
 ABB Oy, Product Support		Working Instructions		4FPS10000040199	
		Drives Module Lifter			
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TSD	25.11.2011	Tero Österlund	Juha Alamäki	E	1 (11)

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27.9.2011
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EC DECLARATION OF CONFORMITY
(Direktive 2006/42/EC, annex II a)

Manufacturer: ABB Oy, Product Support
P.O. Box 116
FI-00381 Helsinki, Finland

Person authorised to compile the technical file:
Tero Österlund
ABB Oy, Product Support
P.O. Box 116
FI-00381 Helsinki, Finland


We hereby declare that the
Drives Module Cart, Air cooled,
and
Drives Module Cart, Liquid cooled

Fulfils all of the relevant requirements of
Machinery Directive 2006/42/EC

Helsinki, 27.9.2011

Sari Huttunen
ABB Oy, Product Support

Insinööritoimisto Comatec Oy
www.comatec.fi
Y-029405920-0

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1. Manufacturer

Manufacturer of this equipment is:

ABB Oy, Product Support
 P.O. Box 116
 FI-00381 Helsinki, Finland


This is original working instructions document delivered by ABB Oy Product Support. It is delivered only in English language. In case translation into local language is needed, Local ABB organization needs to provide the translation, with a remark that it is translation from original English version.

2. Warnings:

- 2.1. Don't put your hands or feet under the platform.
- 2.2. All unconcerned people should be away from the truck for more than 600mm while the goods are in the course of transporting or lifting.
- 2.3. Do not move the stacker when the forks are lifting, do not move the stacker unless fork are lowered to a safety position when the stacker has been loaded, injury could happen if the goods fall down.
- 2.4. Do not put the foot in front of the swivel wheel, injury could happen when the goods lowering.
- 2.5. Don't overload
- 2.6. Pay your attention to the level of surface of the road while moving, in case the falling of goods.
- 2.7. Don't work on the slope.
- 2.8. Do not lift persons. People could fall down and suffer severe injury.

3. Caution:

- 3.1. Operator should read the instruction before using this truck to avoid any injury by wrong operation.
- 3.2. This platform stacker is used to lift or lower the ABB modules mentioned in this instruction, within its rated capacity, and may not be used as other function.
- 3.3. Do not operate it unless you are familiar with it and have been trained or authorized to do so
- 3.4. Don't lower the load at a fast speed, in case injury could happen.
- 3.5. Please pay more attention to the position of loads. When the goods are not steady, please stop working.
- 3.6. When the load is going to move the table or forks or fall down, please break the platform stacker immediately.
- 3.7. The weight of goods should be distributed on the two forks evenly, do not use one single fork. The centre of gravity of goods should be in the centre of two forks.
- 3.8. Do not load platform stacker with unstable, unbalanced loosely goods.
- 3.9. Practice maintenance work according to service instruction.
- 3.10. Do not modify or repair platform stacker and use safety stopper to prevent platform stacker from lowering when servicing it.
- 3.11. This truck is not designed to be water resistant. If not using, please put it under a dry condition and keep the forks in the lowest position.

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4. Daily inspection

Daily inspection is effective to find the malfunction or fault on platform stacker. Check platform stacker on the following points before operation.

- 4.1. Check if there is any scratch, bending or cracking on the platform stacker.
- 4.2. Check if there is any oil leakage from cylinder.
- 4.3. Check subsides of the stacker while it is lifted to the highest position.
- 4.4. check if the movement of the wheel is smooth
- 4.5. check the function of brake
- 4.6. Check if all the bolts, nuts are in use and tightened firmly

CAUTION: DO NOT use platform stacker if any malfunction or fault is found. Contact manufacturer immediately.

5. Operating

5.1 How to use brake

CAUTION

Always use Brake when not moving lifter in order to prevent injury


The brake is equipped on the left side of the swivel caster

1) To break it, press the pedal.

To release the brake, lift up the brake pedal.



