

Product Catalog

2014-2015

FBA GOMYL

The logo for FBA GOMYL features the text "FBA GOMYL" in a bold, white, sans-serif font. To the right of the text is a blue circular graphic element consisting of two concentric arcs, resembling a stylized 'C' or a partial circle.



INTRODUCTION

Our permanent access systems are composed of working structures that move over a series of fixed rails, which are attached to the building. From the working structure one can safely access the façade for cleaning or maintenance purposes. The working structure is designed to meet your specific requirements. It can take many different forms, such as a vertical ladder with or without movable platform, a reinforced ladder (vertical, horizontal or sloped), a staircase, a solid gantry, a gantry that in turn has moveable parts, etc.

Based on the desired principles of operation we typically propose one or more designs, using our experience to ensure the designs are practically feasible and provide the desired ease of use. We also produce custom platforms to be integrated in third party building maintenance units.

TYPES OF PRODUCTS

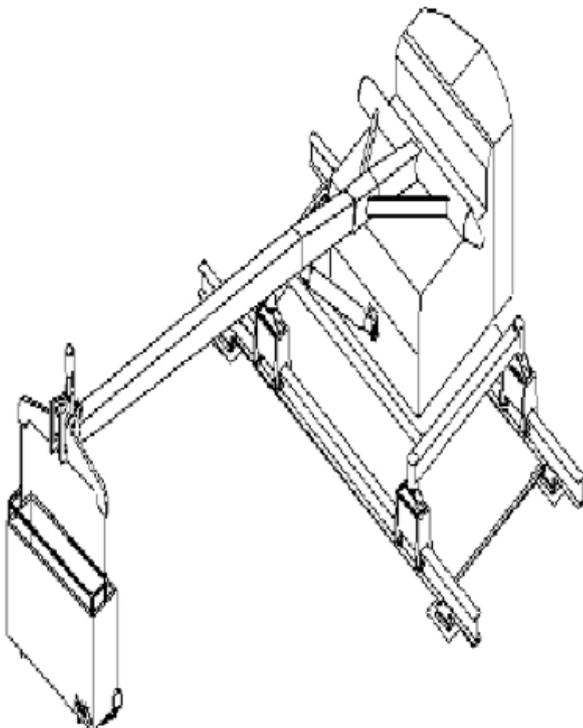
FBA 1

DESCRIPTION

The BMU is constructed of two parts, namely a base-frame and a cranehouse with two jibs and a cradle.

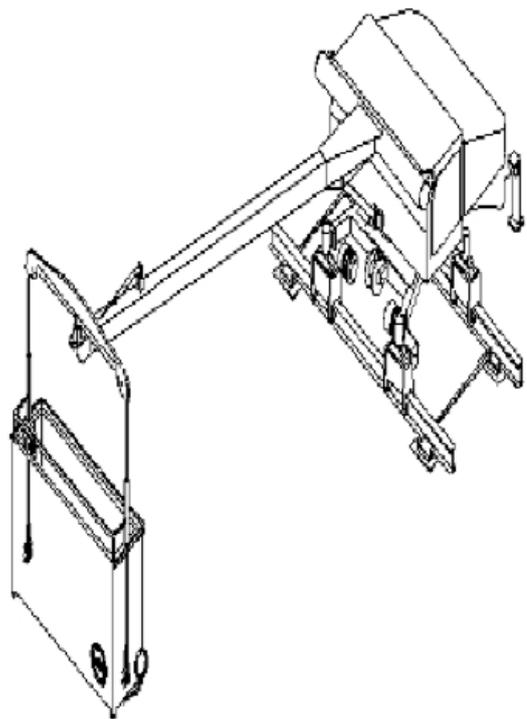
Base Frame

The base frame has four wheelsets suitable for the track existing in site. The two front wheel assemblies are centrally fitted under the frame. Both front wheels are connected to an electric geared motor drive. The two rear wheel assembly arms are swiveling type for negotiating bends. They are provided with vertical allowances for compensating levels of track. Limit switches at the arm pivot ensure speed difference between front and rear wheels while negotiating bends.



