

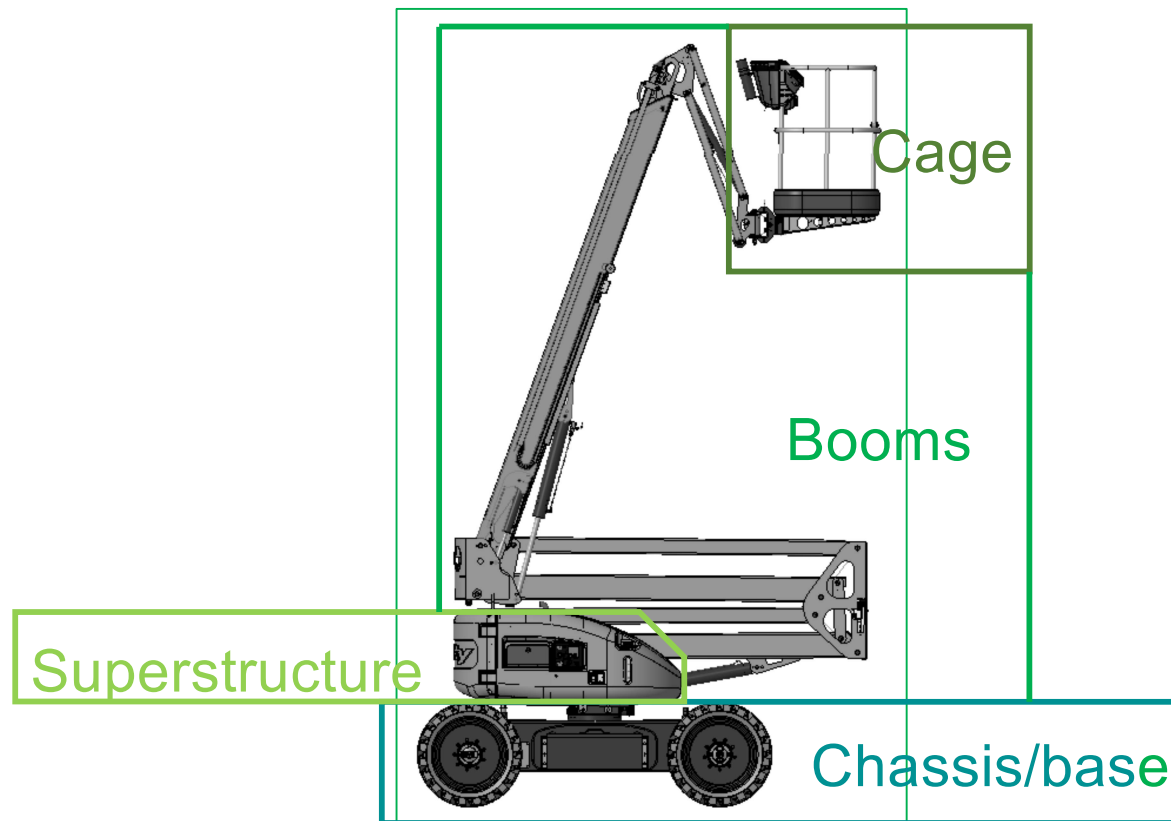
Machine Descriptions

for the TRA

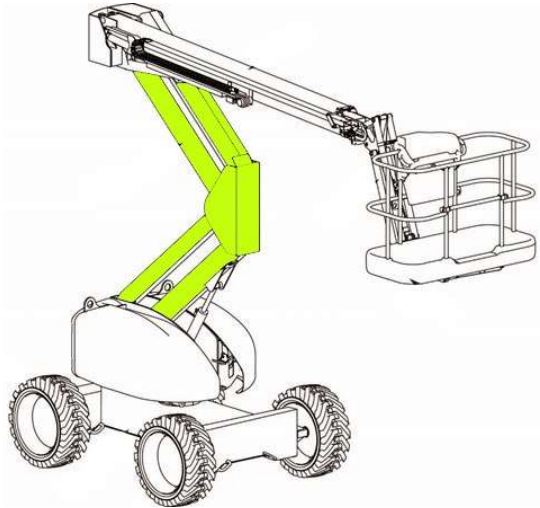
Machine Descriptions

1. Machine structure
2. Key electrical parts
3. Key hydraulic parts

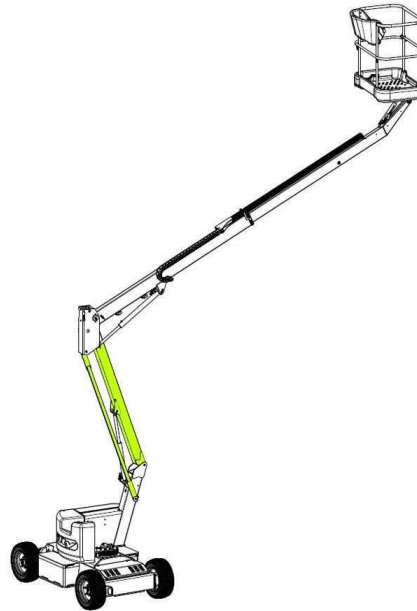
Machine structure



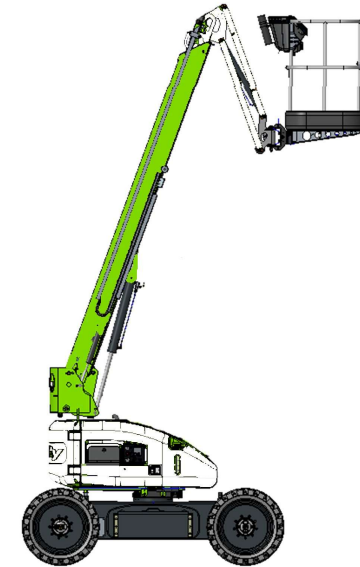
Niftylift boom types – CS00302



A **Links** boom configuration MEWP compromises of a boom structure where by the lower boom assembly is made up of two sets of parallel booms. The boom movement achieves a vertical movement of the cage.

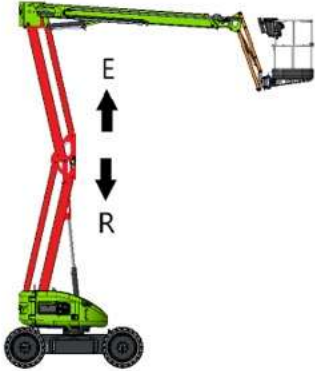



Riser boom configuration
A Riser boom configuration MEWP compromises of a boom structure where by the lower boom assembly is made up of a single set of parallel booms. The boom movement achieves a up and out movement of the cage.

