

Fig. 1 – Render model.

The **T MODEL** Building Maintenance Unit is a system for maintenance with telescopic jib to access on facade buildings. The main features are:

- One jib telescopic.
- The cradle is designed to take one, two or more people together with their tools and cleaning materials.
- Motorized traversing movement through polyurethane wheels on concrete tracks, steel wheels on rails or in a fixed position.
- Luffing on jib to allow launching the platform (optional).
- 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. End stop.
2. Head.
3. Cable sheaves.
4. Counterweights.
5. Electrical control box.
6. Housing.
7. Guide wheels.
8. Rail track.
9. Traversing motor.
10. Base frame.
11. Turning jib motor.
12. Hydraulic unit.
13. Hydraulic luffing.
14. Telescopic jibs.
15. Telescopic motors.
16. Turning head.
17. Suspension wire ropes.
18. Restrain pin control.
19. Platform.
20. Rollers.
21. Anti-collision bar.

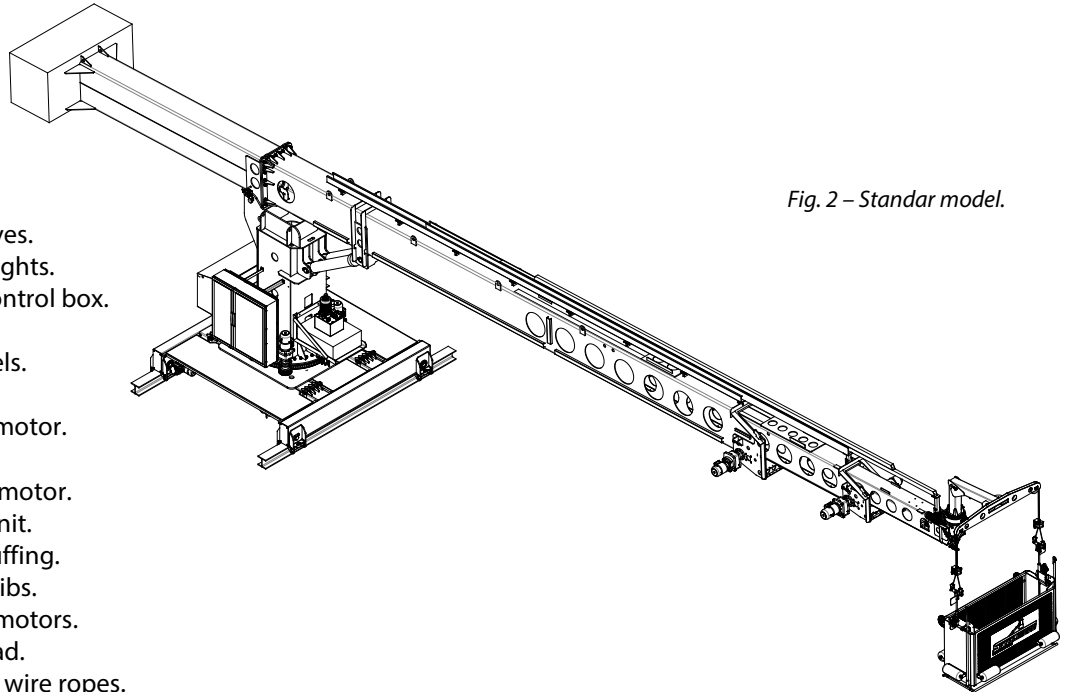


Fig. 2 – Standar model.

