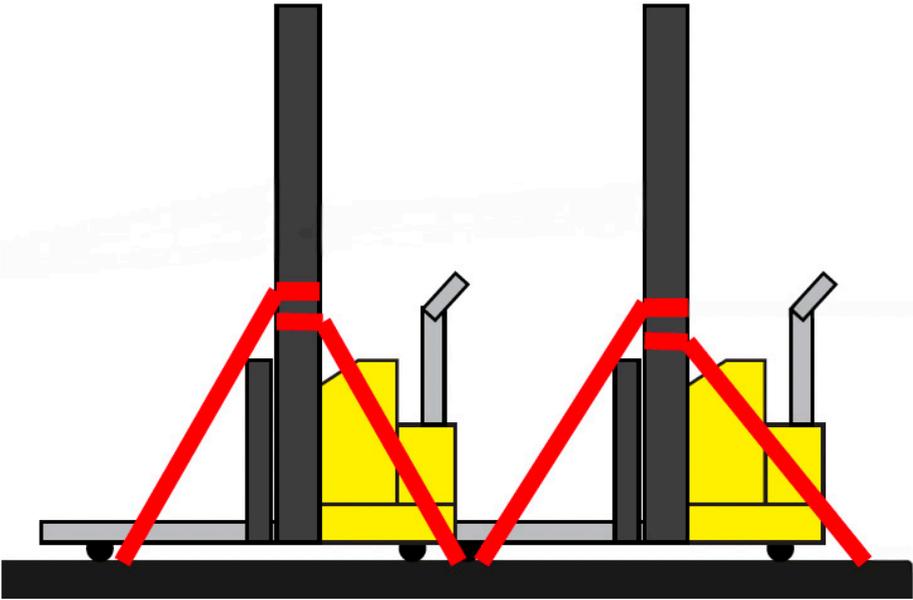


# Appendix 3

Load Restraint Guide  
Australia

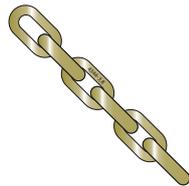


**This guideline:**

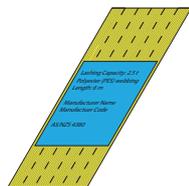
- Applies to the variety of forklifts outlined within this guideline.
- Is the loader and driver guide to the certification E01711-LRC1 to meet the loading *Performance Standards* contained within the *Heavy Vehicle (Mass, Dimension and Loading) National Regulation (22 February 2021)*.

**Key Elements**

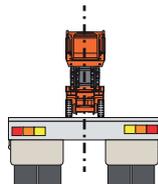
- ✓ Minimum 8 mm transport chains tensioned tight by standard load binder.



- ✓ Minimum 50 mm Webbing lashing tensioned tight by standard tensioner.

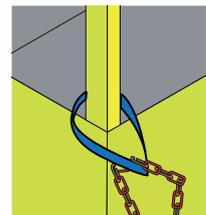


- ✓ Single file equipment must be loaded centrally across the trailer deck.

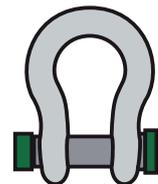


- ✓ Lashings are to be installed in either a single chain or looped chain arrangement depending on restraint system.

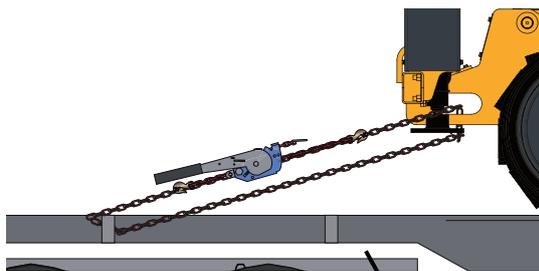
- ✓ Apply suitable and correctly sized lifting slings around anchor points where chains might damage area. Lifting slings must have at least a 1.5t rating for single chain arrangement and 3t for looped chain.



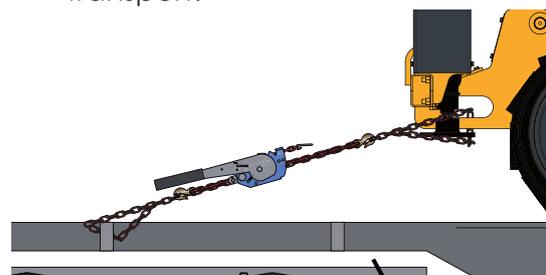
- ✓ Ensure shackles have the minimum rating required for each system as stated.



- ✓ Ensure locking pins are installed to prevent any movement during transport.



Looped Chain Arrangement



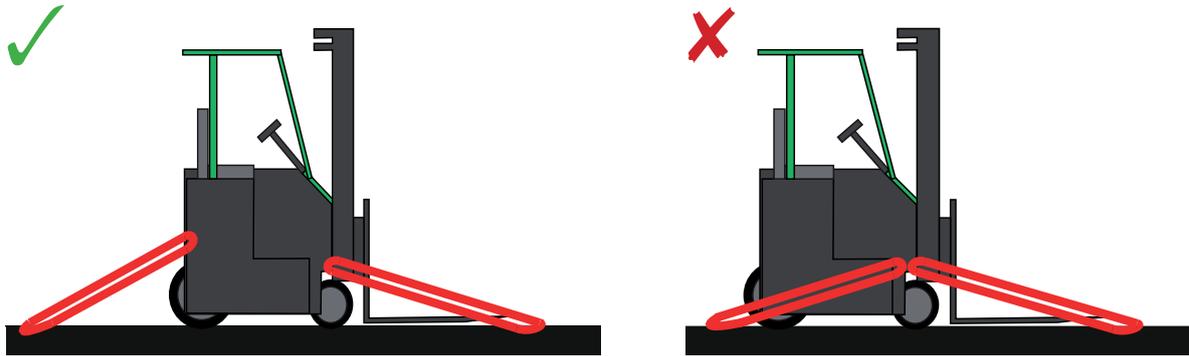
Single Chain Arrangement

- ✓ Any looped chain greater than 8mm will require rated lashing points on the vehicle.

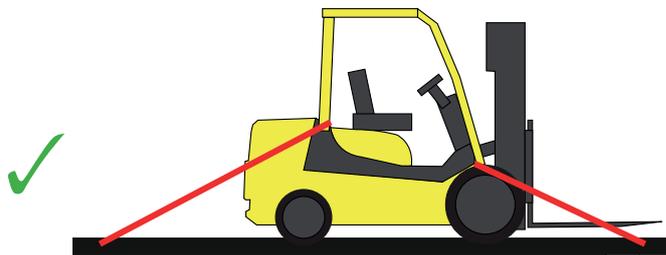
- ✓ Lashing protection may be required to prevent damage to the plant when using chain.

This document is provided for guidance only. Engistics has developed this guideline to comply with the relevant standards and legislation, however it remains the responsibility of the user to ensure that the methods used are adequate for a particular situation. Additional requirements may be necessary under some conditions. Engistics makes no warranty as to the use of this guideline in all circumstances. The information contained in this guideline is confidential to and remains the property of Adaptalift Group Pty Ltd and Engistics Pty Ltd. Any changes to this guideline must be approved by Engistics.

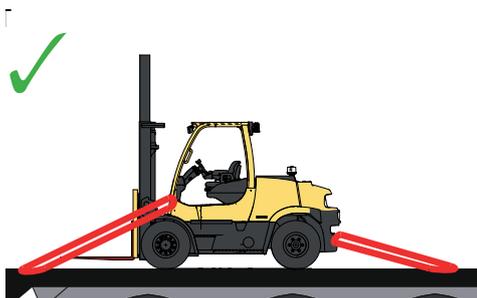
Key Elements (continued)



Attach two chains to the rear and two chains to the front of the forklift.

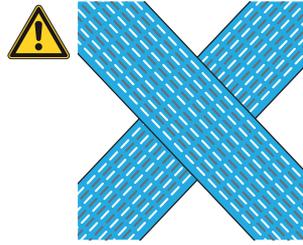


Plant can be loaded with the tynes facing towards or away from the prime mover.

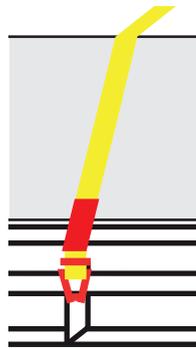


The restraint systems in this guideline applies to both diesel and electric forklifts provided the nominated mass limits can be met.

Key Elements (continued)



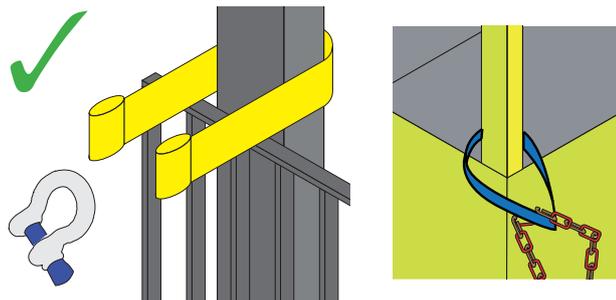
To prevent abrasion ensure webbing straps do not rub together



✓ When using webbing straps, ensure wear sleeves are placed over the coaming rail

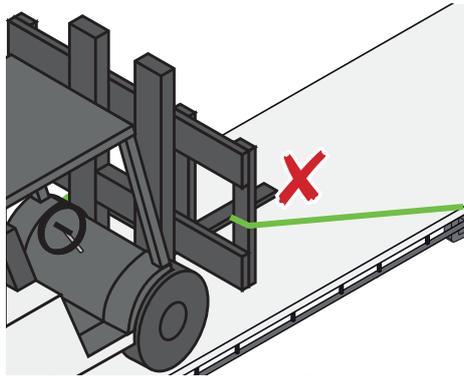


Do not loop attach the hook and keeper to the webbing strap

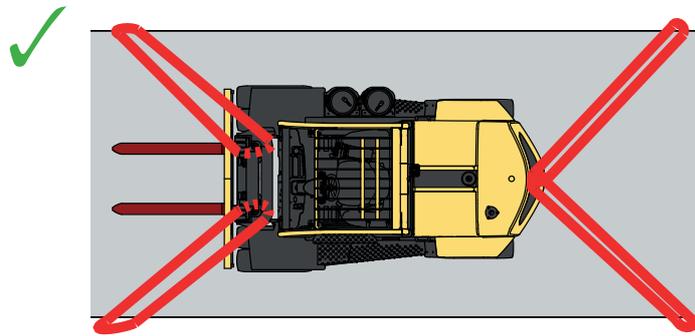


✓ Use a lifting sling and shackle if attaching a chain to a mast or ROPs.

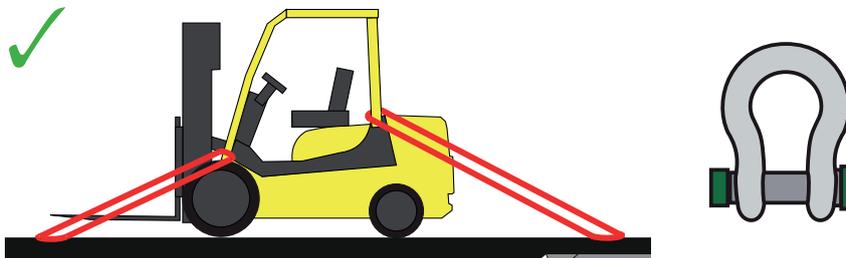
### Lashing Point Requirements



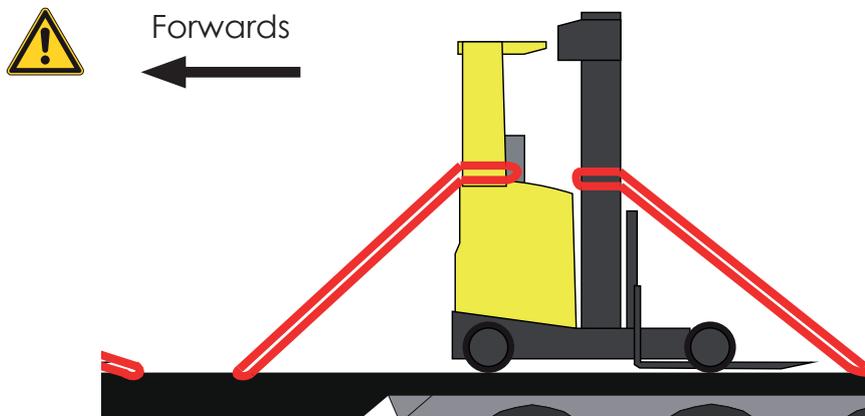
Do not use load guards as lashing points as this could damage sensitive hydraulic components which are not designed to be loaded perpendicular to the plant lifting direction.



Up to 2 looped chains can be attached to forklift tow points.



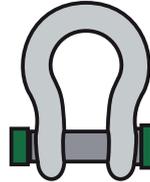
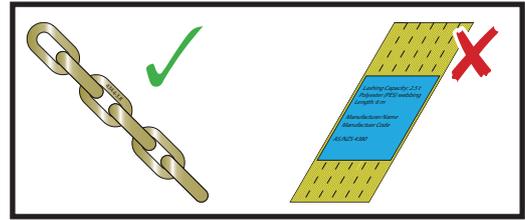
Dedicated lashing points, axles and forklift ROPs are suitable lashing points.



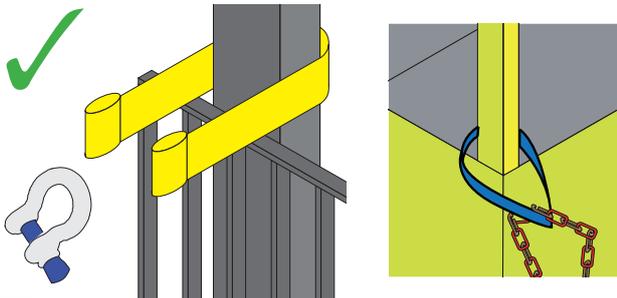
Masts can only be used for lashing points on forklifts under 5,000kg with their tynes facing towards the prime mover.

**Standard Forklift - Hyster H1.5XT to H3.5XT and H1.5FT to H3.5FT**

- ✓ Maximum mass of up to 4,800kg.
- ✓ Minimum 8 mm transport chains tensioned tight by standard load binder.
- ✓ Ensure shackles have a minimum W.L.L of 5.0 t and are used through tie down points.

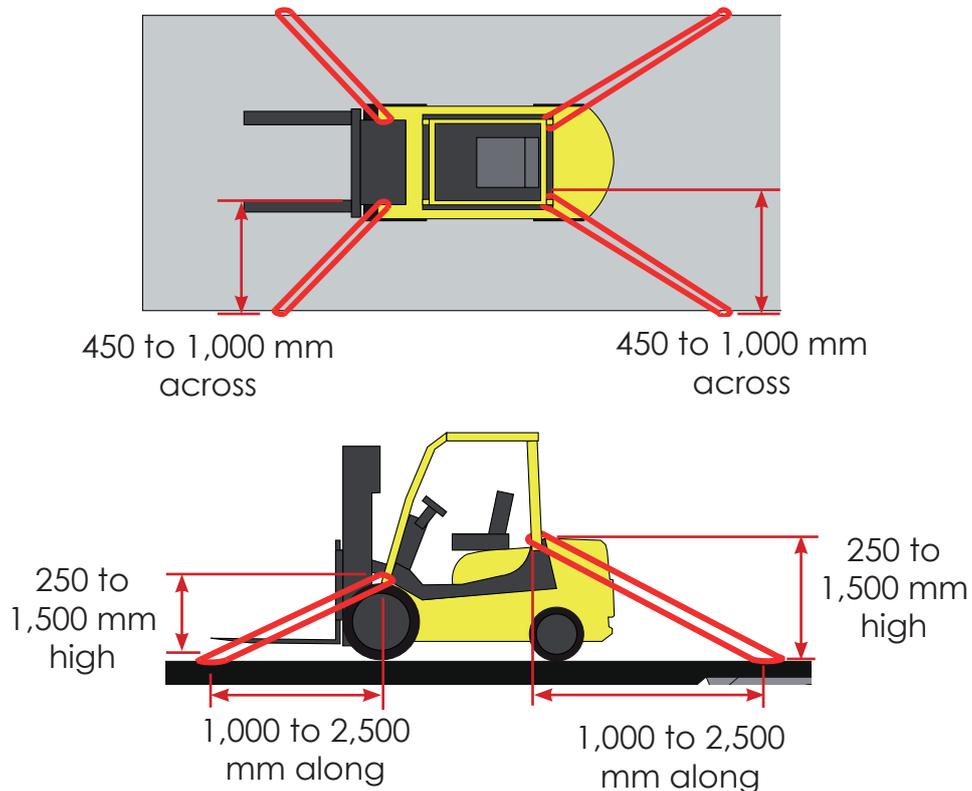


- ✓ Looped chain Arrangement.



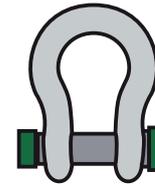
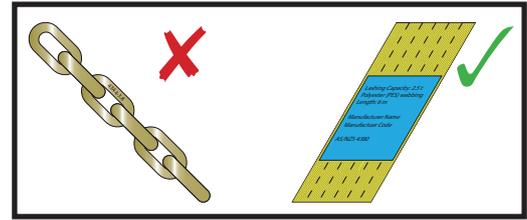
- ✓ Use a lifting sling and shackle if attaching a chain to a mast or ROPs.

- ✓ Ensure chains are within the outlined ranges below:

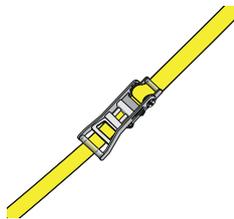


**Small Forklift - Hyster J1.5XNT (Webbing Only)**

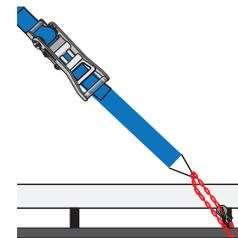
- ✓ Maximum mass of up to 3,100kg.
- ✓ Minimum 50 mm Webbing lashing with 2.5 t lashing capacity tensioned tight by standard Tensioner.
- ✓ Ensure shackles have a minimum W.L.L of 2.5 t and are used through tie down points.



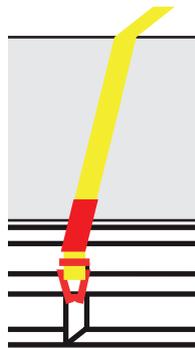
- ✓ Front of forklift lashings are to be tied to the front tie down point or supports.



- ✓ Single Length webbing arrangement.



- ✓ Use a short length of chain to prevent bending of the webbing strap over the coaming rail.

