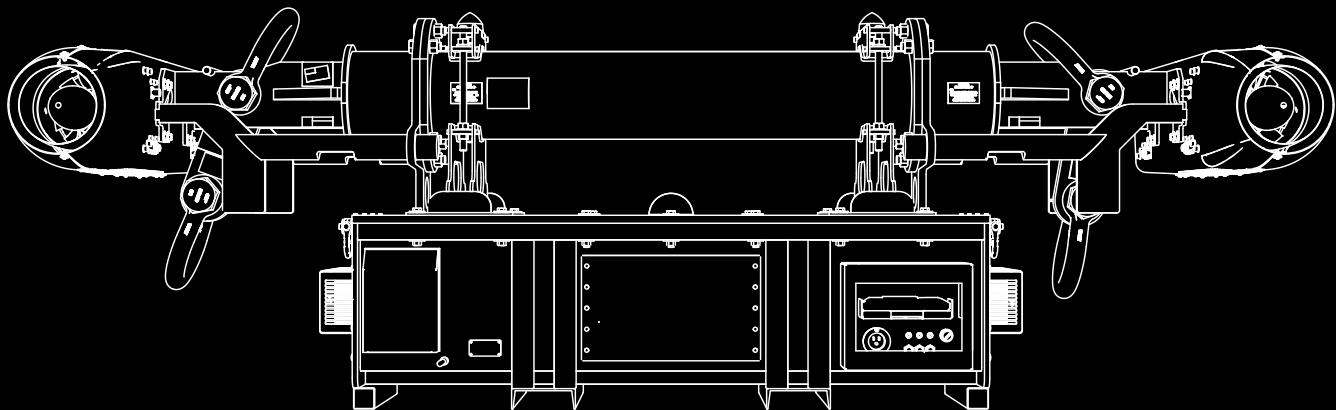


VITA™ LOAD NAVIGATOR™

TECHNICAL DATA



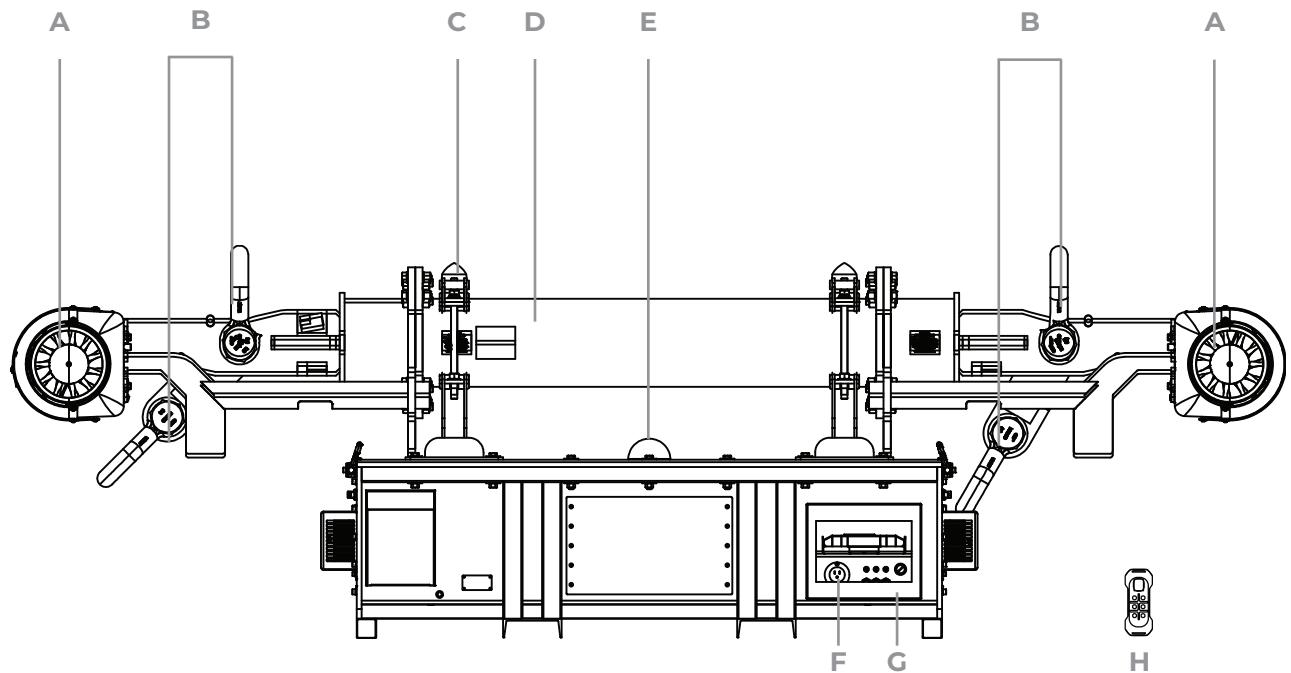
REMOTELY STABILIZE AND ORIENT LOADS UNDER CRANES



