

TOYOTA

MATERIAL HANDLING

Vector A-series

Product Presentation

2023-02-14

Vector A-series

Full range of articulated VNA combi trucks



VCE100A



VCE120A



VCE150A



VCE125ASF

Vector A-series

VCE100A

- Rated capacity 1000 kg
- Duplex tele mast
- Max. Lift height 10 500 mm
- Lift speed 0,4 m/s
- 1270 mm, 1420 mm chassis
- Battery depth 499 mm
- Travel speed 9 km/h



VCE100A

Vector A-series

VCE120A

- Rated capacity 1200 kg
- Duplex tele mast
- Max. Lift height 10 500 mm
- Lift speed 0,4 m/s
- 1270 mm, 1420 mm chassis
- Battery depth 499 mm, 571 mm
- Travel speed 9 km/h



VCE120A

Vector A-series

VCE150A

- Rated capacity 1500 kg
- Triplex tele mast
- Max. Lift height 16 800 mm
- Lift speed 0,4 m/s
- 1270 mm – 1700 mm chassis
- Battery depth 499 mm, 571 mm, 643 mm
- Travel speed 10/12 km/h (WG/RG)
- Advanced Lifting System



VCE150A

Product highlights

Articulated steering

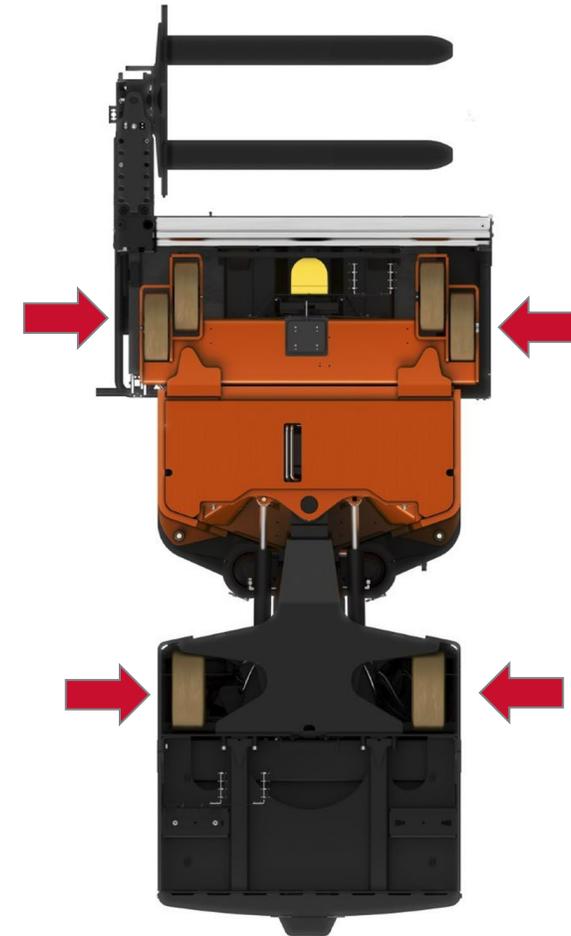
- Space saving
Over 1.0 m narrower transfer aisle than a non-articulated truck.
- Excellent manoeuvrability
Easy to drive close to racking and in all free-ranging situations.
- Fast aisle changes
Often quicker than 10 seconds.



Product highlights

Four wheeled chassis

- Stability
- Top line lift capacity at any height is assured.
- Low floor loads
- 25% less wheel pressure compared with a 3-wheeled set-up.
- Where grinding is required, only two tracks is needed.



Product highlights

Twin drive units

- Powerful twin drive units
- Fast acceleration
- Reduces cycle times



Product highlights

Quadset support wheels

- Smoother ride
The wheel offset counteracts floor defects.
- Compact guide wheel position
Mounted close to the chassis for best possible protection and guidance.
- Optimised Stability
Improved forward and side stability.
- Bolt-on support wheel assembly
Simple to change the chassis width.
- Support wheel brakes available
Required for wire guidance, higher drive speed in rail guidance



Product highlights

Personal Protection System (PPS)

- Inhouse system
- Designed for efficient commissioning by Toyota service tech
- Detects obstructing objects inside the very narrow aisle
- Brings the truck to stand-still in case of obstructions
- Will soon be released for Optio H range, later Vector R range

