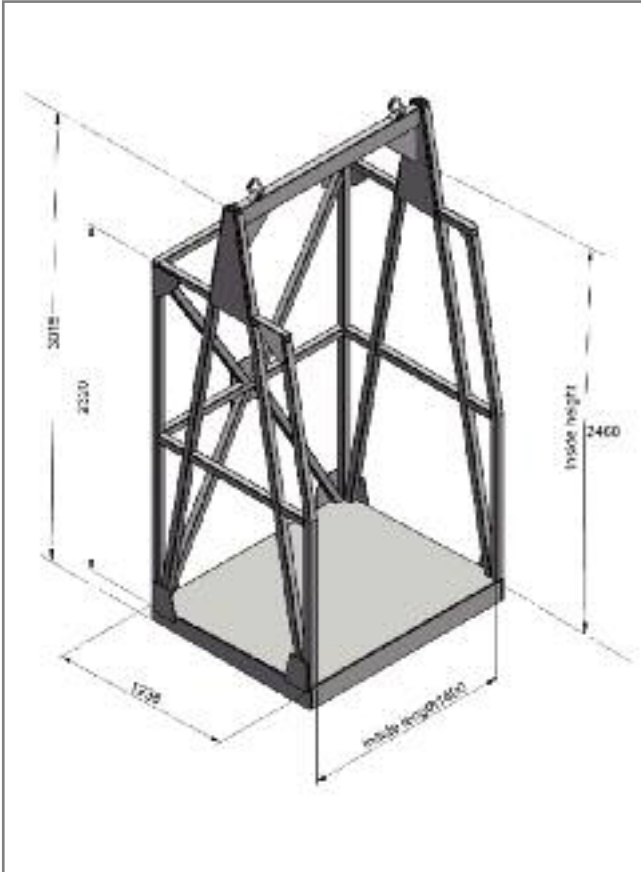


- Designed for use with Slings.
- Can handle 4 Pallets of 1.5 Tons each Pallet.
- SWL = 6 Tons.
- Dimensions under customer request.

Non conventional Loads

4.6. Pallet Handling

EL-14: Pallet Lifter



Simple, Double and Quadruple Versions Available.

The double version is ready to lift up to 3.5 Tons.

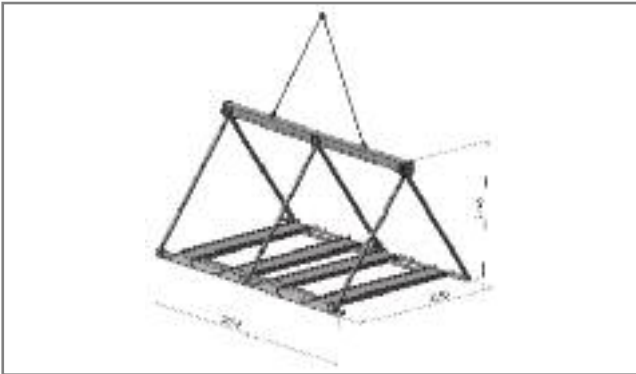
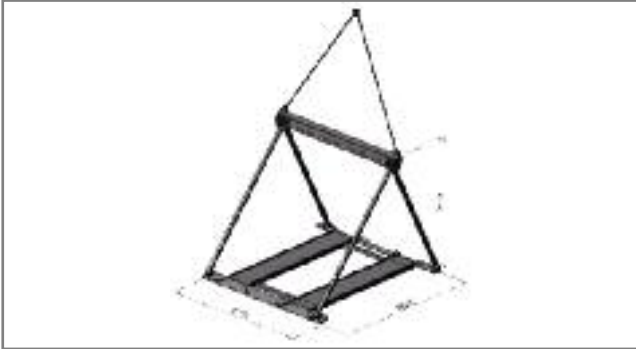
Dimensions under customer request.