Picture 1: Locations of lowering knob (uppermost), lifting pedal (middle) and brake pedals (lowest)

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5.2 Lifting the cart.

WARNING
DO NOT over load platform stacker. Stay within its rated capacity indicated on the lifter name plate. DO NOT side or end load. Load must be distributed on at least 80% of table area. If transport of stow the goods with forks, please take the table away from the forks.

Press the lifting pedal several times until the table reaches the desired position. The table does not elevate after reaching the highest position even the pedal is pressed. The platform stacker could lower slightly after reaching the highest position.

See picture 1 for location details of lifting pedal.

5.3. Lowering the cart

WARNING
Don't put any part of the body under the platform or forks.

Turn the knob counter-clockwise then the platform stacker will decrease.

See picture 1 for location details of brake pedals.

5.4 Selecting / adjusting lifter connectors, attaching parts to the lifter cart

Select a suitable lifter connector and attach it firmly to the cabinet with all delivered bolts.

When attaching ramp to the lifter cart (air cooled module) or lifter cart to lifter connection, make sure that parts are properly fixed by metal plate hooks positioned in the counterpart slots. Check ACS800 stickers (located on module front plate), how to move module on the ramp. Always prevent module from rolling down the ramp without control.

6. Specification


Capacity(KG)	Dimensions: L*W*H(mm)	Fork height(mm) Min / Max	Rear roller(mm)	Front roller(mm)	Weight (Kg)
320	1002*765*1075	85-850	Ø 127	Ø 75	Air cooled: ~145kg incl. ramp Liquid cooled: ~130kg

7. Maintenance

Execute maintenance without load on lifter.

7.1. Lubricate each point described below every month

7.2. Change hydraulic oil every 12 month. Take care of waste oil disposal according to country specific regulations

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Points of Lubrication

- 1) Axle and bearing of wheel-----grease
- 2) Link and axles-----grease
- 3) The point where the foot pedal linked to the truck-----grease
- 4) Chain roller-----grease
- 5) Grease nipple-----grease

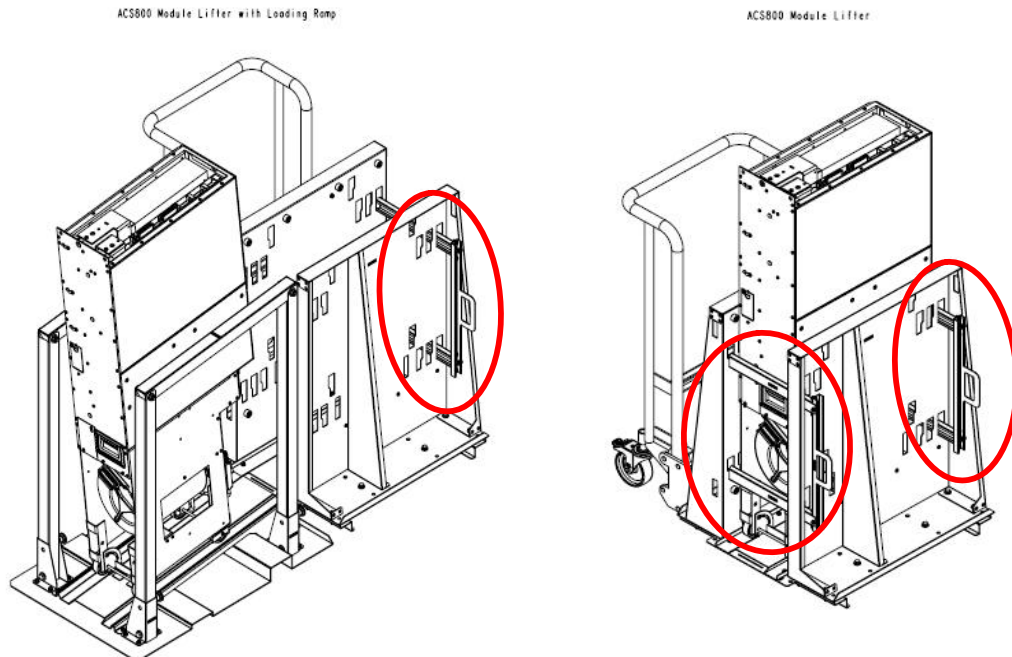
8. Module lifter for air cooled module ACS800-104 (R8i)