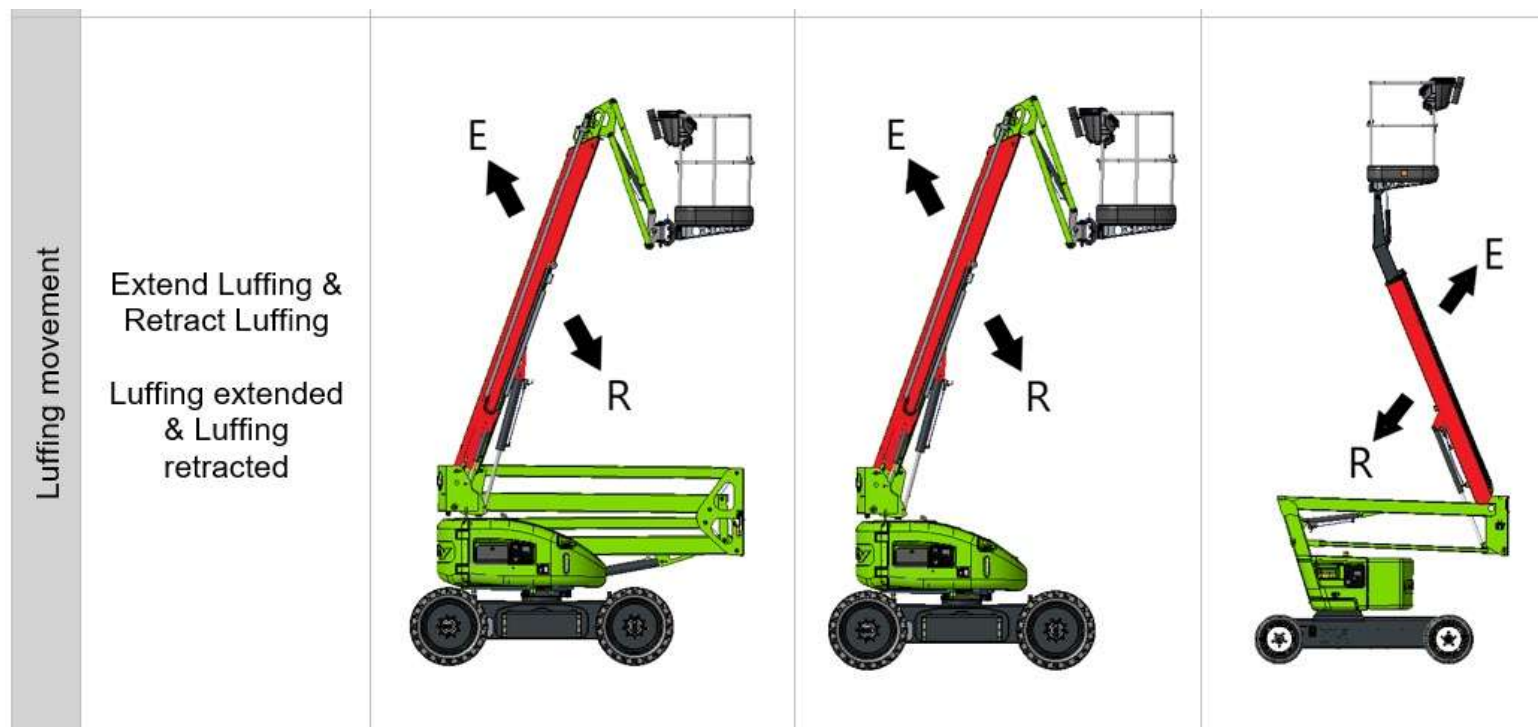


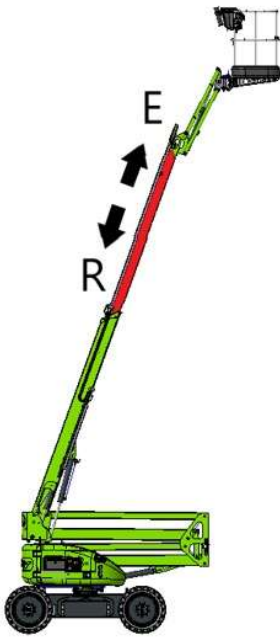
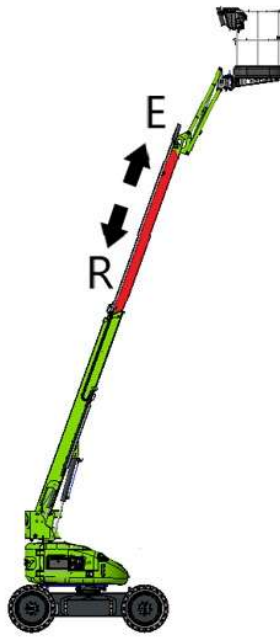
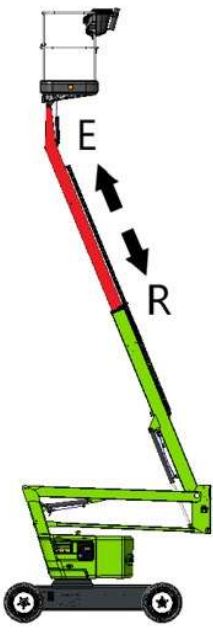
A **Stick** boom configuration MEWP has no lower boom structure and is made up of a single telescopic boom. The boom movement achieves minimal up an over movement but full height can be achieved with a single function.