4.7. Car & Truck Handling

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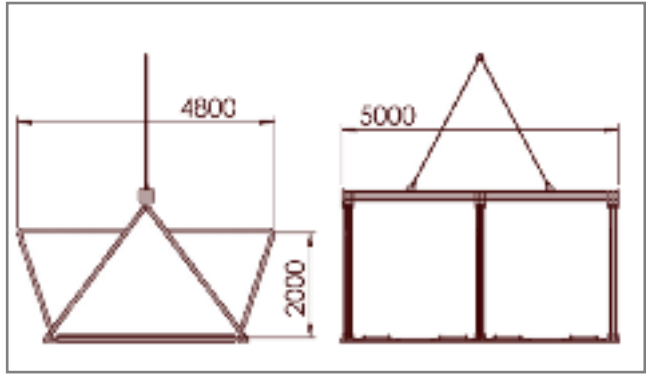
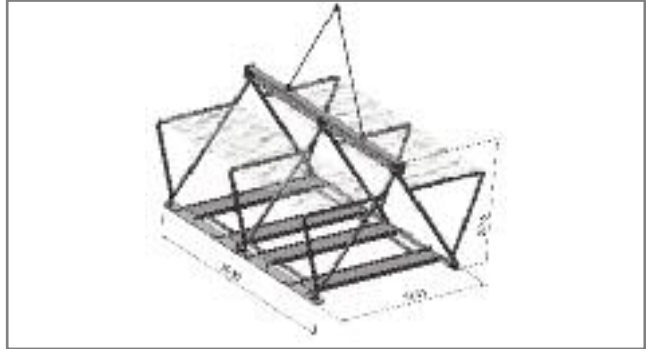


EL-02: Car Lifter Type 1



Simple, Double Versions Available.
The double version is ready to lift up to 6 Tons.
The simple version is ready to lift up to 3 Tons.
Dimensions under customer request.

EL-02 A: Car Lifter Type 2



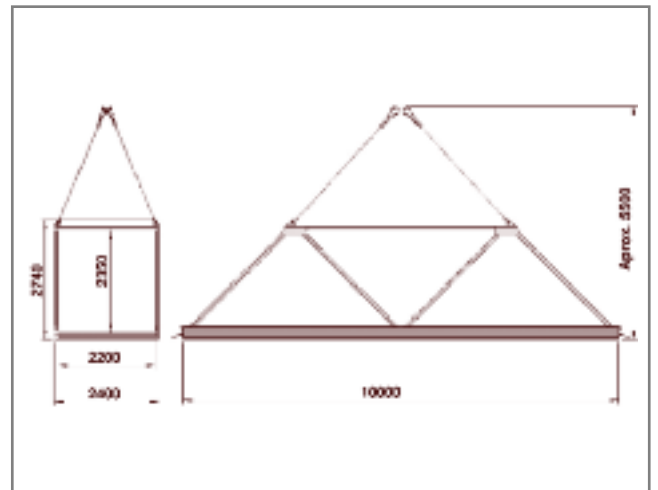
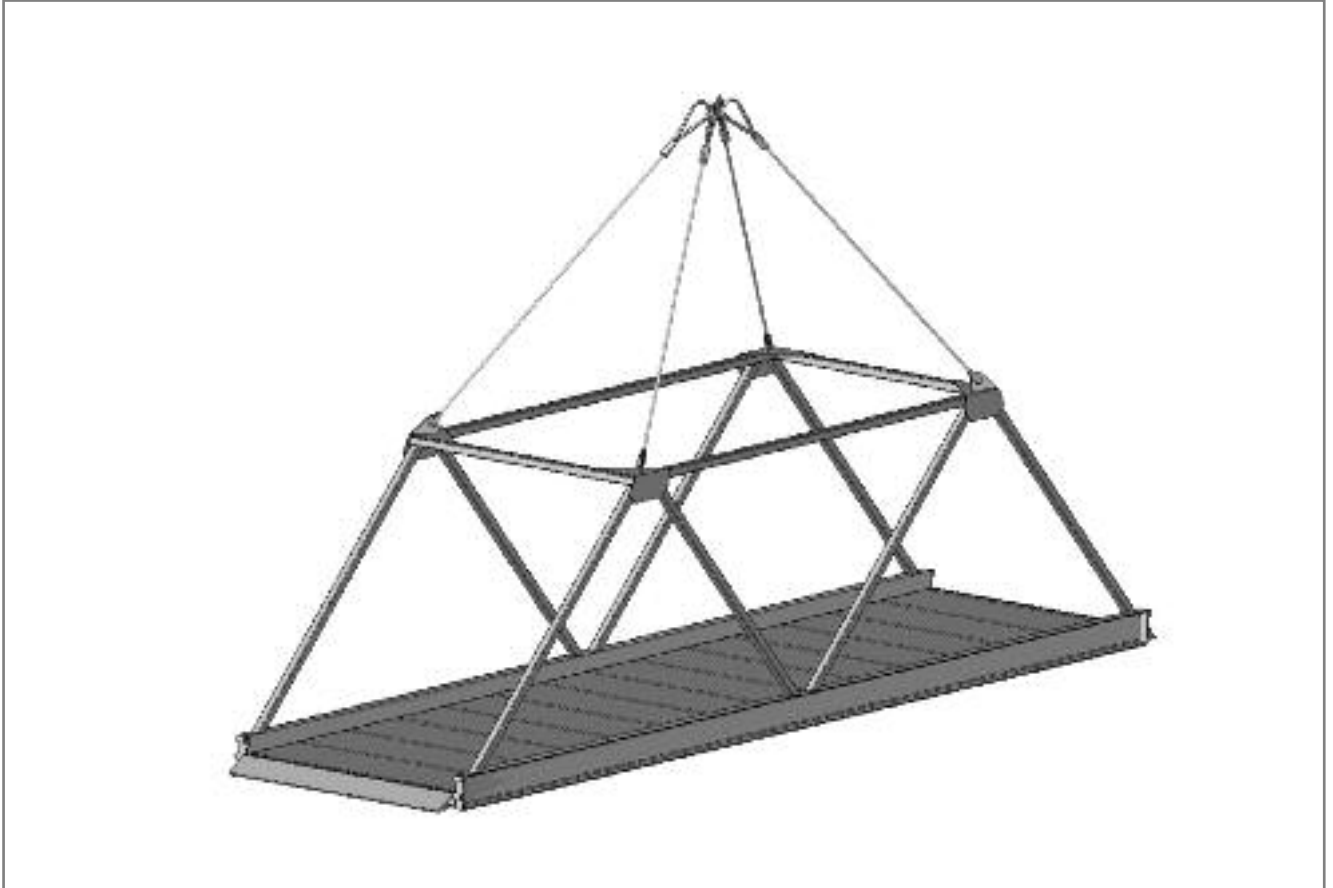
Ready to lift tow cars.
SWL = 6 Tons.
Special protections available.
Dimensions under customer request.