In air cooled module lifter, there are following parts in the delivery:

1. Lifter cart with module unit (bottom plate fit for wheel equipped air cooled module)
2. Lifter ramp
3. Three types of lifter connectors to be installed between module lifter and cabinet
 - a. Lifter connector for R8i INU in MD-cabinet
 - b. Lifter connector for ALCL-filter in MD-cabinet
 - c. Lifter connector for AB-S-cabinet

Select a suitable lifter connector and attach it firmly to the cabinet with all delivered bolts.

When attaching ramp to the lifter cart or lifter cart to lifter connection, make sure that parts are properly fixed by metal plate hooks positioned in the counterpart slots.



Picture 2: Module stopper bars have to be used like show'n above



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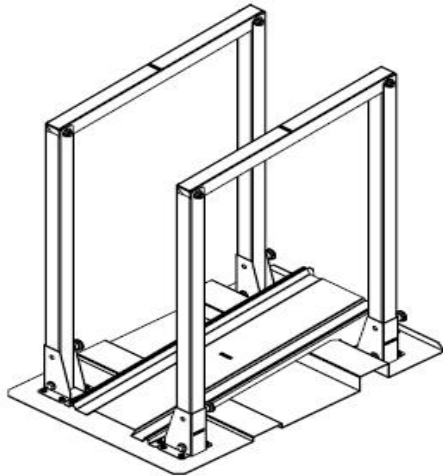
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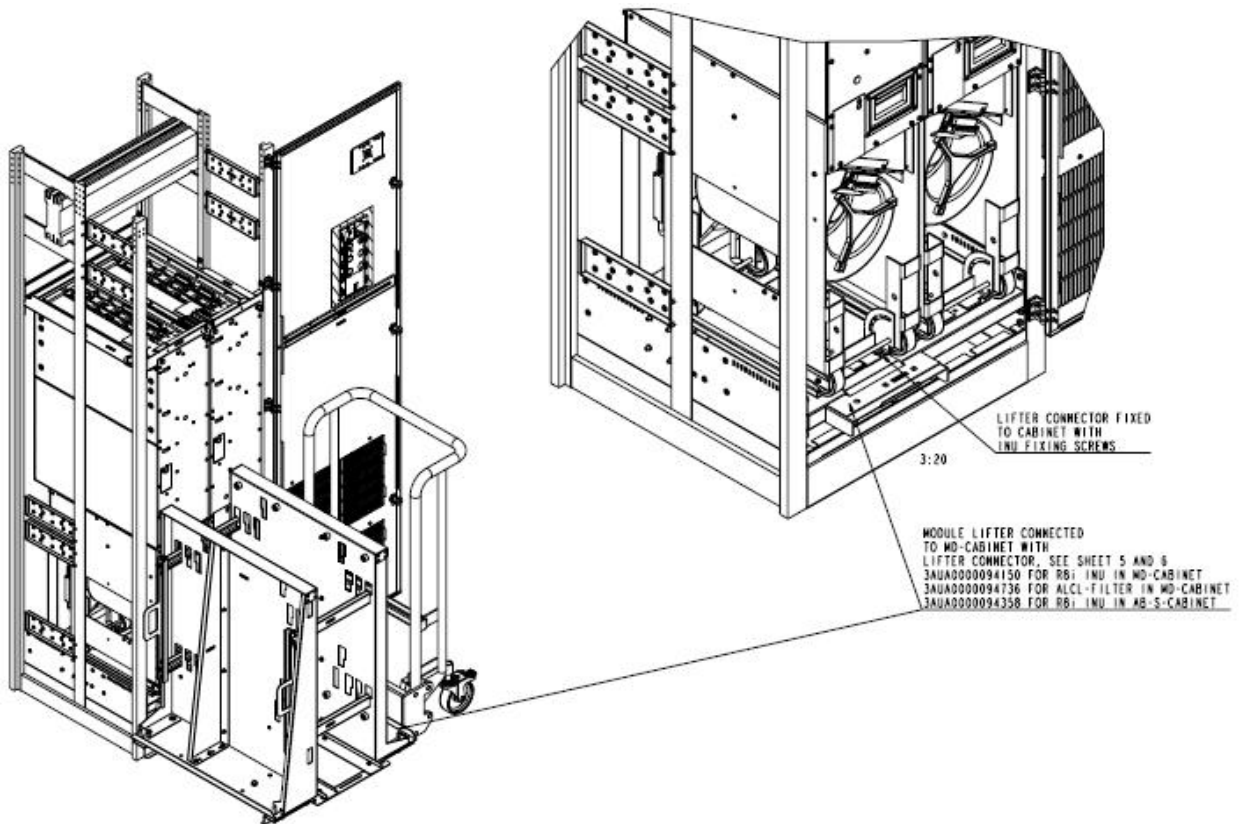
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Lifter Loading Ramp