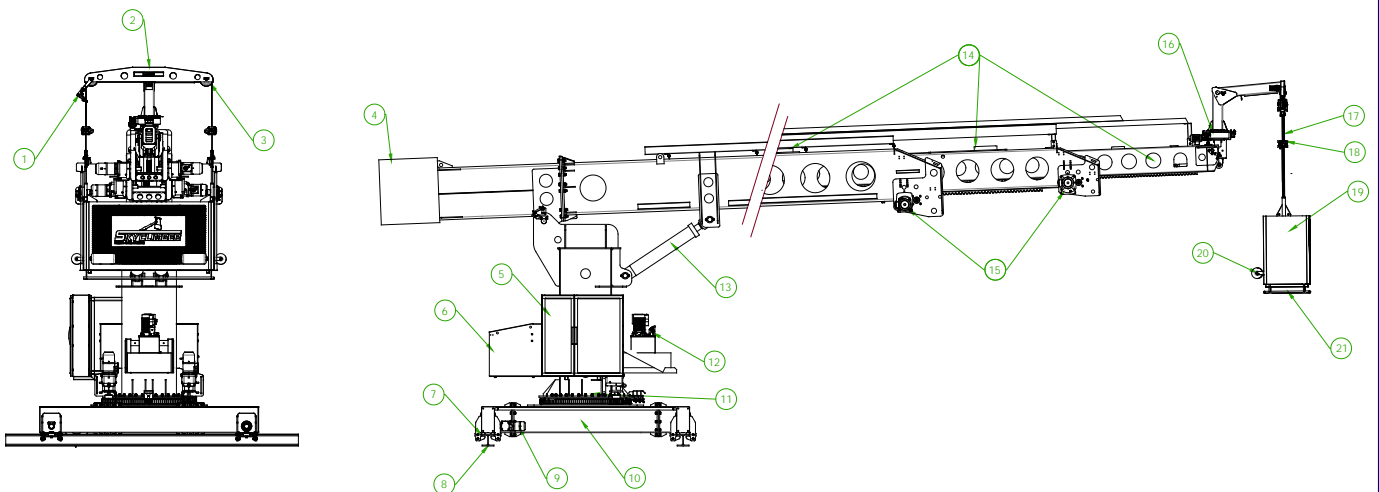


Fig. 3 – References.

## 2. TECHNICAL SPECIFICATIONS:

### GENERAL:

<b>Maximum height:</b>	400 m.
<b>Dead weight:</b>	Depending of the design.
<b>Finished and painted:</b>	1º. <b>Hot Deep galvanized.</b> 2º. <b>Abrasive blasting:</b> Silica sand. 3º. <b>Zinc epoxy primer:</b> zinc phosphate with dry thickness of 120 µ. 4º. <b>Painted:</b> aliphatic polyurethane with dry thickness of 60 µ.
<b>Color RAL:</b>	Can be customized per customer preference.
<b>Control panel:</b>	In machine and cradle.
<b>Control system:</b>	Inside wire ropes or trough suspension wire.
<b>Power supply:</b>	III + PE 400V (According country requirements)
<b>Drum system</b>	Multilayer (+40 m.)
<b>Maximum reach:</b>	6.000 mm. – 50.000 mm
<b>Minimum reach:</b>	0 mm.

### ELEVATION/TRAVERSING:

<b>Motorized elevation:</b>	Yes, 10 m/min. – 14 m/min.
<b>Motorized traversing:</b>	Yes (or fixed: no translation)
<b>Traversing through:</b>	Steel wheels or heavy duty polyurethane wheels.
<b>Wheels distance:</b>	Depending of the design.
<b>Traversing speed:</b>	7,5 m/min. – 12m./min.
<b>Traversing detector:</b>	Yes, acoustic.
<b>Nº wire ropes:</b>	4
<b>Diameter wire ropes:</b>	7 mm. or 8 mm.

### JIB:

<b>Type of jib:</b>	Telescopic jib.
<b>Lenght of jib:</b>	To be define.
<b>Luffing:</b>	Optional: fixed or hydraulic.

### CRADLE:

<b>Lenght cradle:</b>	From 1,6 m. to 4 m. or more.
<b>Cradle rated load:</b>	240 Kg. / 300 Kg.
<b>Max. allowed persons:</b>	2 (or more, optional)
<b>Finished cradle:</b>	Galvanized steel structure with aluminium cover / fully aluminium.
<b>Support on facade:</b>	By rollers
<b>Nº rollers:</b>	2 uts. Or more
<b>Bottom Safety bar:</b>	Yes.
<b>Protections:</b>	Anti-slipping floor.
<b>Harness points:</b>	Yes.

### REGULATION:

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

### 3. CONTROLS:

The "T model" has 2 control points:

- Electrical control box panel.
- Control panel on platform.

