

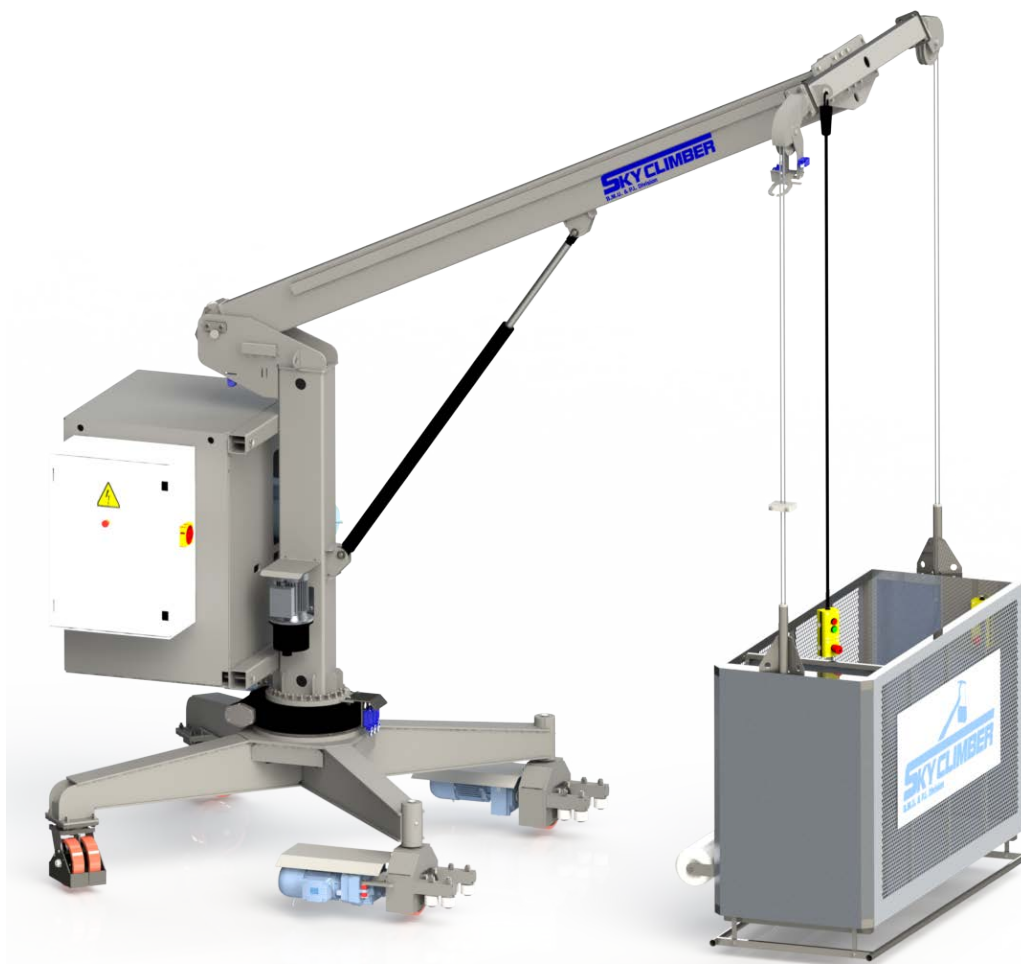


Fig. 1 – Render model.

The MS MODEL Building Maintenance unit is an efficient system for maintenance access on buildings. Their main features are:

- Cradle for 2 people, including materials and tools.
- Traversing movement through polyurethane wheels on concrete tracks, steel wheels on rails or parapet tracks even.
- Hydraulic luffing on jib to allow positioning the cradle (if necessary).
- Slewing ring of the turret.
- Maximum height allowed 40 m.
- 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:

MAIN COMPONENTS:

1. Polyurethane wheels.
2. Traversing motor.
3. Guide wheels.
4. Base frame.
5. Slewing ring.
6. Counterweight box.
7. Electrical control box.
8. Hydraulic unit.
9. Hydraulic luffing (ram).
10. Turret.
11. Jib.
12. Head.
13. Cable sheaves.
14. End stop.
15. Pendant control.
16. Control panel on cradle.
17. Cradle.
18. Anti-collision bar.
19. Rollers.
20. Wire ropes.