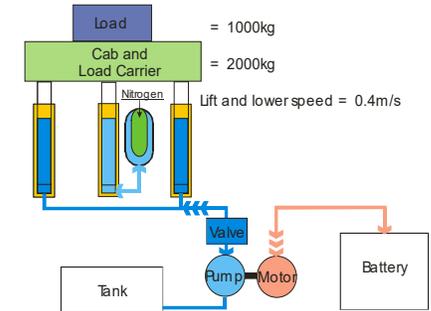


VCE150A/125ASF

Product highlights

Advanced lift system (ALS)

- The balance system (B-cylinder) and regeneration result in low energy consumption.
- Three stage tele mast
Compact, sturdy and smooth triplex mast.
- Combined lift and lower
Separate motors for main and auxiliary lift. Combined lift speeds in excess of 0.7m/s with load. Adjust the fork position while using the main lift.



Product highlights

Beldriven fork movement

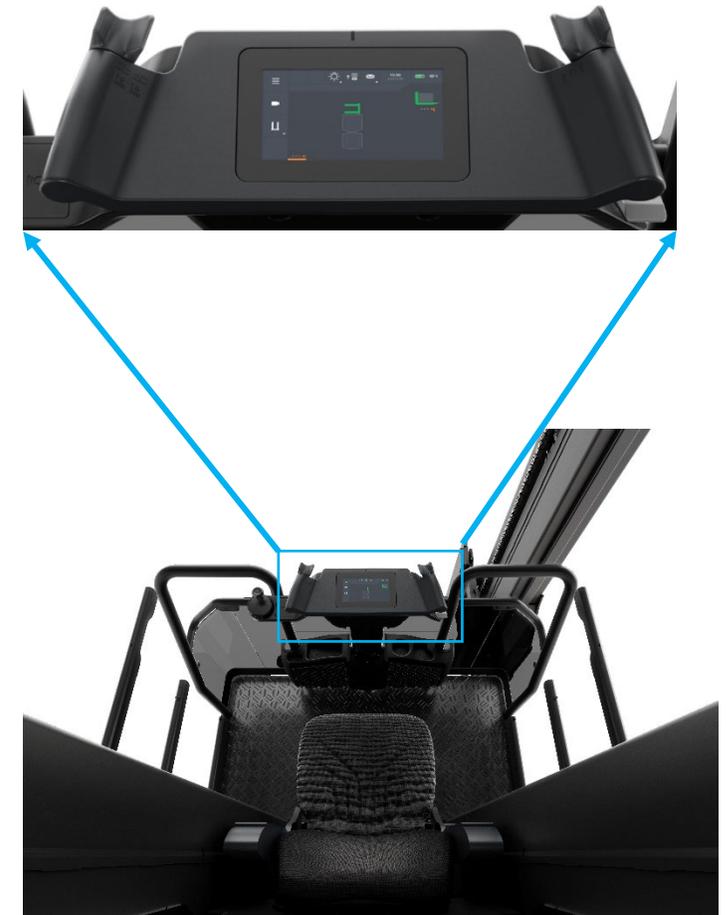
- Smooth action belt drive
No gear rack, no vibration and no lubrication.
- Adaptive movement speeds
Traverse and rotation speeds adapt to the load weight and lift height.
- Clear view
Excellent view of the forks, loads in the racking and other traffic.
- Increased floor space
The cab floor is integrated in the turret head unit giving increased foot space.



