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MOPTro™ LITE

Light Intra-logistic Transport Electric



Efficient.
Economical.
Electrical.





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Reduce workload increase efficiency

An innovative product solution, MOPtro LITE is primarily designed to reduce workload and increase efficiency. A modular product, it is customizable and can be used effectively for the transport of warehouse goods, for the food and beverage industry, and for housekeeping service management. It reduces the time taken by the human resources for manual transport and enables them to complete other essential tasks. Besides this, it is also environmentally-friendly and reduces the carbon footprint as a company.



PRODUCT FEATURES

Industry 4.0
compliant

High
Productivity

Human-
Centric

Design IoT
cloud-based
platform



Reduces
manpower



Saves
time



Reduces carbon
footprint

Customizable for multiple industries

100 Kgs

Max. load
carrying
capacity*

2

Number of
crates

15 Km/h

Speed-max

8-10 Hrs

Battery charging time
(Lead acid battery)

Upto

25 Kms

Range per
charge

4 Hrs

Charging time as
powered with
Li-ion batteries



Warehouse



Food & Beverages



Warehouse



Housekeeping

MOPtro LITE was borne with the intention to fill the gap that emerged in industries between human efficiency and the requirement to transport materials to support services. These industries included tourism, travel, hospitality and any other industry that depends on human logistics. As a result of this gap, the brand value of the company drops, as they struggle with service delivery. With MOPtro LITE, the whole task is now simplified and allows a company to be efficient even with limited human resources. Customizable in nature, this electric transport vehicle can be designed to fit the needs of these industries. It also adds certain pride in the workforce and increases employee productivity.



Designed for put-
away and picking
processes



IOT-based
vehicle
diagnostics



Optional on-board
scanning solution
for accurate
put-away/picking



Optional reverse
motion for easier
navigation



Available in
Lithium-ion
battery (optional)

Warehouse

The warehouse is an integral part of the smooth functioning of any company.

FEATURES

- With the aid of the Order Picking App, one can add a warehouse item pick path and optimize it with an algorithm called PAKA.
- One can add a 1D Scanner for order-processing (One product, multiple application)
- It has safety lights in the front for easy movement in the dark aisles
- Fleet management app GDT Connect will be provided, along with vehicle analytics



Housekeeping

Housekeeping makes the backbone of the hospitality industry, as it's the little details that make a difference. MOPtro LITE's following features make housekeeping a more efficient process.

FEATURES

- It helps accommodate all the items in the housekeeping requirement
- It contains separate compartments for soiled/old clothes and new, refreshing clothes

Food and Beverage

Food and beverages are one of the diverse products that are exposed to dangers of spill, spoilage and damage. MOPtro LITE aids in solving the issues and making transport easier for them

FEATURES

- It accommodates liquid and solid food
- It works well for places with centralised food processing and for multiple places where food has to be delivered



Know your MOPTro L.I.T.E



Handle Bar



Optional Features and Accessories

Quick Battery Swapping (only
for Li-ion Battery)