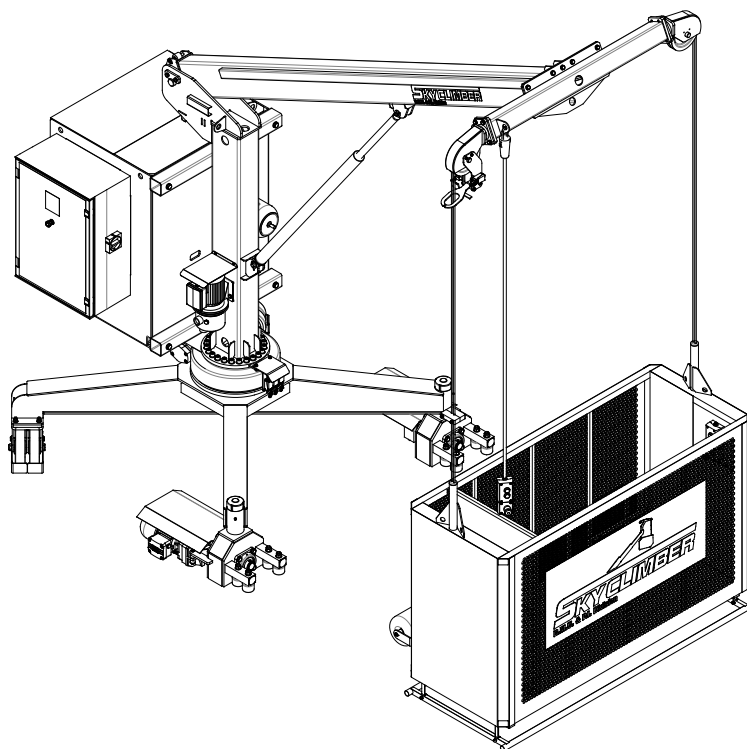


Fig. 2 – Standar model.

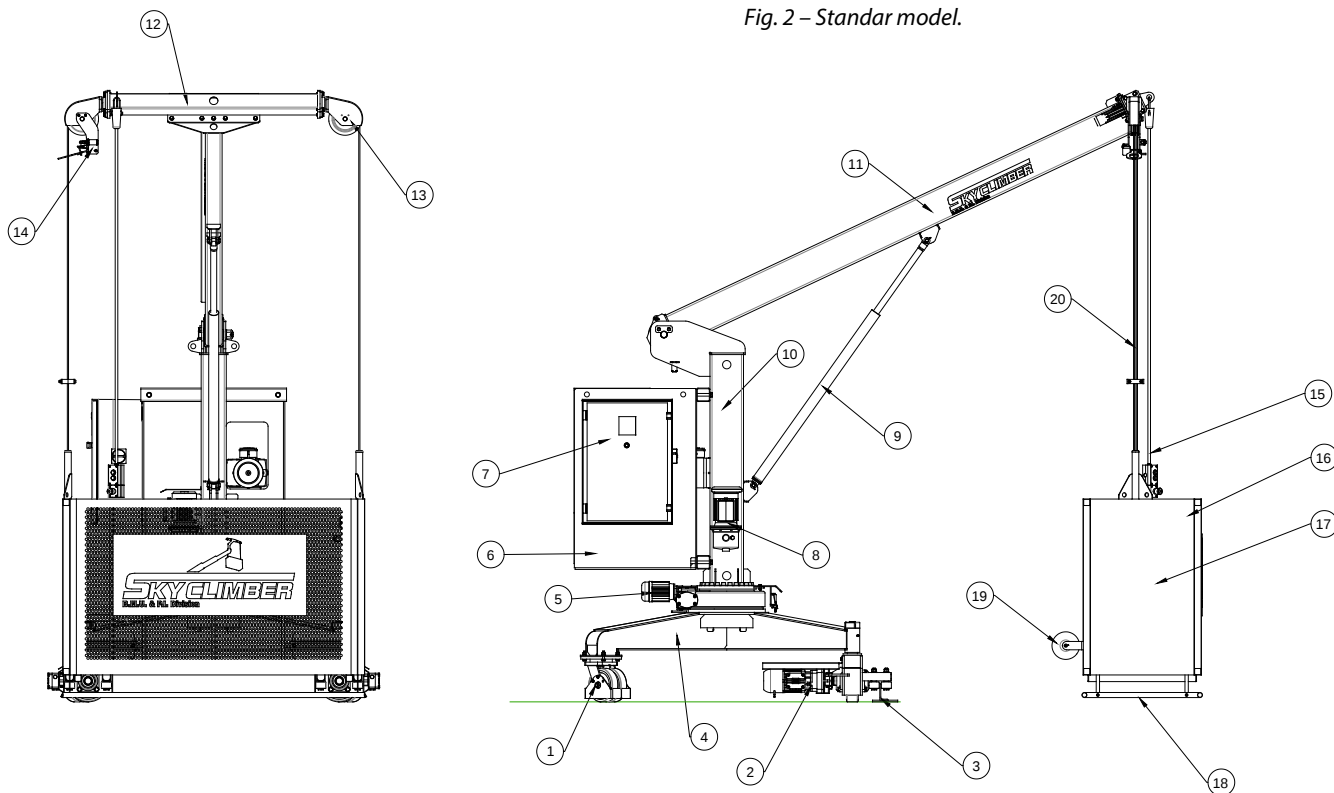


Fig. 3 - references

2. TECHNICAL SPECIFICATIONS:

GENERAL:

Maximum height:	40 m.
Dead weight:	2.150 Kg.
Finished and painted:	1º. Hot Deep galvanized. 2º. Abrasive blasting: Silica sand. 3º. Zinc epoxy primer: zinc phosphate with dry thickness of 120 µ. 4º. Painted: aliphatic polyurethane with dry thickness of 60 µ.
Color RAL:	To be define.
Control panel:	In machine and cradle.
Control system:	By suspended cable
Power supply:	III + PE 400V (According country requirements)
Drum system	Special layer
Maximum reach:	2.000 mm. – 3.500 mm.
Minimum reach:	200 mm.