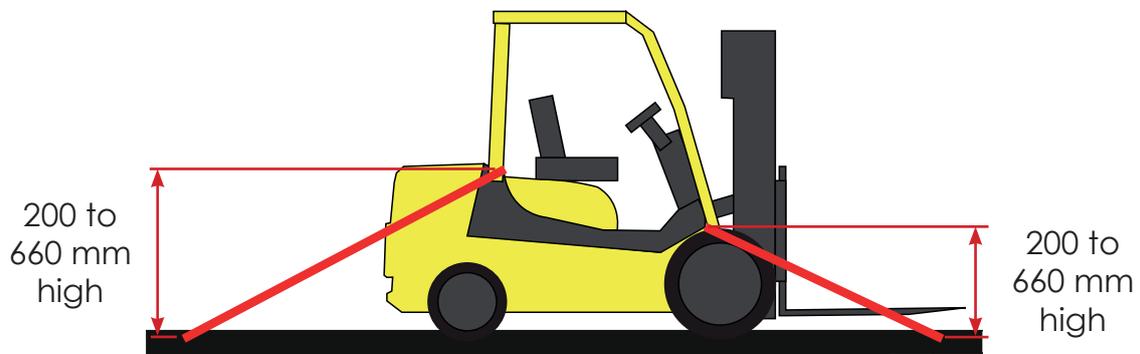
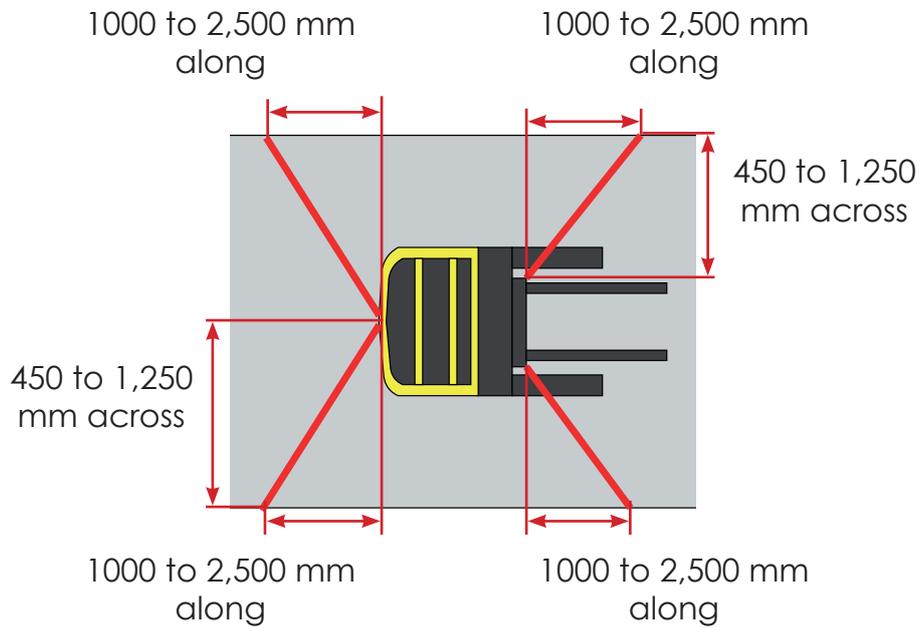


- ✓ When using webbing straps, ensure wear sleeves are placed over the coaming rail



Do not loop attach the hook and keeper to the webbing strap

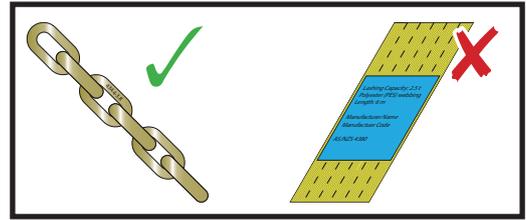
✓ Ensure straps are within the outlined ranges below:



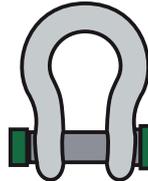
**Standard Forklift - Hyster H135 to 155FT**

✓ Maximum mass of up to 9,500kg.

✓ Minimum 8 mm transport chains tensioned tight by standard load binder.

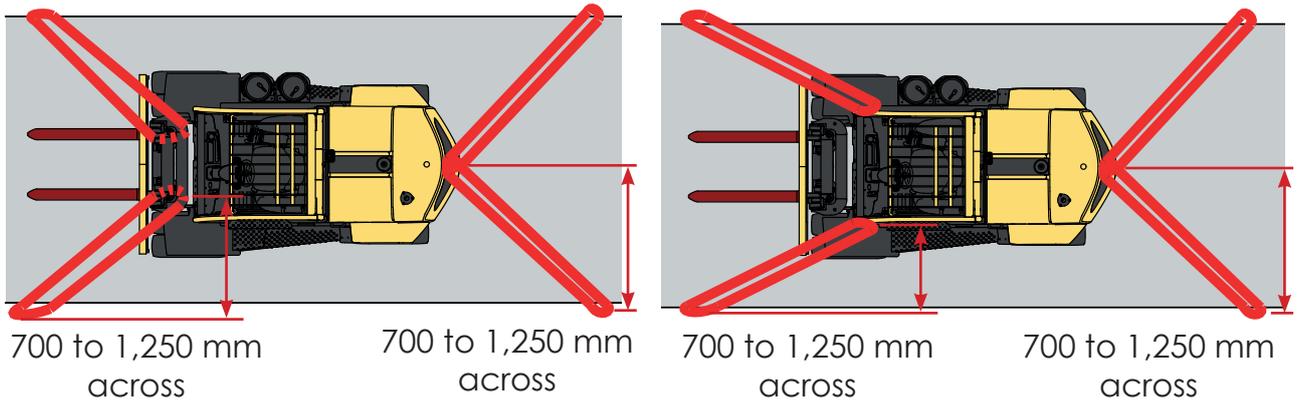


✓ Ensure shackles have a minimum W.L.L of 5.0 t and are used through tie down points.

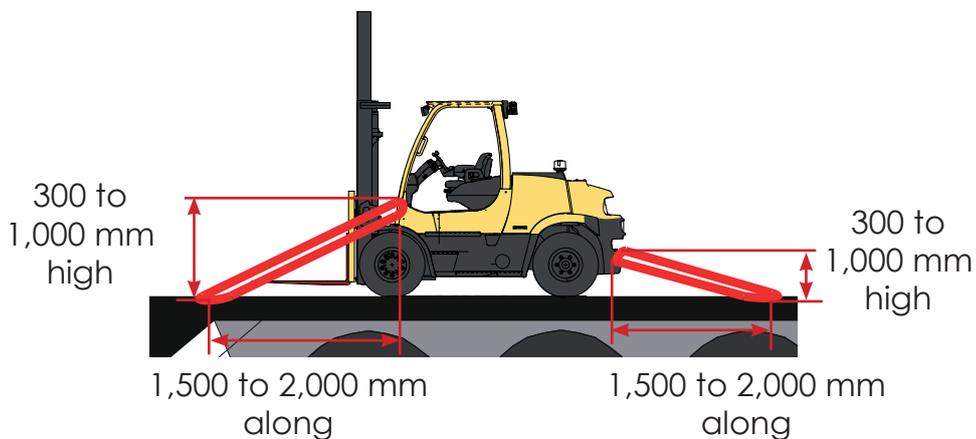


✓ Looped chain Arrangement.

✓ Ensure chains are within the outlined ranges below:

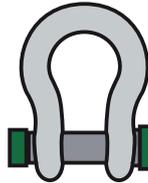
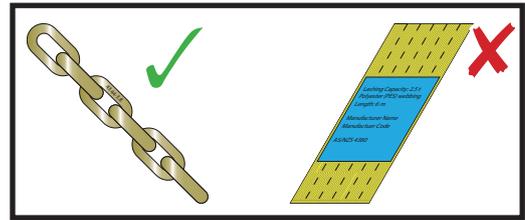


FT

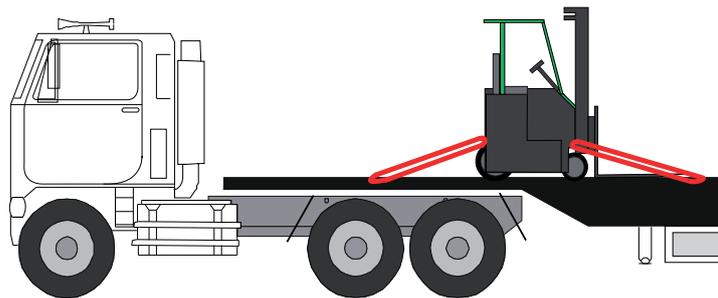


**Combilift Combi-CB Forklift**

- ✓ Maximum mass of up to 8,000kg.
- ✓ Minimum 8 mm transport chains tensioned tight by standard load binder.
- ✓ Ensure shackles have a minimum W.L.L of 5.0 t and are used through tie down points.

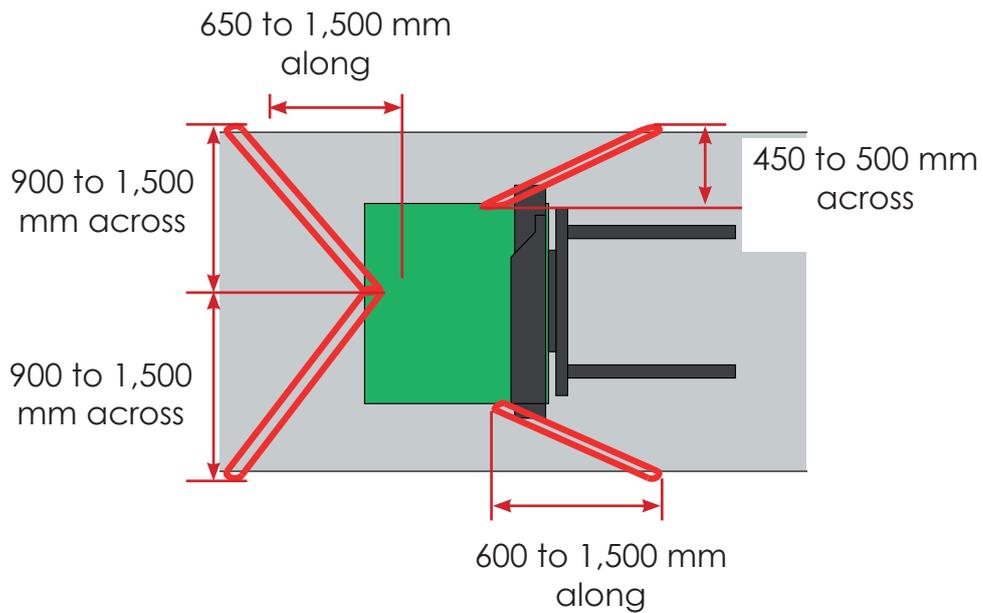
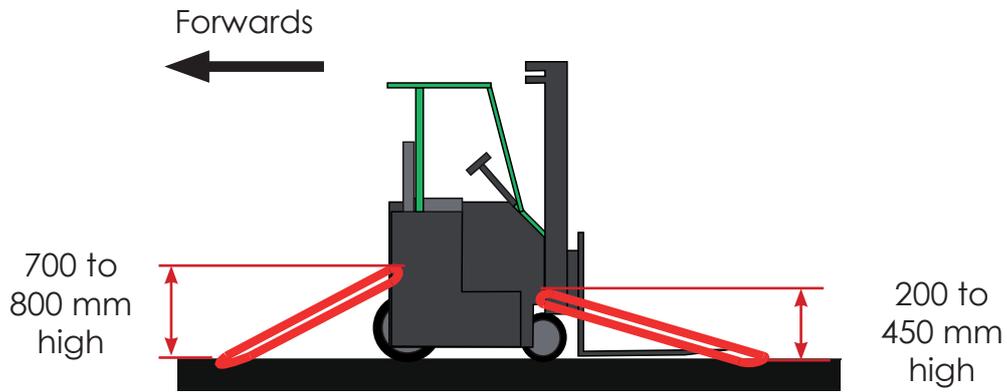


- ✓ Looped chain arrangement.



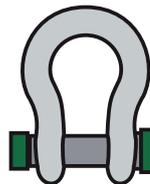
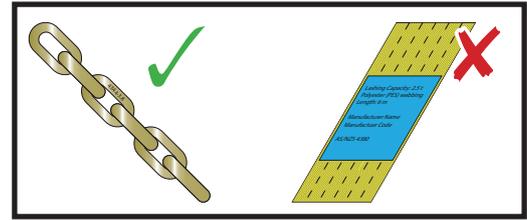
- ✓ Combilift Combi-CB must be reversed onto the trailer.

✓ Ensure chains are within the outlined ranges below:



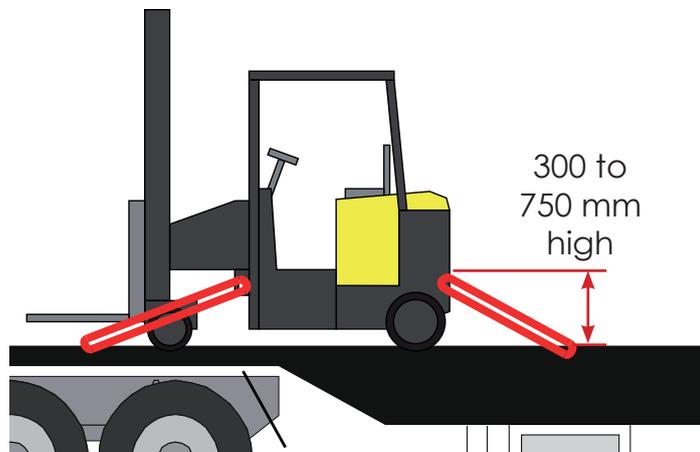
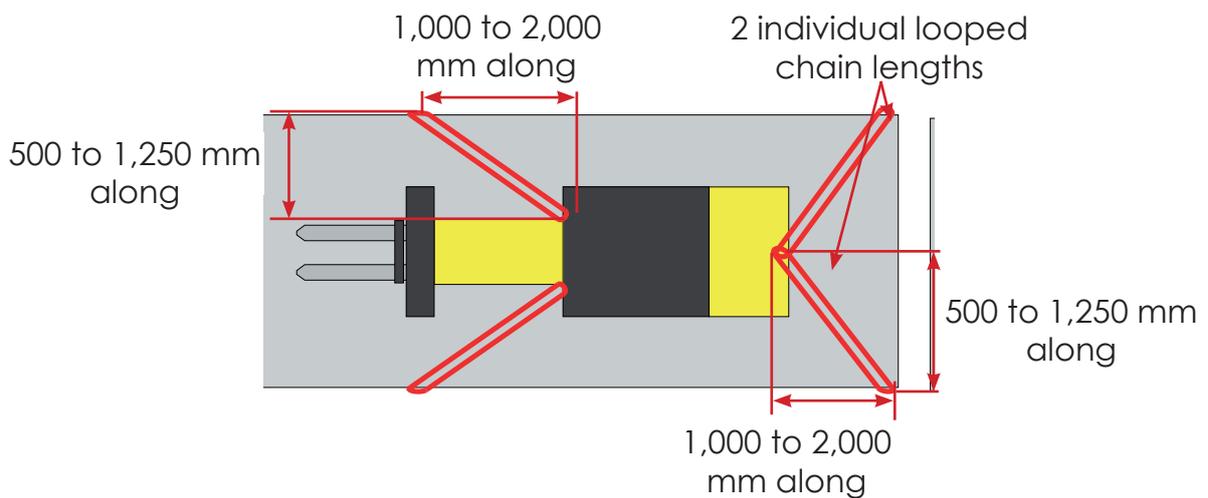
**Aislemaster Articulated Forklift**

- ✓ Maximum mass of up to 7,300kg.
- ✓ Minimum 8 mm transport chains tensioned tight by standard load binder.
- ✓ Ensure shackles have a minimum W.L.L of 5.0 t and are used through tie down points.



- ✓ Looped chain arrangement.

- ✓ Ensure chains are within the outlined ranges below:

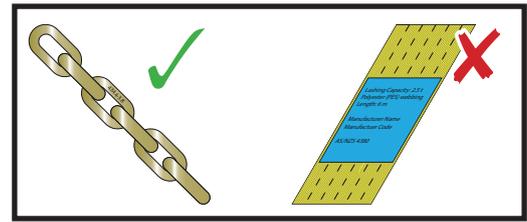
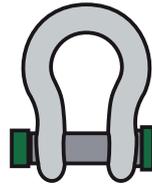


**Reach Forklift - Hyster R1.4 to R2.5**

✓ Maximum mass of up to 5,000kg.

✓ Minimum 8 mm transport chains tensioned tight by standard load binder.

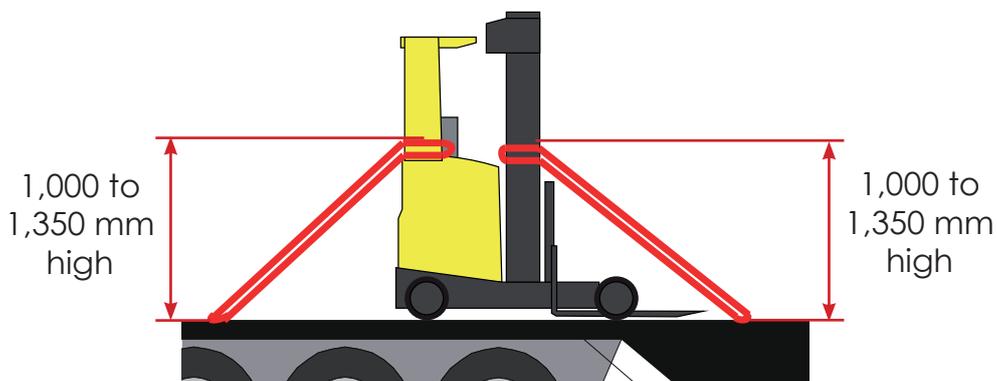
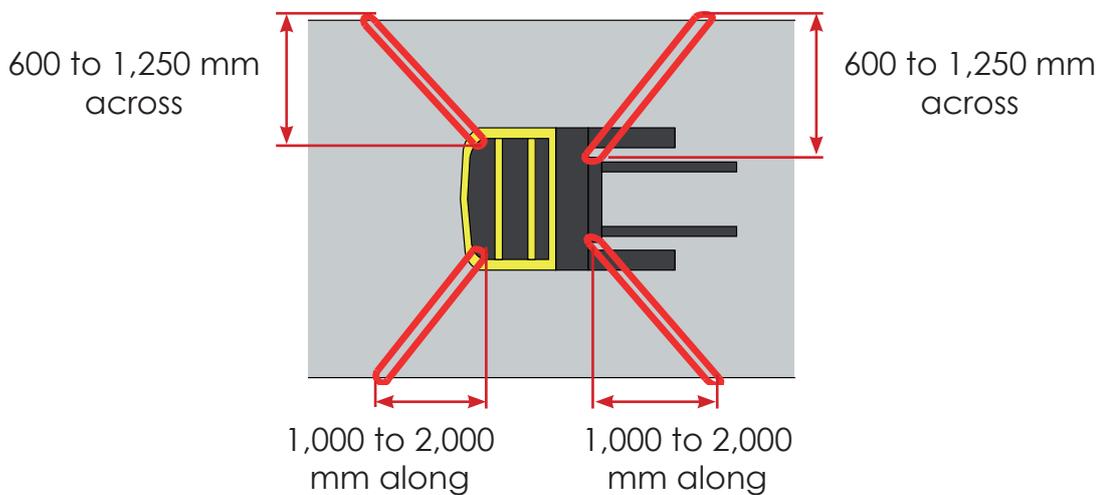
✓ Ensure shackles have a minimum W.L.L of 5.0 t and are used through tie down points.



✓ Looped chain arrangement.

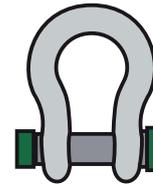
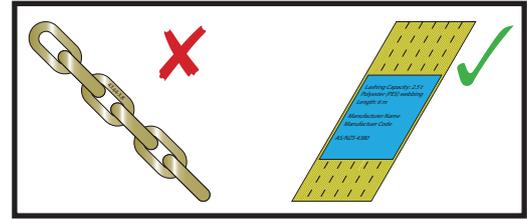
✓ Use a lifting sling and shackle if attaching a chain to a mast.

