

# 2

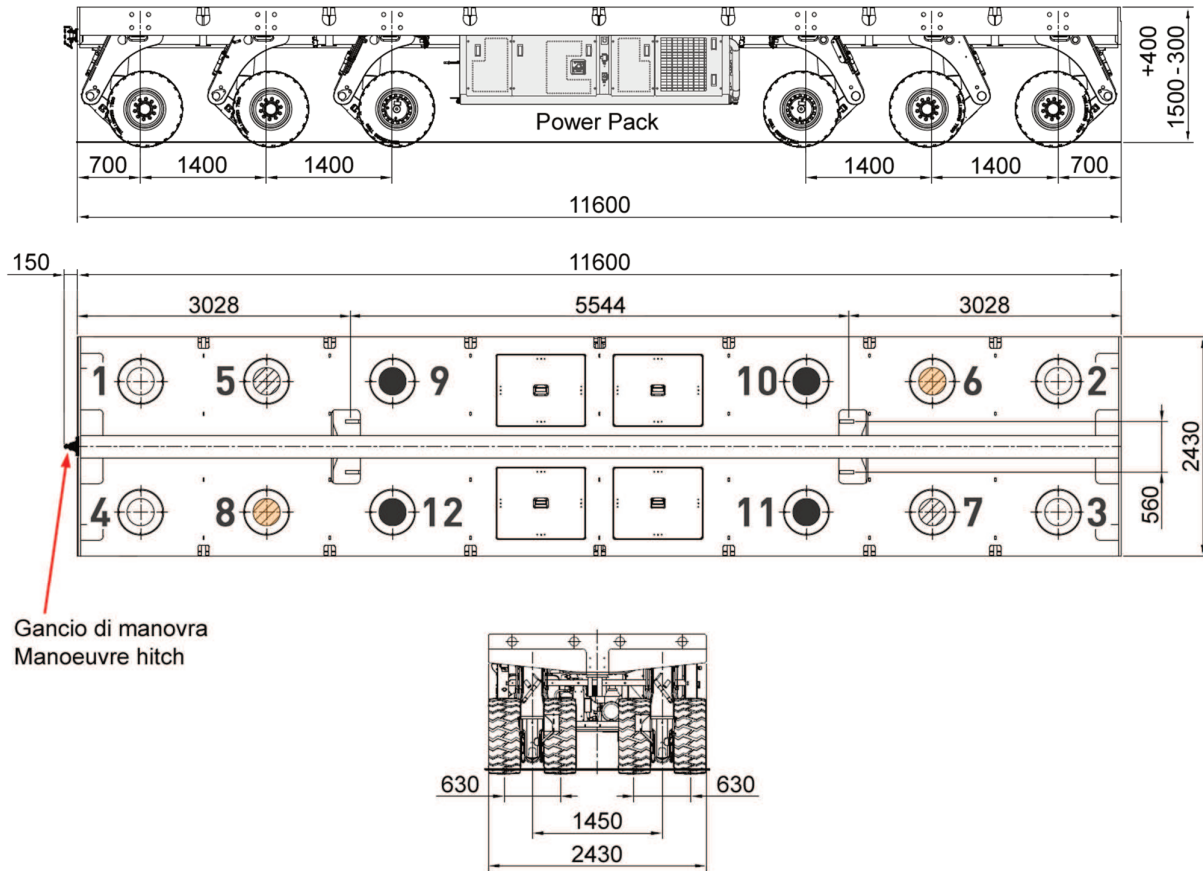
## TECHNICAL DATA

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**2.1. ASSEMBLY DRAWINGS**


**ECO1000 6/4 (6 axle lines/4 motorized suspensions) – quotations in millimeters**




Gancio di manovra  
 Manoeuvre hitch

-  BRAKED SUSPENSIONS


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-  BRAKED SUSPENSIONS WITH SPEED SENSOR

