

1. DESCRIPTION:

The GIND-SJ model Building Maintenance Unit (BMU) is a simple and economic system for all cleaning and maintenance on buildings. The cradle is designed to take **two people** together with their tools and cleaning materials, up to **a maximum working height of 280 m**.

The system consists of:

- a mobile traversing trolley with a fix or rotating spreader bar on a single jib, also enclosing the lifting mechanism and the controls,
- an aluminium cradle suspended to the trolley by galvanised steel wire ropes.

Access of personnel to the cradle is totally safe, with the cradle positioned on the roof next to the trolley.

All the operations are powered :

- lifting and lowering of the cradle.
- traversing of the trolley.
- slewing of the turret.
- slewing of the spreader bar.

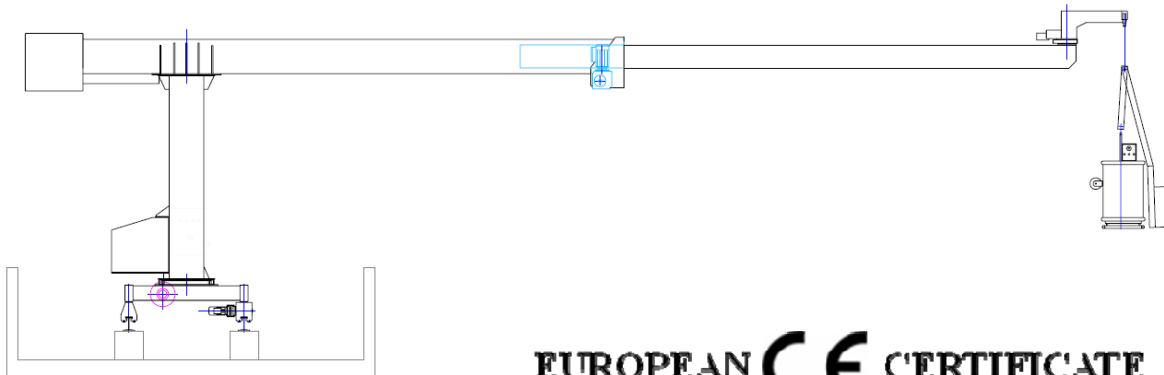
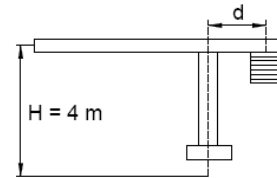


Fig.1. SJ BMU

EUROPEAN  CERTIFICATE





2. STANDARD MODELS:

model	spreader bar	max. height 280m	jib length m													track rails	distance d≈	fixing distance mm	
			3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	1500			1800	
SJ-XX15	Fixed		X	X	X	X	X									X	1000	X	
	Rotating		X	X	X	X										X	1000	X	
SJ-XX18	Fixed							X	X							X	1250		X
	Rotating							X	X							X	1250		X
SJ-XX15 Pesada	Fixed							X	X	X	X	X				X	1000	X	
	Rotating							X	X	X	X	X				X	1000	X	
SJ-XX18 Pesada	Fixed													X	X	X	1250		X
	Rotating												X	X	X	X	1250		X

2. 1. Machine identification

SJ = SJ machine
with 2 m cradle
for 2 people

SJ

15

20

15 = machine with 15 m. maximum range

20 = wheel span 2000 mm

3. TECHNICAL SPECIFICATIONS

Trolley

traversing by brake motor		0.25 kW 50Hz
traversing speed		8 m/min.
lifting hoist	type	GinD
nominal capacity	daN	350
safety device	type	Integrated
power supply cable		4G-2.5
useful length	m	20