✓ Ensure chains are within the outlined ranges below:

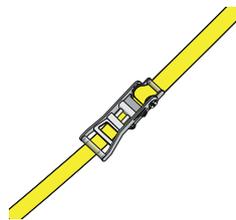


**Small Mobile Plant - Generic (Webbing Only)**

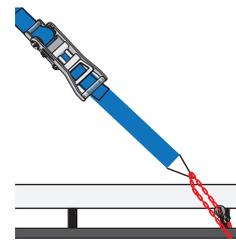
- ✓ Maximum mass of up to 3,000 kg.
- ✓ Minimum 50 mm Webbing lashing with 2.5 t lashing capacity tensioned tight by standard Tensioner.
- ✓ Ensure shackles have a minimum W.L.L of 2.5 t and are used through tie down points.



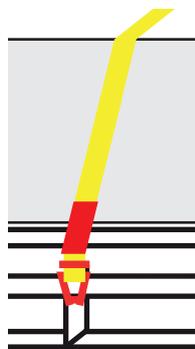
- ✓ Front of forklift lashings are to be tied to the front tie down point or supports.



- ✓ Single Length webbing arrangement.



- ✓ Use a short length of chain to prevent bending of the webbing strap over the coaming rail.

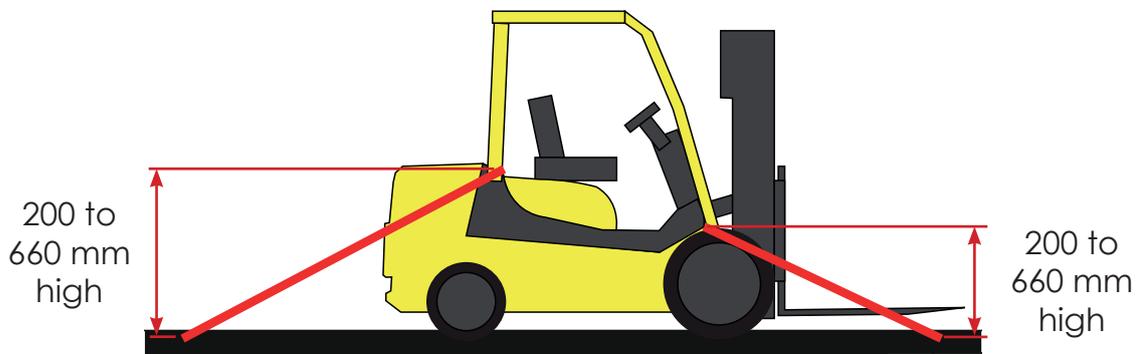
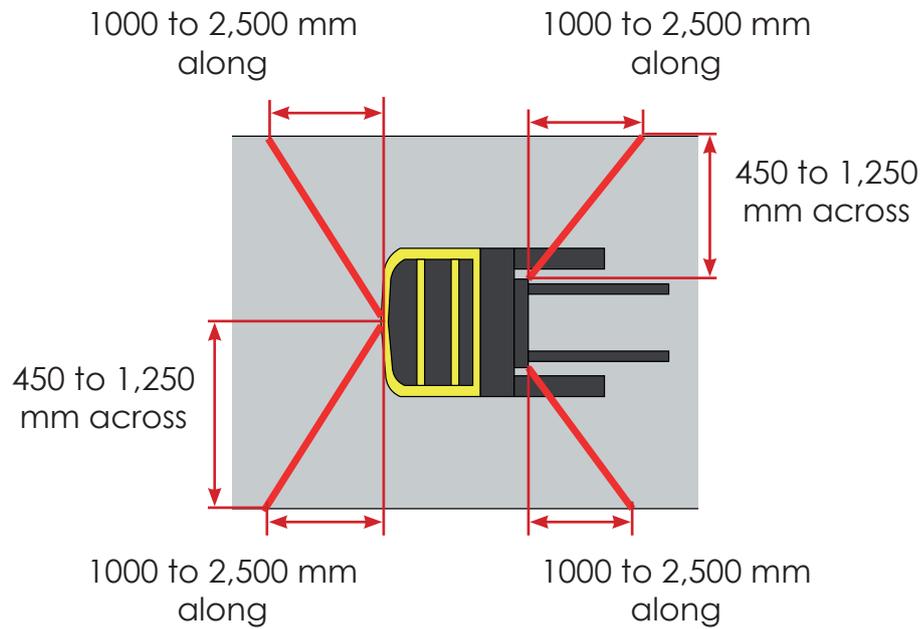


- ✓ When using webbing straps, ensure wear sleeves are placed over the coaming rail



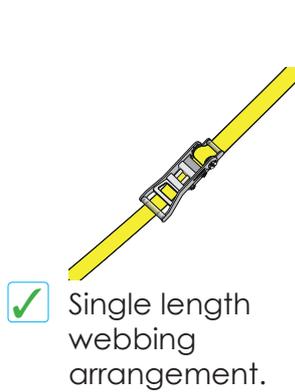
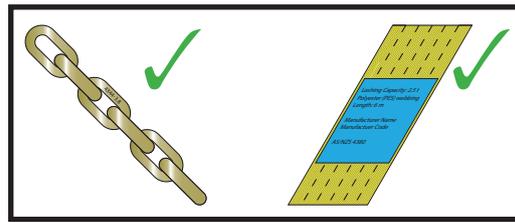
Do not loop attach the hook and keeper to the webbing strap

✓ Ensure straps are within the outlined ranges below:



**Order Pickers - Hyster LO2.0 or Similar**

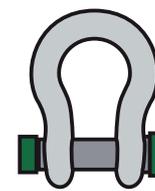
- ✓ Maximum mass of up to 1,600 kg.
- ✓ Minimum 8 mm transport chains tensioned tight by standard load binder.
- ✓ Minimum 50 mm Webbing lashing with 2.5 t lashing capacity tensioned tight by standard Tensioner.



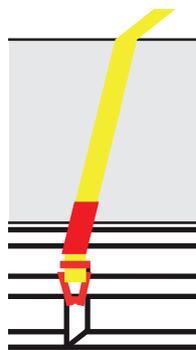
✓ Single length webbing arrangement.



✓ Single length chain arrangement.



✓ Ensure shackles have a minimum W.L.L of 2.5 t and are used through tie down points.

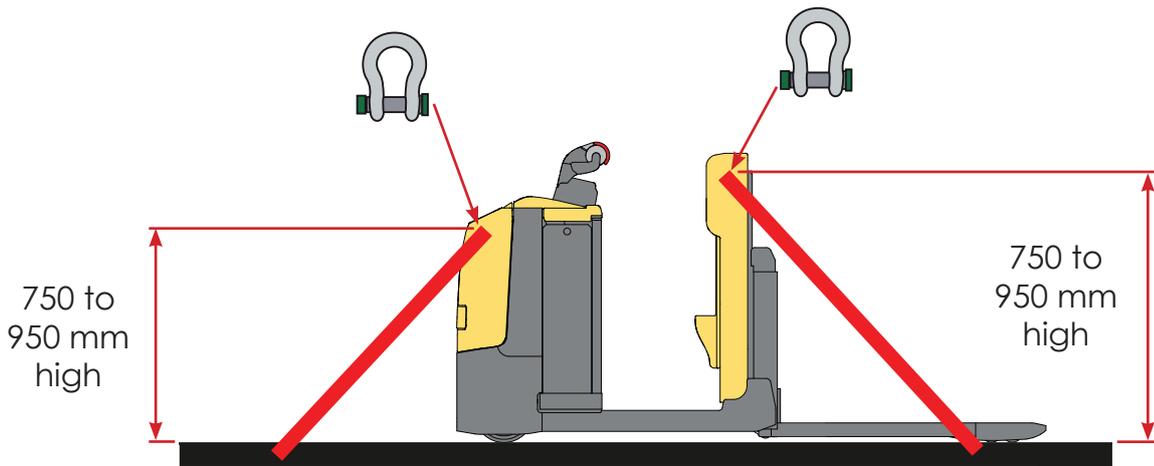
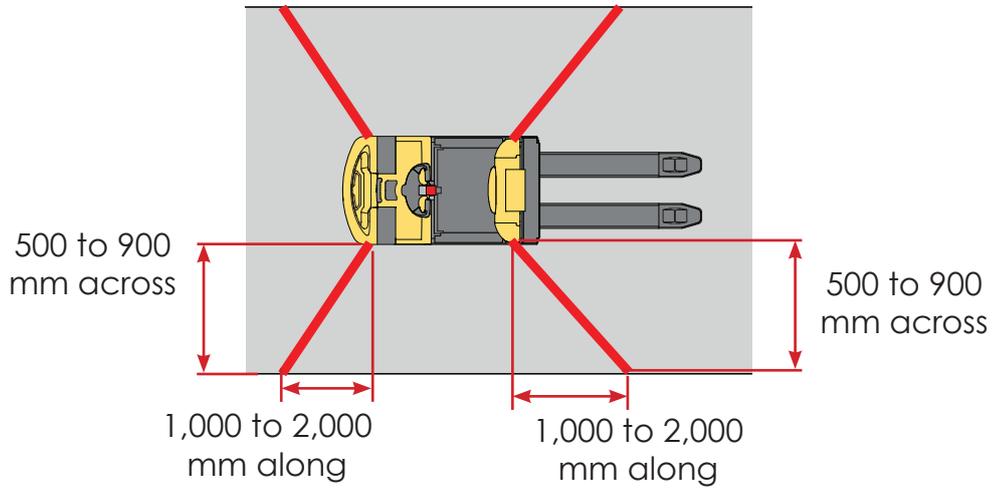


✓ When using webbing straps, ensure wear sleeves are placed over the coaming rail



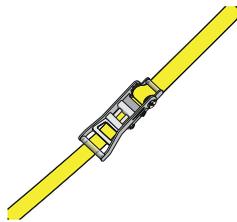
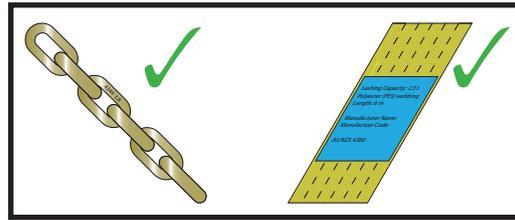
Do not loop attach the hook and keeper to the webbing strap

✓ Ensure straps are within the outlined ranges below:

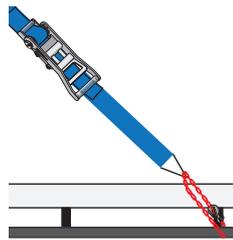


**Order Pickers - Hyster LO2.5 or Similar**

- ✓ Maximum mass of up to 3,400 kg.
- ✓ Minimum 8 mm transport chains tensioned tight by standard load binder.
- ✓ Minimum 50 mm Webbing lashing with 2.5 t lashing capacity tensioned tight by standard Tensioner.



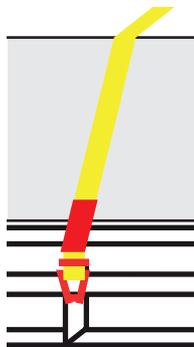
- ✓ Single length webbing arrangement.



- ✓ Use a short length of chain to prevent bending of the webbing strap over the coaming rail.



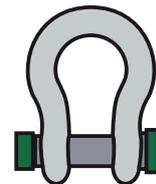
- ✓ Single length chain arrangement.



- ✓ When using webbing straps, ensure wear sleeves are placed over the coaming rail

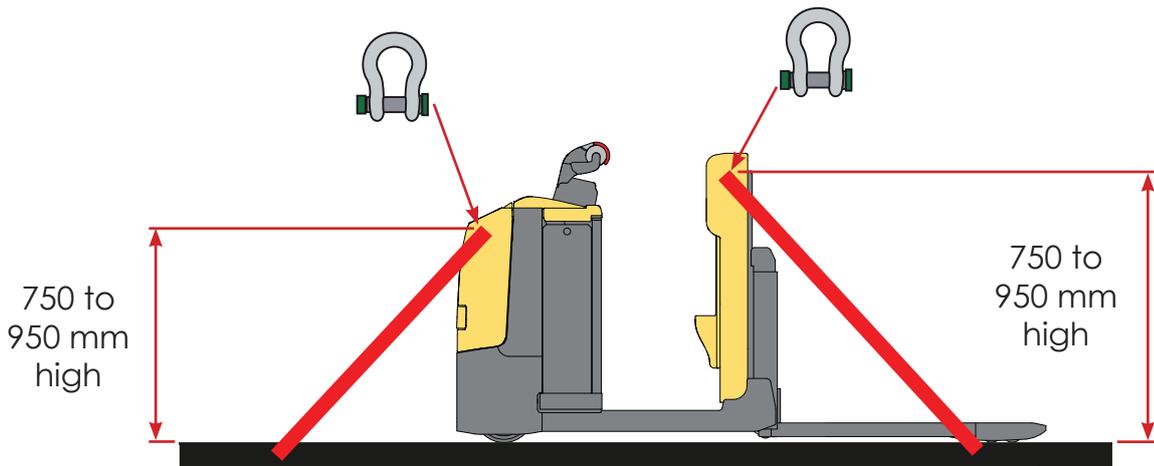
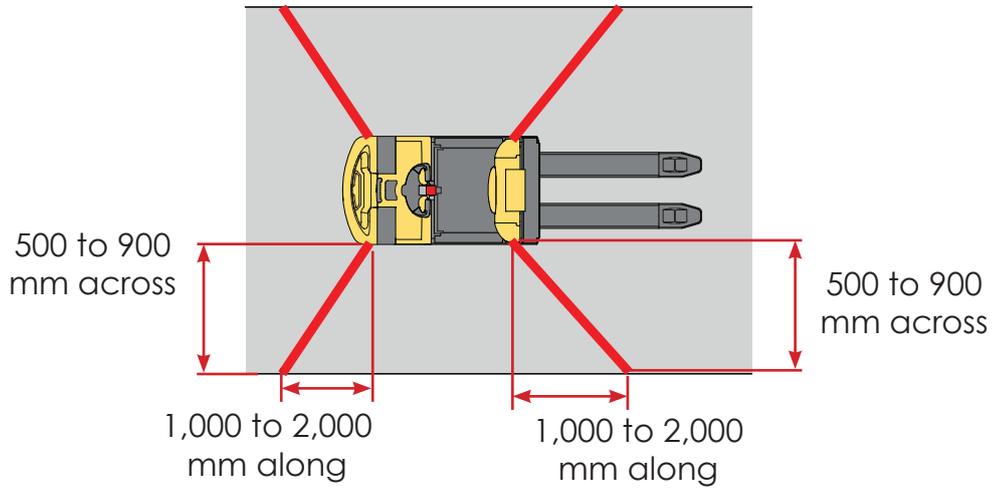


Do not loop attach the hook and keeper to the webbing strap



- ✓ Ensure shackles have a minimum W.L.L of 2.5 t and are used through tie down points.

✓ Ensure straps are within the outlined ranges below:

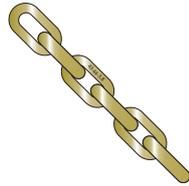


**This guideline:**

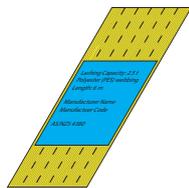
- Applies to the EPJ's and walkie stackers outlined within the guideline.
- Is the loader and driver guide to the certification E01711-LRC1 to meet the loading Performance Standards contained within the Heavy Vehicle (Mass, Dimension and Loading) National Regulation (22 February 2021).

**Key Elements**

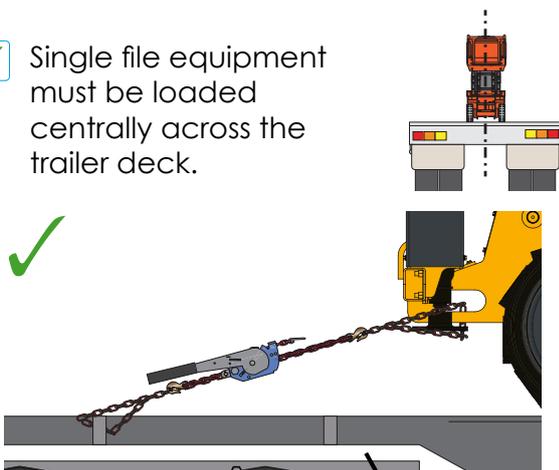
- ✓ Minimum 8 mm transport chains tensioned tight by standard load binder.



- ✓ Minimum 50 mm Webbing lashing tensioned tight by standard tensioner.

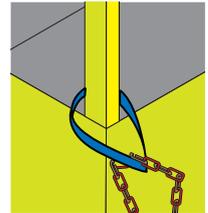


- ✓ Single file equipment must be loaded centrally across the trailer deck.

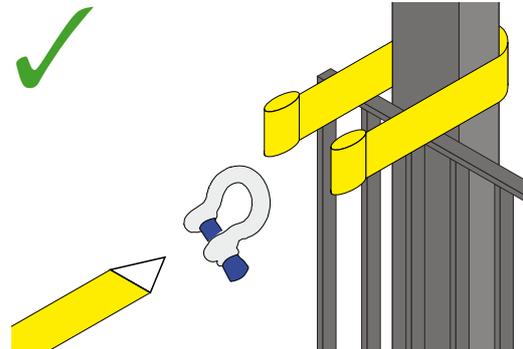
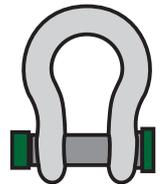


Single Chain Arrangement

- ✓ Apply suitable and correctly sized lifting slings around anchor points where chains might damage area. Lifting slings must have at least a 1.5t rating for single chain arrangement and 3t for looped chain.

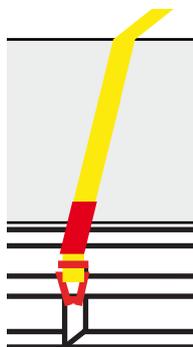


- ✓ Ensure shackles have the minimum rating required for each system as stated.