Product highlights

Modern driver environment

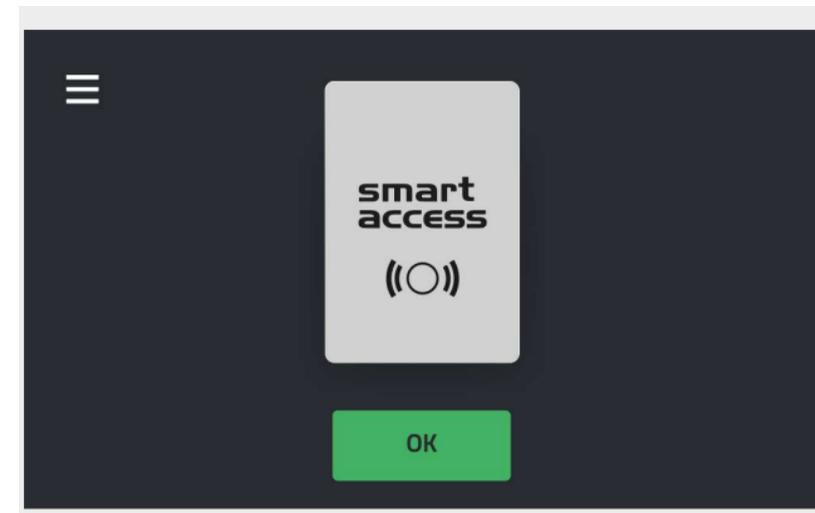
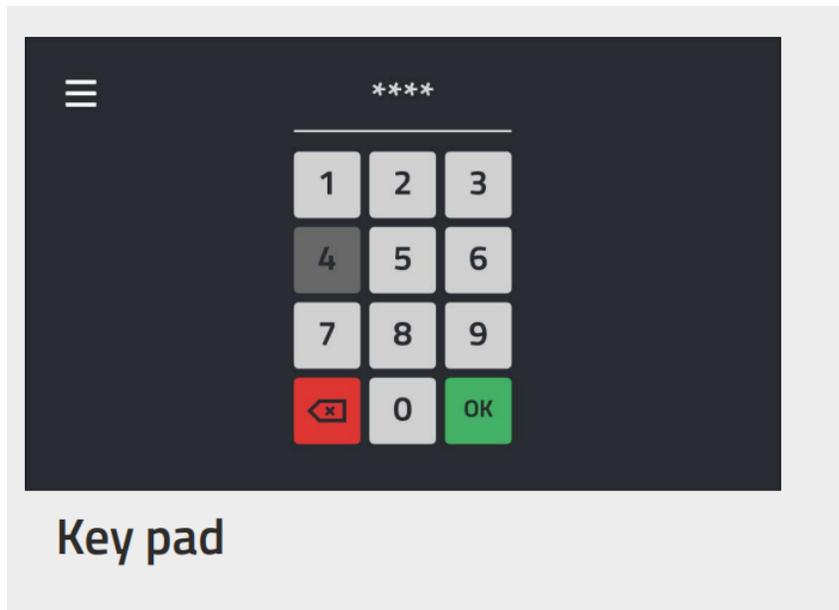
- VCE100A, VCE120A, VCE150A, VCE125ASF
- Updated driver's compartment with new HMI (Human – Machine – Interface)
- New controls with improved driver experience
- New colour touch display for improved interactivity driver – machine
- New foldable gates, similar to high level order pickers
- New colour scheme and mat for a modern driver's environment



Product highlights

Modern driver environment

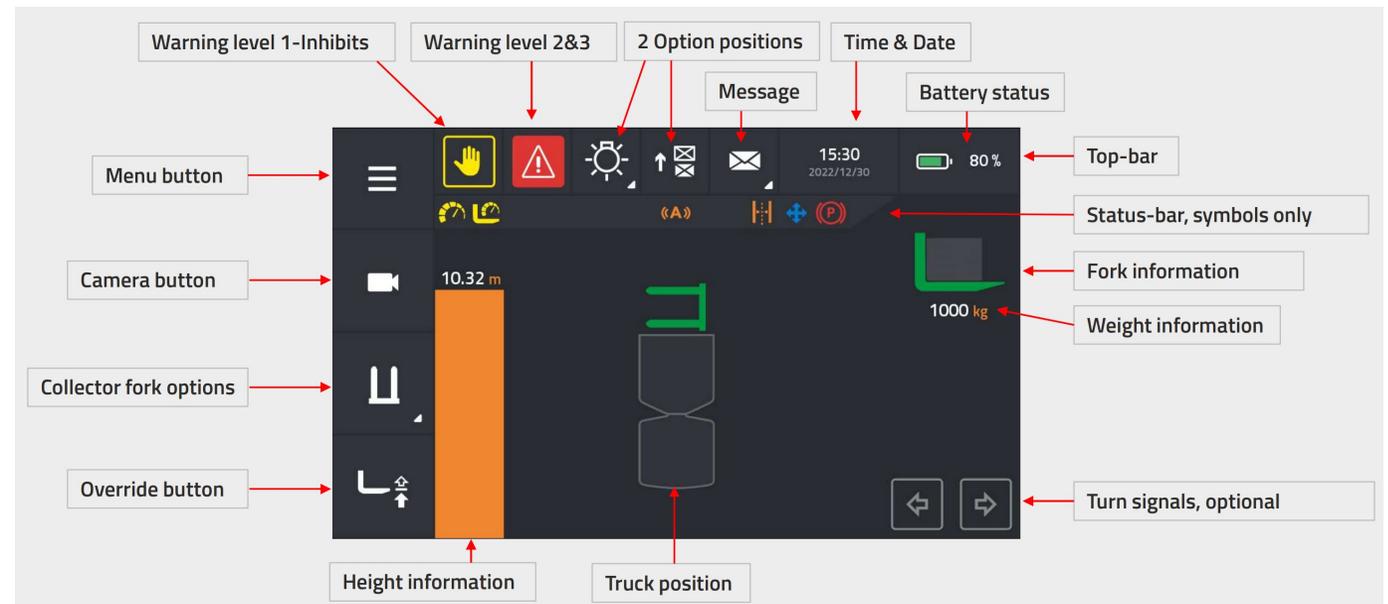
- Pin code access or optional smart access