48V Li-ion Battery

Vehicle IOT

On-board Scanner
Integration

Scanning and Picking
Solution

Android App for User Login
and Authentication

Order Picking App

Specifications - MOPTro L.I.T.E

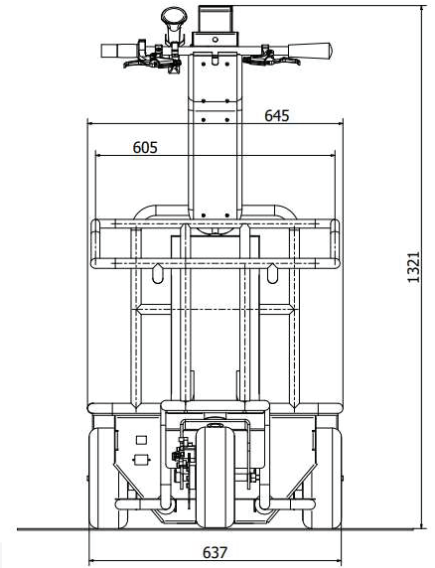
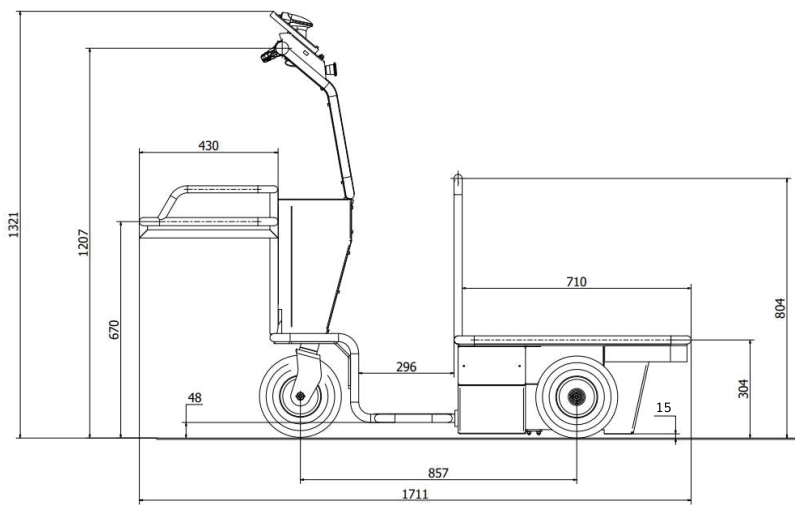
	Sl. No.	Parameter	UOM	Value/Specification
General Information	A.1	Model	NA	MOPTro™ U
	A.2	Vehicle type	NA	Battery powered
	A.3	Special features	NA	Reverse option, IOT, Analytics, BT connectivity, WIFI connectivity, On-board scanner, Picking solution
	A.4	Operating voltage	V	48V DC
Performance & Capacity	B.1	Maximum speed	Kmph	15 (Configurable between 10 to 15)
	B.2	Max load carrying capacity (Other than operator)	Kg	100
	B.3	Max distance per charge	Kms	25
	B.4	Max noise level	dB(A)	80
	B.5	Average weight of the operator	Kg	75
Dimensions & Weight	C.1	Overall length	mm	1711
	C.2	Overall width	mm	637
	C.3	Overall height	mm	1321
	C.4	Ground clearance	mm	15
	C.5	Rider platform width	mm	296
	C.6	Wheel base	mm	857
	C.7	Turning radius	mm	1250
	C.8	Curb weight	Kg	120
Tote Carrier	D.1	Number of tote carriers	Nos	2
	D.2	Max load carrying capacity – Front tote carrier	Kg	20
	D.3	Max load carrying capacity – Rear tote carrier	Kg	80
	D.4	Front tote carrier inner dimension	mm	570(L) x 370 (B)
	D.5	Rear tote carrier inner dimension	mm	685(L) x 595(B)
	D.6	Suitable Tote size 1 – Front tote carrier	mm	Outer Dimension: 626(L) x 381(B) x 300(H) Inner Dimension: 590(L) x 345(B) x 293(H)
	D.7	Suitable Tote size 2 – Front tote carrier	mm	Outer Dimension: 540(L) x 340(B) x 220(H) Inner Dimension: 520(L) x 300(B) x 213(H)
Battery & Charger (Lead Acid)	E.1	Battery	NA	4x12V, 24AH, Lead Acid
	E.2	Battery life - Charging cycles	Nos	300
	E.3	Full charging time	Hrs	8 to 10
	E.4	Charger input	NA	Single phase AC, 5 Amps
	E.5	Power consumed per full charge	Units	1

DISCLAIMER

These specifications are subject to change without prior notice. Please consult your local dealer/distributor for detailed specifications.

Battery & Charger (Li-Ion) - Optional	F.1	Battery	NA	48V, 24AH, Li-ion
	F.2	Battery life - Charging cycles	Nos	500
	F.3	Full charging time	Hrs	4 to 6
	F.4	Charger input	NA	Single phase AC, 5 Amps
	F.5	Power consumed per full charge	Units	1
User Interface & Transmission	G.1	Throttle	NA	Wrist activated
	G.2	Brake	NA	Lever activated, Left hand side
	G.3	Direction change	NA	ON/OFF switch in front panel
	G.4	Battery status indicator	NA	Red LED in handlebar - Blinking indicates low battery
	G.5	Vehicle ON/OFF indicator	NA	Red LED in handlebar - ON/OFF
	G.6	Motor spec	NA	48V, PMBLDC, 750 W
	G.7	Number of motors	NA	1
Wheels & Brakes	H.1	Number of drive wheels	Qty	2
	H.2	Drive wheel type	NA	Custom built 10-inch tyre, Pneumatic with tube
	H.3	Number of steering wheels	NA	1
	H.4	Steering wheel type	NA	Custom built 10-inch tyre, Pneumatic with tube
	H.5	Brake type in drive wheels	NA	Disc brake + Electronic motor cut-off
Safety & Protection	I.1	Emergency stopper	NA	Emergency stop switch in handlebar
	I.2	Safety lights	NA	Blinking LED lights in both directions
	I.3	Horn	NA	90 dB hooter
	I.4	Ingress protection	NA	IP51
	I.5	Battery protection	NA	Low voltage cut-off High voltage cut-off Over load cut-off Over charging cut-off End of life indication
Misc	J.1	Colour combination	NA	Matte black + GD orange
	J.2	Colour finish	NA	Powder coated
Optional Features	K.1	LCD display	NA	On-board mobile display
	K.2	User login & authentication	NA	K.1 + Mobile app with login integration
	K.3	Scanning solution	NA	K.1 + On-board USB scanner (1D)
	K.4	Picking solution	NA	K.1 + K.3 + Integration of scanner with customer app
	K.5	Picking app	NA	K.1 + K.3 + Integration of GDT-PICKER™* mobile app with WMS and configuration of PAKA™*** algorithm in app
	K.6	IOT and data analytics	NA	K.1 + Integration of vehicle with customer server and GDT-CONNECT™*** mobile and web application
	K.7	Battery swapping	NA	Option to swap discharged battery with charged pack (Option available only for Li-ion pack)

Dimensions



All dimensions are in mm

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