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-  UNBRAKED SUSPENSIONS

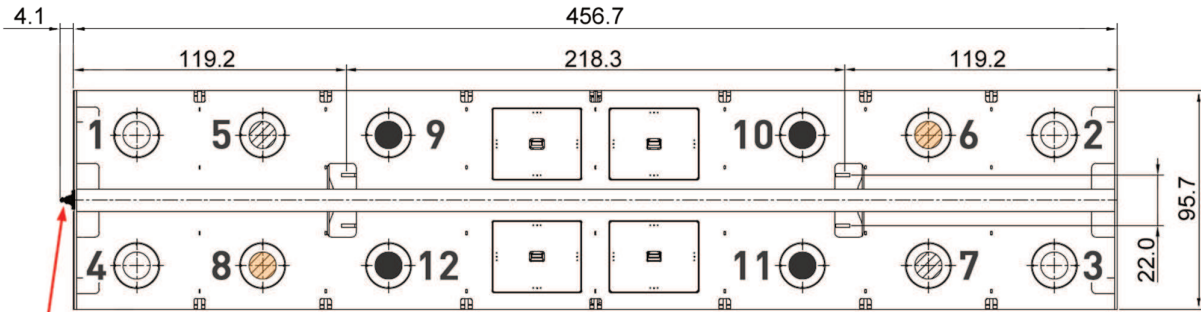
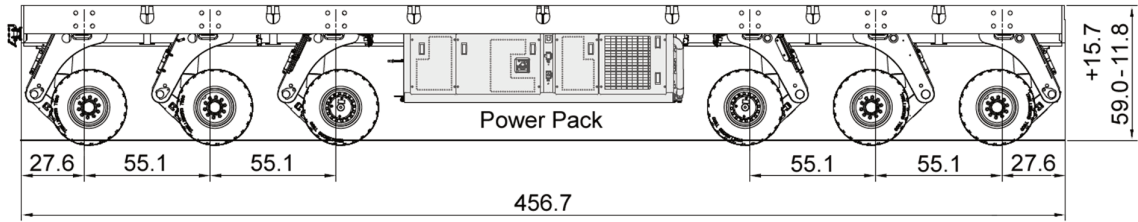
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-  MOTORIZED SUSPENSIONS

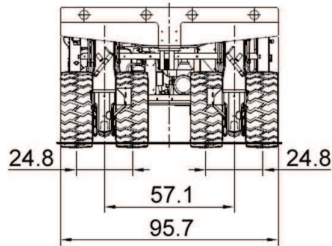
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**ECO1000 6/4 (6 axle lines/4 motorized suspensions) – quotations in inches**



Gancio di manovra  
Manoeuvre hitch



-  BRAKED SUSPENSIONS
-  BRAKED SUSPENSIONS WITH SPEED SENSOR
-  UNBRAKED SUSPENSIONS
-  MOTORIZED SUSPENSIONS

## 2.2. TECHNICAL DATA

### 2.2.1 ECO1000 6/4



SIZE	
Total length	11600 mm – 456.7 in
Total length with manoeuvre hook	11750 mm – 462.6 in
Total width	2430 mm – 95.7 in
Minimum height	1200 mm – 47.2 in (load) 1240 mm – 48.8 in (no load)
Operating height	1500 mm – 59.0 in (load) 1540 mm – 60.6 in (no load)
Maximum height	1900 mm – 74.8 in (load) 1940 mm – 76.4 in (no load)
Total suspension travel	<div style="text-align: center;"> <math display="block">\begin{matrix} +400 &amp; &amp; +15.7 \\ 700 &amp; - &amp; 27.6 \\ -300 &amp; &amp; -11.8 \end{matrix}</math> </div> <p><b>! ATTENTION</b>  <i>The total stroke of the suspensions is:</i>  <b>700 mm – 27.6 in</b></p> <p><i>For better use of the vehicle, consider a usable suspension stroke of:</i></p> <div style="text-align: center;"> <math display="block">\begin{matrix} +350 &amp; &amp; +13.8 \\ 600 &amp; - &amp; 23.6 \\ -250 &amp; &amp; -9.8 \end{matrix}</math> </div>
Step	1400 mm – 55.1 in
Suspensions interaxle spacing	1450 mm – 57.1 in
SPEED / WEIGHTS	
Speed	0,5 km/h – 0.31 mph      3 km/h – 1.86 mph
Axle load (2 suspensions)	48000 kg – 105821.9 lb      42800 kg – 94357.8 lb
Total mass	288000 kg – 634931.3 lb      256800 kg – 634931.3 lb
Total dead weight	24000 kg – 52910.9 lb
Useful capacity	264000 kg – 582020.4 lb      232800 kg – 513236.1 lb
SUSPENSIONS	
Number of axle lines	6 (12 suspensions)
Number of motorized suspensions	4
Number of braked suspensions	4
of which with speed sensor	2
Number of idle suspensions	4