Product highlights

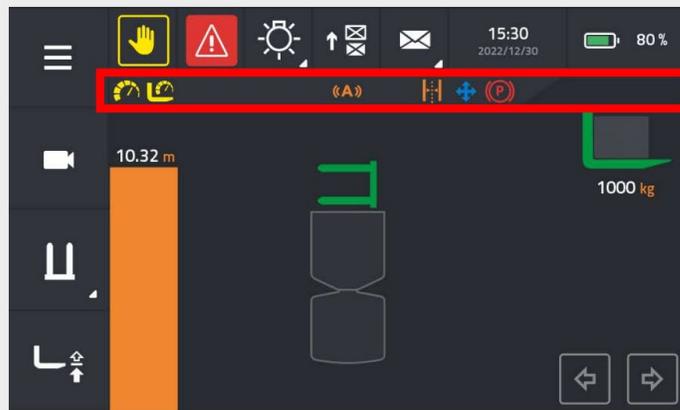
Modern driver environment

- Icon based information
- Logical symbols
- Standardized cross range interface



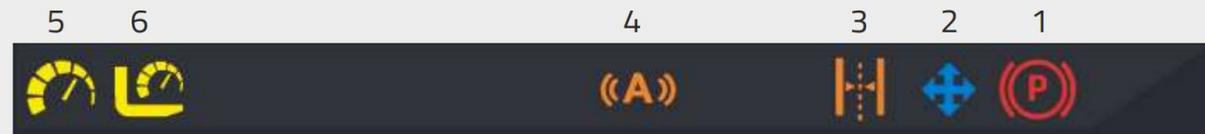
Product highlights

Modern driver environment



Status bar shows not clickable symbols

Status bar positions:



- 1) Parking brake active
- 2) Shift
- 3) Wire Guidance
- 4) Auto Drive (double width, centered) – activates when ZAP is used
- 5) Reduced Speed, shown in combination with Warning Level 1
- 6) Reduced Lift speed (+reduced speed) , shown in combination with Warning Level 1