Picture 3:

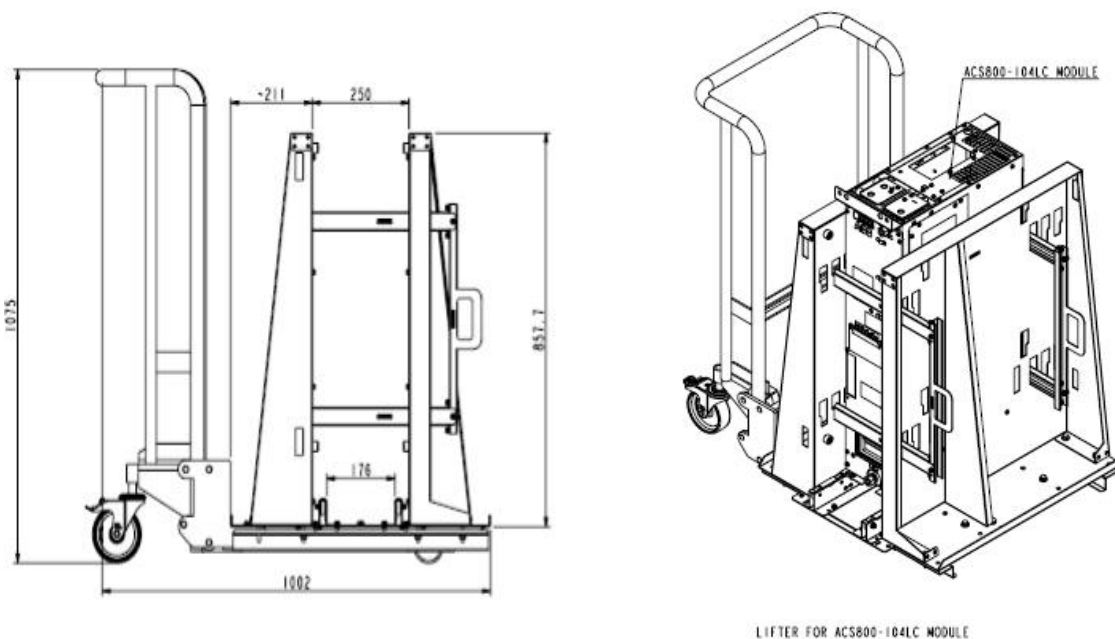
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9. Module lifter for Liquid Cooled modules


In Liquid cooled module lifter delivery, there are parts for both ACS800-104LC (INU) and ACS800-704LC (DSU) use:

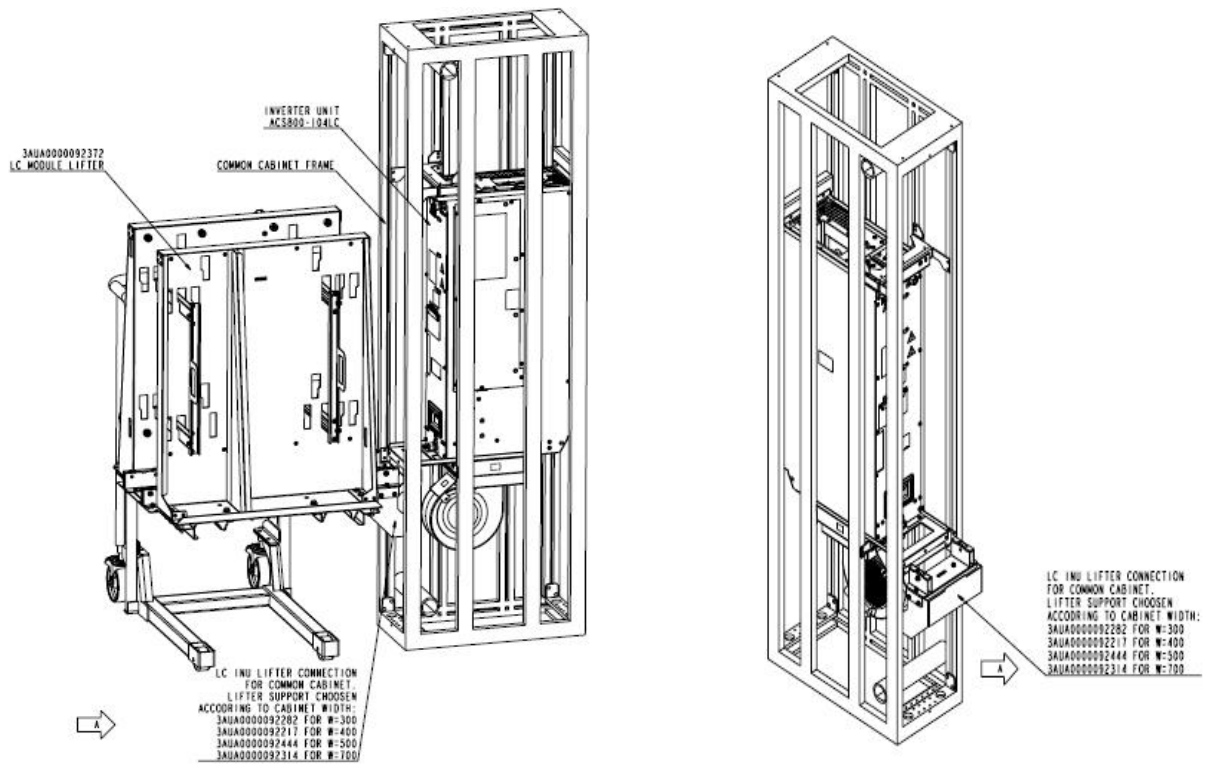
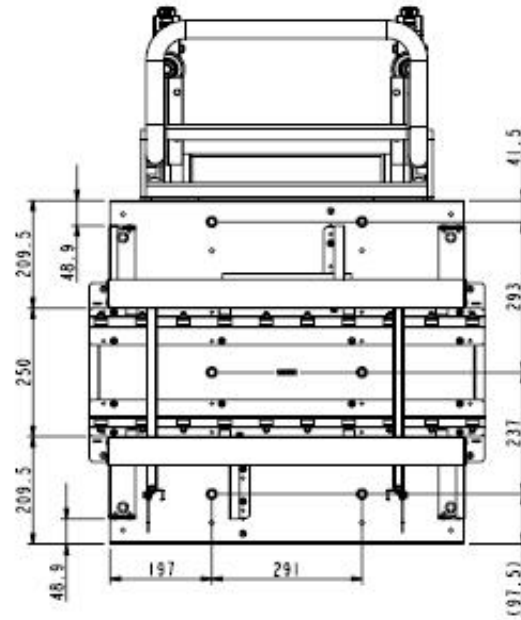
1. Lifter cart with module unit fits both ACS800-104LC and ACS800-704LC use. Width of module support plates and roller conveyor can be adjusted according to module in question.
2. Two different lifter connectors to be installed between module lifter and cabinet.
 - a. Lifter connector delivery for ACS800-104LC contains one set of bearing support unit to be installed on suitable lifter connector (frame widths 300mm, 400mm, 500mm and 700mm). Placement of the bearing support unit on 500mm/ 700mm frame units can be adjusted according to needs (see pictures further in the document)
 - b. Lifter connector for ACS800-704LC (including bearing unit).