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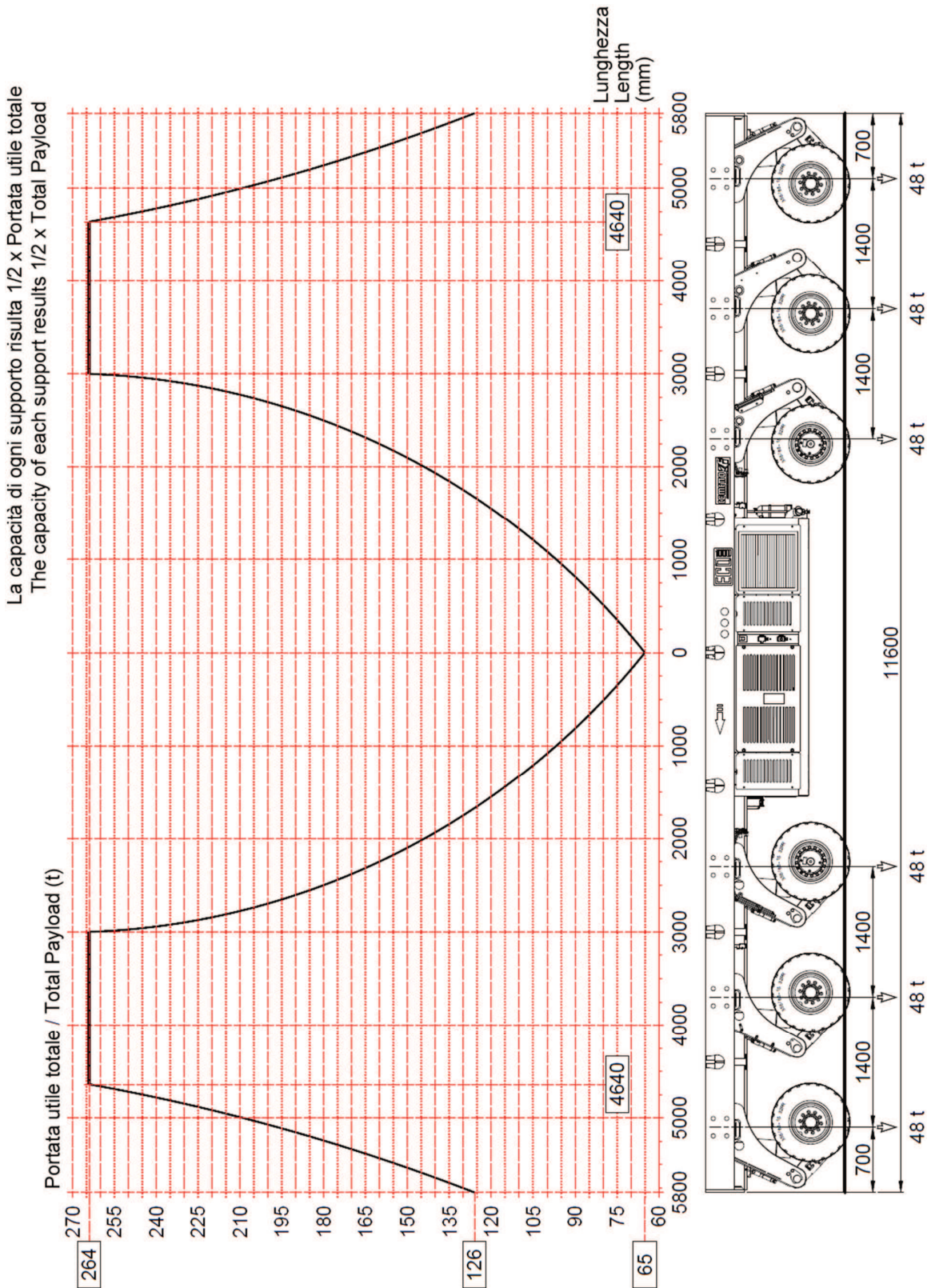
<b>WHEEL MOTOR (108.0313)</b>		
Wheel gear	BREVINI CWD2150/42.4	
Wheel gear motor	BREVINI SH7VR55	
Number of wheel gears	8	
Number of wheel gear motors	8	
Maximum input speed	3500 rpm	
Gear ratio	42,4	
Maximum output torque	18000 Nm – 159314.4 lbf in	
Weight without oil	127 kg – 280 lb	
Type of oil	MOBIL SHC™ GEAR 220 → Cometto code 277.0075	
Quantity of oil for wheel gear	1,8 l – 0.47 gal	
<b>ROTATION UNIT</b>		
Rotation unit (right)	IMO WD-LC 0485/3-10596 → Cometto code 141.0124.01	Q.ty 6
Rotation unit (left)	IMO WD-LC 0485/3-10597 → Cometto code 141.0125.01	Q.ty 6
Engine	HR 160 S A2 SE320 M09 N XXXX 000 XX XX KWK 01 → Cometto code 108.0271.01	Q.ty 12
<b>TYRES</b>		
Type	TRELLEBORG T900 355/65 – 15” 32PR	
Number of tyres	24	
<b>RIMS</b>		
Braked axle	COMETTO 9.75 x 15” displaced 25 – DIN connection 10 holes → Cometto code 054.0273	
Idle axle	COMETTO 9.75 x 15” displaced 25 – DIN connection 10 holes → Cometto code 054.0273	
Number of rims	16	
Motorized axle	COMETTO 9.75 x 15” displaced 45 – Connection 16 holes → Cometto code 054.0274	
Number of rims	8	
Total number of rims	24	