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COMPONENTS



A Bi-directional propulsion system

E LTE antenna

B Shackles

F Charging port

C GPS antenna

G IO panel and pendant storage

D Spreader beam

H Control pendant

CHARGING, BATTERIES AND COMMUNICATION

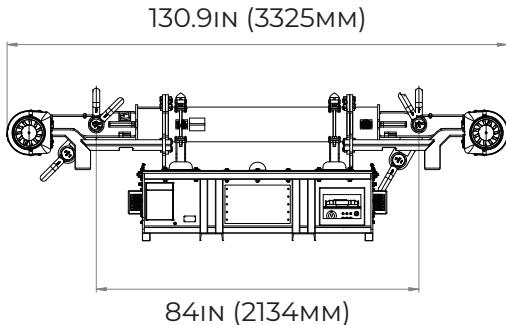
SYSTEM BATTERIES AND COMMUNICATION

BATTERY	8.6 kWh rechargeable Lithium Iron Phosphate battery
BATTERY LIFE	Up to 12 hours on a single charge, depending on use and environmental conditions
CHARGING	IEC C13 Charging input 100-120V A/C, 1400VA(W) 50/60HZ or 200-240 A/C, 1650VA(W) 50/60HZ
CHARGE TIME	6 to 8 Hours
GPS ANTENNA	L1 band compatibility including: GPS, QZSS, and Galileo
LTE CONNECTIVITY	Global 3G/4G. WiFi available

PENDANT BATTERIES AND COMMUNICATION

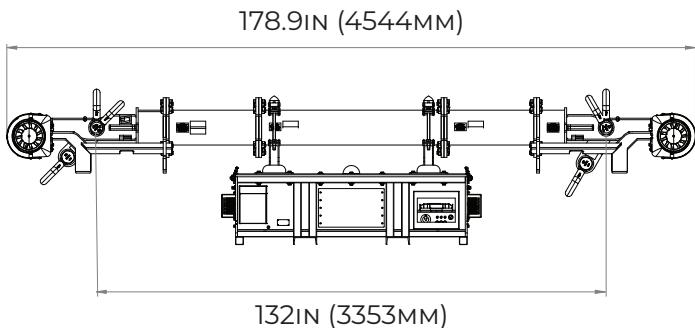
BATTERY	3.7 VDC with Li-ion Battery
BATTERY LIFE	10 hours assuming continuous use at 68°F (20°C)
PENDANT RANGE (SINGLE PENDANT)	600ft (182m)
COMMUNICATION	ISM Band: frequency is region-specific
WEIGHT	.84lbs (.381kgs)
DIMENSIONS	8.17in x 3.35in x 1.92in (20.75cm x 8.51cm x 4.88cm)

STOCK MODELS OVERVIEW



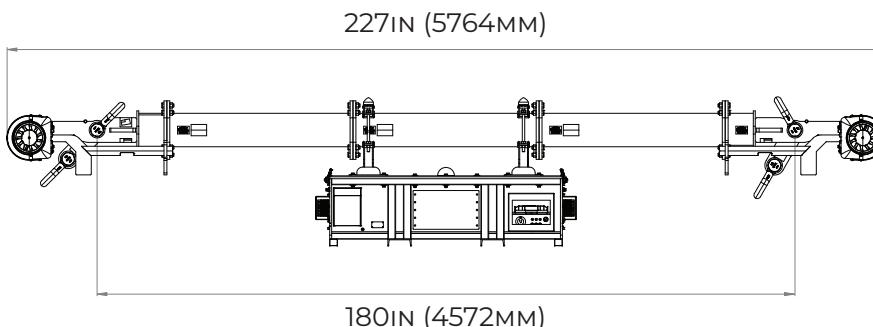
VLN 40T-7-CA

Weight	1,770 lbs (800 kg)
Nominal Inertia Rating	3,000,000 lb·ft ² (130,000 kg·m ²)
Torque	500 ft·lbs (678 N·m)