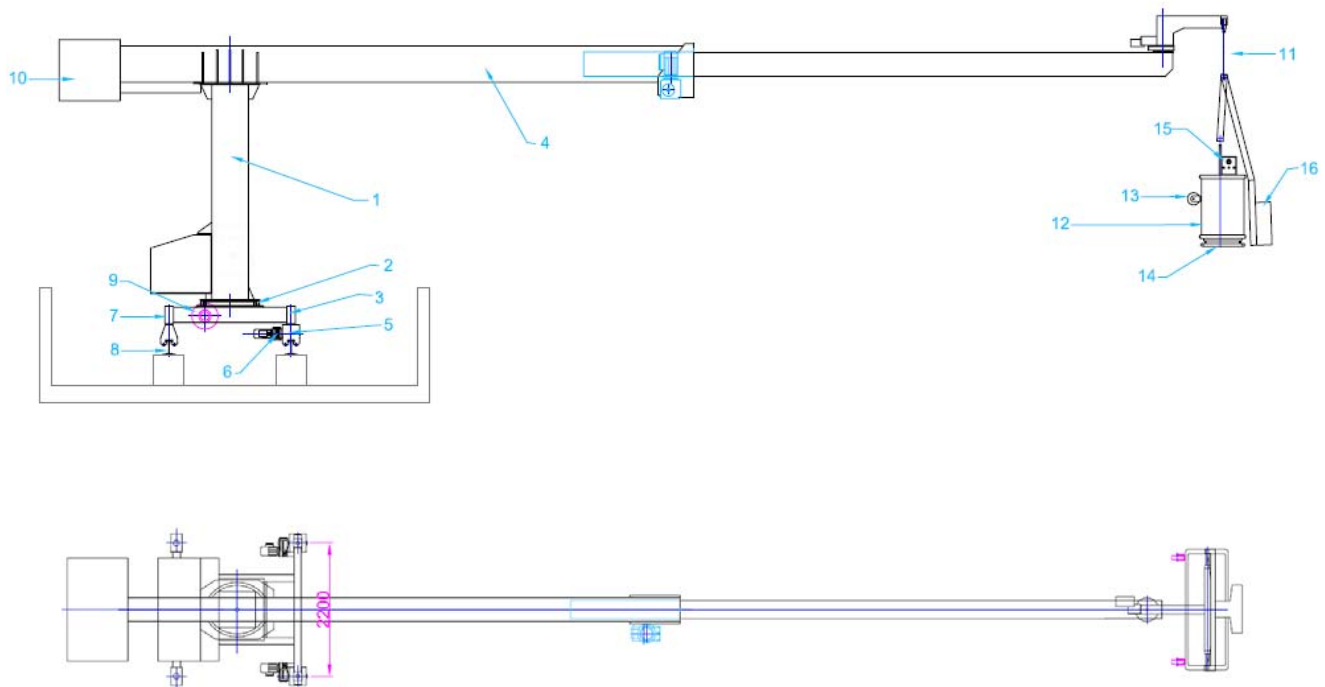
Cradle

dimensions	mm	2000x600
nominal load	daN	CE version = 240 kg
= max. number of persons		2
deadweight	±kg	100
lifting / lowering speed	m/mn	8.5
control		via pendant cable
suspension wire rope	type	Ø 6.5 mm, 5 strands
number		1 + 1
diameter	mm	6.5
guaranted breaking load	daN	2840

4. DESCRIPTION OF THE EQUIPMENT:

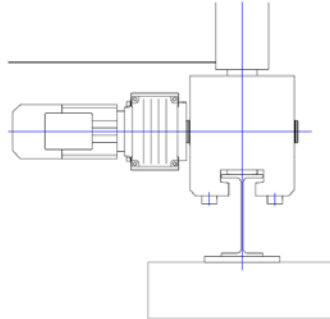
4.1. Main Components:

1. Turret
2. Powered slewing ring
3. Central beam
4. Jib
5. Powered wheel box
6. Geared motor
7. Rear roller frame
8. Guide wheel
9. Reeler for supply cable
10. Counterweight
11. Wire rope
12. Cradle
13. Support roller
14. Anti-collision bar
15. Cradle control box
16. SAM (Approach system)



4.2. Traversing trolley:

The lower trolley is in steel, hot dip galvanized protection. The trolley and the turret are connected by a powered slewing ring. The trolley is guided along the track by guide wheels attached to the wheel box.



4.3. Jib:

The jib, in tubular steel section, is fixed to the mast of the turret. The length of jib can reach 8.5 m.

4.4. Electrical controls:

The electrical controls consist of the following main items:

On the trolley

- the power supply cable for connecting the trolley to the power points. This cable is stored on a reeler under the trolley.
- an electrical control box.

On the cradle

- a control box.

4.5. Cradle:

The cradle is a tubular aluminium structure, clad with perforated aluminium panels. Two foam rollers allow the cradle to rest lightly against the facade and absorb the swinging movements. An anti-collision bar fitted under the cradle prevents collision with obstacles when lowering.

4.6. Wire Ropes:

The cradle is suspended from the jib by sheaved wire ropes. Is equipped with an overspeed safety brake. This brake acts in case of a too speedy descent of the cradle. Then the wire ropes are stored on a powered double reeler.