Product highlights

Modern driver environment

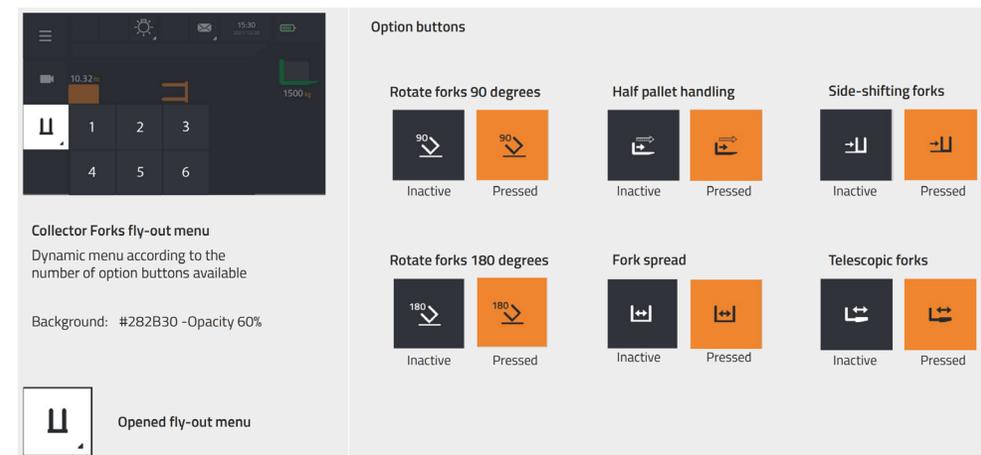
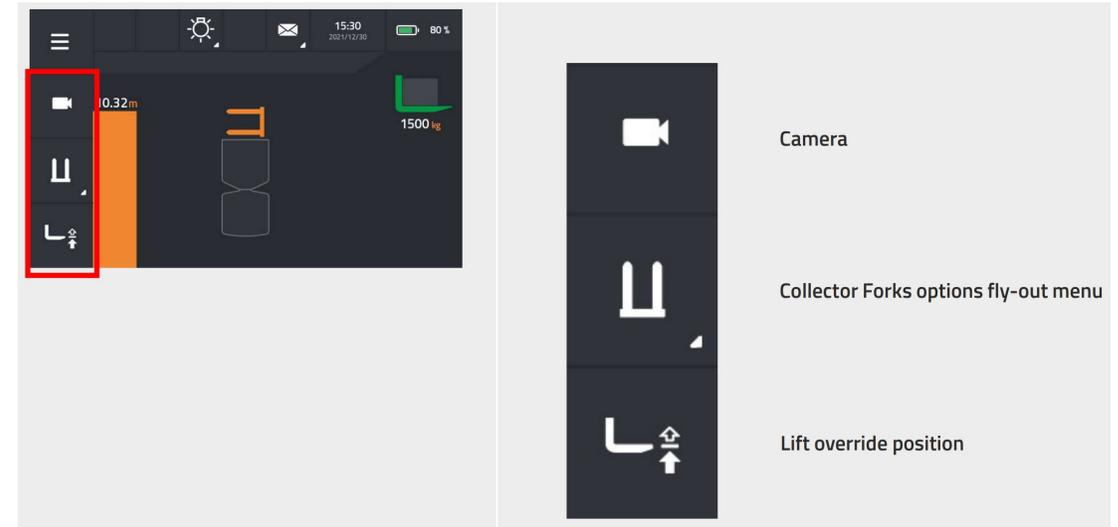
- Current lift height
- Current fork load



Product highlights

Modern driver environment

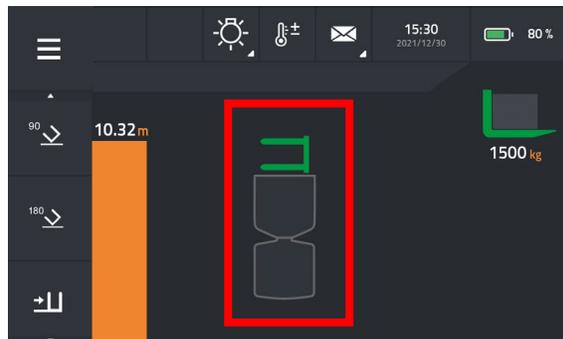
- Fly-out menus with logical symbols for each function



