

Fig. 1 – Render model.

The motorized trolley MODEL "C" maintenance unit is a roof carrier support system for maintenance access on buildings. A self-powered platform is required. The main features are:

- Support only, no powered hoist system included.
- Powered traversing movement through polyurethane wheels on concrete tracks or steel wheels on rails.
- Hydraulic luffing on jib to allow launching the platform (if necessary).
- Slewing ring on the turret.
- Pendant control.
- Designed in conformity with the following standard Directive: European Directive of Machinery 2006/42/CE and under harmonized standards UNE-EN 1808 "Safety requirements for suspended platforms. Design calculations, stability criteria, construction. Essays".



1. DESCRIPTION OF THE EQUIPMENT:

TROLLEY - MAIN COMPONENTS:

1. Rear polyurethane wheels (not powered).
2. Base frame.
3. Traversing motor.
4. Powered polyurethane wheels.
5. Guide wheels.
6. Slewing ring.
7. Electrical control box.
8. Hydraulic luffing (ram).
9. Turret.
10. Counterweight box.
11. Motor for slewing ring.
12. Jib.
13. End stop.
14. Self-powered platform power supply.
15. Pendant control.
16. Hydraulic unit.

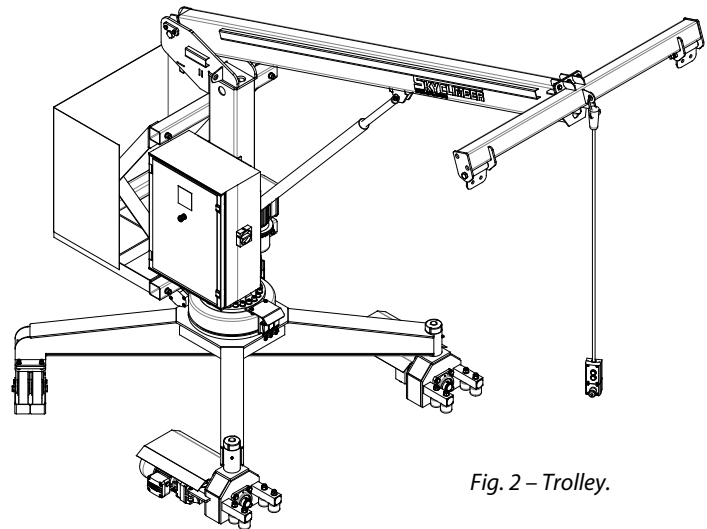


Fig. 2 - Trolley.