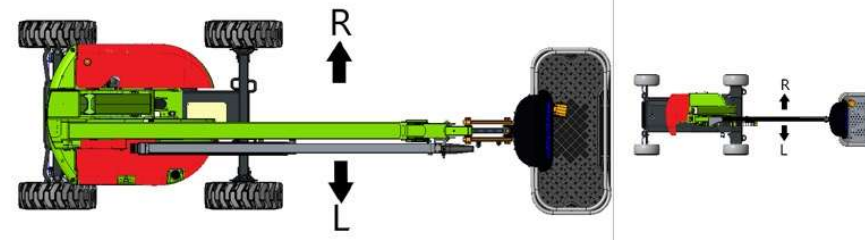

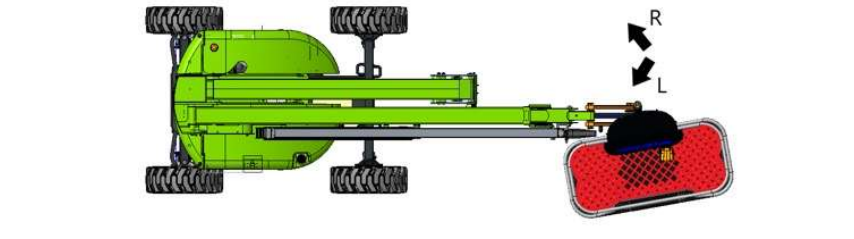
Boom/movement Descriptions – CS00302

	Directional/ <u>positional</u> <u>description</u>	Boom configuration type		
		Links Booms	Stick Booms	Riser Booms
Links movement	Extend Links & Retract Links Links extended & Links retracted		N/A	N/A
Riser movement	Extend Riser & Retract Riser Riser extended & Riser retracted	N/A	N/A	

Also known
as boom 2



	Directional/ positional description	Boom configuration type		
		Links Booms	Stick Booms	Riser Booms
Telescope Movement	<p>Extend Telescope & Retract Telescope</p> <p>Telescope extended & Telescope retracted</p>			

Slew Movement	<p>Slew Left & Slew Right</p> <p>Slewed 180° left & Slewed 180° right</p>		
Fly Movement	<p>Extend Fly & Retract Fly</p> <p>Fly extended & Fly retracted</p>		N/A
Cage Rotate Movement	<p>Cage Rotate Left & Cage Rotate Right</p> <p>Cage rotated 180° left, Cage rotated 180° right</p>		



Niftylift hydraulics – a (very) brief summary

1. Hydraulics – relating to a liquid moving in a confined space under pressure.
2. The pump is driven by a prime mover (electric motor and/or engine) and generates hydraulic power, this is distributed by hoses, to valves which control actuators (rams/motors etc...) which carry out useful work.

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niftylift

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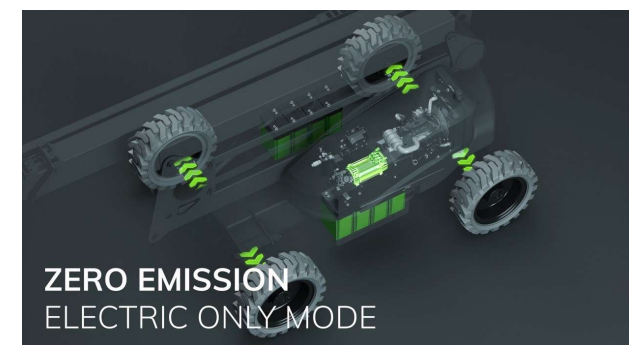
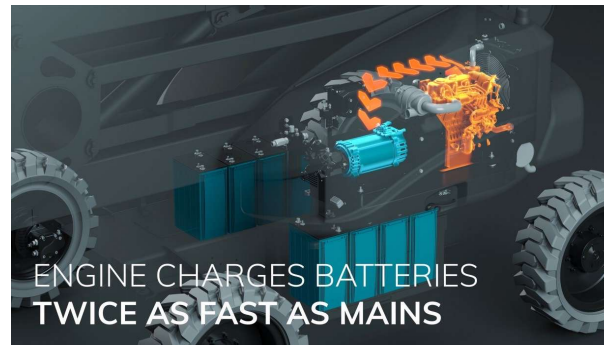
Innovations

1. All-Electric
2. Gen2 Hybrid
3. Niftylink
4. SiOPS



Gen2 Hybrid

- Update of hybrid system we have been producing for 15 years.



All-Electric



- Electrically driven wheels instead of hydraulic
- Battery power only – No emissions
- Can complete 32 or more SDC cycles

[The Niftylift All-Electric Range - YouTube](#)

Niftylink

- Telematics
- Can be retrofitted to all machines
- Standard on digital machines
- Data used by customers and Niftylift to understand machine usage

[Niftylink Manager - YouTube](#)



SiOPS (Sustained Involuntary Operation Protection system)



[Nifty SiOPS — Stops Machine Movement Instantly - YouTube](#)



Machine and operator moving towards obstacle



Operator pushed over the controls causing risk of sustained involuntary operation



Machine stops Footswitch deactivated Manual override available