



The future follows you.

AUGMENT YOUR WORKFORCE

PFF kilo™ is a Collaborative Mobile Robot (CMR) flatbed with built-in-hands-free following capabilities. PFF kilo™ is also equipped with Trips — a functionality that does not require extensive mapping of the operational environment, allowing an operator to record 100 trips on the go and to send the unit on an autonomous recorded trip. PFF kilo™ is adaptable to numerous operational environments and applications. PFF kilo™ operates out of the box, without costly infrastructure requirements or advanced training for operators. It can be optionally outfitted with industry or facility specific carts or shelving, ensuring the right configuration for any job. PFF kilo™ is designed to augment human performance and to operate alongside humans in chaotic environments, enabling users to move materials naturally whilst simultaneously reducing the risk of repetitive injuries and minimizing motion waste.

FOLLOWING TECHNOLOGY

PFF kilo™ is operated using a single intuitive button which indicates the functionality status and features through color, brightness and light patterns. PFF kilo™ uses proprietary in-house developed human etiquette algorithms, depth cameras, and 4D radar. PFF kilo™ is optimized for detecting and predicting human behavior while operating at pedestrian speeds in built and natural environments, offering hands-free following both indoors and outdoors for a wide variety of operational environments and applications.

KEY BENEFITS

Flexible Automation:

PFF kilo offers a highly reliable base model that's customizable for any application, industry, or facility.

Worker Safety:

Hands-free following enables workers to move material safely and efficiently, without the risk of repetitive motion injuries.

Intuitive and Easy to Use:

Operates out of the box and supports over-the-air software updates for continued improvement.

Fleet Management:

PFF kilo is incorporated into PFF pro tools web portal and mobile applications.

The future follows you.

www.piaggiofastforward.com/business





contact us.

KEY TECHNICAL INFORMATION

SPECIFICATIONS

Unit Dimensions (W x L x H):

37 x 22 x 23in / 93.99 x 55.88 x 58.42 cm

Bed Dimensions (W x L) :

32 x 22 in / 81.82 x 55.88 cm

Bed Height: 12 in / 30.48 cm

Max Speed: 4 mph / 6.437 km/h

Max Payload: 300 lbs / 136 kgs

Max Grade: 5 degrees

Run Time: Continuous 6 hrs -
intermittent 8 hrs

Charge Time: 3 hours

User Customization: 8 mounting points

STEREO DEPTH CAMERA

FOV (HxV): 87 x 58 degrees

Depth Resolution: 848 x 480

Depth Accuracy: <2% @ 13 ft / 4 m

Depth Frame Rate: Up to 60 FPS

Min detect distance: 0.78 in / 0.2 m

Max detect distance: 16.40 ft / 5 m

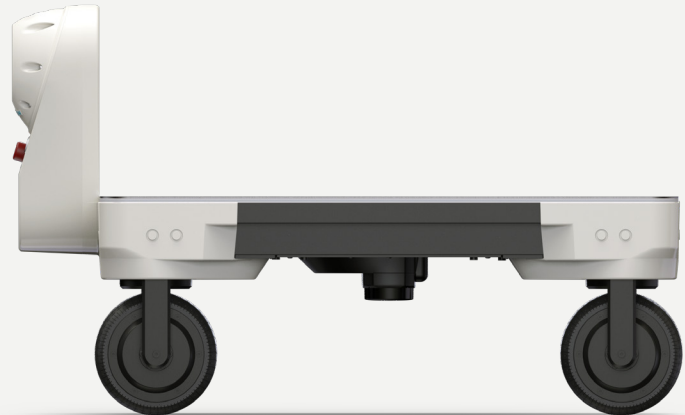
2 LIDAR

FOV: 360 degrees

Frame Rate: 10 FPS

Min detect range: 1.96 in / 5 cm

Max detect range: 59 ft / 18 m



RADAR

Radar FOV (HxV): 160 x 60 degrees

Angular Resolution (HxV): 4 x 8 degrees

Frame Rate: Up to 20 FPS

Min detect range: 1.96 in / 5 cm

Max detect range: 16.40 ft / 5 m

ULTRASONICS

FOV (HxV): 50 x 20 degrees

Measurement Rate: 10 FPS

Min detect range: 1.19 in / 3 cm

Max detect range: 14.76 ft / 4.5 m

RGB SENSOR

Depth Frame Rate: Up to 30 FPS

RGB Resolution: 1280 x 800

RGB Frame Rate: 30 FPS

RGB Sensor FOV (HxV): 90° x 65°