9.1. Module lifter for ACS800-104LC (R8i)



Picture 4: Module lifter for ACS800-104LC

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Picture 5:



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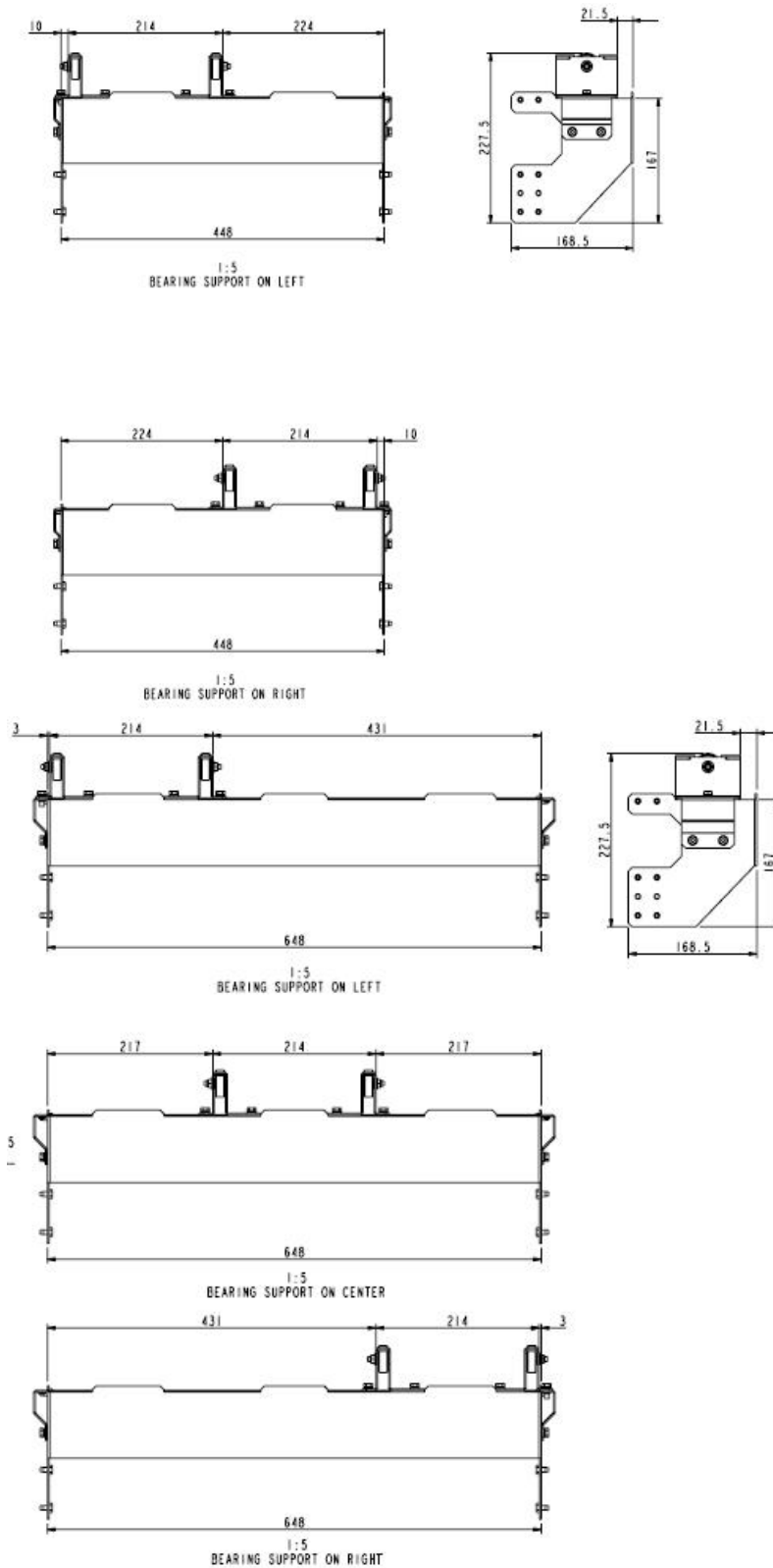