VLN 40T-11-CA

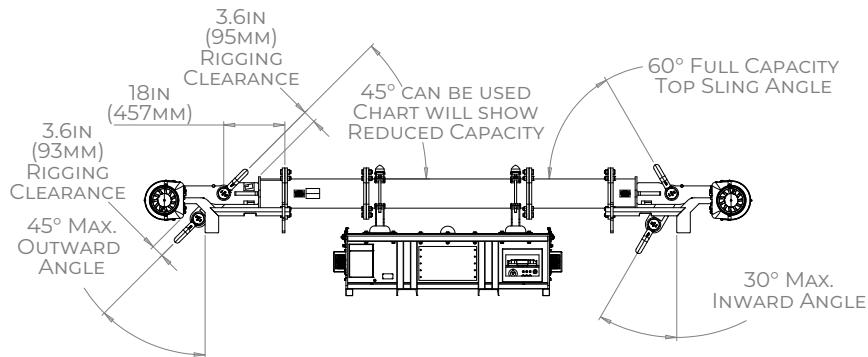
Weight	2,125 lbs (965 kg)
Nominal Inertia Rating	4,150,000 lb·ft ² (175,000 kg·m ²)
Torque	700 ft·lbs (949 N·m)



VLN 40T-15-CA

Weight	2,310 lbs (1,050 kgs)
Nominal Inertia Rating	4,700,000 lb·ft ² (200,000 kg·m ²)
Torque	800 ft·lbs (1085 N·m)

SPAN VS CAPACITY 40T CONFIGURATIONS



* 30° INWARD ANGLE ON BOTTOM SHACKLES NOT AVAILABLE FOR VLN 40T-7 CONFIGURATION

VLN 40T SPAN VS CAPACITY GIVEN:

Max outward lower sling angle: 20° from vertical
Max. inward lower sling angle: 10° from vertical

BEAM LENGTH	BASE TO SLING ANGLE		
	45° BSA - MIN TOP	60° BSA - MIN TOP	70° BSA - MIN TOP
7' (2.13m)	32.0 tn (29 mt)	44.1 tn (40 mt)	44.1 tn (40 mt)
11' (3.35m)	27.6 tn (25 mt)	44.1 tn (40 mt)	44.1 tn (40 mt)
15' (4.57m)	23.1 tn (21 mt)	44.1 tn (40 mt)	44.1 tn (40 mt)

VLN 40T SLING LENGTHS

BEAM LENGTH	BASE TO SLING ANGLE		
	45° - MIN TOP	60° - MIN TOP	70° - MIN TOP
7' (2.13m)	4' (1.21m)	6'1" (1.85m)	9'4" (2.84m)
11' (3.35m)	6'11" (2.11m)	10'1" (3.07m)	15'2" (4.62m)
15' (4.57m)	9'8" (2.95m)	14'1" (4.29m)	21' (6.40m)

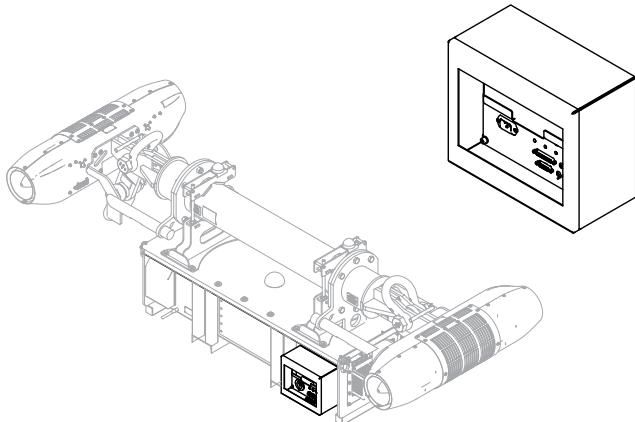
VLN 40T SPAN VS CAPACITY GIVEN:

Outward lower sling angle: 20° to 45° from vertical
Inward lower sling angle: 10° to 30° from vertical

