

ROUGH TERRAIN ELECTRIC ARTICULATING BOOMS

HA16 E – HA16 E PRO
HA20 E – HA20 E PRO

ENERGIZE YOUR PERFORMANCE



CHALLENGES AND SOLUTIONS FOR SUSTAINABLE CITIES

PULSEO
GENERATION

All over the world,
countries are facing
the same challenges:

Combating global warming
and air pollution.

Aware of these challenges,
many cities have adopted
measures limiting, or even
banning, the use of
emission-intensive
equipment.

To support all players in
this process, **Haulotte**
**is committed to more
sustainable development**
and supports its customers
and partners in their ESG
strategy.



WITH THE PULSEO RANGE, HAULOTTE OFFERS
100% electric equipment, producing zero pollutant
and greenhouse gas emissions while delivering
performance equivalent to a diesel machine.

97%

Recyclability rate
of the HA16 E
& the HA20 E



The **HA16 E** and **HA20 E**, along with their «**PRO**» models, feature **Haulotte's highest quality standards**. Subjected to rigorous endurance tests and accelerated life cycles tests to **guarantee their lifespan**, all **PULSEO** Generation models are built for lasting performance.

ELECTRIC POWER FOR THE ENVIRONMENT

EVOLVE WITHOUT CONSTRAINT

Thanks to their 100% electric design, **PULSEO** articulated boom lifts offer a reduced-emission alternative, suitable for all situations, including night operations:

- **Low-emission zones (LEZ)**
- **Green-labeled worksites**
- **Zones where access to combustion engines is prohibited.**

WORK IN SILENCE

The **PULSEO** generation offers an incredibly silent experience for operators and bystanders. Its discretion opens the door to new applications:

- **Quiet areas: hospitals, offices, schools, etc.**
- **Public places: shopping malls, pedestrian streets, airports**

A PLAYGROUND WITHOUT LIMITS



The PULSEO HA16 E and HA20 E articulating booms: 2-in-1 machines!

Their versatility makes them indispensable throughout the life of the worksite, from start-up to completion.

1 SINGLE MACHINE FOR ALL APPLICATIONS:

Their electrical architecture combined with their rough terrain performance make them perfectly suited to both indoor and outdoor applications, while ensuring clean and quiet operation.

OUT

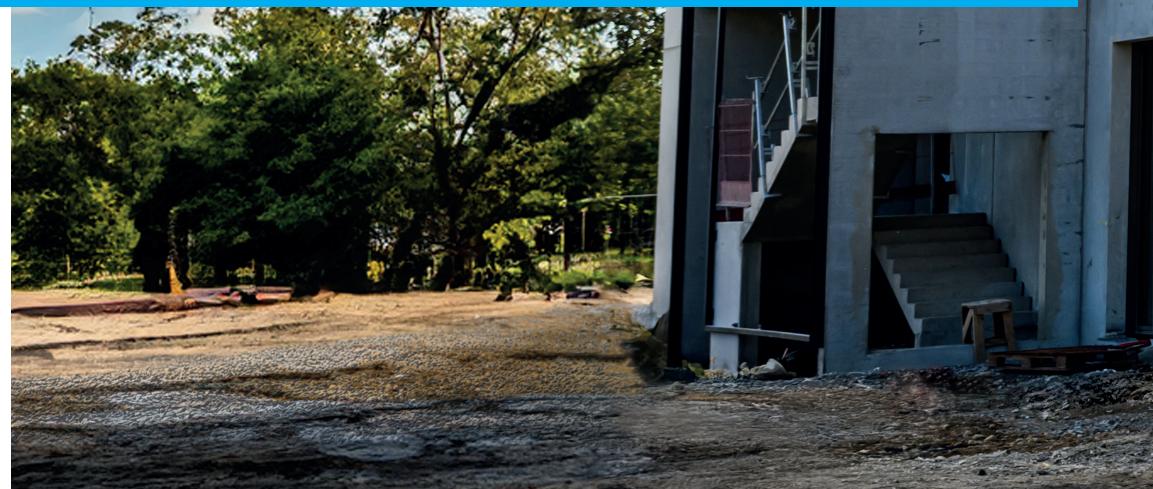
No compromise on rough terrain performance: the PULSEO articulating booms boast the same excellent rough terrain capabilities as a combustion-powered machine.

