OS Industrial
Material Handling Equipment

CX SERIES

ELECTRIC MACHINERY MOVER

Operation and Safety Manual

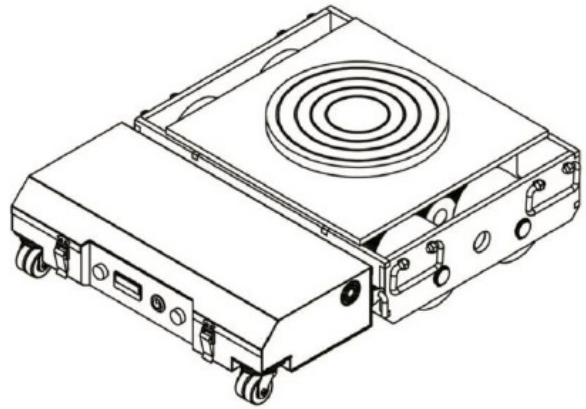
Applicable models

Cx-10T | Cx-20T | Cx-25T | Cx-30T

Cx-40T | Cx-50T | Cx-60T

READ BEFORE OPERATION

For transporting goods only. Do not carry or lift persons.



BATTERY-POWERED INDUSTRIAL TRANSPORT EQUIPMENT

1. Product overview

The Cx Series electric machinery mover is designed for short-distance transport of heavy machinery and industrial equipment on firm, level surfaces. The machine uses a battery-powered dual-motor drive and may be operated by wired or wireless control, depending on the supplied configuration.

Intended use

- Move properly supported industrial loads within the rated traction capacity shown on the machine nameplate.
- Operate indoors or in comparable dry industrial environments on clean, hard and level floors.
- Use suitable jacks and auxiliary load skates when positioning or removing the powered mover.

Prohibited use

- Do not carry persons, use the machine as a lifting device, or permanently support a raised load.

- Do not operate on stairs, soft ground, unstable surfaces, public roads or in explosive atmospheres.

2. Preparation before operation

Equipment inspection

- Check the frame, turntable, wheels, fasteners and guards for deformation, cracks, looseness or abnormal wear.
- Confirm that the battery is adequately charged and securely installed. Inspect cables, plugs and connectors for damage.
- Verify that the emergency stop, forward/reverse and steering controls return correctly and that indicators operate normally.

Work area

- Keep the travel route clear, dry and sufficiently wide. Remove debris and protect floor edges, pits and openings.
- The standard machine is intended for firm, level surfaces. Avoid gradients unless specifically approved for the supplied model.

Load preparation

- Confirm the total load and its weight distribution before selecting the number and positions of supporting units.
- Secure the load against sliding, rotation or tipping. Keep the centre of gravity as low and central as practicable.

Before every movement, establish a clear route and appoint one responsible operator.

3. Operating procedure

1. Position the load

Use suitable jacks to raise the load only high enough to position the powered mover and auxiliary skates. Centre the load on each rotating platform and verify stable support.

2. Connect and start

Release the emergency stop, switch on the main power and confirm the power and battery indicators. Select the lowest practical speed for the first movement.

3. Move the load

Operate forward, reverse and steering controls smoothly. Accelerate and stop gradually. Maintain continuous visual contact with the load and travel path.

4. Stop and unload

Stop at the designated position, apply the stop function, switch off the main power and use suitable jacks to remove the movers. Lower the load onto a stable foundation.

Important operating rules

- Do not make abrupt steering inputs at speed.
- Keep personnel clear of the load, pinch points, wheels and travel path.
- Never place hands or feet beneath a raised or moving load.
- Do not exceed the rated traction capacity or nameplate ratings.
- Stop immediately if control response, noise, vibration or temperature is abnormal.

4. Remote-control functions

Control layouts vary by configuration. The supplied controller may provide forward/reverse travel, left/right steering, speed selection, cruise or hold functions, status display and emergency stop.

Use only the controller paired with the machine. Check the emergency stop before each shift. If communication is lost or the response is abnormal, release the control, press emergency stop and switch off main power.

5. Storage and routine maintenance

- Store in a dry, ventilated area away from rain, corrosive substances, heat sources and direct sunlight.
- For long-term storage, isolate the battery and maintain its state of charge in accordance with the battery supplier's instructions.
- Inspect wheel surfaces, bearings, fasteners, electrical connectors and protective covers at regular intervals.
- Use only compatible chargers and replacement parts. Electrical and drive-system repairs shall be performed by qualified personnel.

6. Emergency handling

- If the machine behaves unexpectedly, press emergency stop, switch off main power and secure the load against movement.
- Evacuate non-essential personnel. Do not work beneath an unstable or suspended load.
- If battery damage, overheating, smoke or unusual odour is observed, move personnel away and follow the battery emergency procedure.

7. Basic troubleshooting

No power	Main switch, emergency stop, battery charge and connectors	Restore the correct switch state; recharge or reconnect safely
No travel response	Controller pairing, communication and drive alarm	Stop use; reset only in accordance with the supplied instructions
One side does not drive	Visible cable damage, obstruction and controller fault indication	Do not rewire motors in the field; contact qualified service personnel
Abnormal noise or heat	Wheel, bearing, gearbox, brake and motor	Stop immediately and isolate the machine for inspection

8. Cx Series model information

The exact configuration and permissible load are governed by the machine nameplate and order specification.

Model	Nominal traction	Battery	Motor power
Cx-10T	10 t	48 V / 30 Ah	500 W x 2
Cx-20T	20 t	48 V / 60 Ah	750 W x 2
Cx-25T	25 t	48 V / 60 Ah	1000 W x 2
Cx-30T	30 t	48 V / 60 Ah	1200 W x 2
Cx-40T	40 t	48 V / 120 Ah	1500 W x 2
Cx-50T	50 t	48 V / 120 Ah	2000 W x 2
Cx-60T	60 t	48 V / 120 Ah	3000 W x 2

OS INDUSTRIAL - TECHNICAL SUPPORT

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Keep the machine serial number and purchase record available when requesting service.