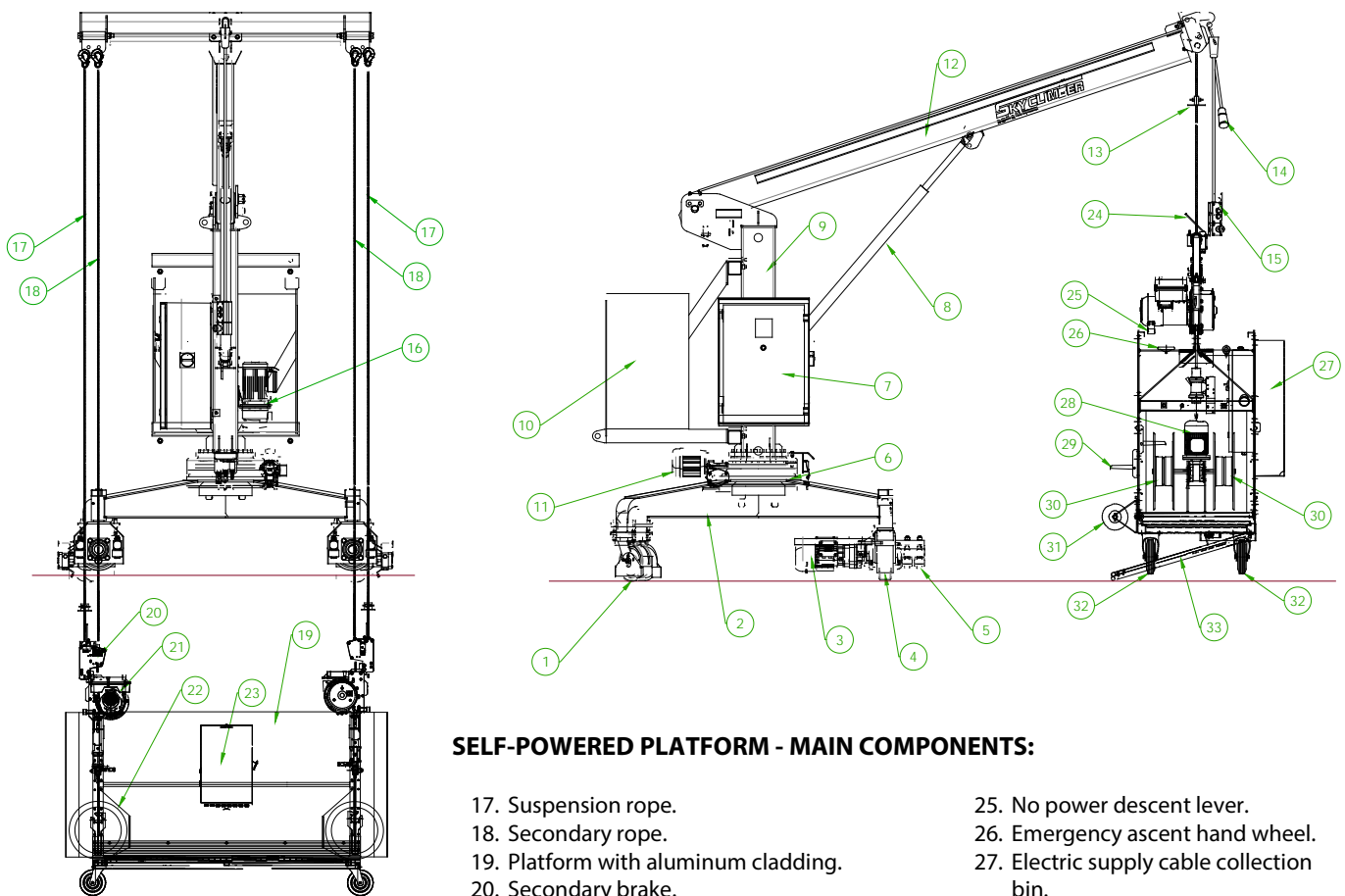


Fig. 3 - References.

SELF-POWERED PLATFORM - MAIN COMPONENTS:

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|---|--|
| <ol style="list-style-type: none"> 17. Suspension rope. 18. Secondary rope. 19. Platform with aluminum cladding. 20. Secondary brake. 21. Traction hoist, 1000 Kg # capacity. 22. Wire winder protection. 23. Central control box with anti-tilting device and tool outlet for 1 Ph hand tools. 24. Top limit switch + ultimate top limit switch. | <ol style="list-style-type: none"> 25. No power descent lever. 26. Emergency ascent hand wheel. 27. Electric supply cable collection bin. 28. Rope reel motor. 29. Foot step. 30. Twin drum wire winder. 31. Wall roller. 32. Caster wheels. 33. Bottom limit trip bar. |
|---|--|

2. TECHNICAL SPECIFICATIONS:

GENERAL:

Maximum height:	100 M.
Dead weight:	2.980 Kg. (reach = 2m.)
Total suspended load:	590 Kg.
Finished and painted:	Galvanized and aluminum cladding.
Color RAL:	Can be customized per customer preference.
Control panel:	In machine and platform.
Control system:	By suspended cable.
Power supply:	III + PE 400V (According to country requirements)
Maximum reach:	2.000 mm. / 3.500 mm.
Minimum reach:	-150 mm.

TRAVERSING:

Motorized traversing:	Yes.
Traversing through:	Heavy duty polyurethane wheels / steel wheels.
Wheels distance:	Depending of the design.
Traversing speed:	7,5 m/min. - 10 m/min.
Traversing detector:	Yes, acoustic.

JIB:

Type of jib:	Mono jib.
Length of jib:	Site-specific, up to 4,5 m.
Luffing:	Yes, hydraulic (if necessary).
Luffing speed:	85° / min.
Turning jib:	Yes, motorized or manual.
Turning speed:	Yes, 100° / min.

SELFPOWERED PLATFORM:

Platform:	Fixed length aluminium w/ side frames, handrails, steel end stirrups, 2 wall rollers and 4 caster wheels.
Length platform:	2 m.
Rated load:	240 Kg.
Max. allowed persons:	2.
Platform finish:	Aluminum cladding.
Motorized hoist:	Electric man-rated traction hoist complete with: plug outlet for central control box, plug outlet for top limit switch, Sky OL build in.
Nº wire ropes:	Compatible with 2 or 4 rope systems.
Diameter wire ropes:	8,4 mm.
Drum:	Twin drum wire winder.
Support on facade:	By rollers
Bottom Safety bar:	Yes.
Emergency descent:	No power descent lever + hand wheel.
Overload:	Sky OL (electronic overload inside Central Control Box)
Control box:	Central control box with anti-tilting device and tool outlet.

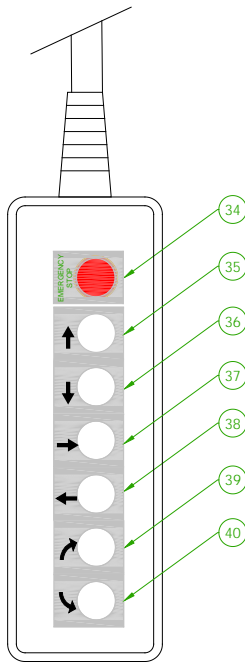
REGULATION:

Regulation:	Design and manufacturer under UNE EN 1808:2016. European 2006/42 CE
Certificate:	ISO 9001:2015
Certificate:	CE certificate.