## 2.2.2 Power pack unit

<b>DIESEL ENGINE (110.0267)</b>			
Type	DEUTZ TCD 3.6 L4		
Conformity to emission standards	EU Stage IV & V (with exhaust after-treatment) / US EPA Tier 4F		
Number of cylinders	4 in-line		
Bore / stroke	98 / 120 mm – 3.86 / 4.72 in		
Displacement	3,6 l – 219.68 in <sup>3</sup>		
Maximum power	100 kW – 134.10 HP		
Maximum torque	500 Nm – 4425.40 lb <sub>r</sub> in @ 1600 rpm		
Voltage	24 V		
Engine control unit voltage (ECM)	24 V		
Type of oil	SHELL RIMULA R4 L 15W-40 → Cometto code 277.0094 The type and quality of the oil must comply with the specifications in the engine manufacturer's manual. 		
Quantity of motor oil	≈ 9 l – ≈ 2.4 Gal (in any case, refer to the level indicated by the oil dipstick)		
Weight without oil, coolant and alternator	350 kg – 771.6 lb		
Diesel tank capacity	100 l – 26.42 gal		
AdBlue® tank capacity	19 l – 5.02 gal		
AdBlue® Additive	The type and quality of the additive must comply with the specifications in the engine manufacturer's manual. 		
<b>HYDRAULIC SYSTEM (358.2917.01)</b>			
Pumps – Function	cm <sup>3</sup> – in <sup>3</sup>	Type	Q.ty
Motorization pump	75 – 4.58	LINDE HPV02-A2-075R → Cometto code 126.0707	1
Lifting and Steering Pump	55 – 3.36	LINDE HPR02-A2-055R → Cometto code 126.0708	1
Wheel motor supercharger pump and motorization pump	22 – 1.34	LINDE (mounted at the end of the lifting and steering pump)	1
Radiator oil circulation pump	22 – 1.34		1
<b>Hydraulic oil</b>			
Type	AGIP ARNICA 46 (ISO VG 46) → Cometto code 277.0065		
Oil tank capacity	175 l – 46.23 gal		