Non conventional Loads

4.7. Car & Truck Handling

EL-10: Car Lifter Type 3



Ready to lift tow cars or small trucks.

SWL = 10 Tons.

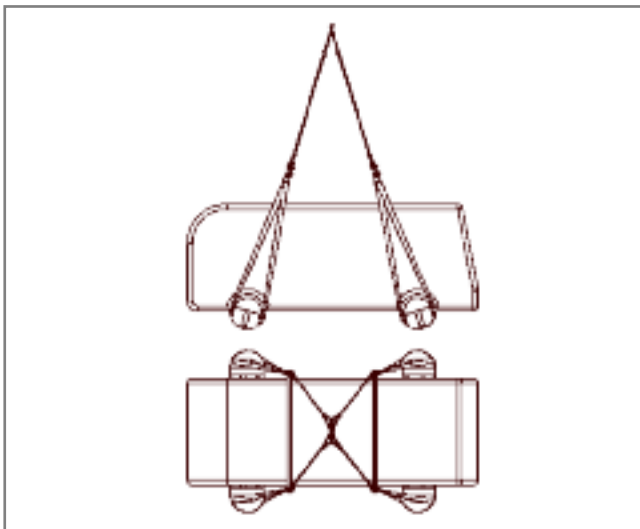
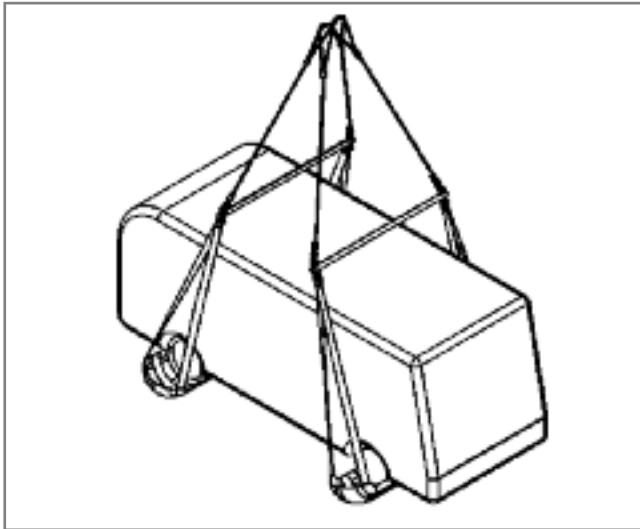
Dimensions under customer request.