Cranehouse with the crane jibs

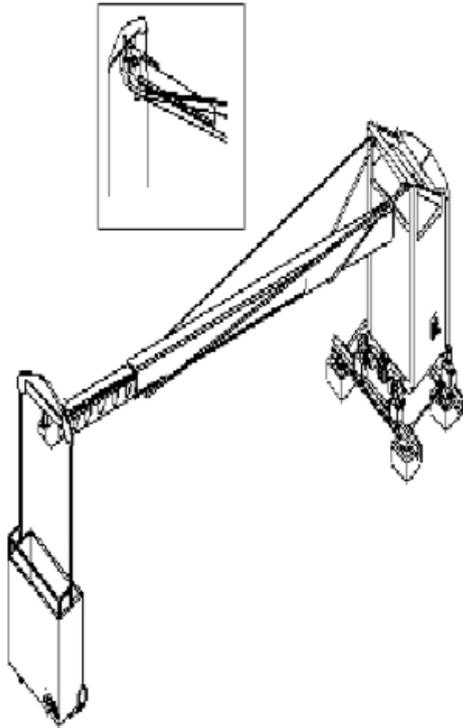
The cranehouse that houses hoist unit and main slew drive system is mounted to the baseframe by means of a slewing ring with electrical drive to allow the crew to slew the cradle from its non-working position on the roof to the working position in front of the façade. The crane house designed to rigidly support the jib with luffing mechanism and the hoist unit.



The crane jibs

The crane jibs are fitted to the cranehouse frame in a hinged joint with suitable bearing arrangement. A luffing device, consisting of an electric motor with screw

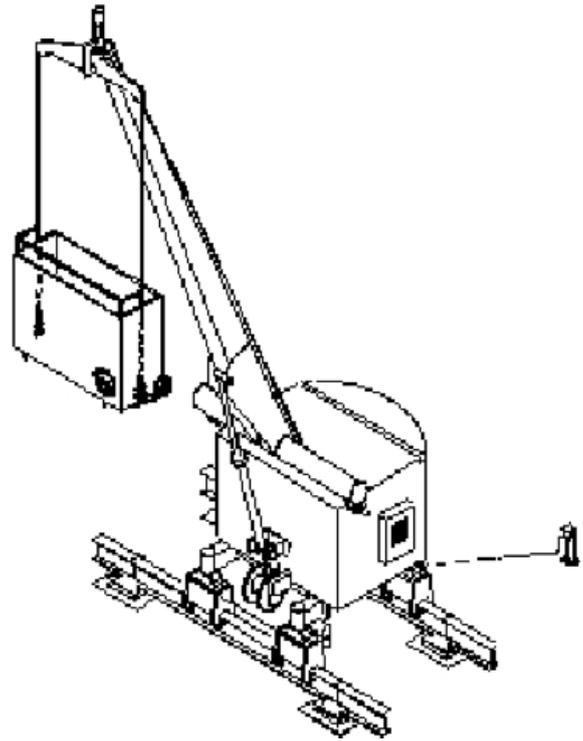
spindle and traveling nut, allow a luffing movement of the jibs to adjust the distance between cradle and façade. The system comprises of a safety nut to hold the jib in case of wear failure of main nut. Also, a system to electrically annunciate the wear failure can be optionally incorporated in the system.



The hoist unit.

The hoist unit consists of a brake motor of irreversible type with a second centrifugal brake, a gear box and a cable drum divided into 4-sections. The drum has helical groves to allow the rope to wind efficiently. At the end of each layer, the direction of motion changes to fill the following layer. Both ends of the drum are supported, namely one end in a Internal slew ring bearing support and the other end in an overspeed device with bearing and expansion joint.