The oscillating axles* combined with 4-wheel-drive ensure optimum grip.

IN

Equipped with non-marking tires**, the HA16 E and HA20 E work perfectly indoors without leaving marks, even on sensitive floors.

Their tailswing makes them extremely maneuverable, enabling them to operate in confined spaces.







HIGH
MANEUVERABILITY
AND PERFORMANCE
SUITED TO **ALL**
TYPES OF TERRAIN

No compromise on rough terrain performances! The PULSEO articulated booms boast excellent rough terrain capabilities, identical to those of a diesel-powered boom. Their electric architecture combined with a mechanical axle drive train makes them ideal for all types of terrain.

Thanks to equipment that optimizes their rough terrain performance, the HA16 E and HA20 E can climb slopes of up to 40%. In terms of slope angle, the HA16 E can work on slopes of up to 5°, while the HA20 E is designed for a maximum slope angle of 4°.

Equipped with the Extra Reach option, the HA20 E can work on slopes of up to 6°, while increasing the load capacity in the basket from 250 kg to 350 kg and increasing its capacity to up to 3 people.



Slope up to 40%



HA16 E: 5° tilt

HA20 E: up to 6°
with the Extra Reach
option

ROUGH TERRAIN EQUIPMENT:



- > **1 oscillating* axle** to keep the wheels in contact with the ground and provide optimum grip.
- > **4 independent wheel-drive** each delivering powerful torque and excellent traction distribution.

- > **4 wheel-steer*** to considerably reduce the turning radius and enable crab mode travel.
- > **High ground clearance** to overcome obstacles and protect machine components.

*Available with PRO model only.

ADDITIONAL AUTONOMY



RANGE EXTENDER IN FEW WORDS :



Opt for a complementary energy source, ideal for worksites without **access to the electrical grid**.



Keep things simple with a generator that is **interchangeable** between models in the PULSEO range*.



Optimize on-site fleet **recharging**.

NEED TO RECHARGE YOUR MACHINE?

Whatever the worksite constraints, several charging solutions are available with our machines: mains plug (accelerated charger available) or charging with a Ranger Extender.

YOUR WORKSITE IS NOT CONNECTED TO THE ELECTRICAL GRID?

The removable Range Extender, compatible with all PULSEO machines*, ensures rapid battery recharging. Installed in less than 5 minutes, it recharges **80% of the batteries in just 3 hours**. **During recharging, the operator retains full use of the machine**.

Obtain more flexibility, with the Range Extender for up to 6 days of work.**



SIMPLIFIED MAINTENANCE FOR GREATER PRODUCTIVITY

DIRECT ACCESS TO COMPONENTS

Machine components are easily accessible:

- **Removable hoods for battery access.**
- **Easy access to hydraulics.**

MAINTENANCE-FREE AGM BATTERIES

The HA16 E and HA20 E are fitted with AGM batteries as standard, which require no maintenance during the battery lifespan.

MAINTENANCE-FREE ASYNCHRONOUS MOTORS (AC)

Renowned for their performance, reliability and robustness, asynchronous motors require no routine maintenance.

GUARANTEEING YOUR MACHINES' RELIABILITY

On construction sites, machines can face difficult environments, impacts, overpasses, unstable ground. To ensure the ruggedness of its machines, Haulotte selects quality components and protects electrical and hydraulic components.