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EL-11: Sling Bus & Truck Lifter

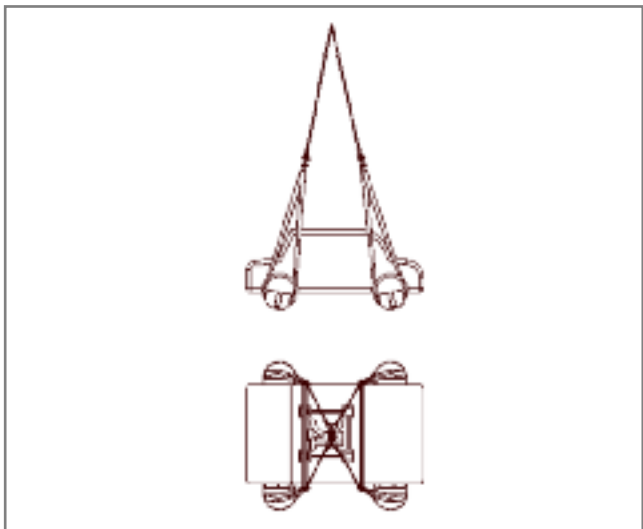
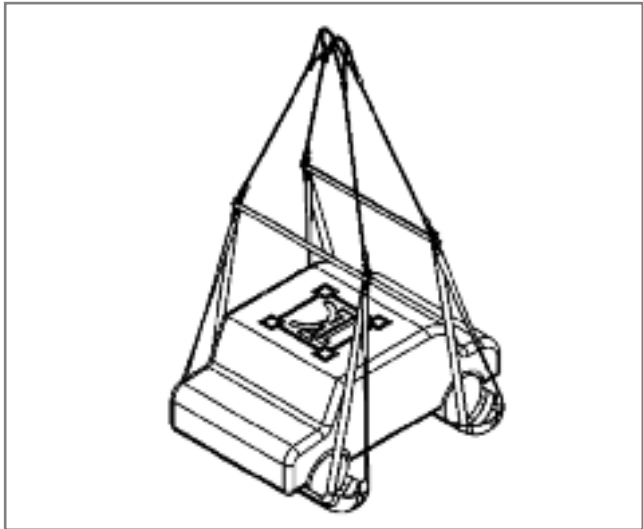


The cheapest solution to load & unload buses or trucks.

SWL = 20 Tons.

Dimensions under customer request.

EL-12: Sling car Lifter



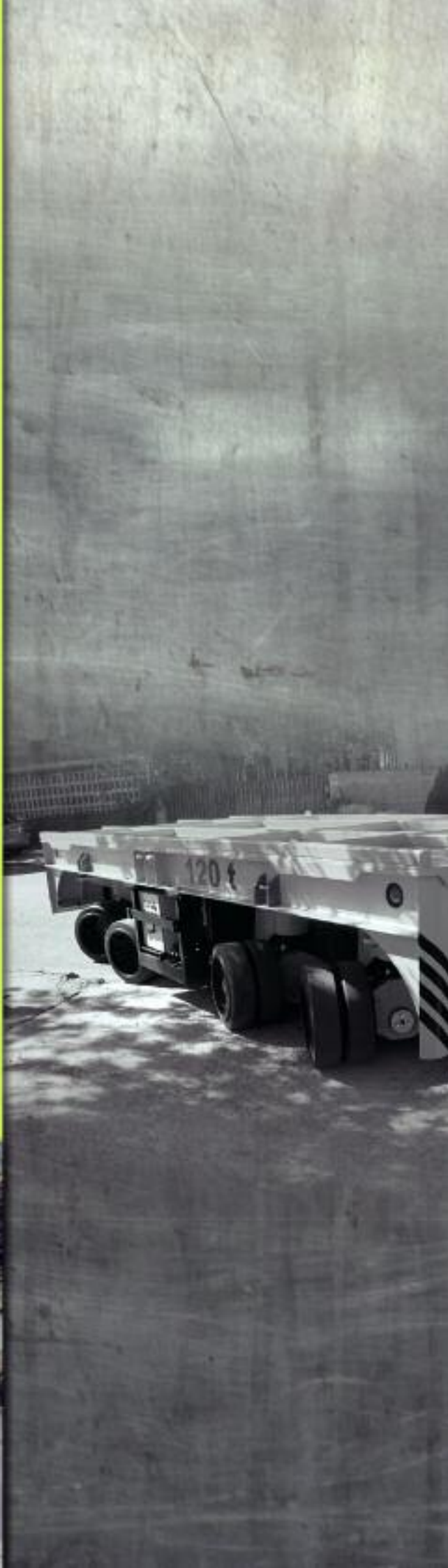
The cheapest solution to load & unload cars.