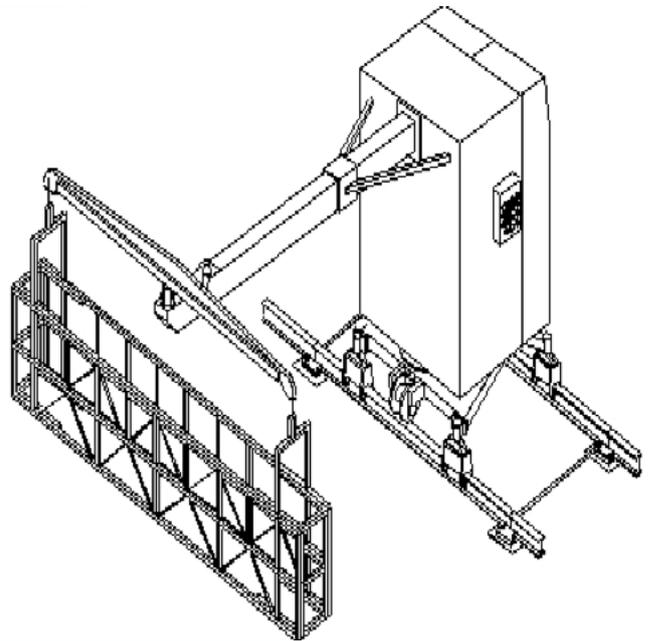
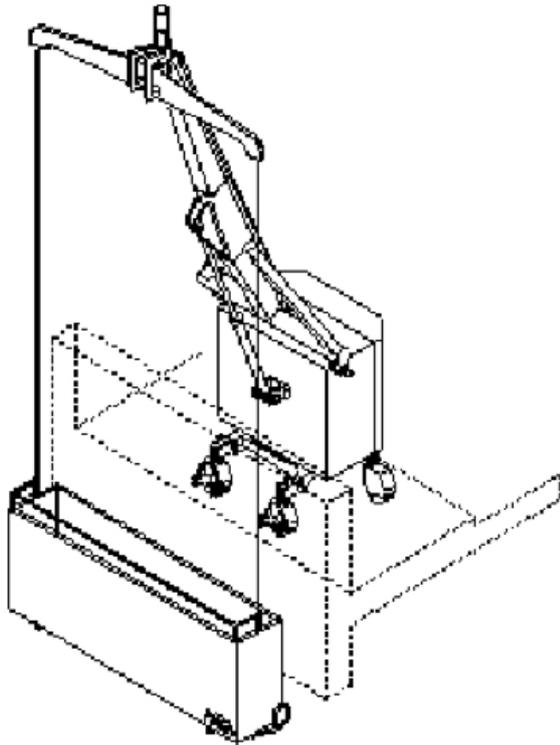
The suspension ropes have core conductors of suitable capacity to control all the functions of the power unit from cradle control panel through a slip ring mechanism mounted to the drive of the hoist unit. Alternatively we you may opt for a EN approved copper conductor system.



The cradle.

The super structure of the cradle is built of galvanized steel. The super structure has aluminum cladding all around. The backside of the cradle is provided with a guardrail to 1,20m above the cradle floor. The cradle is also provided with protective rubber cushions to prevent damage to the building. A trip bar under the cradle stops the descent of the platform when an obstruction is encountered.

A control panel inside the cradle with deadman type push buttons control system allow controlling of the motions of the roof trolley. The cradle is suspended by four suspension ropes, namely two hoisting ropes and two safety ropes through wedge sockets, over load device and rope equalizing mechanism. The special shape of the cradle will allow access to required portions of the façade.



SCOPE OF SUPPLY

Cradle with four rope suspension system in aluminium. Complete with:

- > Two fixing points for safety belts.
- > Two light coloured protecting profiles.
- > One anti slip flooring.
- > One soft foam distance roller.

Roofcar in welded design, complete with:

- > One jib with/without luffing device.
- > Two horizontal bearings.
- > One winch housing with inspection door.
- > One multi layer drum winch with rope.
- > Lay down device.
- > One primary brake.
- > One secondary brake.
- > One bevel wheel geared brake motor with manual brake release and emergency decent.
- > One spring loaded cable wheeler fixed or motorised spreader bar.

- > One slewing ring between winch housing and Under carriage for 350 degree turning.
- > One four point traversing unit with two electrical geared brake motors and two self adjusting rear wheels.
- > One control panel with PLC control and self Diagnostic system. Machine status on display.

Control elements:

- > One control box in cradle.
- > One anti collision bar.
- > One control box at roof car.
- > Four rope lay down detectors.
- > Four slack rope detectors.
- > One limit switch spring loaded cable wheeler.
- > One limit switch secondary brake.
- > Two limit switches final position luffing device.
- > Two limit switches slewing roof car.
- > Two limit switches traversing gear.
- > One limit switch max. working position of cradle.
- > One overload device cradle.

TECHNICAL DATA

General

Designed, engineered, manufactured and tested according to EN 1808.

SAFE WORKING LOAD	200 - 250 Kg
HOISTING HEIGHT	0 - 300 m
WHEEL GAUGE	600 - 3000 m
WHEEL BASE	600 - 3000 m
OUTREACH MAX.	20 m

Cradle

LENGHT	2000 - 9000 mm
WIDTH	600 mm
HEIGHT	1000 / 1200 mm

Ropes

NOMINAL DIAMETER	8 mm
NUMBER OF ROPES	4
CONSTRUCTION	114 wires - seale similar DIN 3058
CALCULATED BREAKING LOAD	44,40 kN
MIN. BREAKING LOAD	38,20 kN
CALCULATED WEIGHT	0,234 kg/m
COPPER CONDUCTOR	0,96 mm²
SAFETY FACTOR MIN.	14
TENSILE GRADE OF WIRE	1770 N / mm²