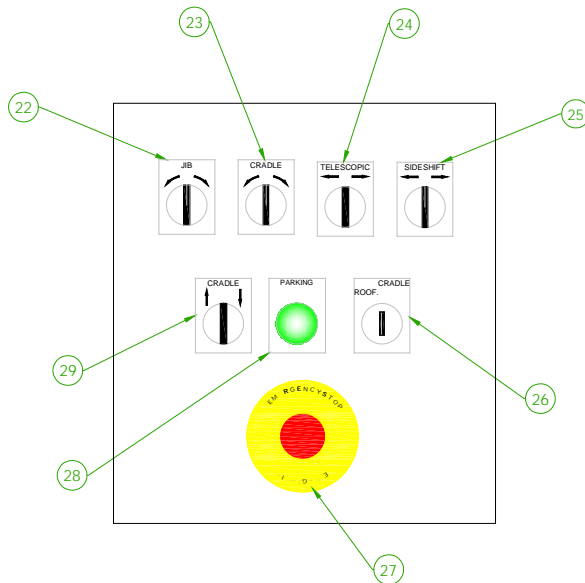


Fig. 4 – Control panel on platform.

#### **CONTROL BOX ON PLATFORM**

- 22. Switch RIGHT / LEFT jib.
- 23. Switch RIGHT / LEFT platform.
- 24. Telescopic jib IN / OUT.
- 25. Translation RIGHT / LEFT.
- 26. Switch for roof control or platform control.
- 27. Emergency stop.
- 28. Parking.
- 29. Switch lift / lower platform.

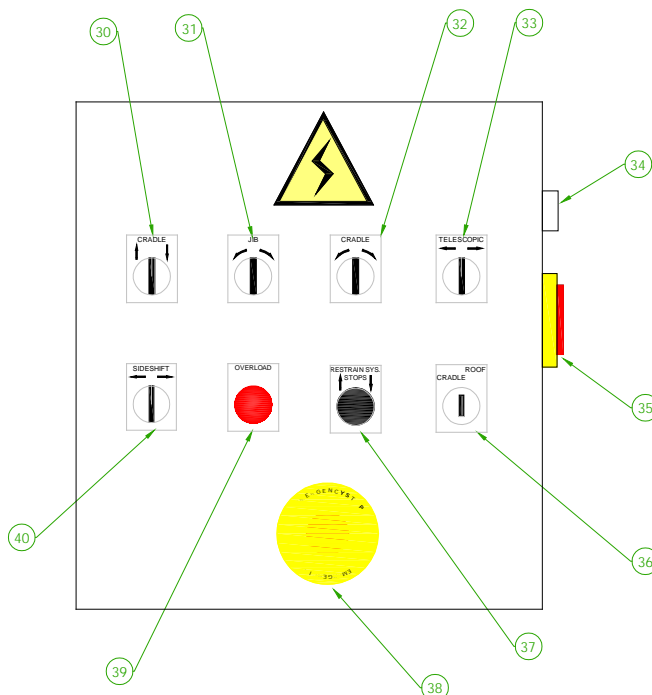


Fig. 5 – Electrical control box panel.

#### **ELECTRICAL CONTROL BOX:**

- 30. Switch lift / lower platform.
- 31. Switch RIGHT / LEFT jib.
- 32. Switch RIGHT / LEFT platform.
- Restrain pin system control.
- 33. Telescopic jib IN / OUT.
- 34. Led power on.
- 35. Main switch.
- 36. Switch for roof control or platform control.
- 37. Restrain pin control (optional)
- 38. Emergency push button.
- 39. Overload indicator (led).
- 40. Translation RIGHT / LEFT.

#### 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
<ul style="list-style-type: none"> <li>• Emergency push button.</li> <li>• Emergency switches for movements.</li> <li>• Protection to earth.</li> <li>• Overload protection.</li> <li>• Power supply Phases control.</li> <li>• Emergency relay category C.</li> </ul>	<ul style="list-style-type: none"> <li>• Limit switches.</li> <li>• First meters protection</li> <li>• Warning sounds.</li> <li>• Thermal magnetic protection for all motors.</li> </ul>	<ul style="list-style-type: none"> <li>• Guides rollers for wheels.</li> <li>• Protectors on wheels.</li> <li>• Mechanical end stops</li> <li>• Rupture or pilot-operated valve</li> <li>• Non return valve</li> <li>• Safety valve</li> <li>• Manometer</li> </ul>



Fig. 6 – Secondary brake

#### 5. AVAILABLE OPTIONS:



- Others
- ✓ Water tanks.
  - ✓ Anemometer.
  - ✓ Telephone.
  - ✓ Luffing on head.
  - ✓ Luffing on jib.
  - ✓ Parapet rail mounted.
  - ✓ Restrain sytem (if needed).

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