

Standard and Optional Equipment

Standard Equipment

- Safety type laser scanner
- Safety type PLC control system
- Traction motor duplex encoders
- Traction electro-magnetic brake
- QR code + IMU navigation
- CE certified lithium-ion battery
- Automatic charging
- 1* Front laser scanner
- 1* Top load identification camera
- 2* Emergency stop
- Visual and acoustic warning indicators
- Differential drive
- Electrical linkage lifting
- Electrical rotating platform
- Suspension chassis

Optional Equipment

- Front and rear mechanical bumpers
- Fast battery swapping
- Manual battery charge



Linde Robotics Turtle Mover

C-MATIC 06/10 - LOAD CAPACITY 600kg, 1000kg

Safety

Laser scanner for front safety detection. Mechanical bumpers both front and rear* with emergency stop button providing a secondary level of safety. Robot prioritises forward travel; reverse travel can be achieved should the application environment meet certain safety criteria.

*optional equipment

Performance

Drive unit can achieve maximum 1.5m/s rated travel speed, the independent lifting and steering can move simultaneously, reducing waiting time and improving efficiency. The new generation of electrical lift mechanism can achieve 1.5s fast lifting further improving productivity.

Flexibility

The dual wheels differential drive can achieve point rotating, curve turning and U shape turning. The load can stay static during turning with help from the steering unit. This greatly reduces turning radius and aisle width, minimising infrastructure changes.

Reliability

The robot features a durable solid aluminum casting structure and all in one construction design. The suspended chassis improves the traction and drive force providing robot stability and consistent productivity.

Service

The AGV housing is easy to disassemble. The component layout is maintenance friendly. The modular electrical system is simple to troubleshoot and repair. All of this with our local service support and parts availability ensures peace of mind 24/7, 365 days a year.

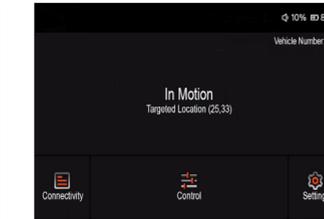
Features

Smart safety

- 360° all round safety protection
- Lithium-ion battery
- Automatic charging
- Front laser scanner protection
- Mechanical bumpers (optional)
- Lower rack code reading
- Front and rear emergency stop

Navigation system

- Accurate and reliable laser reflector navigation system
- High precision inertial measurement unit (IMU) module



Efficient Design

- Differential drive
- Electrical linkage lifting
- Point rotation steering
- Suspended chassis

User interface

- Indicator lights
- Switch operation
- Touch screen
- App remote control
- Vehicle status / alarm indicator
- Real-time task management
- Basic parameter setting
- Fault diagnosis

Operations management

- Supports multiple communication protocol interfaces
- Third-party signal access: safety door/ field sensors / photoelectric switch / elevator / mechanical arm, etc.
- Dynamic path planning to avoid traffic jams caused by hot spots or disabled AMRS

Other Options Available on Request

Linde Material Handling Australia
☎ 1300 135 463
🌐 www.lindemh.com.au
🏠 5 Distillers Place, Huntingwood NSW 2148

Linde Material Handling

Linde

Subject to modification in the interests of progress, illustrations and technical details not binding for actual constructions and may show the optional equipment.