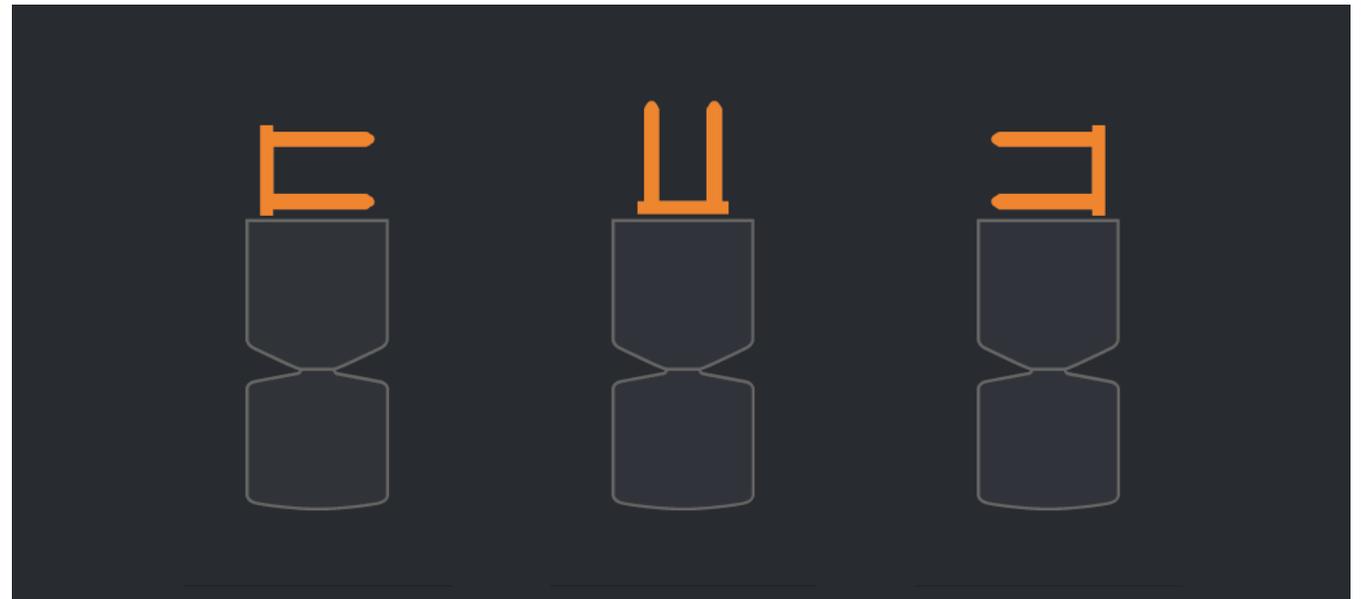
Product highlights

Modern driver environment

- Animations to highlight key information



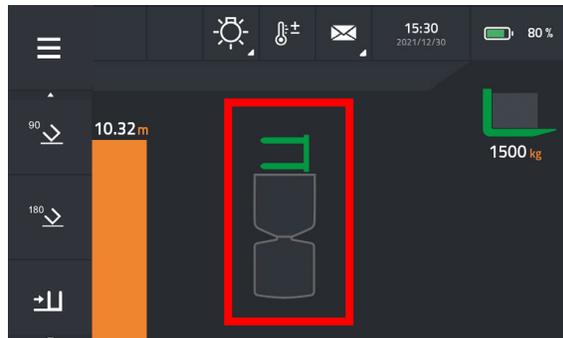
Forks not in home position



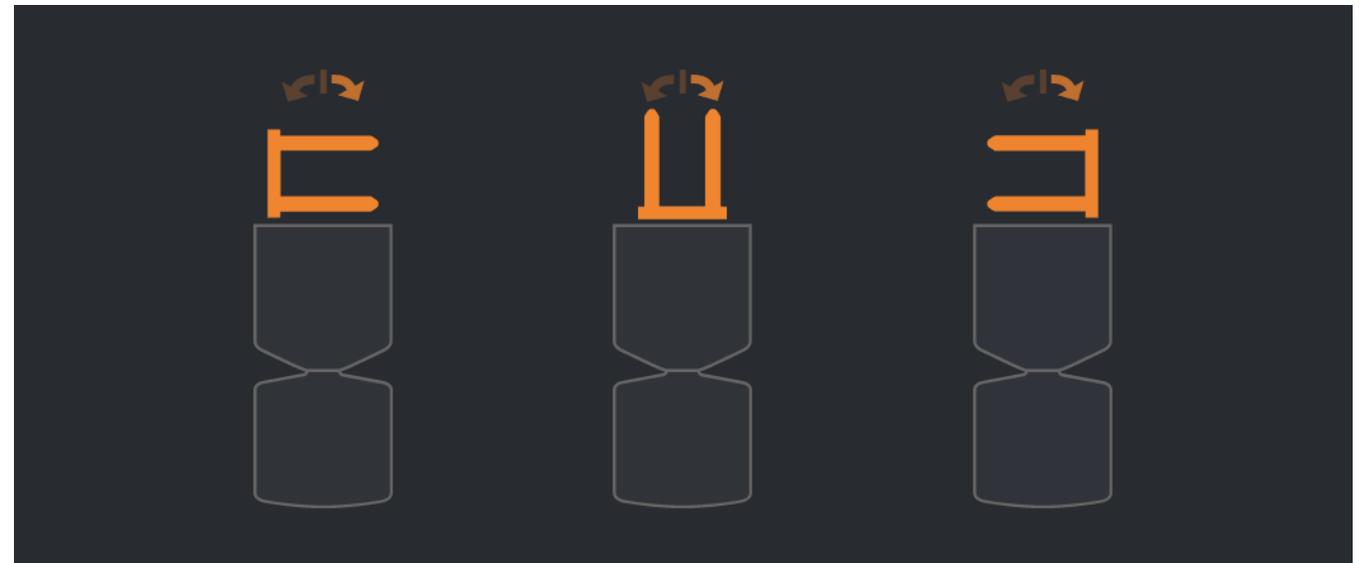
Product highlights

Modern driver environment

- Animations to highlight key information



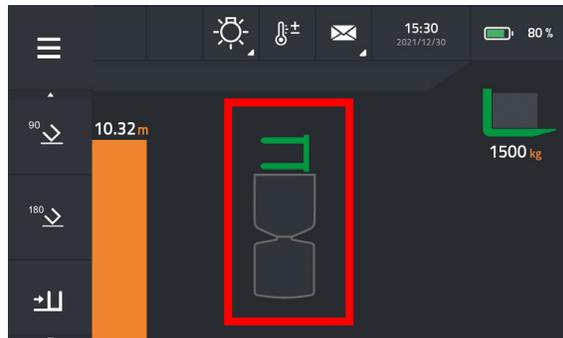
Forks rotating