PULSEO ARTICULATING RANGE IN 5 KEY POINTS

1

OPERATE ANYTIME ANYWHERE WITH ZERO EMISSION

- 100% electric drive architecture
- Fully eco-friendly
- Works anywhere: indoor & outdoor in silent mode

2

BOOST YOUR PRODUCTIVITY

- Load capacity:
 - > HA16 E up to 300 kg
 - > HA20 E from 250 kg to 350 kg with Extra Reach
- Tilt up to 6° with the Extra Reach option (on HA20 E)
- Horizontal outreach of 7.9 m (HA16 E) and 11.9 m (HA20 E)
- 2 days of autonomy in electric mode and 6 additional days with the Range Extender**
- Fast charging thanks to the removable Range Extender (option compatible with other PULSEO machines*)



3

WORK SAFELY

- Haulotte Activ'Shield Bar
- Haulotte Activ'Lighting System
- Transport handle: operator is safer while loading/unloading

4

FACILITATE MAINTENANCE OPERATIONS

- Haulotte Activ'Screen: on-board diagnostic tool
- AGM batteries
- Easy access to components

5

EXTENDED ROUGH TERRAIN CAPABILITIES

- 4 wheel-drive / 4 wheel-steer (PRO model only)
- Mechanical axle with manual differential lock to increase ground traction
- Oscillating axle (PRO model only)

*Except HA20 LE.

**Tests performed according to Peter Hird cycle. The actual machine duty cycle may vary depending on use.

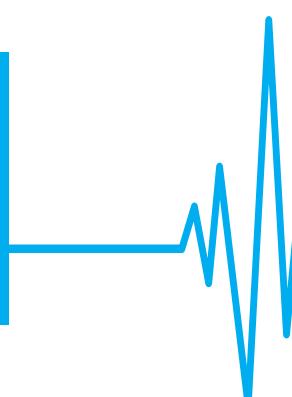


EQUIPEMENTS DESIGNED TO BOOST YOUR PRODUCTIVITY

Haulotte helps you achieve your productivity goals with a wide range of available options and innovations. Our options are specifically designed to meet the constraints of your worksites: specific applications, extreme weather conditions, demanding terrains...

DISCOVER OUR MANY AVAILABLE OPTIONS FOR THE HA16 E AND HA20 E, AS WELL AS THEIR «PRO» VERSIONS:

- Range Extender
- Fast charging (three-phase)
- Sherpal telematics solution
- Glazier pack
- Pipe cradle
- Hostile environment kit
- User Drive Assist
- Pedestrian Detection Assist
- High Visibility Basket
- Transport handle

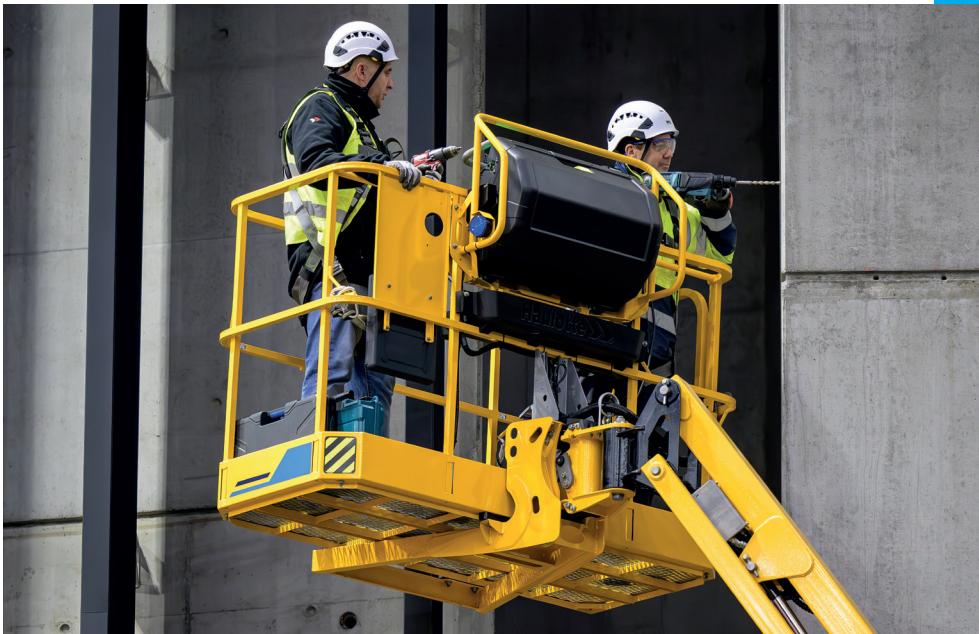




JOBSITE PROTECTION: OUR PRIORITY

Thanks to cutting-edge equipment and continuous innovations integrated into its various boom lift models, Haulotte helps you protect all stakeholders on your job site: operators, transporters, as well as pedestrians and nearby workers.