Use a lifting sling and shackle if attaching a webbing strap to a mast

- ✓ When using webbing straps, ensure wear sleeves are placed over the coaming rail

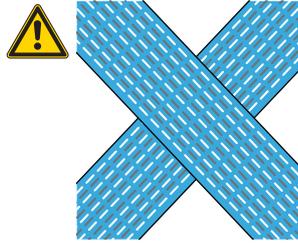


Do not loop attach the hook and keeper to the webbing strap

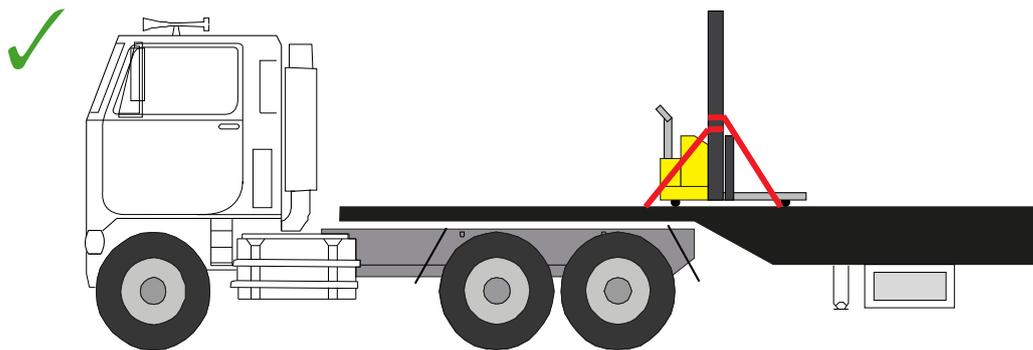
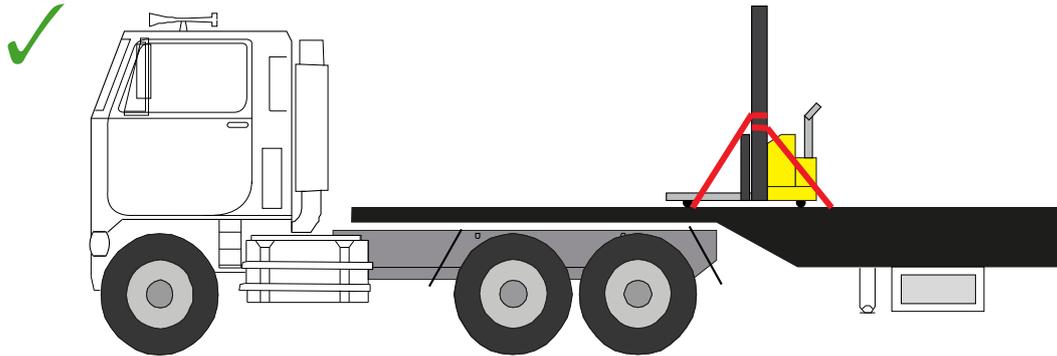
This document is provided for guidance only. Engistics has developed this guideline to comply with the relevant standards and legislation, however it remains the responsibility of the user to ensure that the methods used are adequate for a particular situation. Additional requirements maybe necessary under some conditions. Engistics makes no warranty as to the use of this guideline in all circumstances. The information contained in this guideline is confidential to and remains the property of Adapalift Group Pty Ltd and Engistics Pty Ltd. Any changes to this guideline must be approved by Engistics.

Key Elements (continued)

- ✓ Ensure locking pins are installed to prevent any movement during transport.
- ✓ Lashing protection may be required to prevent damage to the plant when using chain.

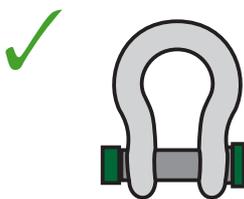


To prevent abrasion ensure webbing straps do not rub together

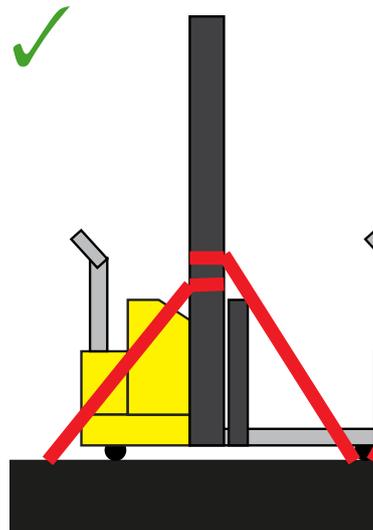


Plant can be loaded with the tynes facing towards or away from the prime mover.

Lashing Point Requirements



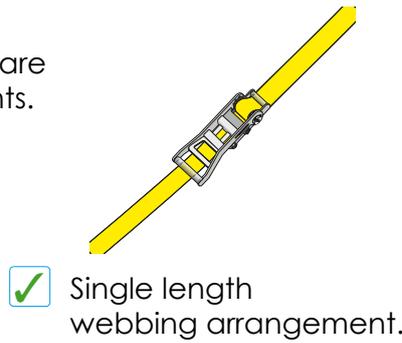
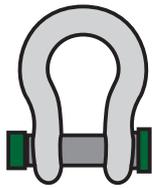
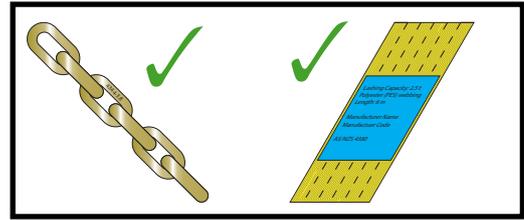
Dedicated lashing points are suitable lashing points.



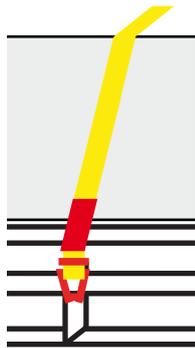
Masts can be used for lashing points on EPJ's and Walkie Stackers.

Walk Behind Electric Pallet Truck - Hyster P2.0

- ✓ Maximum mass of up to 1,500kg.
- ✓ Minimum 8 mm transport chains tensioned tight by standard load binder.
- ✓ Minimum 50 mm Webbing lashing with 2.5 t lashing capacity tensioned tight by standard tensioner.
- ✓ Ensure shackles have a minimum W.L.L of 2.5 t and are used through tie down points.

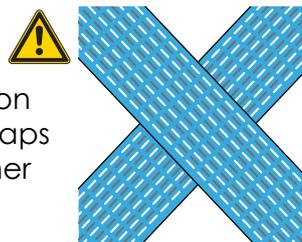


- ✓ When using webbing straps, ensure wear sleeves are placed over the coaming rail

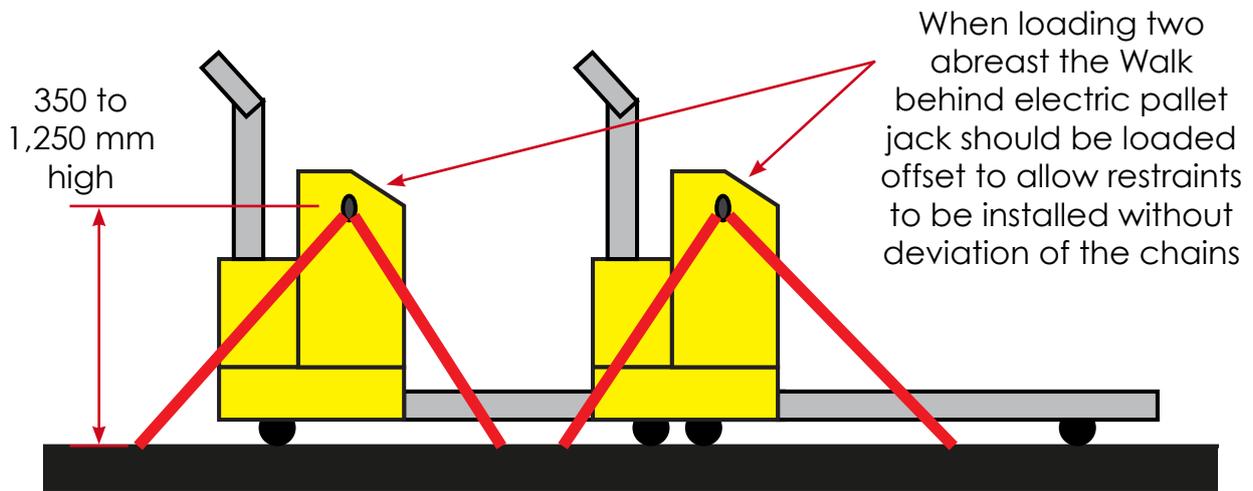
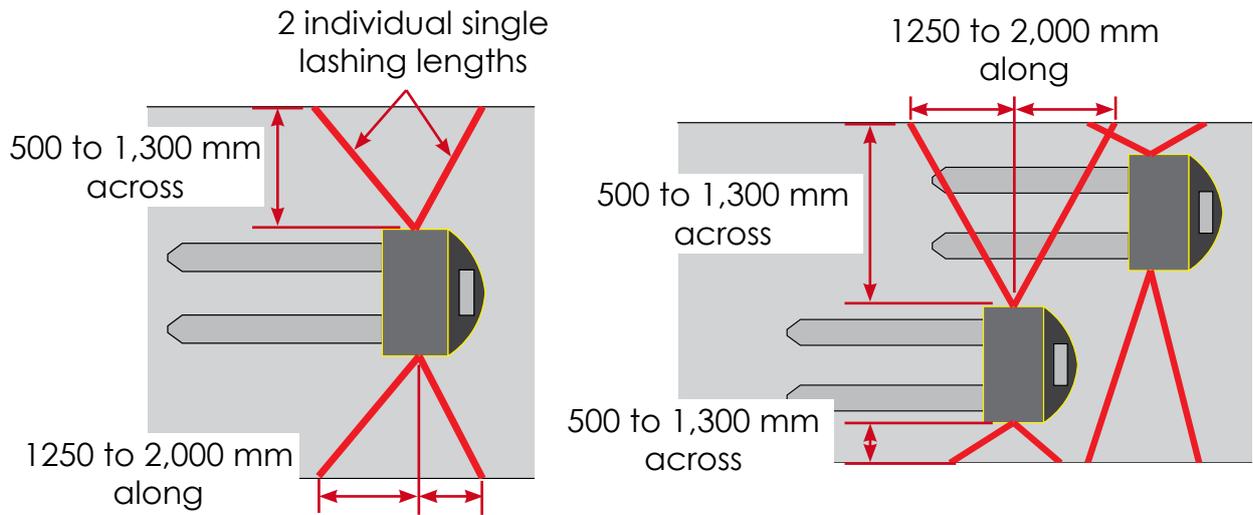


Do not loop attach the hook and keeper to the webbing strap

To prevent abrasion ensure webbing straps do not rub together



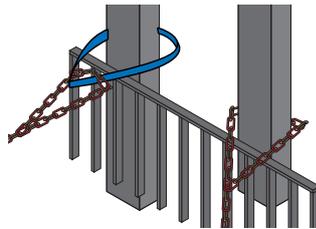
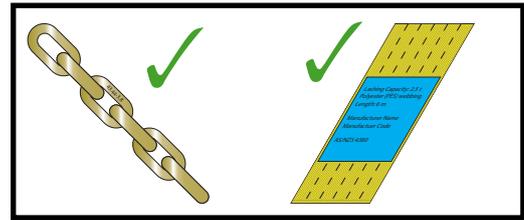
✓ Ensure chains are within the outlined ranges below:



✓ Lashings are to be installed to the side tie down point.

Walk Behind Reach Forklift - Liftsmart LS10 to LS12

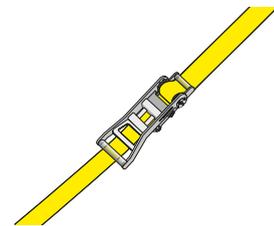
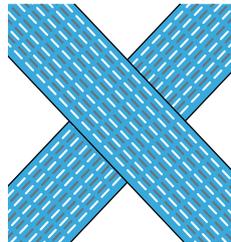
- ✓ Maximum mass of up to 1,500kg.
- ✓ Minimum 8 mm transport chains tensioned tight by standard load binder.
- ✓ Minimum 50 mm webbing lashing with 2.5 t lashing capacity tensioned tight by standard tensioner.
- ✓ Ensure lashings do not impact any cabling or hoses on the mast.
- ✓ Apply suitable lifting slings to protect cabling.



- ✓ Single length chain arrangement.

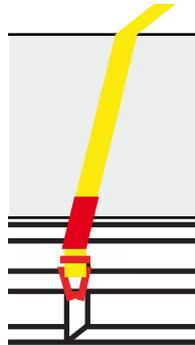


To prevent abrasion ensure webbing straps do not rub together

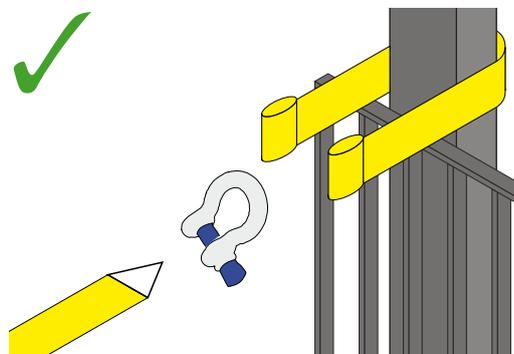


- ✓ Single length webbing arrangement.

- ✓ When using webbing straps, ensure wear sleeves are placed over the coaming rail

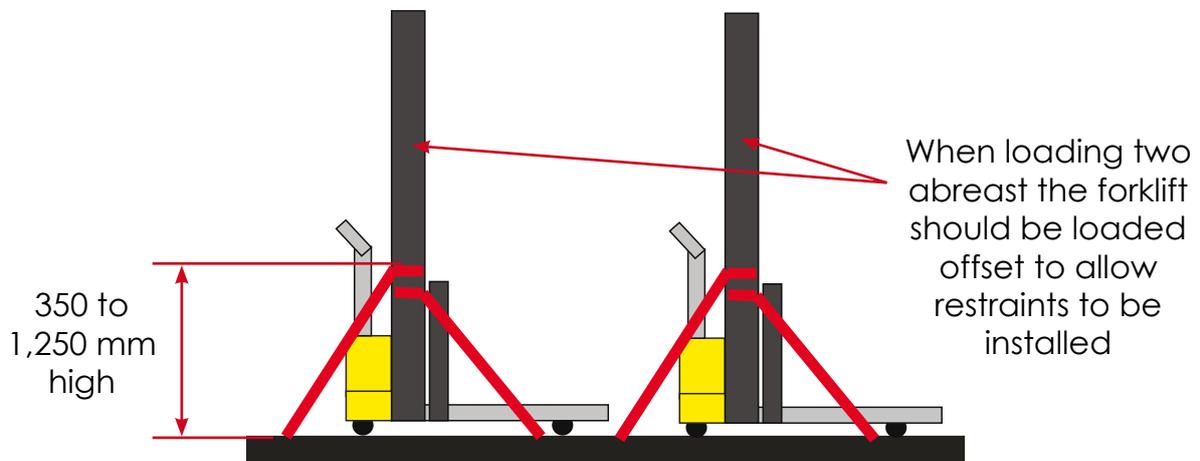
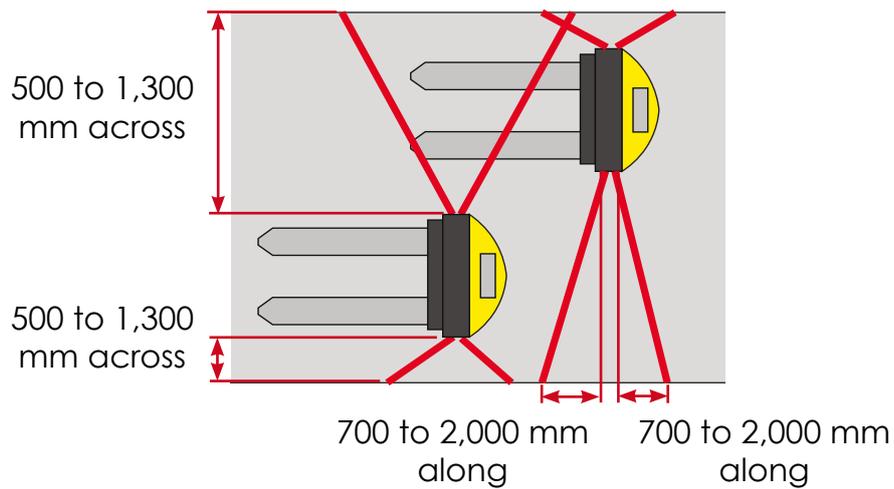
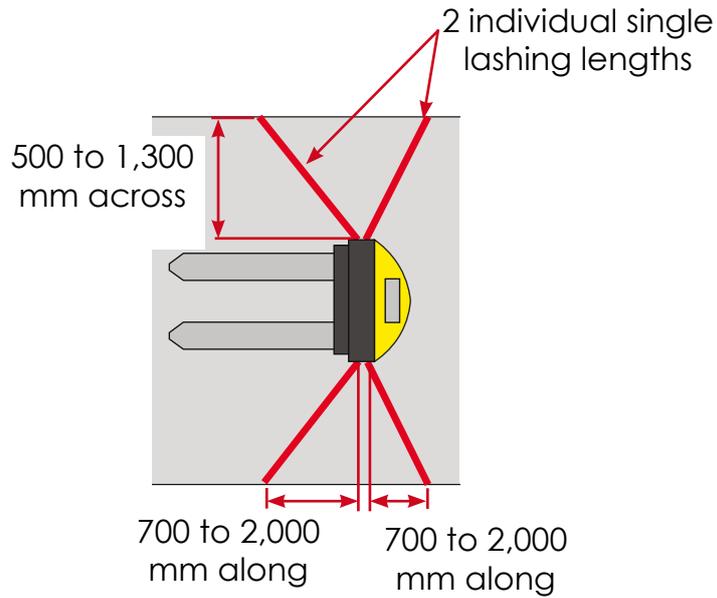


Do not loop attach the hook and keeper to the webbing strap



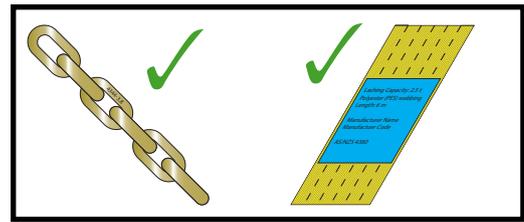
Use a lifting sling and shackle to attach the webbing straps to the mast

✓ Ensure chains are within the outlined ranges below:

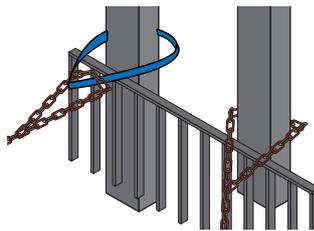


Walk Behind Reach Forklift - Liftsmart WRT15 or Similar

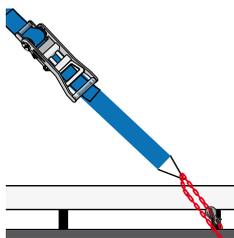
- ✓ Maximum mass of up to 2,600kg.
- ✓ Minimum 8 mm transport chains tensioned tight by standard load binder.
- ✓ Minimum 50 mm webbing lashing with 2.5 t lashing capacity tensioned tight by standard tensioner.



- ✓ Ensure lashings do not impact any cabling or hoses on the mast.
- ✓ Apply suitable lifting slings to protect cabling.



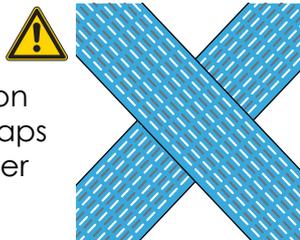
- ✓ Single length webbing arrangement.



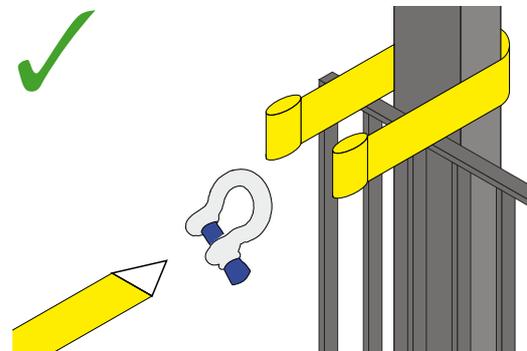
- ✓ Use a short length of chain to prevent bending of the webbing strap over the coaming rail.

- ✓ Single length chain arrangement.