SWL = 4 Tons.

Dimensions under customer request.

Non conventional Loads

5

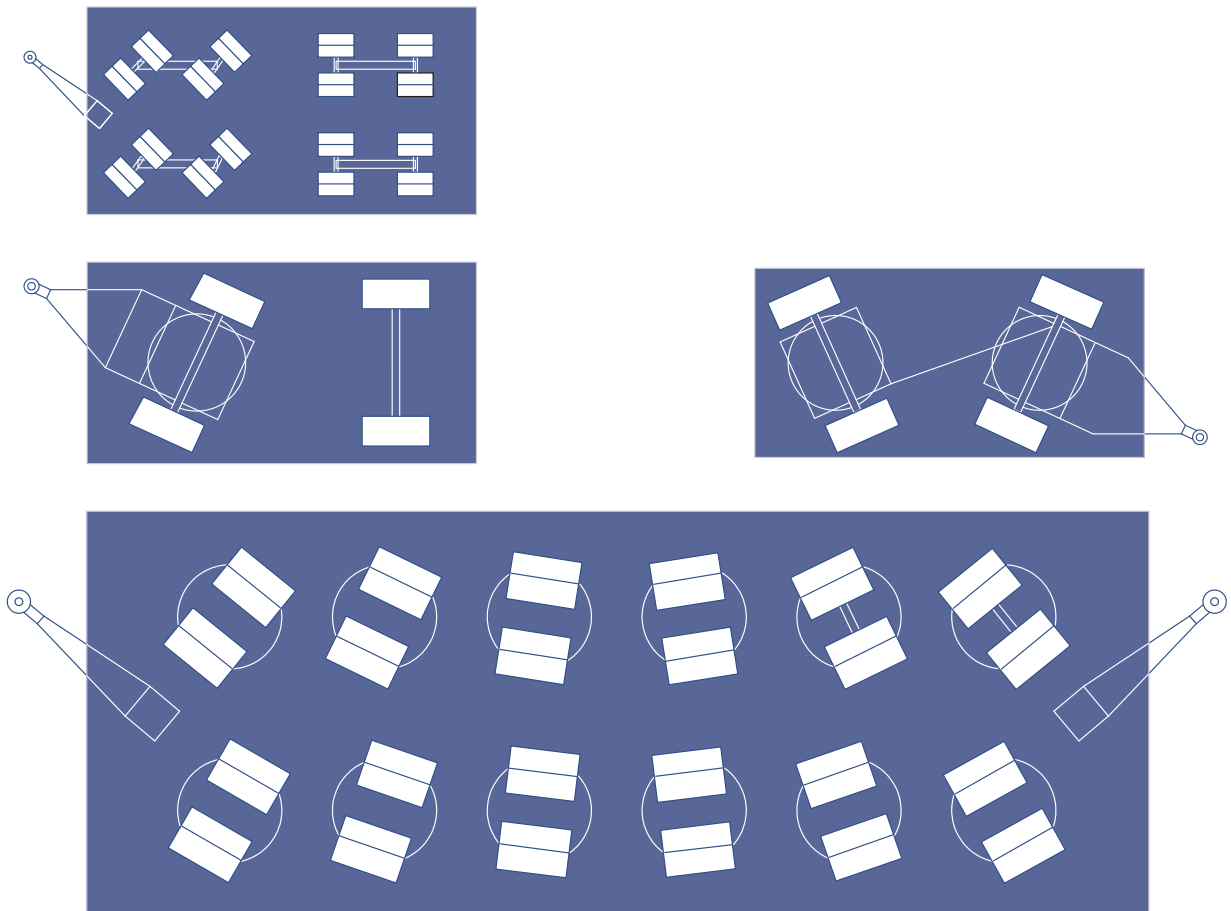




Other Ports & Terminal Equipment



5.1. Industrial Trailers



DTA industrial and heavy duty trailers for payloads up to 300 tons can be towed from either a tractor or forklift. We have different type of versions depending on the turn radius and load to move as per clients requirements.