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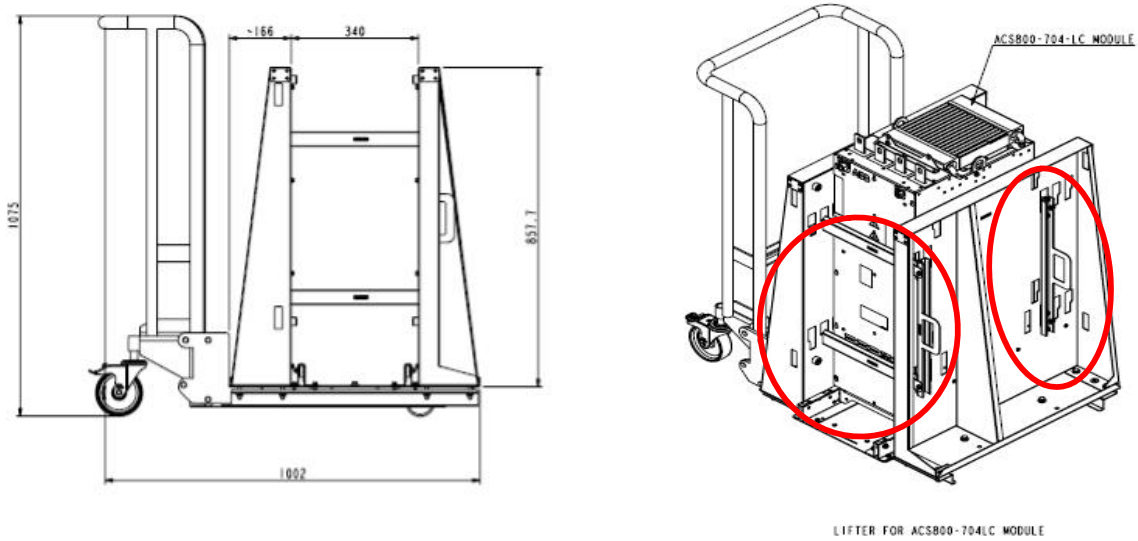
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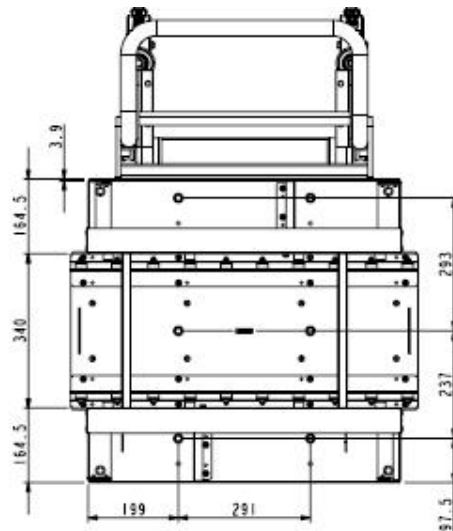
Picture 6: Bearing support unit placement options on different connection units