**2.3. LOAD DIAGRAMS ON TWO SUPPORTS**

**ECO1000 6/4 (millimeters – tons)**

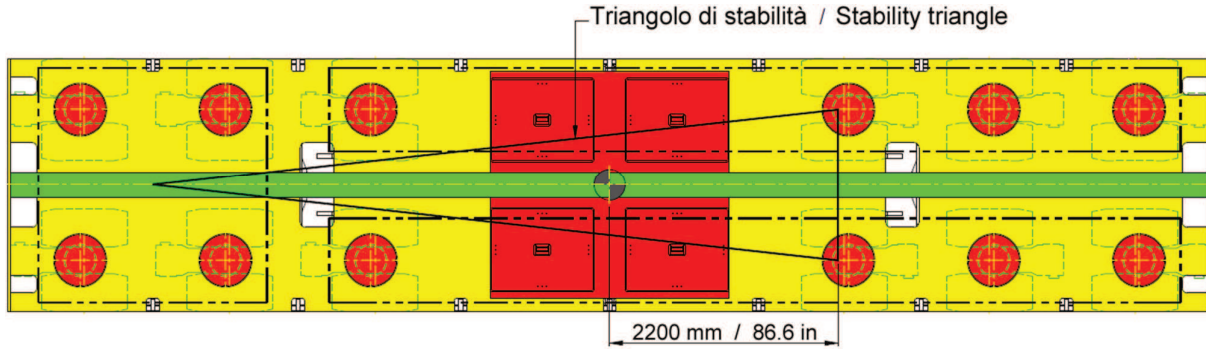



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**2.4. LOADING AREAS ON THE VEHICLE**

**ECO1000 6/4**

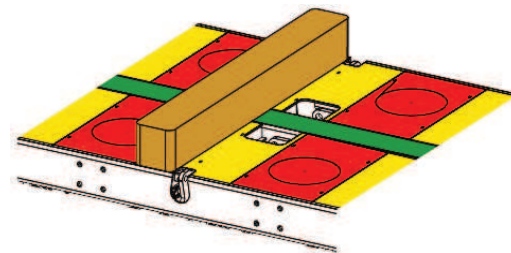


	Main loading area.
	Area suitable to support the load.
	Area not suitable to support the load.
	Hydraulic point (see paragraph 10.7). 

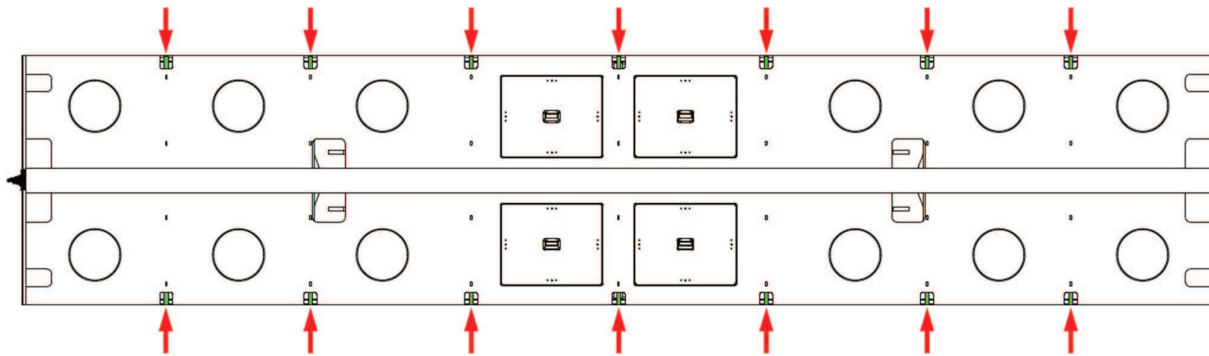
The load supports must always touch the main loading area (green area).