Trailers can be made with turntable steering, axel pivot steering, etc. Our trailers are robust and requires very low maintenance.



5.2. Special Solutions



"The world is our business"



DTA is specialized on giving reliable and tailor made transport system solutions for handling "complicated" loads. The design of our vehicles are different for each application and are manufactured according to CE standards.

Among our special solutions, we have made autoclave AGV's, vehicles with hydraulic lifting by forklift or by 5th wheel tractor, vehicles operated by induction, heavy duty transporters for working in tandem. Also, we have supplied automatic vehicles on rails with the possibility of changing to a 90° rail track.



5.3. Heavy Duty Transporters



Heavy Duty Transporters are mainly used to solve manoeuvrability problems in tight spaces. Due to all possible steering programs, on either one or different axles, you can achieve tight turn radii. The propulsion can be either electric (for in-plant load transports) or diesel (for long distances). DTA vehicles comply with CO2 standards.

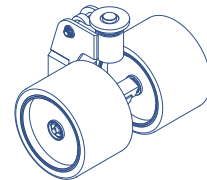
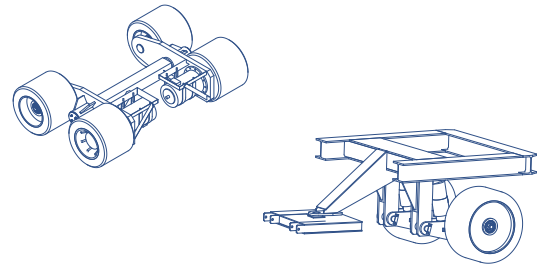
This type of transporters might have hydraulic elevation for palletized cargos in order to optimized space as much as possible.

Other advantages from heavy duty transporters are low noise level, maximum safety for operators and for material handled and are easy to operate.



5.4. Intelligent Solutions For Cargo Handling

"The world is our business"



DTA is the Spanish leading designer and manufacturer of industrial vehicles for in-plant transportation, with or without self propulsion.

Since 1972 our vehicles are used on all type of industry like shipyards, windmills, automotive, aerospace, steelmills, ports, concrete industry, etc.

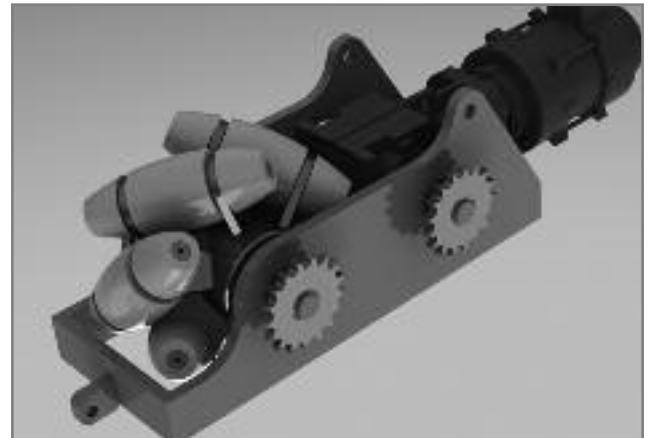
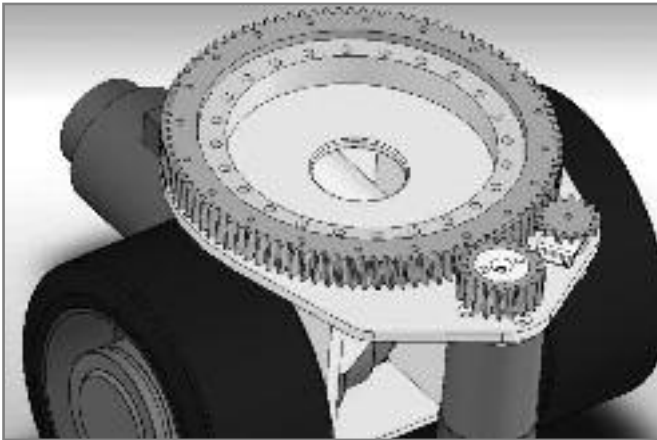
DTA employees very efficient engineers that use the best designing programs in order to meet all kind of customer requirements.

Due to our experience, we are able to offer our know-how to companies specialized in logistic services.

We propose you the best solution at the best price.



5.5. Rolltrailers





CONTAINER

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