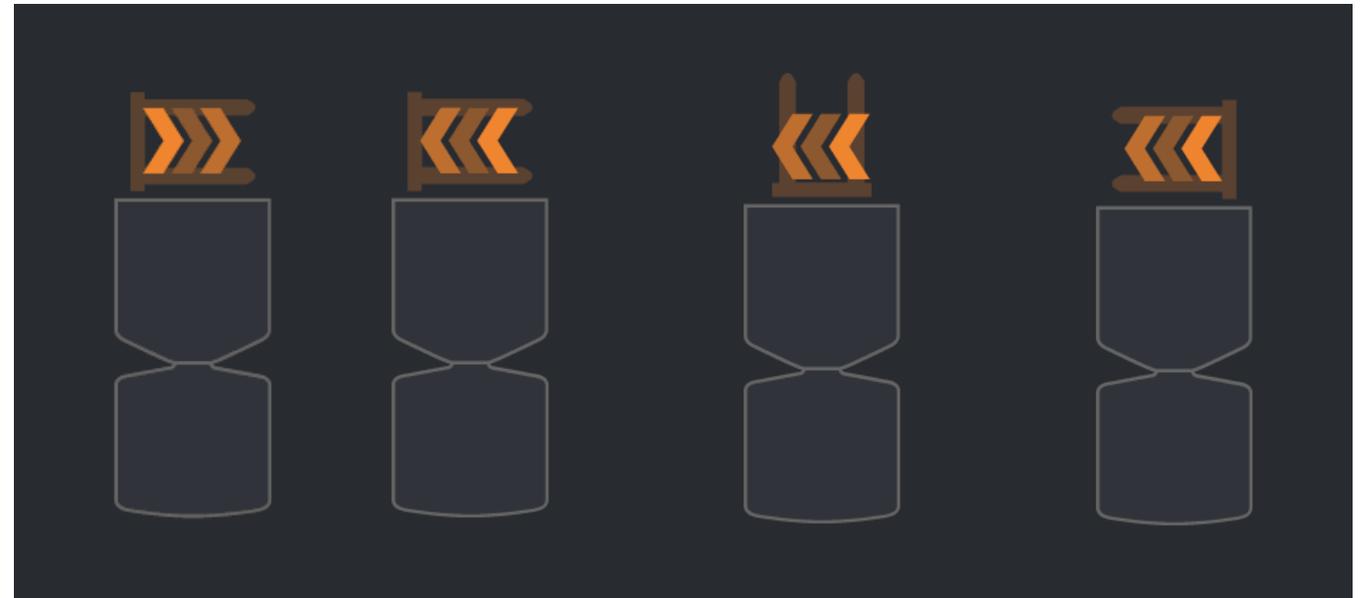
Product highlights

Modern driver environment

- Animations to highlight key information



Forks traversing

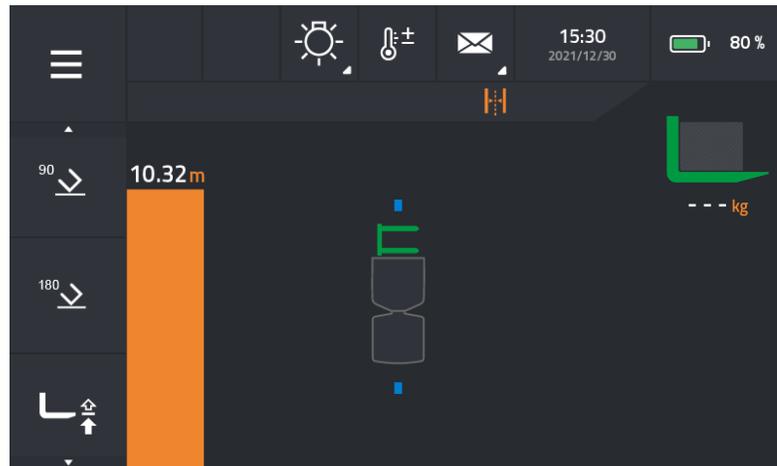


Product highlights

Modern driver environment



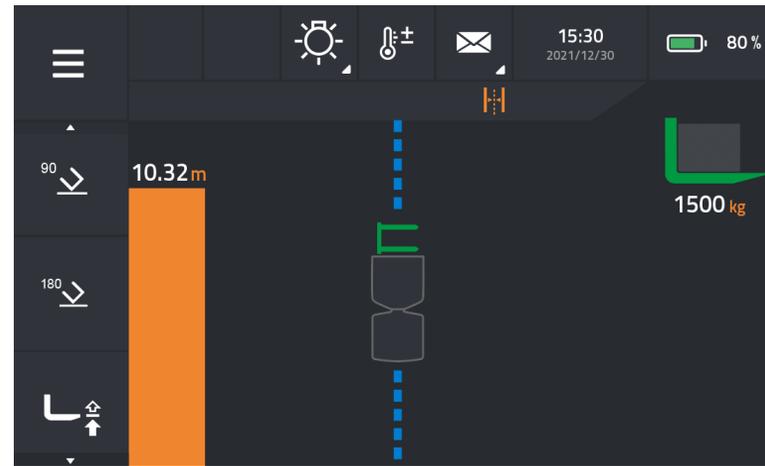
Icon in statusbar lights up when button is pressed.



(Image above is animated in presentation mode)