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9.2. Module lifter for ACS800-704LC



Picture 7: Module stopper bars have to be used like show'n above. Especially when transport



Picture 8:



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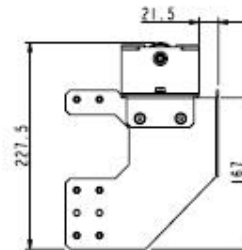
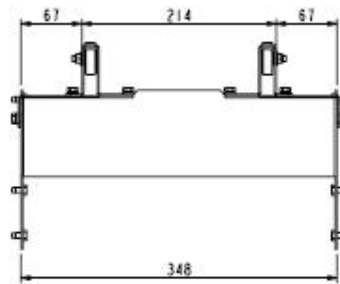
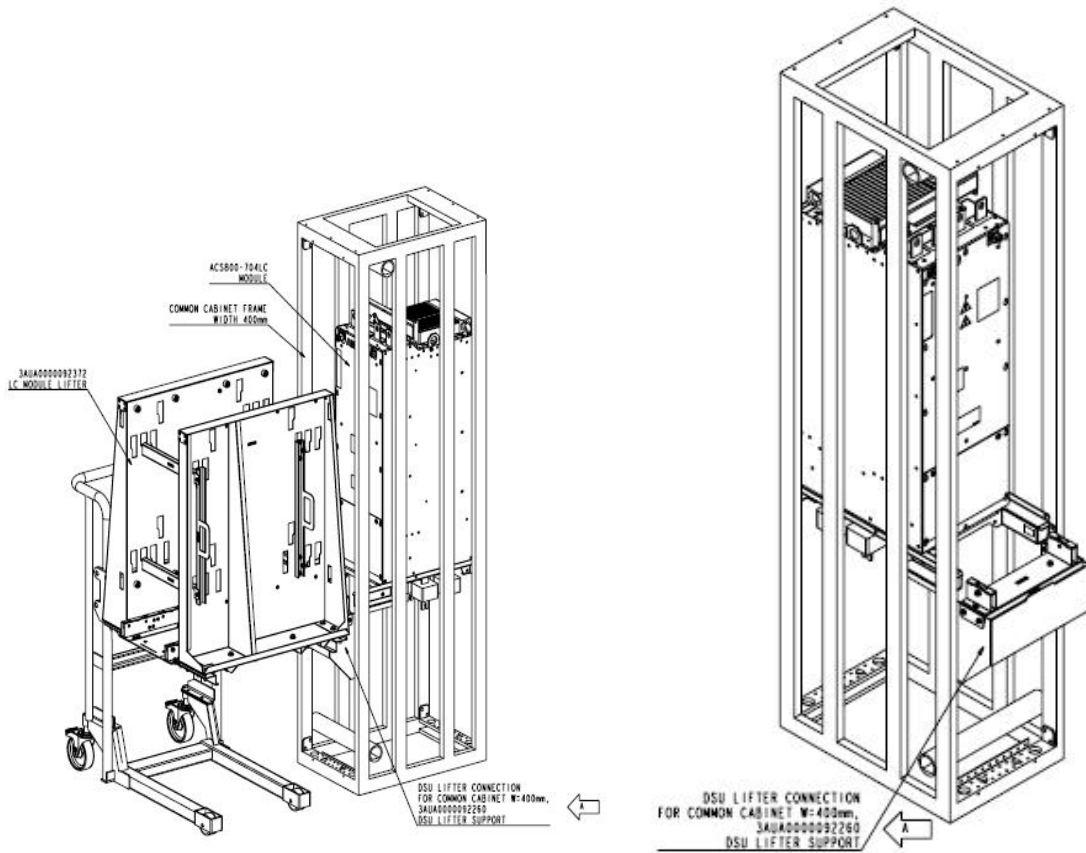
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Picture : Connection unit for DSU