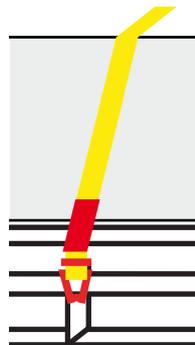
To prevent abrasion ensure webbing straps do not rub together



- ✓ Use a lifting sling and shackle to attach the webbing straps to the mast

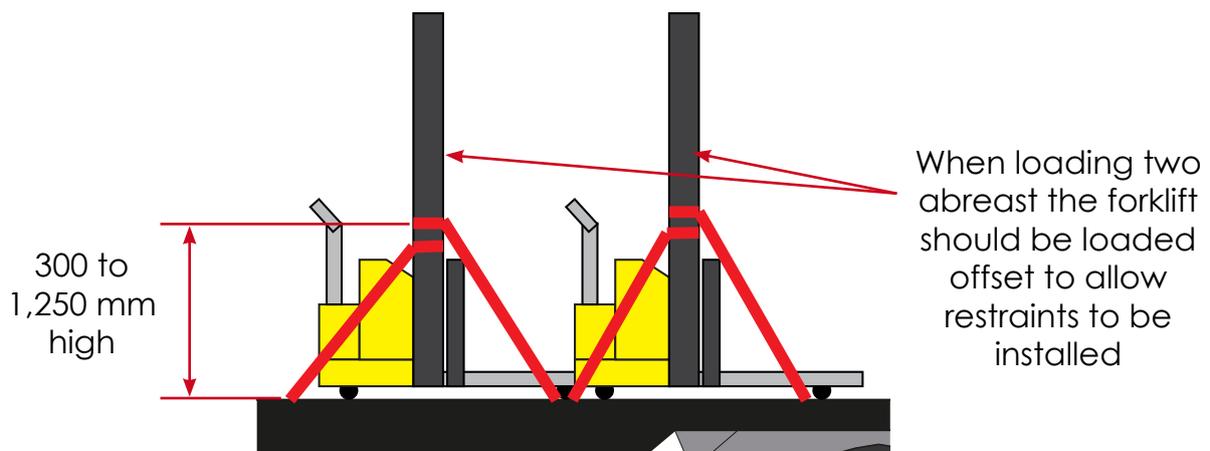
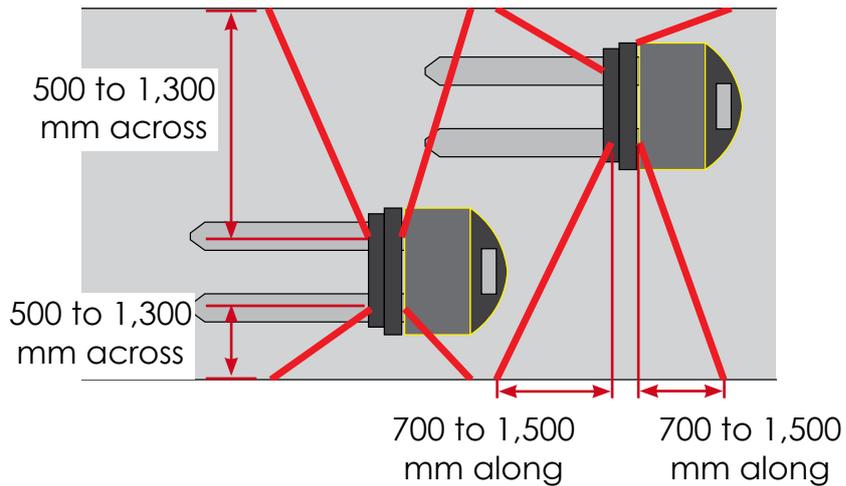
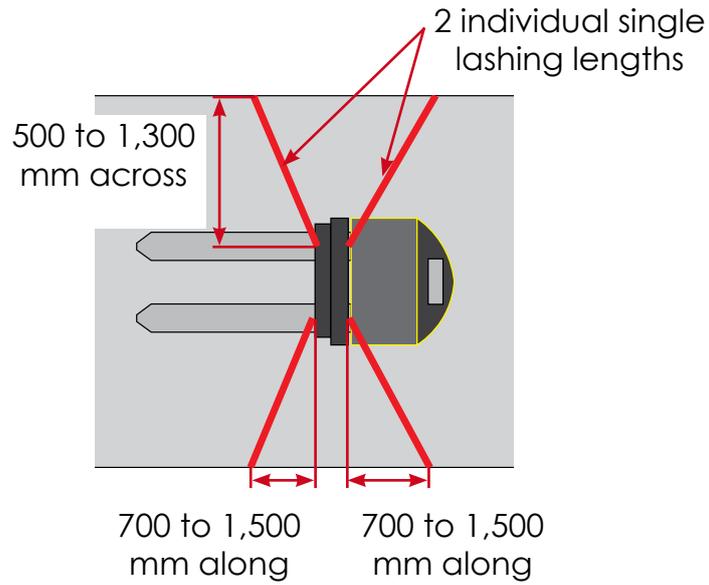


- ✓ When using webbing straps, ensure wear sleeves are placed over the coaming rail



Do not loop attach the hook and keeper to the webbing strap

- ✓ Ensure chains are within the outlined ranges below:

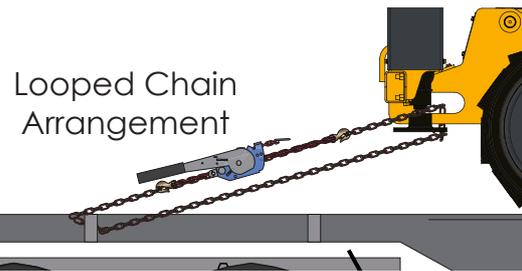
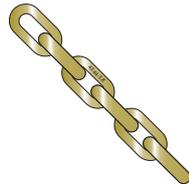


**This guideline:**

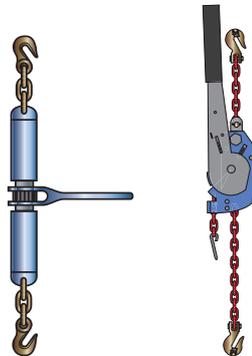
- Applies to Hyster H16.00 High Capacity Forklifts up to 20t and Hyster RS46 Reach Stackers up to 65t.
- Is the loader and driver guide to the certification E01711-LRC2 to meet the loading *Performance Standards* contained within the *Heavy Vehicle (Mass, Dimension and Loading) National Regulation (22 February 2021)*.

**Key Elements**

- ✓ Minimum 10 mm transport chains tensioned tight with a load binder.



- ✓ Lashings are to be installed in a looped chain arrangement.



- ✓ Ausbinders, turnbuckle ratchets or similar are acceptable load binders.



- ✓ If using shackles they must have a minimum W.L.L of 9.5 t.

- ✓ Ensure locking pins are installed to prevent any movement during transport.

- ✓ Lashing protection may be required to prevent damage to the plant when using chain.

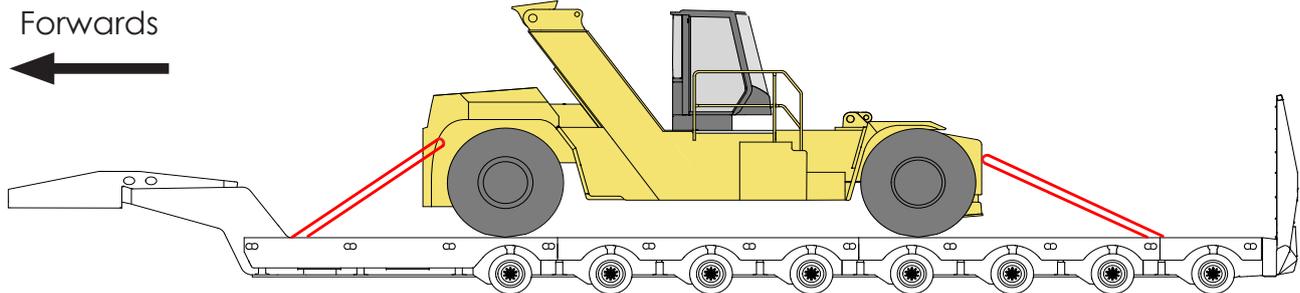
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**Reach Stacker - Hyster RS46**

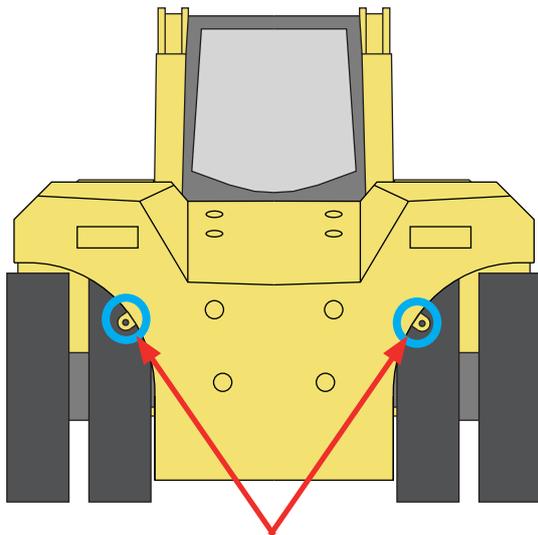
- ✓ Maximum mass of up to 65,000kg.
- ✓ Minimum 10 mm transport chains tensioned tight by a load binder.



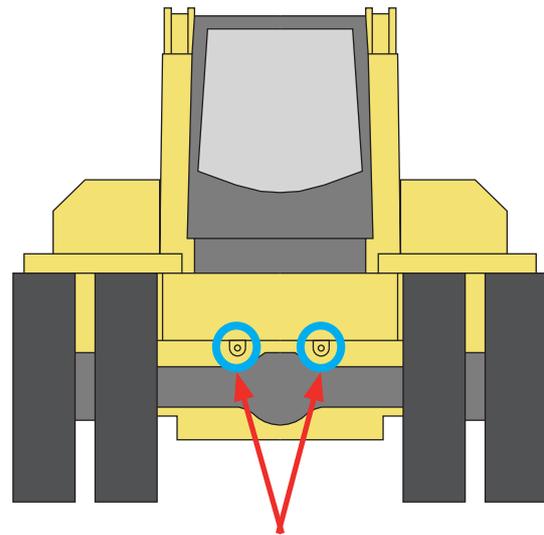
- ✓ Looped chain Arrangement.



- ✓ RS46 must be reversed onto the trailer.



- ✓ Attach chains 1, 2, 3 & 4 to the dedicated rear lashing points.
- ✓ Rear lashing points must have a Working Load Limit of at least 4.5t or a Lashing Capacity of at least 9t.



- ✓ Attach chains 5, 6, 7 & 8 to the dedicated front lashing points.
- ✓ Front lashing points must have a Working Load Limit of at least 9t or a Lashing Capacity of at least 18t.

✓ Ensure chains are within the outlined ranges below:

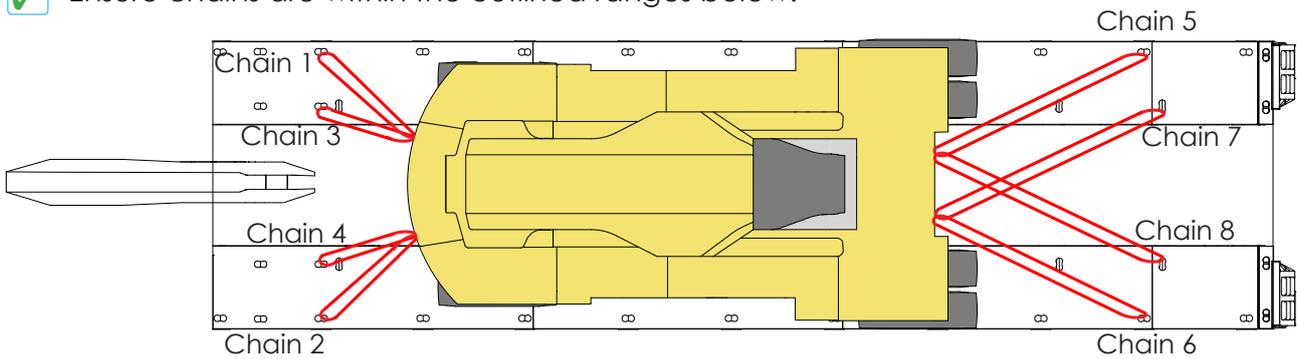
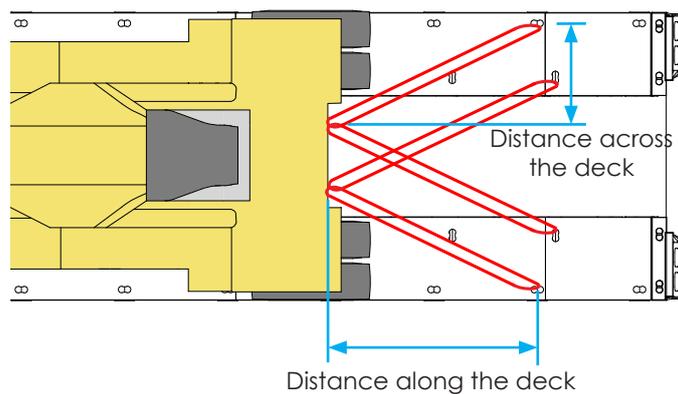


Table A: Chain distances for Hyster RS46

<b>Chain Number</b>	<b>Distance Along the Deck (mm)</b>	<b>Distance Across the Deck (mm)</b>
<b>1</b>	<b>1000-2000</b>	<b>600-1000</b>
<b>2</b>	<b>1000-2000</b>	<b>600-1000</b>
<b>3</b>	<b>1000-2000</b>	<b>1300-1700</b>
<b>4</b>	<b>1000-2000</b>	<b>1300-1700</b>
<b>5</b>	<b>1500-2500</b>	<b>1300-1700</b>
<b>6</b>	<b>1500-2500</b>	<b>1300-1700</b>
<b>7</b>	<b>1500-2500</b>	<b>1300-1700</b>
<b>8</b>	<b>1500-2500</b>	<b>1300-1700</b>



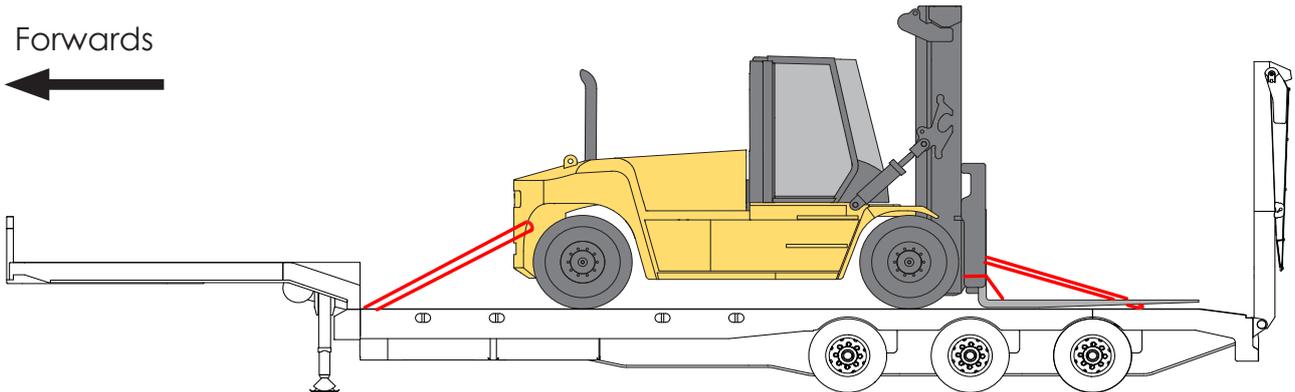
### High Capacity Forklift - Hyster H16.00

- ✓ Maximum mass of up to 20,000kg.
- ✓ Minimum 10 mm transport chains tensioned tight by a load binder.

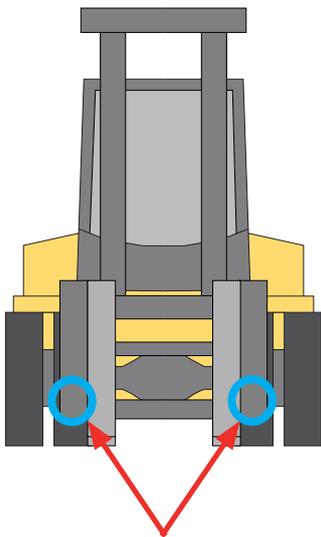


- ✓ Looped chain Arrangement.

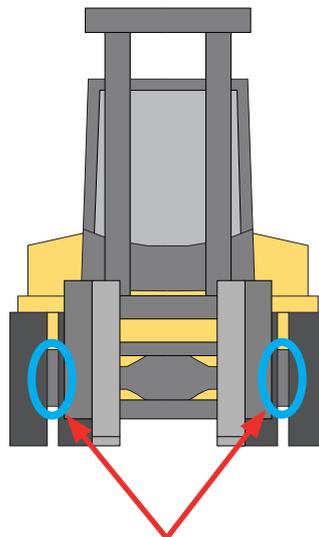
Forwards  
←



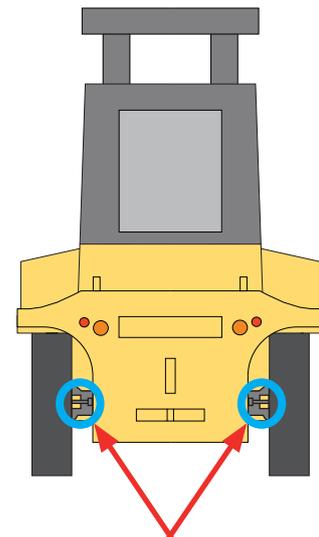
- ✓ H16.00 must be reversed onto the trailer.



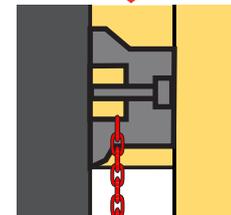
- ✓ Attach chains 3 & 4 to the carriage.

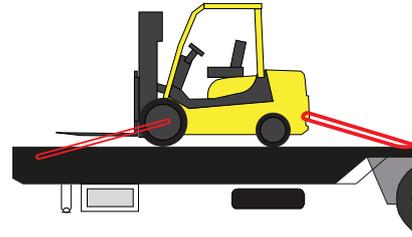
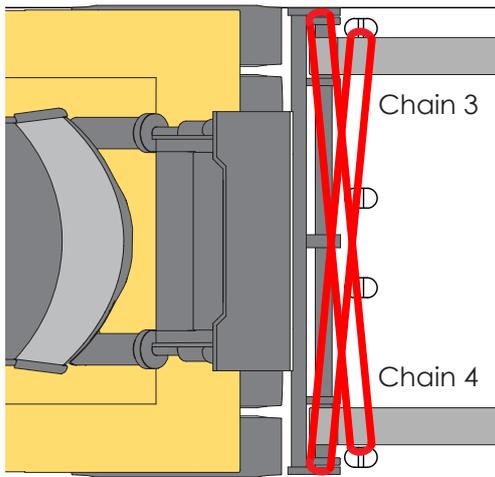


- ✓ Attach chains 5 & 6 to the front axle between the tyres.



- ✓ Attach chains 1 & 2 to the rear axle.





✓ Chains 3 & 4 require tensioners on both legs of the chain.