Whether during transport, unloading, or work phases – including in shared workspaces – our innovations and options enable you to handle most hazardous and high-risk situations.



PROTECTING OPERATORS

These equipment and innovations are designed to protect the operator when using the MEWP.

- **FASTN:** A universal active anchoring system operating on the same principle as a seatbelt, enhancing proper use of the safety harness.
- **Activ'Shield Bar:** An anti-crush solution that protects the operator during elevation phases and reverse translation.
- **User Drive Assist:** Reduces the risk of injury by alerting the operator in case of dangerous behavior.
- **MyCompanion:** Provides quick and easy information about machine operation, ensuring proper handling by operators.
- **SHERPAL:** Provides reliable data on job site weather conditions and proximity to high-voltage power lines.



SECURING LOADING AND TRANSPORT PHASES

Loading and unloading phases are particularly accident-prone, and our solutions provide comfort and safety for operators performing this task.

- **Transport Handle:** Equipped with an integrated button, it allows the operator to stabilize with one hand and operate the controls with the other.
- **Activ'Lighting System:** Comprising 10 LED spotlights, it perfectly illuminates the basket, controls, and surrounding work area. The system ensures better visibility of the boom lift and provides additional lighting for the operator maneuvering the machine.
- **High Visibility Basket:** Improves the visibility of the boom lift in low-light conditions, reducing the risk of accidental collisions.





ENHANCING JOBSITE PROTECTION

Aware that jobsite protection goes beyond the operational phases of the boom lift, we have designed innovative equipment to ensure the safety of both the direct environment (pedestrians, equipment) and the indirect environment (neighbors, buildings).

➤ **Pedestrian Detection Assist:** An intelligent camera and alert system warn both the operator and pedestrians of potential collision risks when using the machine.

➤ **Squawker Alarm:** This alarm system emits a different sound than standard alarms, making it more effective in alerting people on-site to potential hazards.

➤ **Flashing Light:** This flashing beacon activates whenever the machine is in motion, with high-intensity lighting to warn the machine's immediate surroundings.

CONFIGURE YOUR ARTICULATING BOOM LIFT TO SUIT YOUR NEEDS

	HA16		HA20	
	E	E PRO	E	E PRO
EQUIPMENT AND CAPABILITIES				
Wheel-drive	4	4	4	4
Wheel-steer	2	4	2	4
Oscillating axle	-	●	-	●
355° turret rotation	●	●	●	●
360° continuous turret rotation	-	○	-	○
Drive orientation assist	-	-	●	●
Basket load capacity 300 kg / 250 kg	300 kg	300 kg	250 kg	250 kg
Extra Reach (6° / 350 kg - 3 people)	-	-	○	○
Haulotte Activ'Energy Management	●	●	●	●
Haulotte Activ'Screen	●	●	●	●
SAFETY: INNOVATIONS AND OPTIONS				
Haulotte Activ' Lighting System	○	●	○	●
Haulotte Activ' Shield Bar	○	●	○	●
Transport Handle	○	○	○	○
Squawker Alarm	○	○	○	○
Flashing Light	○	○	○	○
User Drive Assist	-	-	○	○
High Visibility Basket	-	-	○	○
Pedestrian Detection Assist	-	-	○	○
OPERATING TIME				
Range Extender	○	○	○	○

○ option / ● standard / - not available

PULSEO
GENERATION



WHEN ELECTRIC
MEETS ROUGH TERRAIN

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Haulotte 
EQUIPMENT