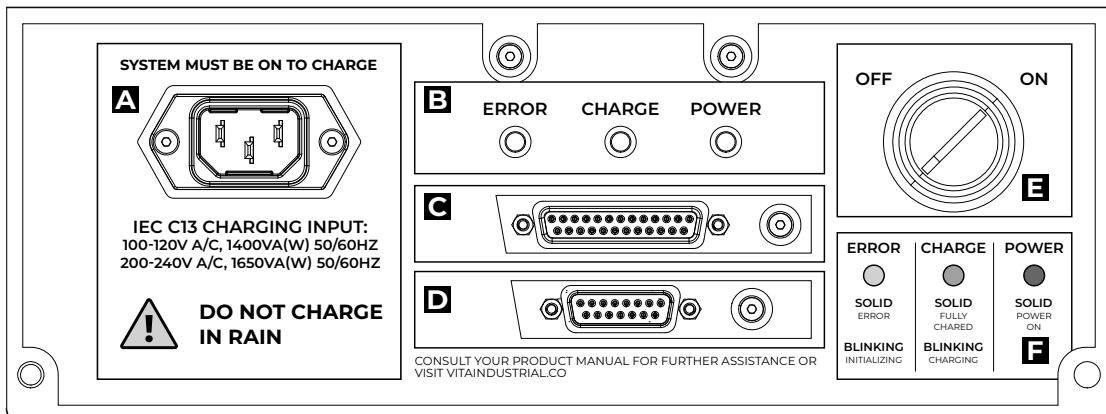
BEAM LENGTH	BASE TO SLING ANGLE		
	45° BSA - MIN TOP	60° BSA - MIN TOP	70° BSA - MIN TOP
7' (2.13m)	26.5 tn (24 mt)	36.4 tn (33 mt)	44.1 tn (40 mt)
11' (3.35m)	22.0 tn (20 mt)	32.0 tn (29 mt)	39.6 tn (36 mt)
15' (4.57m)	17.6 tn (16 mt)	27.6 tn (25 mt)	35.3 tn (32 mt)

** mt = metric ton
tn = US ton

INPUT OUTPUT (IO) Box



* The panel IO interfaces may vary depending on region

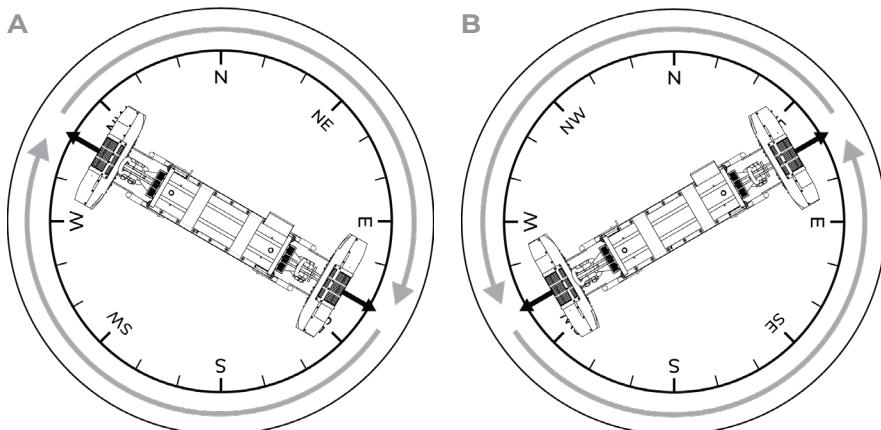


- | | |
|--|--|
| A Charging Port | D Service Access 2 (Not for customer use) |
| B System Status LED Indicators | E Power toggle |
| C Service Access 1 (Not for customer use) | F LED Indicator Key |

CAPABILITIES

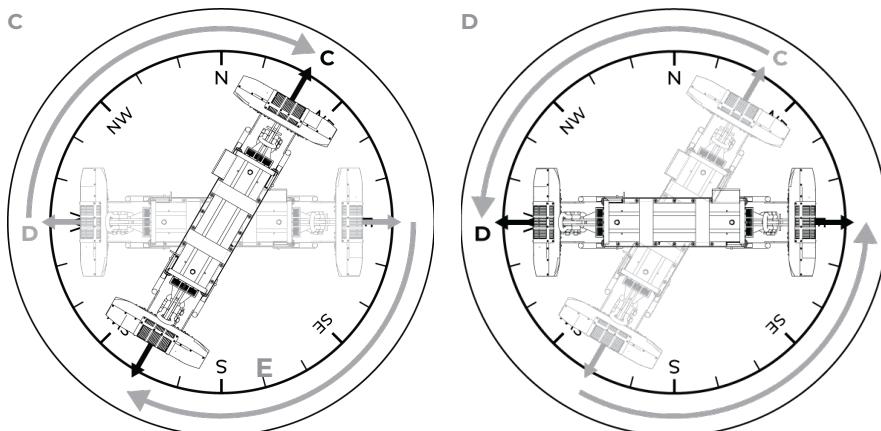
DIRECT CONTROL

Manual control allows the user to rotate the load either clockwise (A) or counter clockwise (B). Rotate between 1.5° and 20° per second.