✓ Ensure chains are within the outlined ranges below:

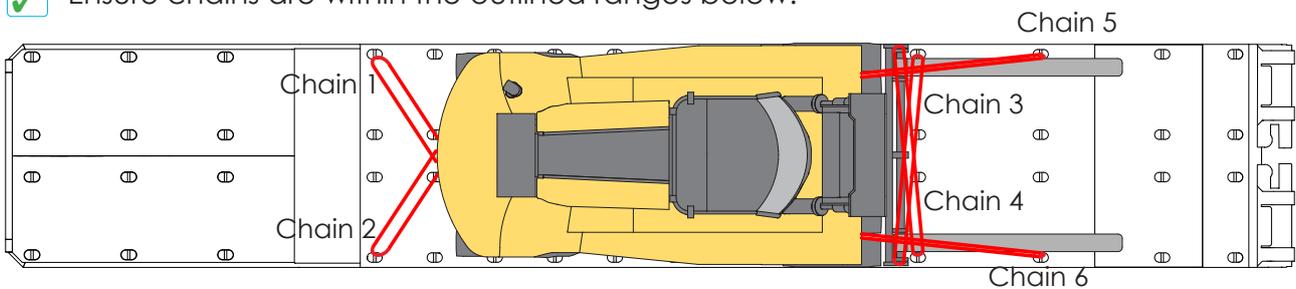
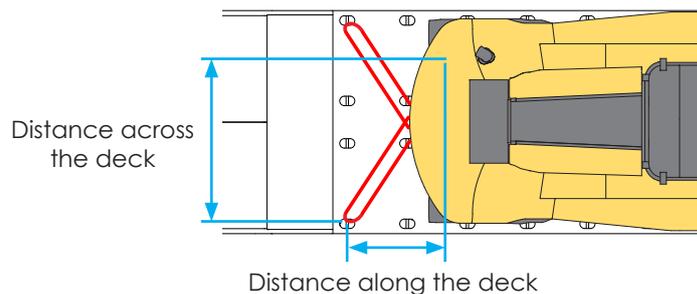


Table B: Chain distances for Hyster H16.00

<b>Chain Number</b>	<b>Distance Along the Deck (mm)</b>	<b>Distance Across the Deck (mm)</b>
<b>1</b>	<b>1600-2400</b>	<b>1200-2000</b>
<b>2</b>	<b>1600-2400</b>	<b>1200-2000</b>
<b>3</b>	<b>100-600</b>	<b>1500-2100</b>
<b>4</b>	<b>100-600</b>	<b>1500-2100</b>
<b>5</b>	<b>1600-2400</b>	<b>0-500</b>
<b>6</b>	<b>1600-2400</b>	<b>0-500</b>

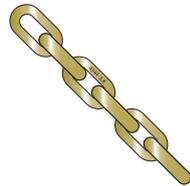


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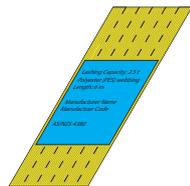
- Applies to the elevated work platforms outlined within the guideline.
- Is the loader and driver guide to the certification E01711-LRC1 to meet the loading Performance Standards contained within the Heavy Vehicle (Mass, Dimension and Loading) National Regulation (22 February 2021).

**Key Elements**

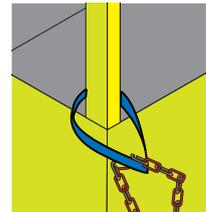
- ✓ Minimum 8 mm transport chains tensioned tight by standard load binder.



- ✓ Minimum 50 mm Webbing lashing tensioned tight by standard tensioner.

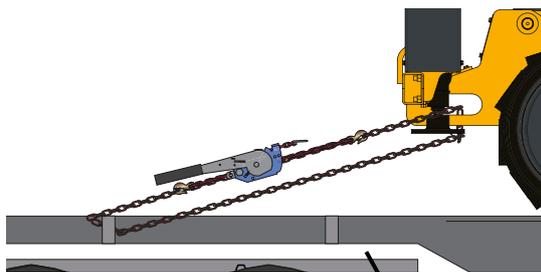


- ✓ Apply suitable and correctly sized lifting slings around anchor points where chains might damage area. Lifting slings must have at least a 1.5t rating for single chain arrangement and 3t for looped chain.

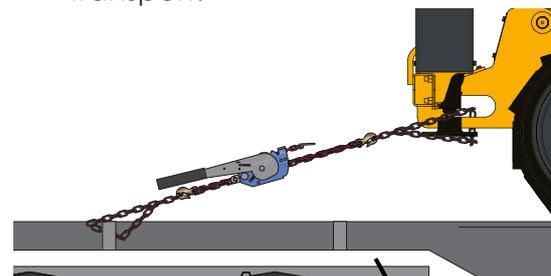


- ✓ Lashings are to be installed in either a single chain or looped chain arrangement depending on restraint system

- ✓ Ensure locking pins are installed to prevent any movement during transport.



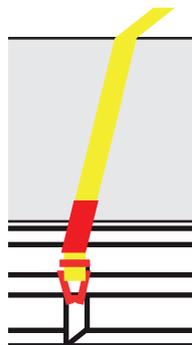
Looped Chain Arrangement



Single Chain Arrangement

- ✓ Lashing protection may be required to prevent damage to the plant when using chain.

- ✓ When using webbing straps, ensure wear sleeves are placed over the coaming rail

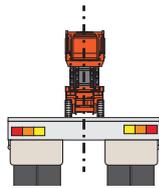


Do not loop attach the hook and keeper to the webbing strap

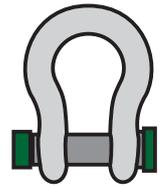
This document is provided for guidance only. Engistics has developed this guideline to comply with the relevant standards and legislation, however it remains the responsibility of the user to ensure that the methods used are adequate for a particular situation. Additional requirements may be necessary under some conditions. Engistics makes no warranty as to the use of this guideline in all circumstances. The information contained in this guideline is confidential to and remains the property of Adaptalift Group Pty Ltd and Engistics Pty Ltd. Any changes to this guideline must be approved by Engistics.

Key Elements (continued)

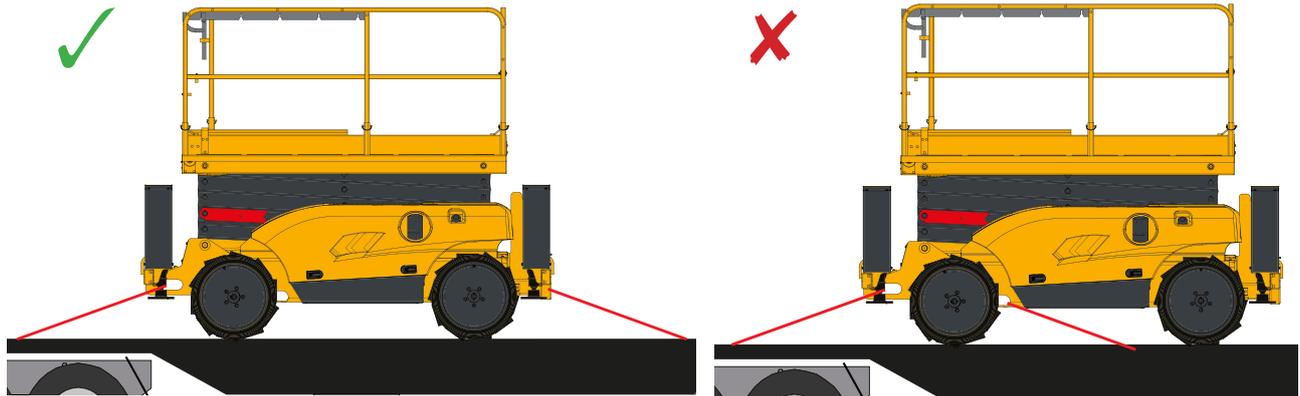
- ✓ Single file equipment must be loaded centrally across the trailer deck.



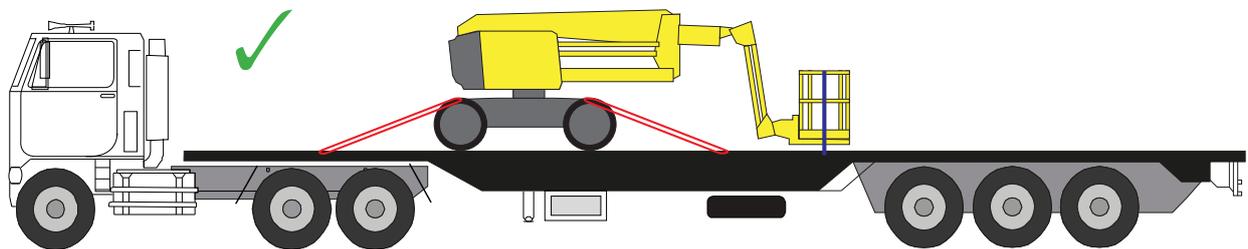
- ✓ Ensure shackles have the minimum rating required for each system as stated.



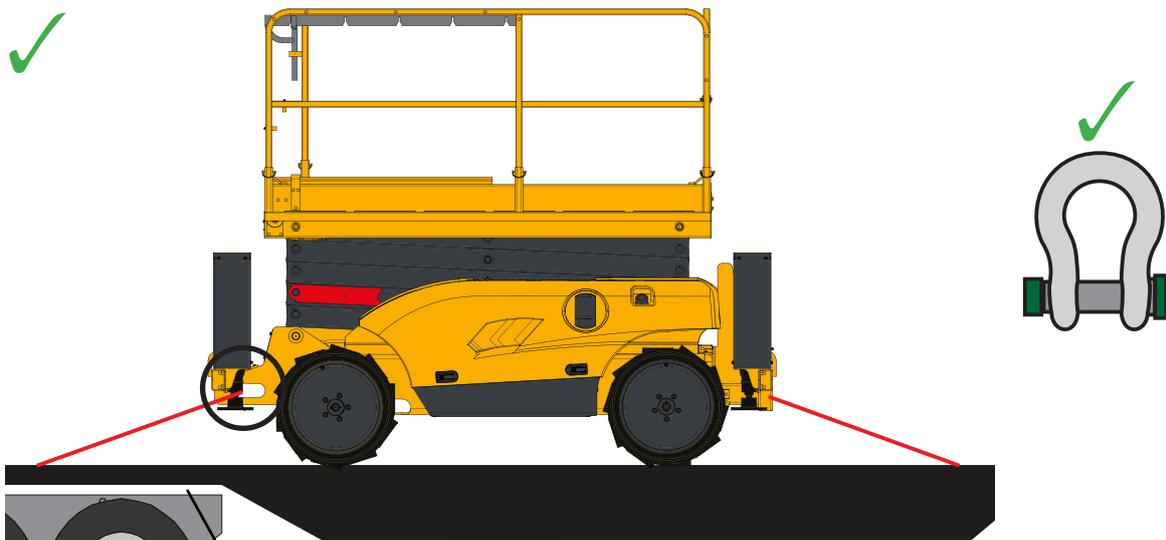
- ✓ Any looped chain greater than 8mm will require rated lashing points on the vehicle



Attach two chains to the rear and two chains to the front of the elevated work platform.



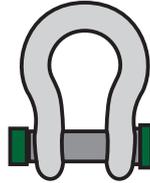
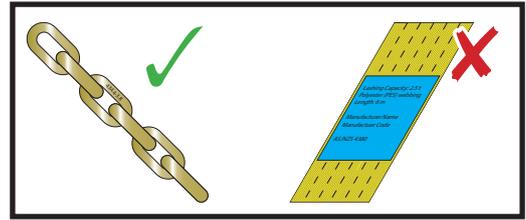
Elevated Work Platforms with booms must have them facing away from the prime mover.



Dedicated lashing points, axles and ROPs are suitable lashing points.

Scissor Lift - Dingli S06-ES (Chain Only)

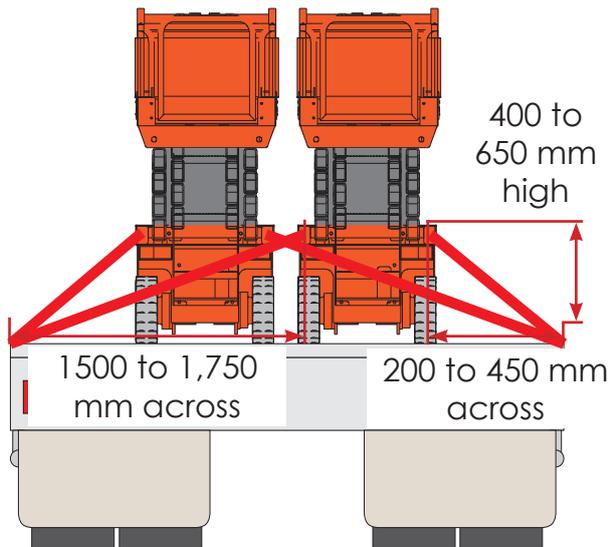
- ✓ Maximum mass of up to 2,000kg.
- ✓ Minimum 8 mm transport chains tensioned tight by standard load binder.
- ✓ Where chain access is restricted ensure shackles have a minimum W.L.L of 2.5 t and are used through tie down points.



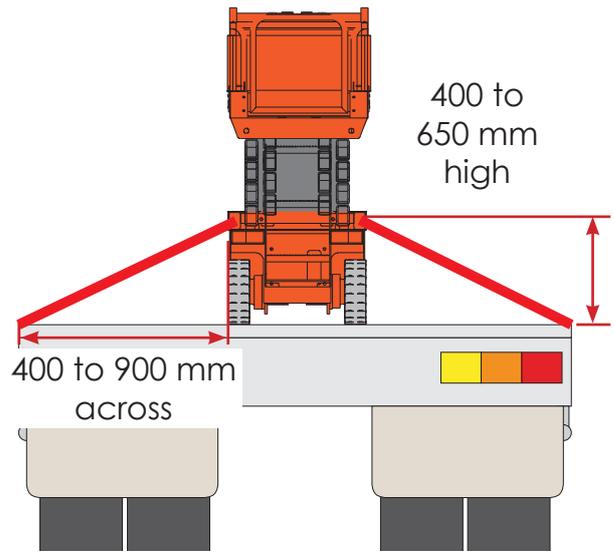
- ✓ Single Length chain arrangement.

- ✓ Ensure chains are within the outlined ranges below:

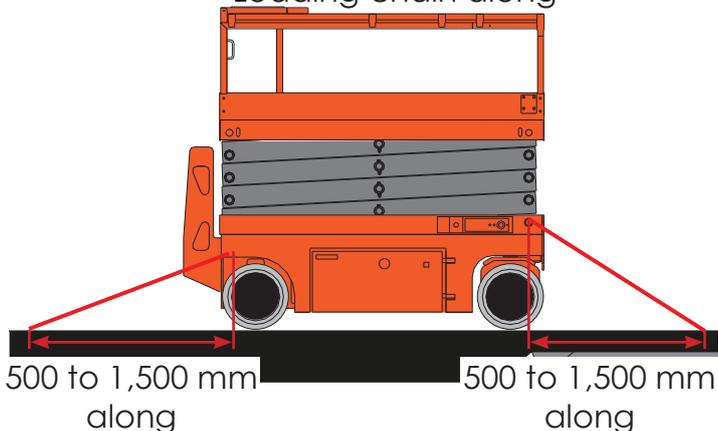
Longitudinal Two Abreast



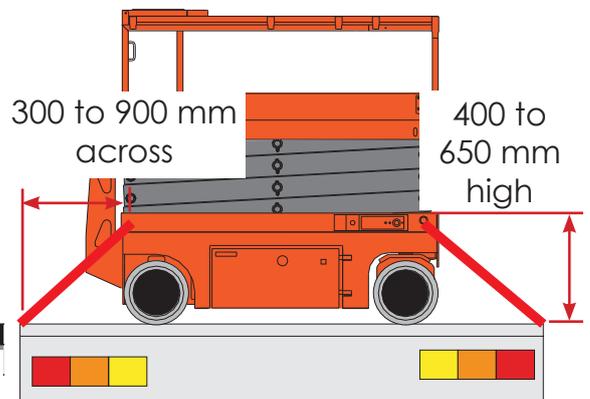
Longitudinal Single File



Lateral and longitudinal Loading chain along



Lateral Single File

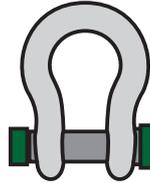
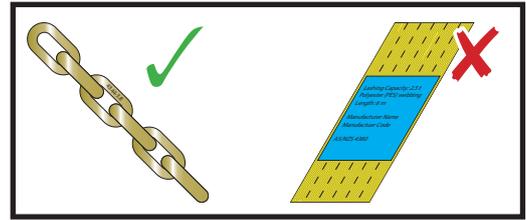


Scissor Lift - Dingli S06-ES Alternative Configuration (Chain Only)

✓ Maximum mass of up to 2,000kg.

✓ Minimum 8 mm transport chains tensioned tight by standard load binder.

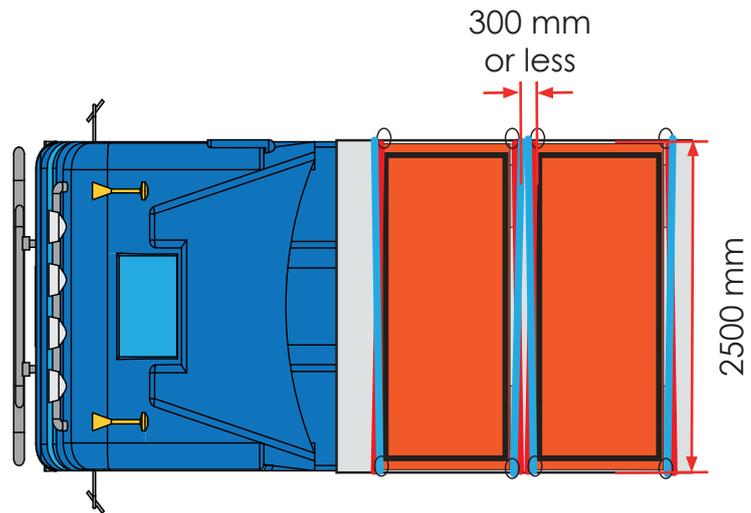
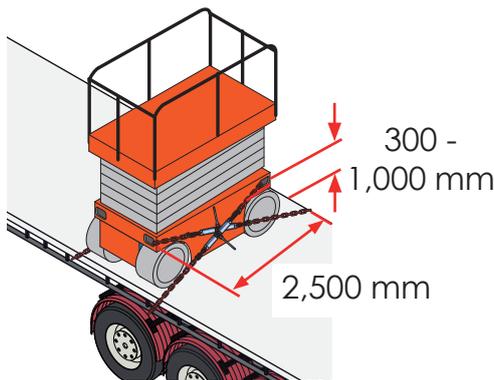
✓ Where chain access is restricted ensure shackles have a minimum W.L.L of 2.5 t and are used through tie down points.