Minimum dimensions of load supports:

ECO1000 6/4	300 x 300 x 60	mm
	11.81 x 11.81 x 2.36	in



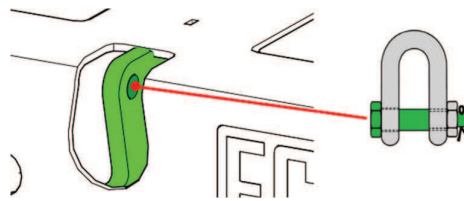
### 2.4.1 Securing the load



#### Securing points

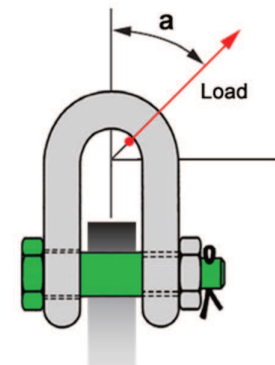
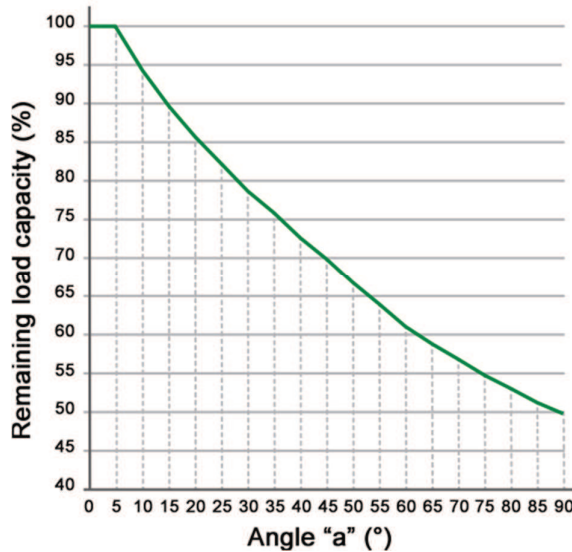
The vehicle chassis is equipped with multiple load securing points on the left and right sides:

Each securing point is equipped with an eye for attaching one of the shackles supplied. The shackle load capacity indicated (**WLL**) is the maximum load capacity valid only in the condition of application in the axial direction of the load, i.e. perpendicular to the green pin. Deviating from this condition, the maximum capacity decreases as shown in the diagram.



Shackle **FAS G4153L-UD**  
→ Cometto code 907.0046.

<b>WLL</b>	9,5 t
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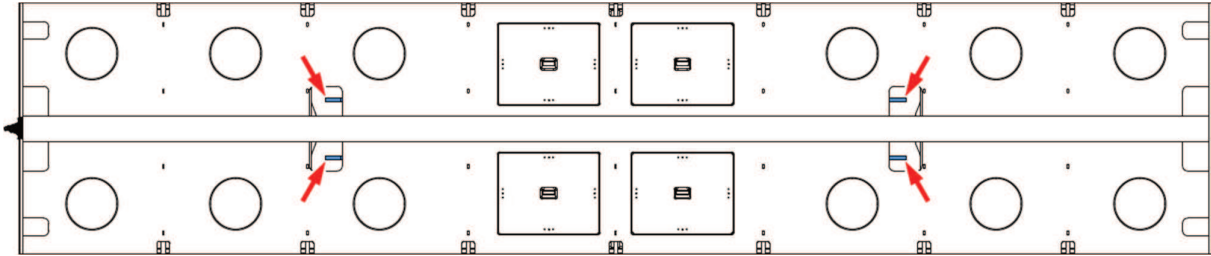
**WARNING**

Please refer to the technical data sheet of the shackles supplied for all information on the correct use of the devices. The sheet is available in .pdf format in the "Attachments" folder in the attached digital documentation.



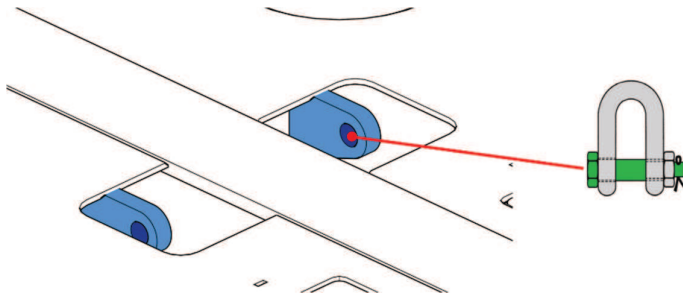
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**Securing points**

In addition, the four lifting points of the vehicle can also be used for load securing: The lifting points are also equipped with an eye the shackles supplied can be attached to.



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