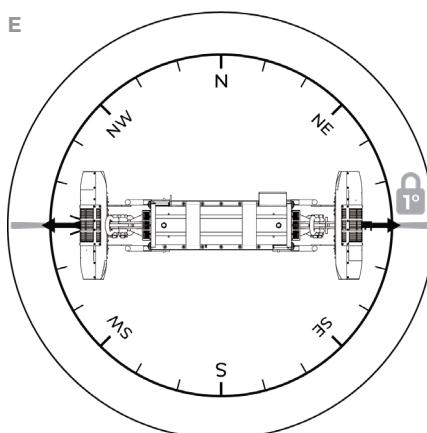
MEMORY FUNCTION

The user is able to save the orientation of the Navigator at the pick (C) and placement (D) points, and return to either orientation at the push of a button.

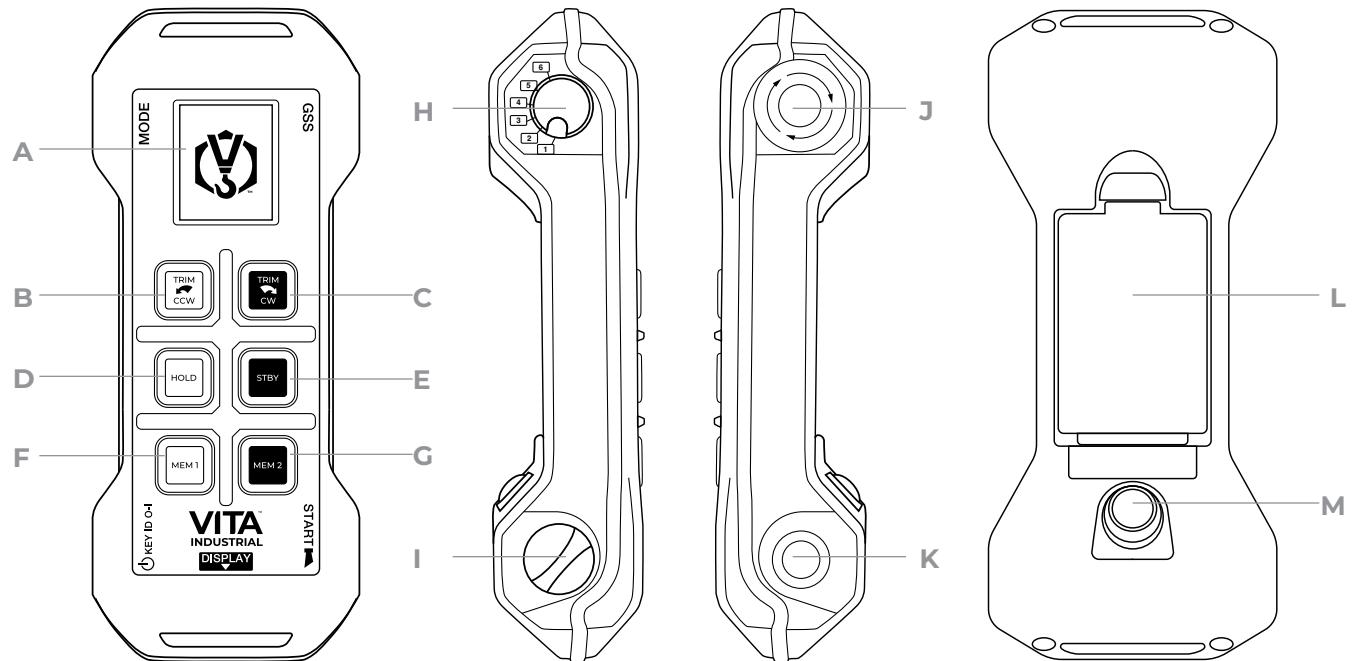


POSITION HOLD

Position hold keeps the load in an orientation set by the user.