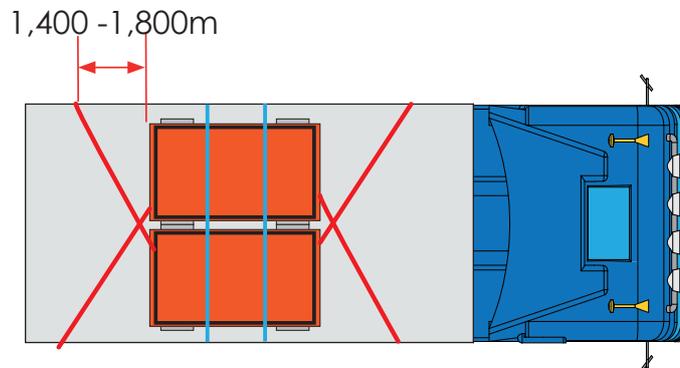
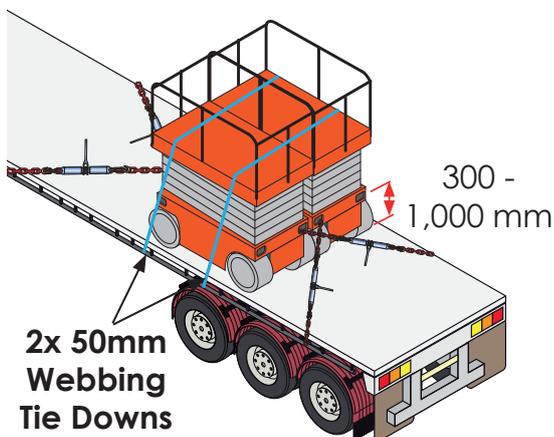
✓ Single Length chain arrangement.

✓ Ensure chains are within the outlined ranges below:

Single File



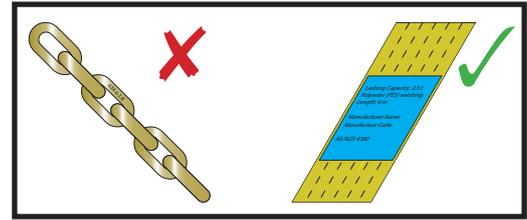
Two Abreast



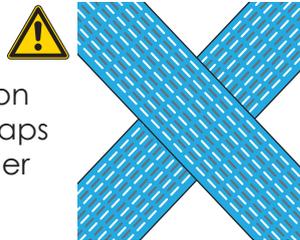
Scissor Lift - Dingli S06-ES (Webbing Only)

✓ Maximum mass of up to 1,600kg.

✓ Minimum 50 mm Webbing lashing with 2.5 t lashing capacity tensioned tight by standard Tensioner.

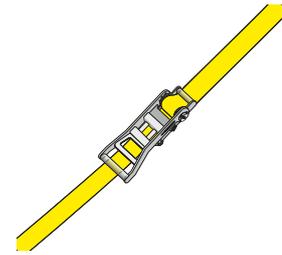


✓ Where strap access is restricted ensure shackles have a minimum W.L.L of 2.5 t and are used through tie down points.

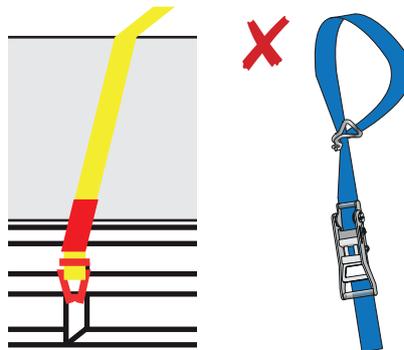


To prevent abrasion ensure webbing straps do not rub together

✓ Single Length webbing Arrangement.



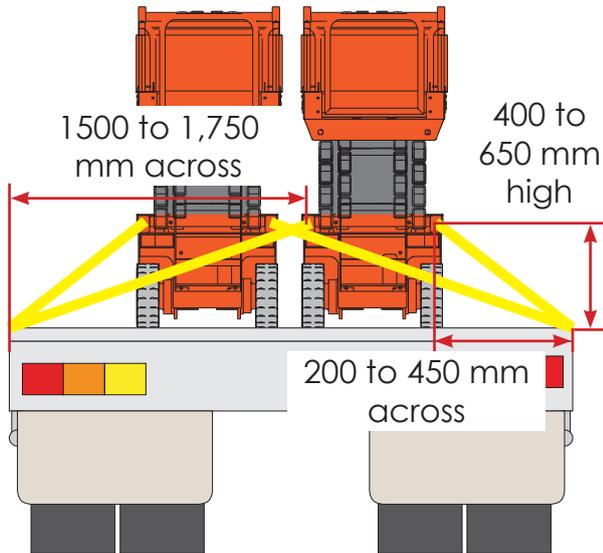
✓ Ensure wear sleeves are placed over the coaming rail



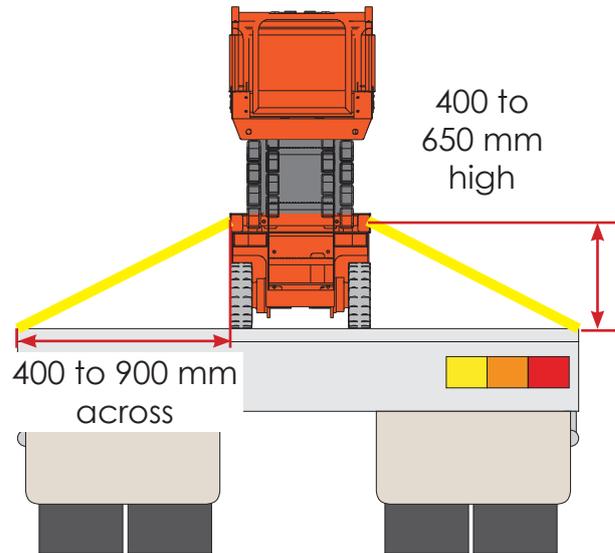
Do not loop attach the hook and keeper to the webbing strap

✓ Ensure straps are within the outlined ranges below:

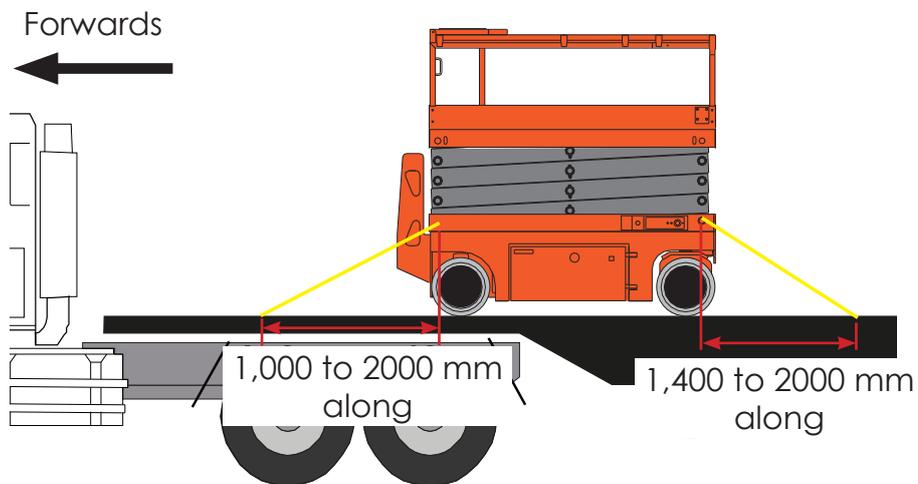
Longitudinal Two Abreast



Longitudinal Single File



Single File and Two Abreast Loading chain along

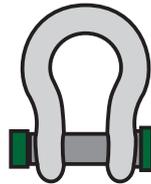
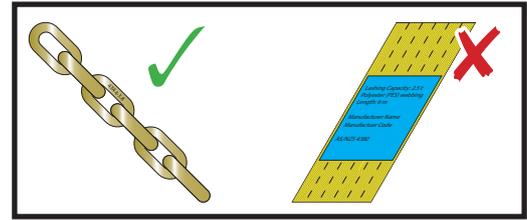


Scissor Lift - Haulotte Compact 10/12 DX

✓ Maximum mass of up to 4,000kg.

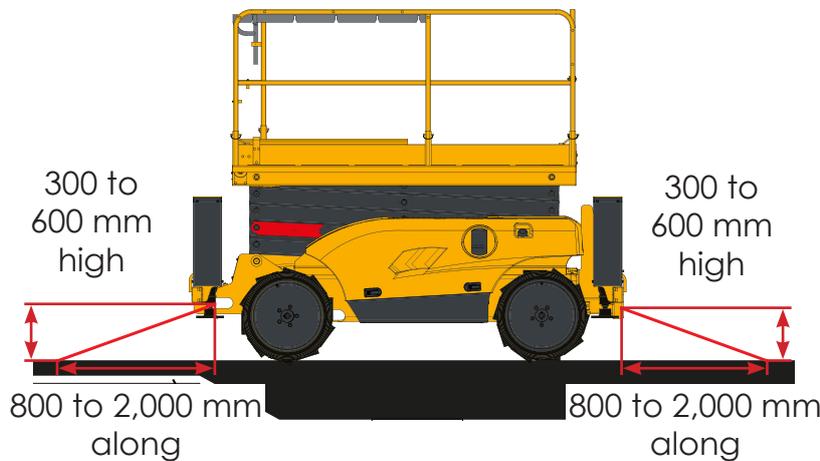
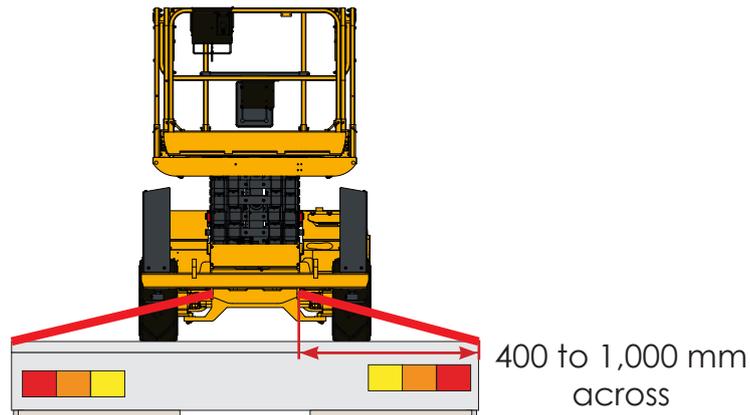
✓ Minimum 8 mm transport chains tensioned tight by standard load binder.

✓ Ensure shackles have a minimum W.L.L of 2.5 t and are used through tie down points.



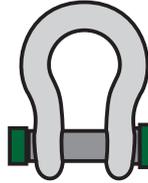
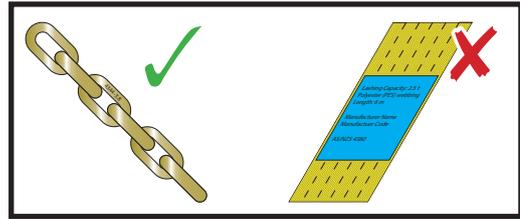
✓ Single Length chain arrangement.

✓ Ensure chains are within the outlined ranges below:



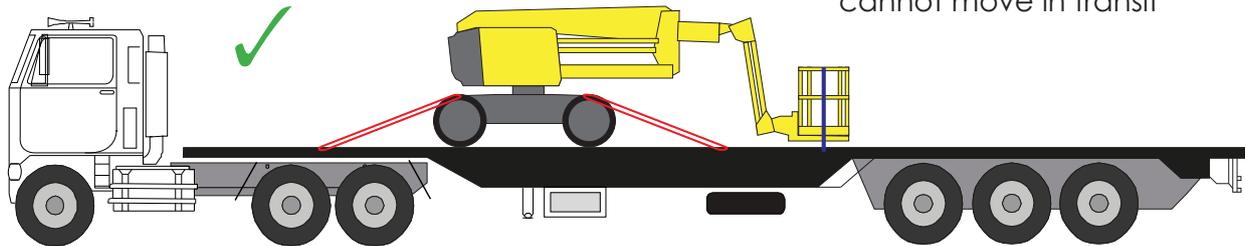
### Rough Terrain Boom Lift

- ✓ Maximum mass of up to 7,600kg.
- ✓ Minimum 8 mm transport chains tensioned tight by standard load binder.
- ✓ Where chain access is restricted ensure shackles have a minimum W.L.L of 5.0 t and are used through tie down points.
- ✓ Ensure pins are installed to prevent any movement during transport.



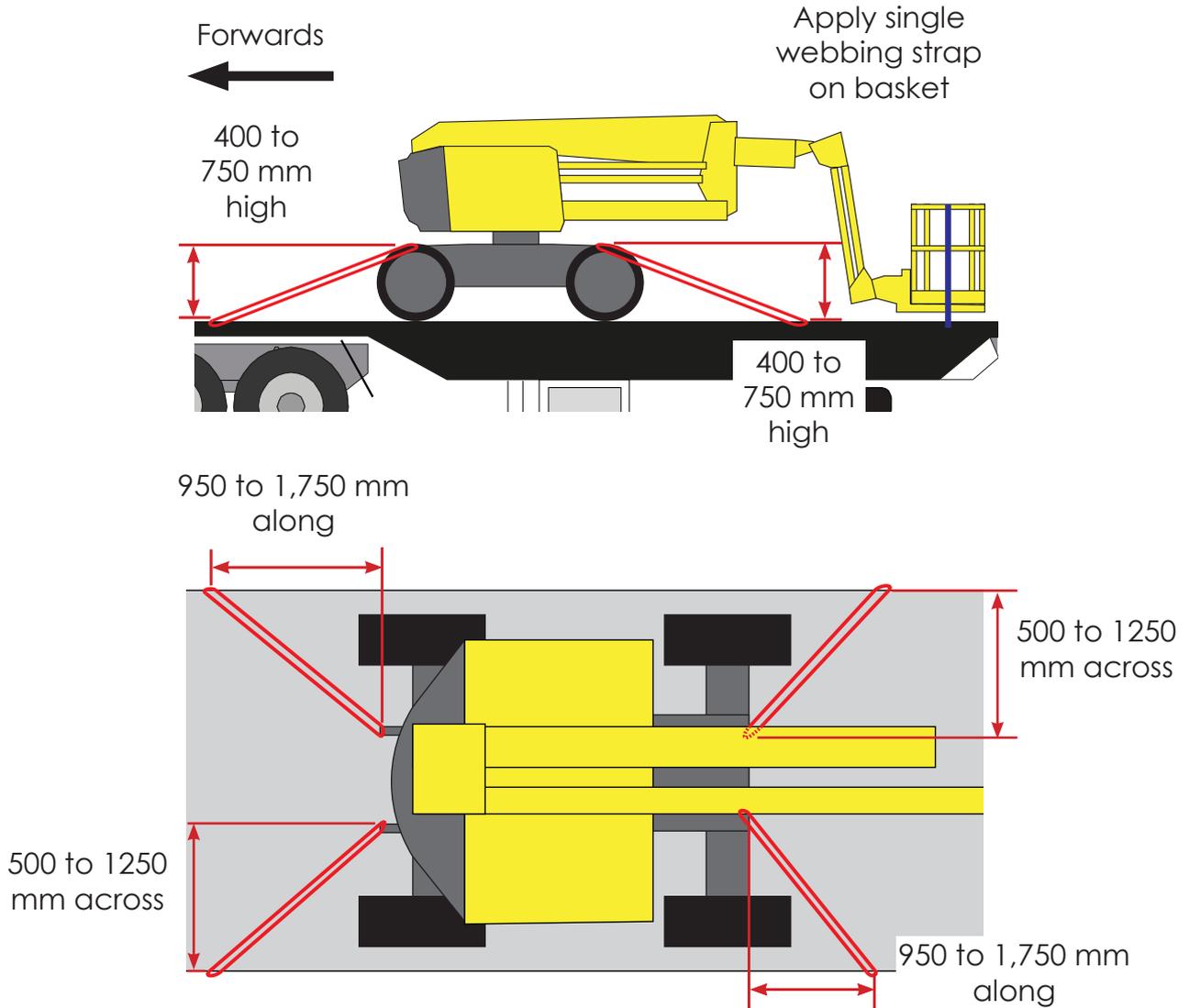
- ✓ Looped chain arrangement.

- ✓ Ensure boom lockouts are engaged so that the boom cannot move in transit



Boom lift must be reversed onto the trailer so that the boom facing away from the prime mover.

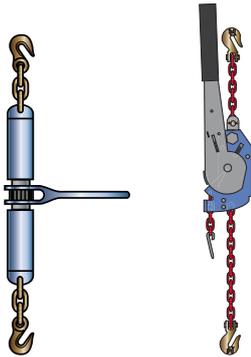
✓ Ensure chains are within the outlined ranges below:



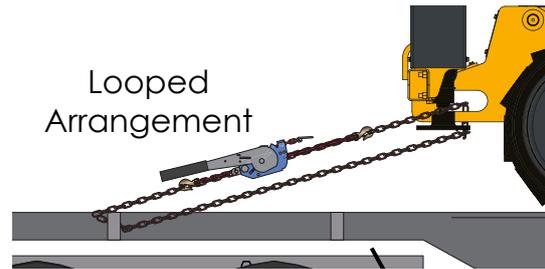
### This guideline:

- Applies to rubber tyred Sennebogen Material Handlers up to 30t, rubber tyred Sennebogen Telehandlers up to 12t and Sennebogen attachments up to 3.5t.
- Is the loader and driver guide to the certification E01711-LRC2 to meet the loading *Performance Standards* contained within the *Heavy Vehicle (Mass, Dimension and Loading) National Regulation (22 February 2021)*.

### Key Elements

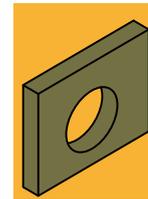
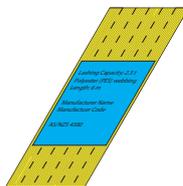


- ✓ Ausbinders, turnbuckle ratchets or similar are acceptable load binders.



- ✓ Lashings are to be installed in a looped arrangement.

- ✓ Minimum 50 mm Webbing lashing tensioned tight by standard tensioner.



- ✓ Attach chains to designated anchor points.

- ✓ Ensure locking pins are installed to prevent any movement during transport.



- ✓ Lashing protection may be required to prevent damage to the plant when using chain.

- ✓ If using shackles they must have a minimum W.L.L of 9.5 t.

**Sennebogen Material Handlers**

- ✓ Maximum mass of up to 30,000kg.
- ✓ Includes Sennebogen models 718E to 830E, 718 to 830 and similar.
- ✓ Plant must have rubber tyres.
- ✓ Minimum 10mm transport chains tensioned tight with a load binder.
- ✓ Plant must be reversed onto the trailer.

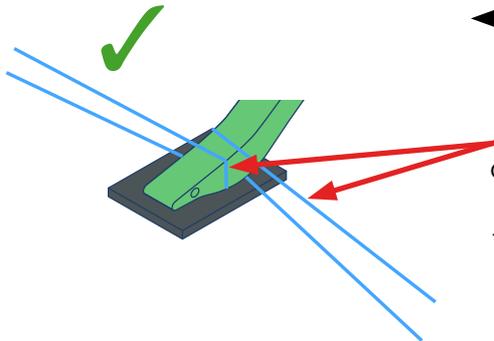
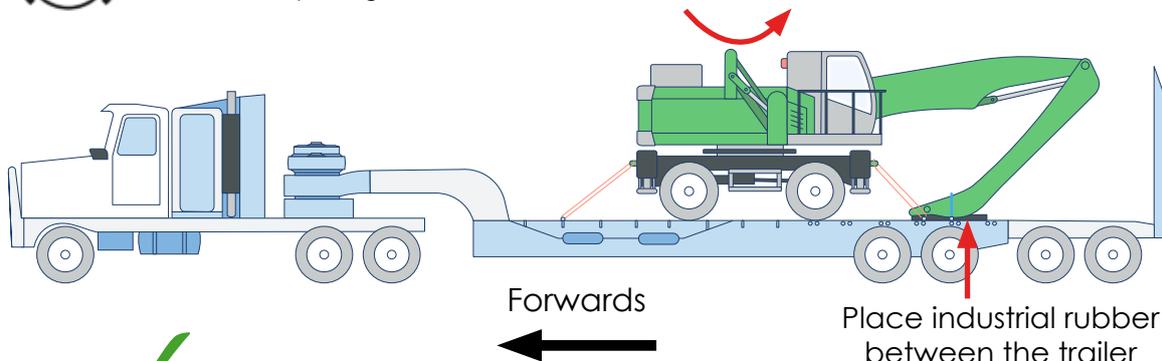


- ✓ Looped chain arrangement.