3. CONTROLS:

The trolley "C" model has 3 control points:

- Electrical control box panel (fig. 3 - point 7).
- Pendant control (fig. 3 - point 15).
- Central control box on platform (fig. 3 - point 23).



PENDANT CONTROL:

- 34. Emergency stop.
- 35. Lift jib.
- 36. Lower jib.
- 37. Traverse right.
- 38. Traverse left.
- 39. Turn right jib.
- 40. Turn left jib.

Fig. 4 – Pendant control.

CENTRAL CONTROL BOX ON PLATFORM:

- 41. Tool Outlet 230 V 10A 1 ph.
- 42. Main switch ON-OFF with interlock.
- 43. Selector switch hoists (I. I+II, II).
- 44. Bottom limit override.
- 45. Indication light (red) safety circuit.
- 46. Emergency push button.
- 47. Test button.
- 48. Push button UP cradle.
- 49. Push button DOWN cradle.

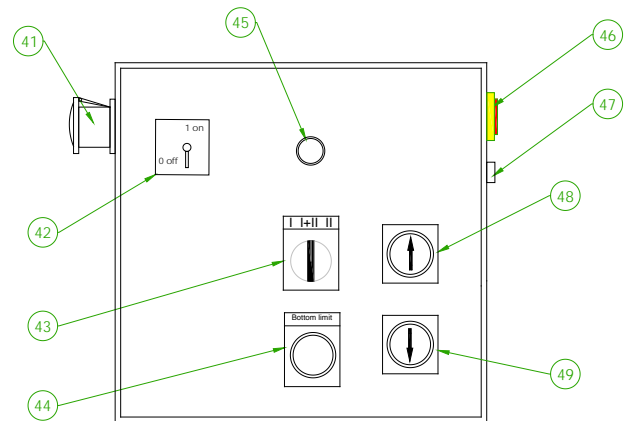


Fig. 5 – Control panel on platform.

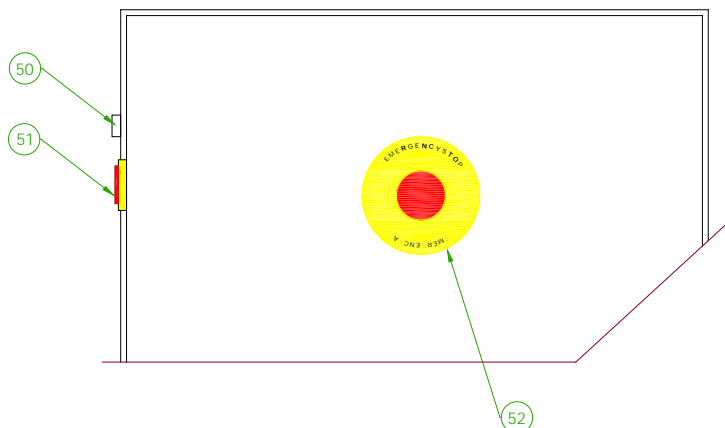


Fig. 6 – Electrical control box panel.

ELECTRICAL CONTROL BOX:

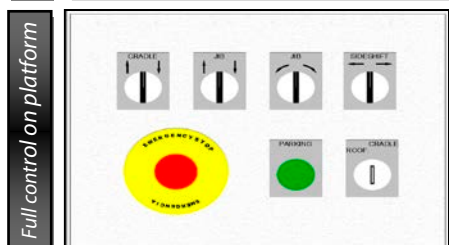
- 50. Main switch.
- 51. Led power on.
- 52. Emergency stop.

4. SAFETY DEVICES:

To ensure safe operation without danger to personnel, the machine is fitted with a number of safety devices which monitor the correct operation of the various components and operate in the event of a breakdown or fault.

ELECTRICAL EMERGENCY DEVICES	ELECTRICAL SAFETY DEVICES	MECHANICAL & HYDRAULIC SAFETY DEVICE
Emergency push button. Emergency switches for movements. Protection to earth. Overload protection. Power supply Phases control. Emergency relay category C.	Limit switches. First meters protection Warning sounds. Thermal magnetic protection for all motors.	Guides rollers for wheels. Protectors on wheels. Mechanical end stops Rupture or pilot-operated valve Non return valve Safety valve Manometer

5. AVAILABLE OPTIONS:



- Others
- ✓ Water tanks.
 - ✓ Anemometer.
 - ✓ Telephone.
 - ✓ Parapet rail mounted.
 - ✓ Restrain system (if needed).
 - ✓ Control inside wire ropes.

Note: The machine and all components described in this technical sheet can be modified any time by the manufacturer without prior warning.