4.7. Controls:

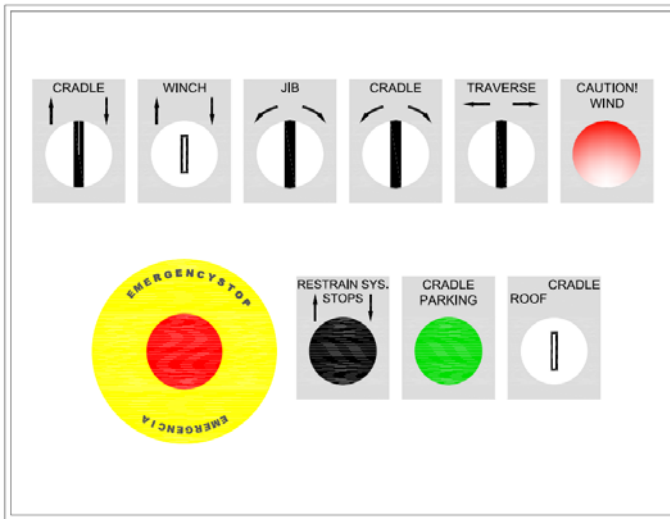
Selection of the control panel

The equipment has two control panels:

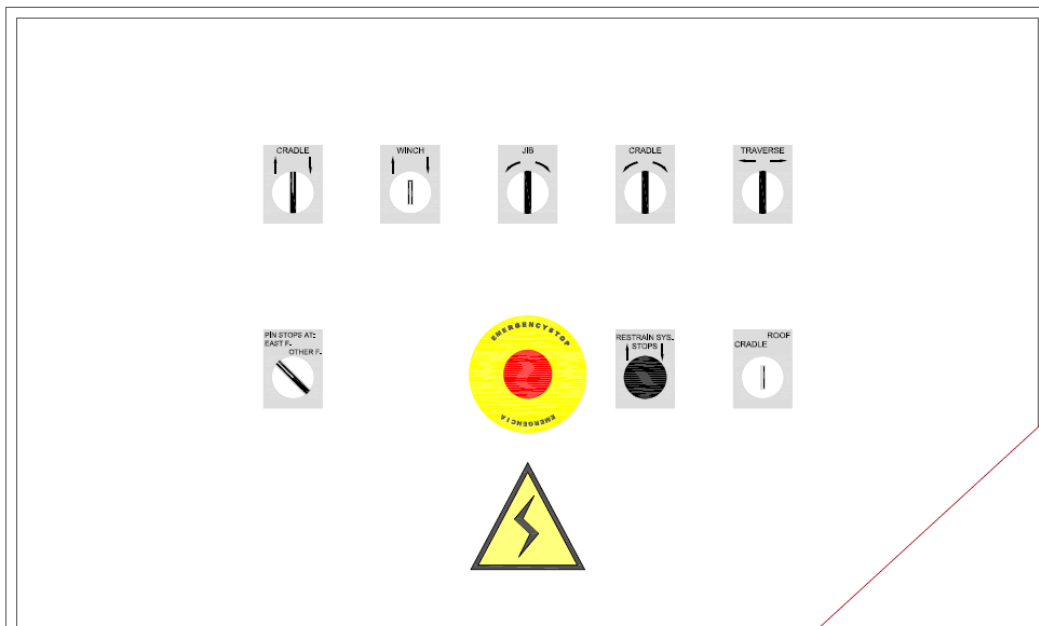
- 1 main control panel in the cradle, connected to the trolley by a flexible cable.
- 1 control panel on the trolley for back-up operations in the event of failure of the main control panel.

The control panel is selected using the lockable switch on the trolley control box.

Cradle control box



Trolley control box





TECHNICAL SPECIFICATIONS
GIND-SJ MODELS
BUILDING MAINTENANCE UNITS(BMU)

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5. 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.

5.1. Safety devices on the cradle

- emergency stop
- lower anti-collision bar

5.2. Safety devices on the trolley

- emergency stop
- cradle upper safety limit switch
- cradle FINAL upper safety limit switch
- cradle overload safety device
- safety device
- slack wire rope safety device
- end of wire rope safety device
- electrical supply cable end limit switch
- slewing of turret
- slewing of spreader bar
- traversing end limit switch
- emergency lowering handle