

MORELLO

MATERIAL HANDLING TECHNOLOGY SINCE 1946

BATTERY POWERED TROLLEY

THE FUTURE OF HEAVY DUTY MATERIAL HANDLING

OMNI



FULLY
ELECTRIC



OMNI
DIRECTIONAL



MODULAR
DESIGN



LIFTING
DECK



FULLY
CUSTOMIZABLE



HYDRAULIC
SUSPENSIONS



EX
CERTIFIABLE



REMOTE
ASSISTANCE

OMNI is the latest solution in heavy duty material handling

- ✓ Manageable
- ✓ Accurate
- ✓ Flexible
- ✓ Constraints-free

BENEFITS AND FEATURES



INCREASED PRODUCTIVITY

OMNI **minimizes cranes usage**, thanks to the **lifting deck** which allows to **lift and move the load** where needed.



SUITABLE FOR ALL TYPES OF LOAD

OMNI is perfect for handling both **small and extremely large loads** thanks to its **modular design** and its high payloads: **over 200 ton for each trolley**.



SUITABLE FOR ALL TYPES OF SPACES

OMNI is extremely compact and thanks to all the **different types of steering** it can move even in very narrow spaces.



SUITABLE FOR ALL TYPES OF ENVIRONMENT

OMNI is extremely **silent**, completely **non-polluting** and requires **almost no maintenance** as **steering and traction are entirely electric** (AC brushless engines) and it is **battery-powered**. OMNI is also designed for use in **hazardous areas**.



SUITABLE FOR ALL TYPES OF FLOORING

Hydraulic suspensions, mechanical oscillation of axles and **various available types of wheels** allow OMNI to **work even outdoors**, ensuring an even **load distribution on uneven floors**.



FULLY CUSTOMIZABLE

OMNI can be customized according to **all customer needs** (dimensions, payload, battery life, superstructures and many others).



FULL SUPPORT

OMNI can be equipped with a remote assistance board ensuring **swift after-sales service** directly from the production plant.



TYPES OF STEERING

ALL WHEELS



90°



360° / CAROUSEL



FRONT OR REAR



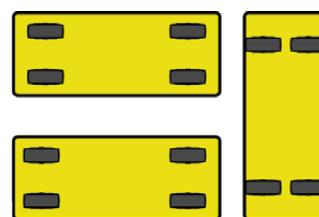
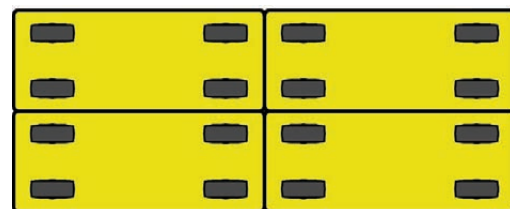
DIAGONAL / CRAB



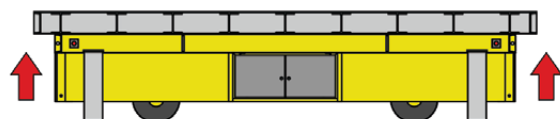
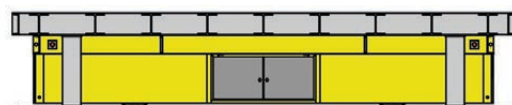
AROUND A POINT



MODULAR COMBINATIONS EXAMPLES



LIFTING DECK FEATURE



TECHNICAL DATA

OMNI



Model	2 AXLE LINES	3 AXLE LINES	4 AXLE LINES
Payload	10 t ÷ 120 t	20 t ÷ 180 t	25 t ÷ 240 t
Length	from 3500 mm	from 4500 mm	from 6000 mm
Width	from 2000 mm	from 2200 mm	from 2400 mm
Loading deck height	from 550 mm	from 550 mm	from 550 mm
Wheels number	8	12	16
Kind of wheels	Polyurethane / Cushion (rubber)		
Lifting deck	No (-)		
Climbing ability	5 %		
Speed	0 - 3 km/h		
Battery	Lead acid / Gel / LiFePo		

OMNI-E



Model	2 AXLE LINES	3 AXLE LINES	4 AXLE LINES
Payload	10 t ÷ 120 t	20 t ÷ 180 t	25 t ÷ 240 t
Length	from 3500 mm	from 4500 mm	from 6000 mm
Width	from 2000 mm	from 2200 mm	from 2400 mm
Loading deck height	from 550 mm	from 550 mm	from 550 mm
Wheels number	8	12	16
Kind of wheels	Polyurethane / Cushion (rubber)		
Lifting deck	Yes (stroke from 100 mm)		
Climbing ability	5 %		
Speed	0 - 3 km/h		
Battery	Lead acid / Gel / LiFePo		

CUSTOMIZATIONS

Payload	Over 240 t (increasing axle lines number)
Kind of wheels	Polyurethane / Cushion / Pneumatic / Superelastic
Climbing ability	On request
Speed	Up to 5 km/h
Battery life	Over 15000 m
Power supply	Battery / Electric grid / Diesel generator
Safety devices	Laser scanners / Sensitive bumpers / Sensitive edges / Ultrasonic sensors
Explosion proof (Ex)	On request
AGV	On request
Special dimensions	On request
Special coating and IP protection	On request

**INCREDIBLE
STEERING
PRECISION**



**PERFECTLY
COUPLED AND
SYNCHRONIZED
MOVEMENT**



**EASY COMMAND BY
REMOTE CONTROLLER
AND LCD TOUCH
PANEL ON BOARD**



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