Technical Data

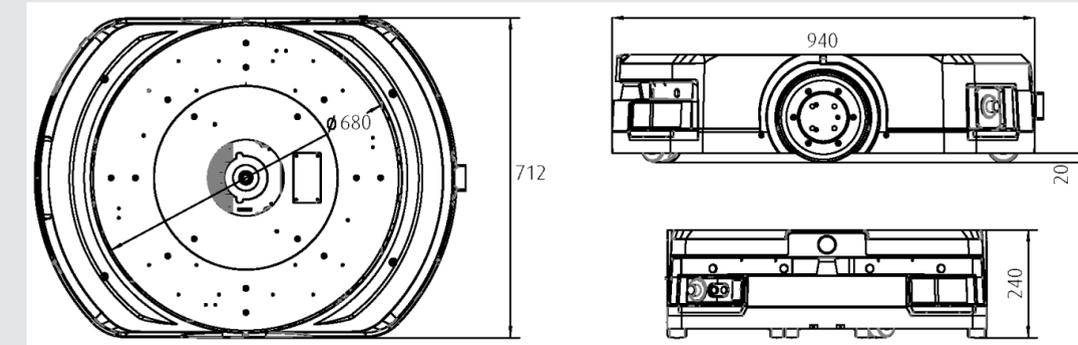
		LINDE	LINDE	
Characteristics	1.1 Manufacturer	LINDE	LINDE	
	1.2 Model designation	C-MATIC 06	C-MATIC 10	
	1.3 Rated load capacity	Q (kg)	600	
	1.4 Power type		Lithium-ion battery	
	1.5 Drive type		Differential drive	
	1.6 Lifting type		Electrical lifting	
	1.7 Navigation type		QR code+IMU	
	1.8 Service weight	kg	145 ⁽⁵⁾	210 ⁽⁵⁾
Wheels	2.1 Tyres, Drive/castor: C=cushion P=polyurethane	-	P/P	
	2.2 Tyre size, drive wheel	mm	Ø200x40	
	2.3 Tyre size, castor wheel	mm	Ø75x(2x30)	
	2.4 Wheels, number drive wheels/castor wheels (x=driven)		2X+2 ⁽⁶⁾	2X+4 ⁽⁶⁾
Detection	3.1 Front obstacle avoidance		Laser scanner	
	3.5 Crash detection (optional)		Front & rear mechanical bumpers	
	3.6 Emergency button		Front & rear emergency stop	
	3.7 Stop precision	mm	± 5	
	3.8 Stop angle precision	°	± 1	
	3.9 Navigation precision	mm	± 10	
Dimensions & Performance	4.1 Overall length (with mechanical bumper/w.o. mechanical bumper)	mm	940/956 ⁽²⁾	1150/1184 ⁽²⁾
	4.2 Overall width (with mechanical bumper/w.o. mechanical bumper)	mm	712/730 ⁽²⁾	800/834 ⁽²⁾
	4.3 Overall height	mm	240 ⁽²⁾	250 ⁽²⁾
	4.4 Ground clearance	mm	20 ⁽⁴⁾	20 ⁽⁴⁾
	4.5 Rotating diameter, Unladen	mm	956	1250
	4.6 Lifting height	mm	55 ⁽⁴⁾	60 ⁽⁴⁾
	4.7 Rated travel speed, Unladen*	m/s	2 ⁽¹⁾	1.5 ⁽¹⁾
	4.8 Rated travel speed, Laden*	m/s	1.5 ⁽¹⁾	1.2 ⁽¹⁾
	4.9 Rated acceleration, Unladen*	m/s ²	1.5	1
	4.10 Rated acceleration, Laden*	m/s ²	0.6	0.6
	4.11 Lifting speed	m/s	0.04 ⁽³⁾	0.04 ⁽³⁾
	4.12 Maximum gapping ability	mm	5	5
	4.13 Maximum bulging ability	mm	5	5
	4.14 Maximum climbing ability	%	3	3
	4.15 Communication mode		WiFi	WiFi
Drive	5.1 Battery type		NMC	LFP
	5.2 Battery voltage/rated capacity (5h)	V/Ah	48/33	48/38.5
	5.3 Drive motor power (S1)	W	750	1000
	5.4 Lifting motor power (S2-5min)	W	480	580
	5.5 Rotating motor power (S1)	W	400	400
Others	6.1 Type of drive control		Servo control	Servo control
	6.2 Noise level	dB(A)	75	75

Figures for standard version may vary when optional equipment is fitted.

- 1) ±5%
- 2) ±5mm
- 3) ±10%
- 4) ±2mm
- 5) Standard configuration with battery weight
- 6) The castor wheels are double distributed

* The actual running speed is dependant on the application and environment

C-MATIC 06



C-MATIC 10