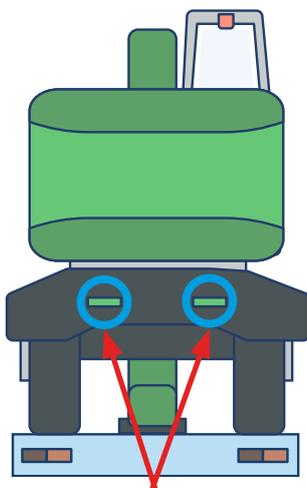
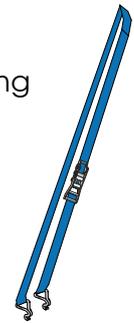
**(P)** Ensure the mobile plant park brake is engaged before transporting.



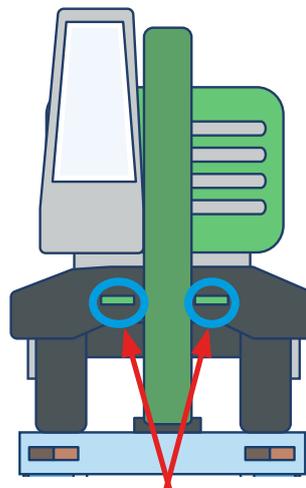
Ensure the mobile plant slew ring and boom lockouts are engaged before transporting.



- ✓ Looped webbing arrangement.



- ✓ Attach chains 1 & 2 to the dedicated rear lashing points.



- ✓ Attach chains 3, 4, 5 & 6 to the dedicated front lashing points.

✓ Ensure chains are within the outlined ranges below:

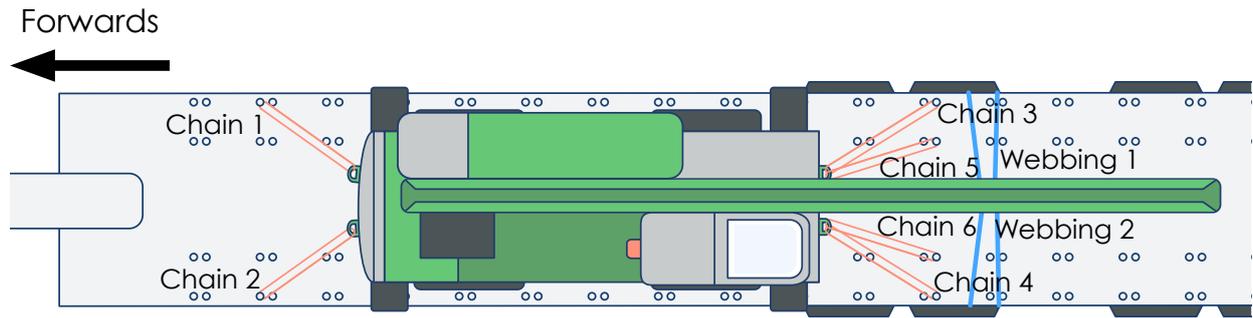
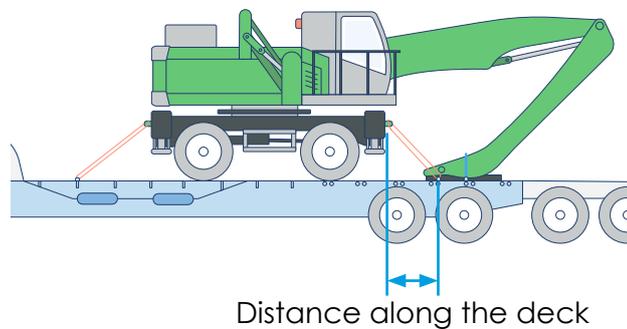
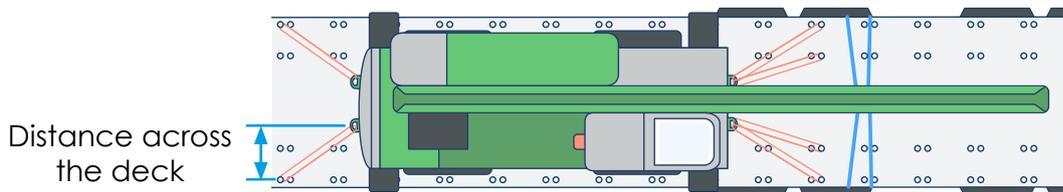


Table A: Chain distances for Sennebogen Material Handlers

<b>Chain Number</b>	<b>Distance Along the Deck (mm)</b>	<b>Distance Across the Deck (mm)</b>
<b>1</b>	<b>1100-2000</b>	<b>600-750</b>
<b>2</b>	<b>1100-2000</b>	<b>600-750</b>
<b>3</b>	<b>1100-2000</b>	<b>600-750</b>
<b>4</b>	<b>1100-2000</b>	<b>600-750</b>
<b>5</b>	<b>1100-2000</b>	<b>0-150</b>
<b>6</b>	<b>1100-2000</b>	<b>0-150</b>

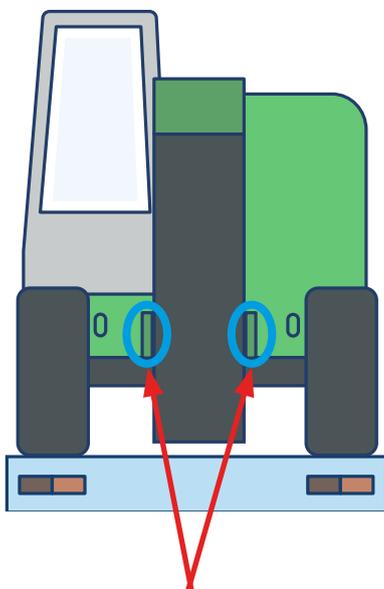
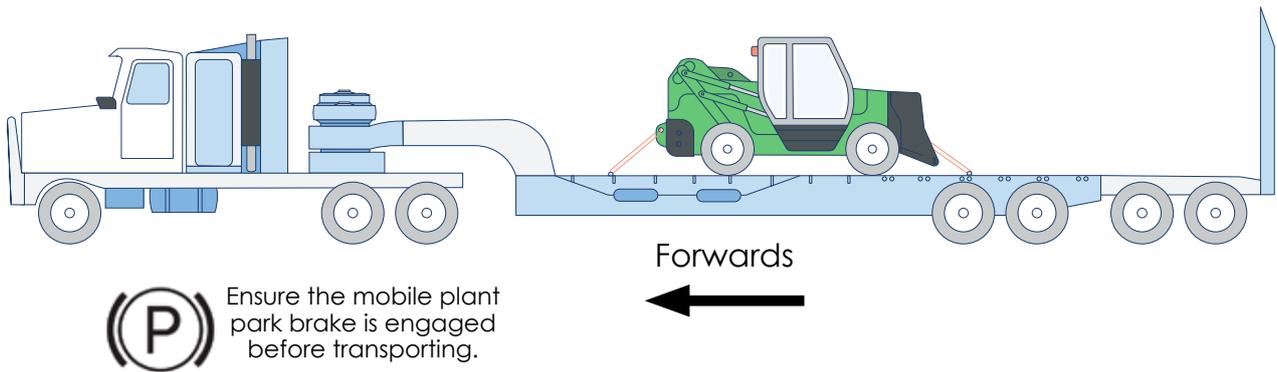


### Sennebogen 355 Telehandler

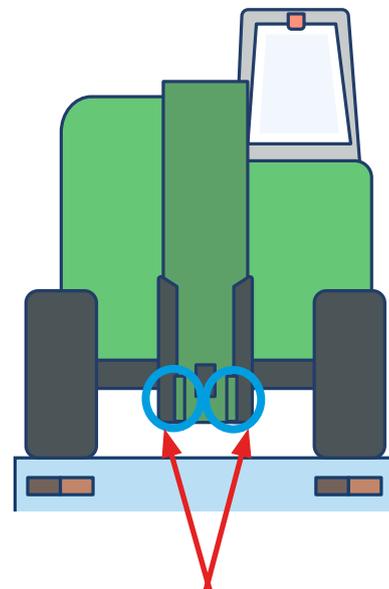
- ✓ Applies to Sennebogen 355 telehandlers with a maximum mass of up to 12,000kg.
- ✓ Plant must have rubber tyres.
- ✓ Minimum 8mm transport chains tensioned tight with a load binder.
- ✓ Plant must be reversed onto the trailer.



- ✓ Looped chain arrangement.



- ✓ Attach chains 1 & 2 to the dedicated rear lashing points.



- ✓ Attach chains 3 & 4 to the dedicated front lashing points.

✔ Ensure chains are within the outlined ranges below:

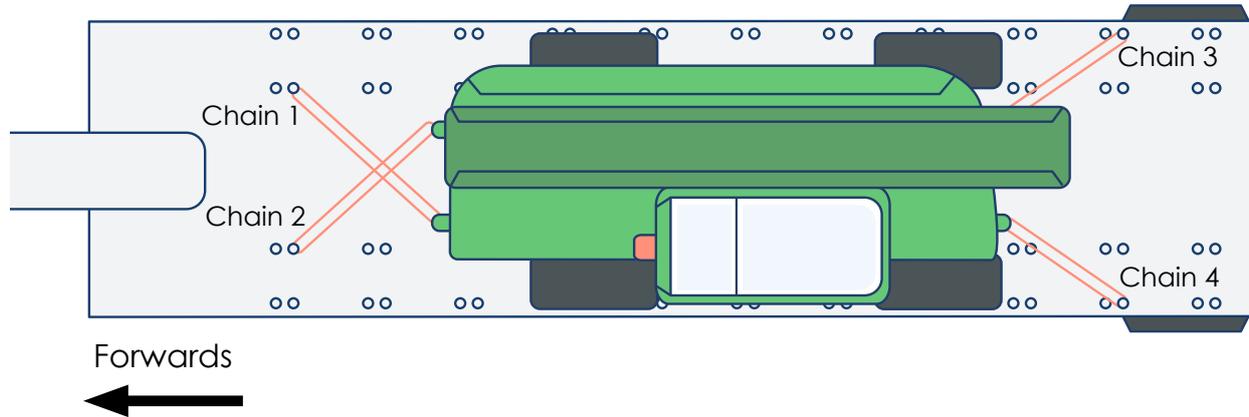
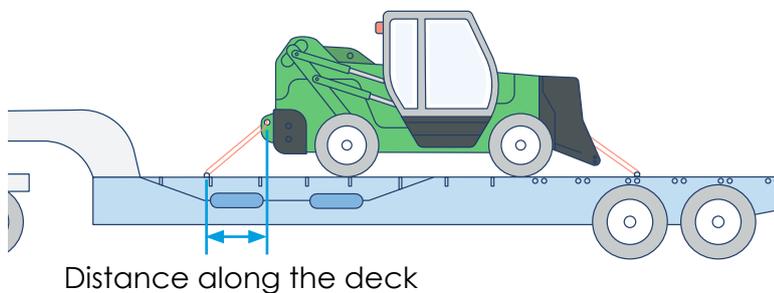
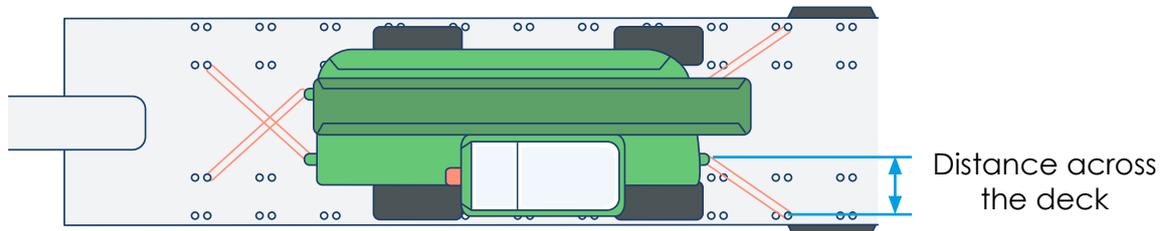


Table B: Chain distances for Sennebogen 355

<b>Chain Number</b>	<b>Distance Along the Deck (mm)</b>	<b>Distance Across the Deck (mm)</b>
<b>1</b>	<b>1100-2000</b>	<b>850-1000</b>
<b>2</b>	<b>1100-2000</b>	<b>850-1000</b>
<b>3</b>	<b>1100-2000</b>	<b>600-750</b>
<b>4</b>	<b>1100-2000</b>	<b>600-750</b>



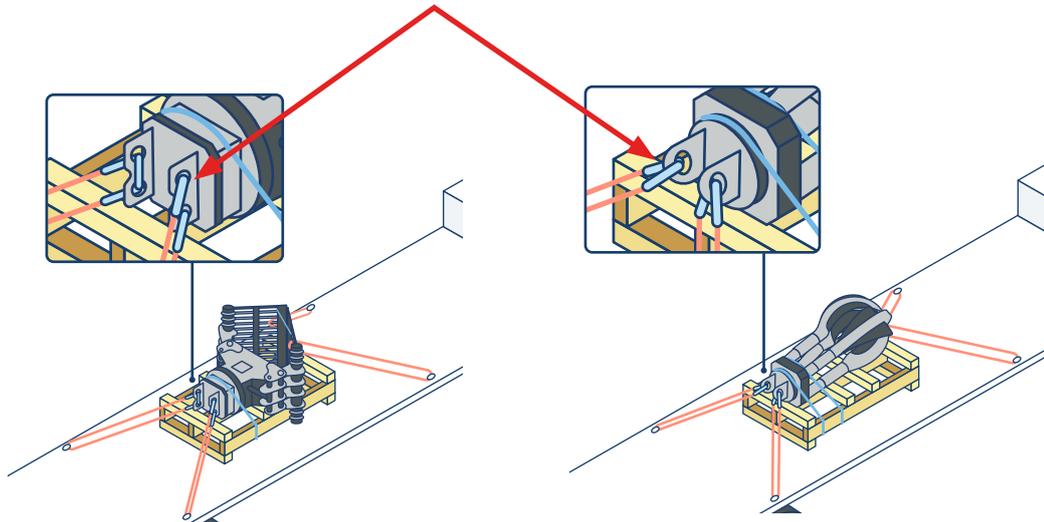
## Attachments

- ✓ Applies to Sennebogen orange peel and sorting grab attachments with a maximum mass of up to 3,000kg.
- ✓ Attachments must be transported on hardwood skids or pallets.
- ✓ Minimum 50 mm webbing straps tensioned tight.

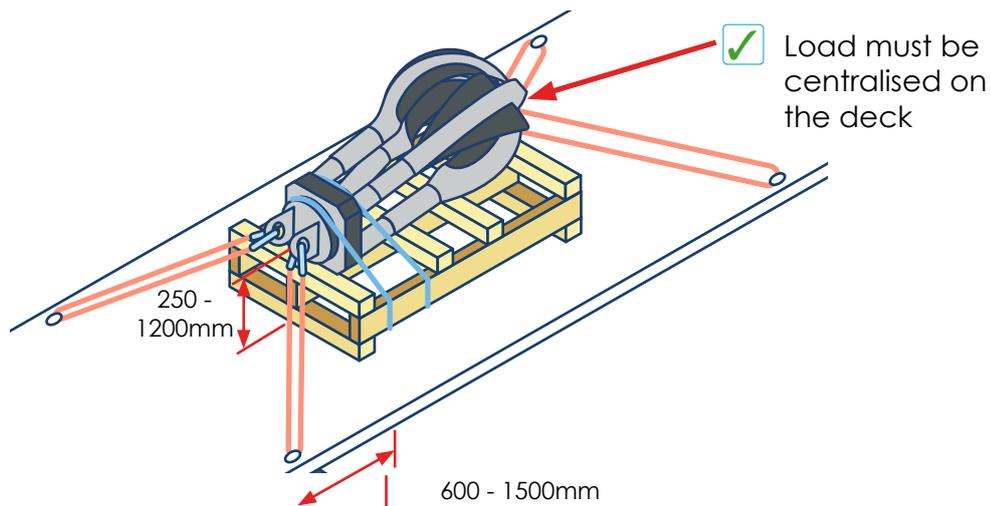
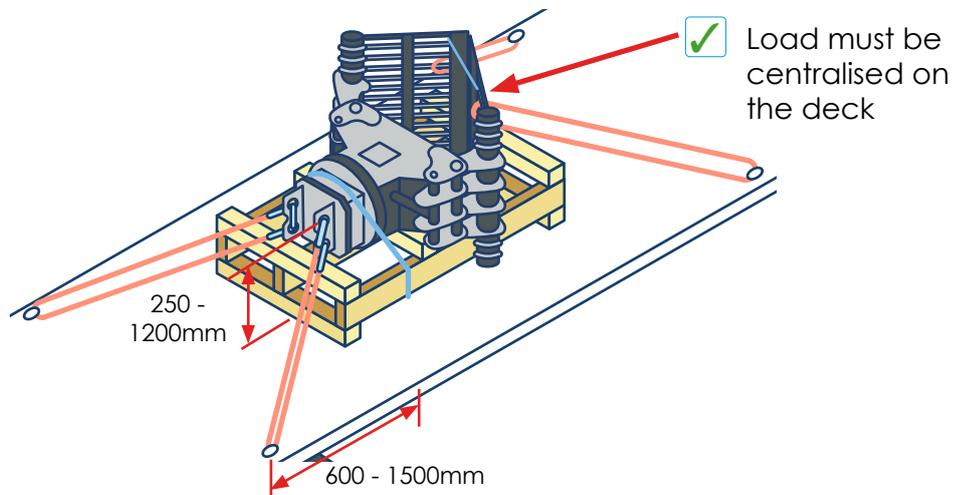


- ✓ Looped webbing arrangement.

- ✓ Use heavy webbing protection sleeves to protect webbing strap from abrasion . Examples include Secutex Cut Protection Sleeve, Lift-All Edge Defender, etc. Standard wear sleeves unlikely to be suitable.



- ✓ Use four looped webbing straps within the outlined ranges below to secure the attachments:



This document provides the practical information and key methods for securing the nominated freight type(s) to the relevant certification. Engistics has developed this guideline to comply with the relevant standards and legislation. Additional requirements may be necessary under some conditions outside the nominated application of this guideline and Engistics and provides no warranty for circumstances outside the nominated application. The information contained in this guideline is confidential to and remains the property of Engistics Pty Ltd for use by Pacific Materials Handling Pty Ltd. Any changes to this guideline must be approved by Engistics. Further details are available on the accompanying Certification to this Guideline.