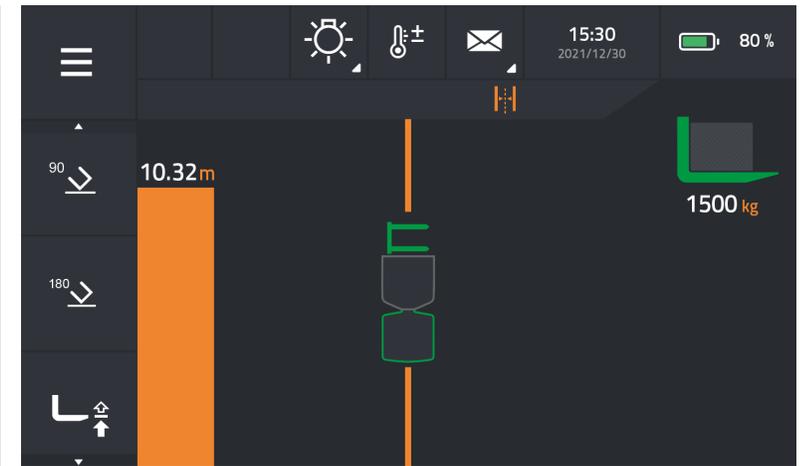
Near wire

Dashed, flashing blue line indicating that truck is near wire



Locking to wire

Dashed blue line, not flashing, indicates that truck has found wire



Locked to wire

Solid orange line indicates that truck is locked to wire
Back part of truck green to indicate locked position

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VCE125ASF