



AFORMIC

FC30

FORK LIFT COUNTERBALANCE WITH EXTENDED MAST

FC30 is an autonomous forklift robot equipped with a steerable traction wheel, redefining the transport of loads up to 1500 kg.

Its advanced design combines agility, reliability, and safety, providing innovative solutions for modern intralogistics.

OPTIMAL MANEUVERABILITY IN WAREHOUSE AND FACTORY SETTING

HIGH PAYLOAD CAPACITY

Capable of transporting loads up to 1500 kg, the FC30 is engineered for demanding industrial applications.

Its durable construction ensures consistent performance under full load, offering a reliable and versatile solution across a wide range of intralogistics environments.

STEERABLE TRACTION DRIVE

Equipped with a steerable traction wheel drive, FC30 offers a precise balance of maneuverability, energy efficiency, and positioning accuracy.

Its intelligent design allows for reliable operation in narrow aisles and dynamic warehouse environments, supporting seamless integration into existing logistics systems and workflows.



ADVANCED SLAM NAVIGATION

Equipped with SLAM technology, the FC30 enables real-time mapping and accurate localization. This supports efficient route planning, dynamic obstacle avoidance, and adaptability to changing environments, ensuring reliable operation in dynamic and complex intralogistics settings.

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COMPREHENSIVE SAFETY SYSTEM

FC30 is equipped with a safety package, including three SICK micro, one nano safety scanner, five emergency stop buttons, 360° laser coverage, and blue spot warning lights. Its onboard IMU module ensures stability and precise motion control even in complex environments, making it safe for operation alongside people and machinery.

GENERAL SPECIFICATIONS

- Payload capacity: 1500 kg
- Dimensions (L x W x H): 2480 x 1160 x 2020 [mm]
- Lifting height: 3000 mm
- Weight: 2700 kg
- Maximum speed: 1.5 m/s
- Drive type: steerable traction wheel
- Drive power: 2.5 kW
- Positioning accuracy (+/-): 1.0 cm

POWER SYSTEM

- Battery type: Lithium-ion (Li-ion)
- Battery capacity: 272 Ah
- Battery voltage: 24 V

TERRAIN CAPABILITIES

- Maximum longitudinal inclination: 3.0°
- Maximum lateral inclination: 5.0°
- Positioning accuracy (+/-): 1.0 cm

SAFETY FEATURES

- Laser scanner field of view: 360°
- Safety scanners:
 - Sick Micro Scanners: 3 units
 - Sick Nano Scanners: 1 unit
- Emergency push buttons: 5 units
- Blue spot lamps: 3 units
- IMU module: 1 unit

NAVIGATION SYSTEMS

- SLAM Technology: yes
- Odometry: yes
- IMU (Inertial Measurement Unit): yes

ENVIRONMENTAL CONDITIONS

- Operating temperature: 15°C – 40°C
- Relative humidity: >70%

DIMENSIONS [MM]