ELEVATION/TRAVERSING:

Motorized elevation:	Yes, 10 m/min. – 12 m/min.
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.
Nº wire ropes:	4
Diameter wire ropes:	6 - 7 mm.

JIB:

Type of jib:	Mono jib.
Lenght of jib:	Depending of the design.
Luffing:	Yes, hydraulic (if necessary).
Turning jib:	Yes, 100º / min.

CRADLE:

Lenght cradle:	1,8 m. – 2,5 m.
Cradle rated load:	240 Kg.
Max. allowed persons:	2.
Finished cradle:	Galvanized steel structure with aluminium cover.
Support on facade:	By rollers
Nº rollers:	2 uts.
Bottom Safety bar:	Yes.
Protections:	Anti-slipping floor.
Harness points:	Yes.

REGULATION:

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

3. CONTROLS:

The MS model has 3 control panel:

- Electrical control box panel (fig. 3 - point 7).
- Pendant control (fig. 3 - point 15).
- Control panel on cradle (fig. 3 - point 16).

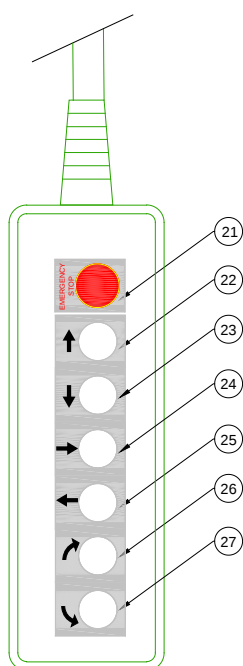


Fig. 4 – Pendant control.

PENDANT CONTROL (in case):

- 21. Emergency stop.
- 22. Lift jib.
- 23. Lower jib.
- 24. Traverse right.
- 25. Traverse left.
- 26. Turn right jib.
- 27. Turn left jib.

CONTROL BOX ON CRADLE:

- 28. Switch lift / lower cradle.
- 29. Parking.
- 30. Emergency stop.

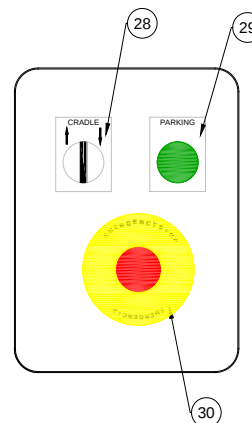


Fig. 5 – Control panel on cradle.

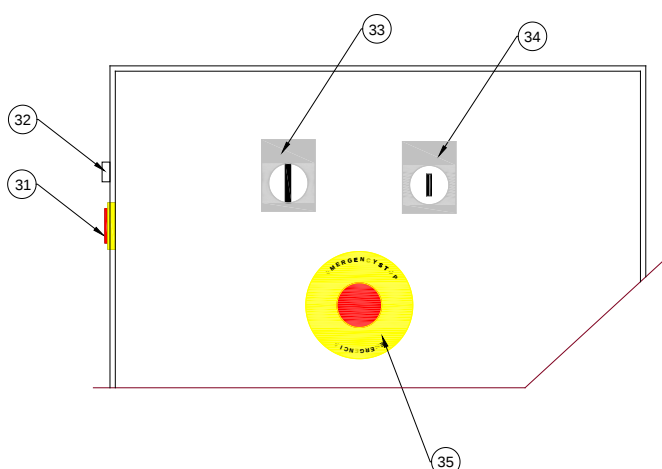


Fig. 6 – Electrical control box panel.

ELECTRICAL CONTROL BOX:

- 31. Main switch.
- 32. Led power on.
- 33. Switch lift / lower cradle.
- 34. Switch for roof control or cradle control.
- 35. 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



Fig. 7 – Secondary brake

5. AVAILABLE OPTIONS:

- ✓ Cable reel.
- ✓ Steel wheels: traversing on rails.
- ✓ Turn on head.
- ✓ Auxiliary hoist.
- ✓ Control through wire ropes.



Fig. 8– Cable reel.

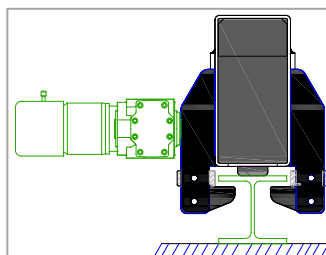


Fig. 9 – Steel wheels on rails.



Fig. 10 – Turn on head.

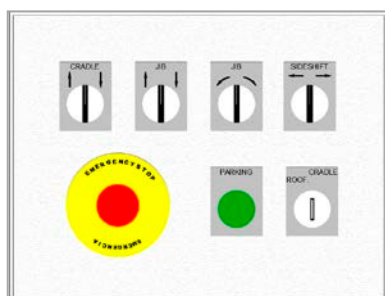


Fig. 11– Full controls on cradle.



Fig. 12 – Auxiliary hoist.

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