PENDANT

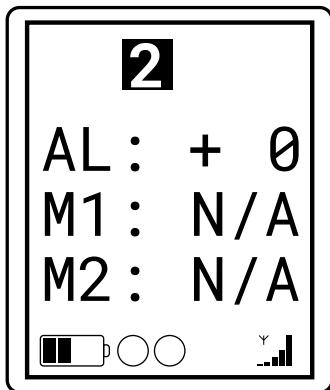
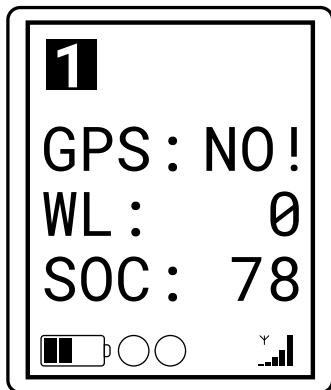


- A** Course trim/fine trim
Rotates counter clockwise
- B** Course trim/fine trim
Rotates counter clockwise
- C** Course trim/fine trim
Rotates clockwise
- D** Position control mode
Hold current position and/or re-orient to new position
- E** Standby
Bi-directional propulsion system spins down
- F** Register/command
Memory location 1

- G** Register/command
Memory location 2
- H** Rotation rate dial
Increase/decrease trim speed
- I** RF Key
- J** Emergency stop
- K** Power button
- L** Pendant battery

M Cycle between screens

PENDANT DISPLAY SCREEN



1 **GPS** GPS connection status

Charge

WL Percentage of maximum thrust for the VLN fans (working load)

Error States

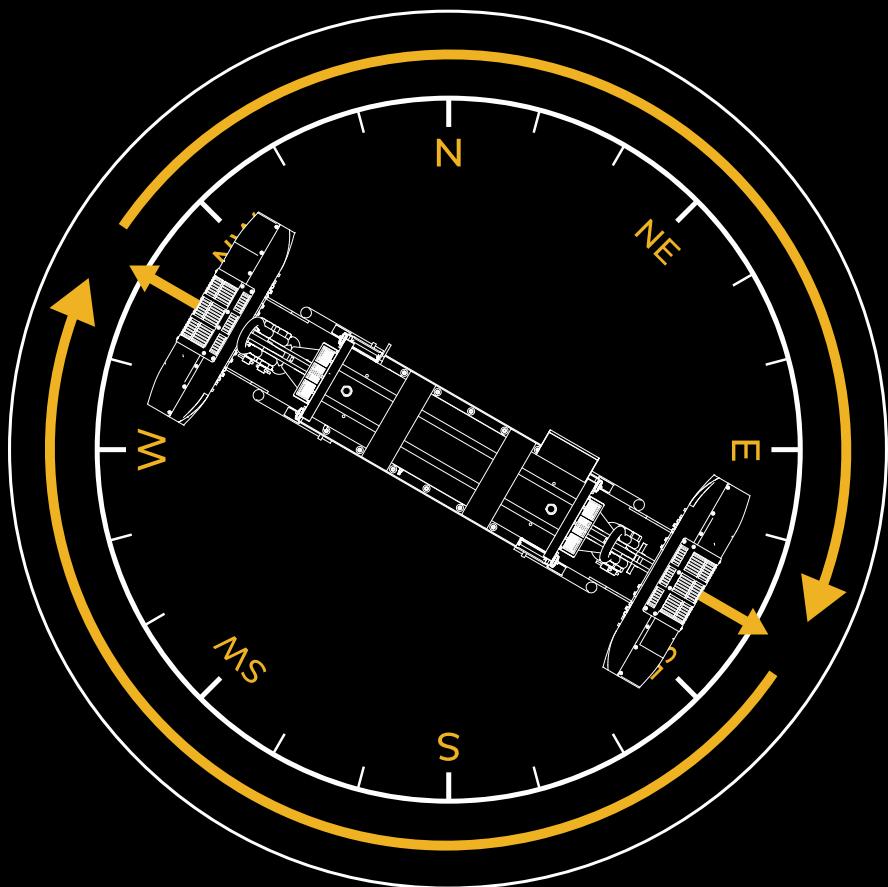
SOC System state of charge (percentage of charge of the VLN battery)

Signal

2 **AL** Difference between the set position and the current position

M1 Mem 1 heading

M2 Mem 2 heading



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