Material selection / corrosion protection

ROOFCAR	RSt 37 - hot dip galvanized
UNDERCARRIAGE	RSt 37 - hot dip galvanized
JIB	RSt 37 - hot dip galvanized
CRADLE	Aluminium
EXTERIOR BOLTS AND NUTS	Austenitic stainless steel
HIGH TENSIL BOLTS	HT - Material, hot dip galvanized
PAINT	2 x 40 µm. Colour code according to customer's specification

Electrical equipment

VOLTAGE	380 Volt
FREQUENCY	50 Hz
POWER SUPPLY	3 Phase + PE + N
HOISTING DRIVE	Bevel wheel geared brake motor with manual brake release and emergency decent 1 x 2,2 KW
ACTUATOR SLEW RING	Bevel wheel geared brake motor with manual brake release 1 x 0,55 KW
ACTUATOR TRAVERSING	Geared - motor 2 x 0,25 KW
ACTUATOR LUFFING DEVICE	Hydraulicpump 0,55 KW

Power supply roofcar

POWER SUPPLY	Spring loaded cable drum 5 x 2,5 mm²
LENGTH	25 m
MAX. DISTANCE	2 x 20 m

Control panel

PROTECTION	IP 55
WATTAGE	3,5 KW
SUPPLY RATING	20 Ampere

Controls

ROOFCAR	Pushbutton without self locking with emergency stop Function shown with symbols
CRADLE	Pushbutton without self locking with emergency stop function shown with symbols
SIGNAL TRANSMISSION	Copper conductors in wire rope
CONTROL VOLTAGE	42 V

ACCESSORIES / OPTIONAL EXTRAS

Accessories

- > Two safety belts.
- > One horn.
- > One Telephone Roof car - cradle (by radio).
- > One guiding system for cradle (buildings in Excess of 40 m).

Optional Extras

- > 30 l Watertank in cradle
- > Material hoist 350 kg
- > Soft starting motors

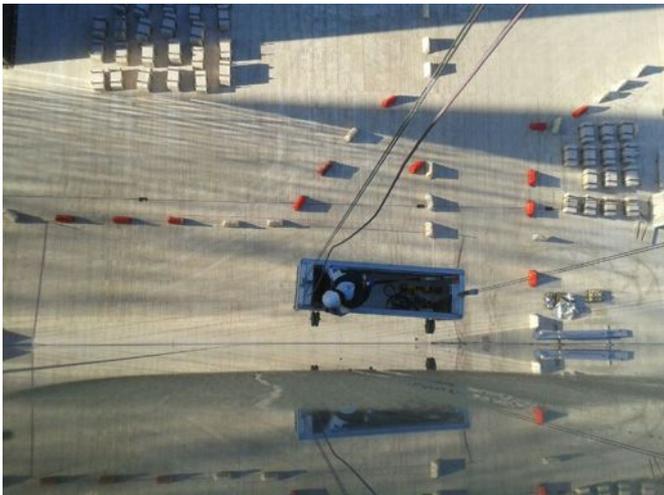
FURTHER PICTURES / PROJECTS



Bamboo Shopping Center, Taipeh, Taiwan



Citibank, Seef Area, Bahrain



Rome, Italy



Zeeuwse Eiland, Holland



Media Tower, Cologne, Germany



Lockart Road Hong Kong

TYPES OF PRODUCTS

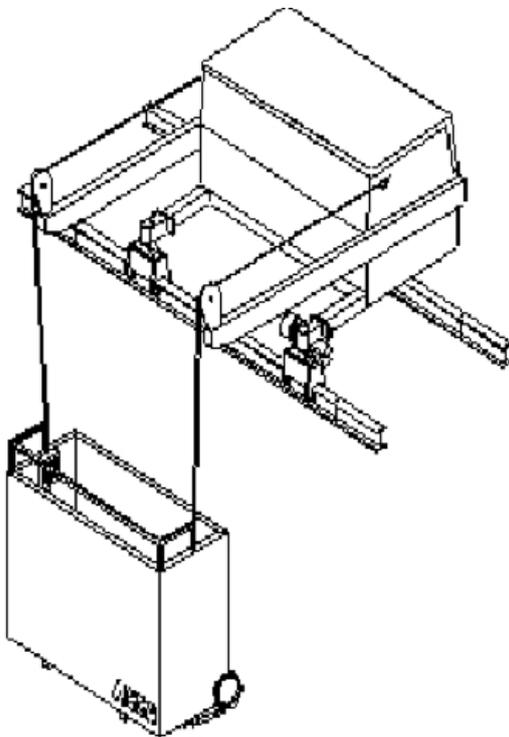
FBA 2

DESCRIPTION

The BMU is constructed of two parts, namely a base-frame and a cranehouse with two jibs and a cradle.

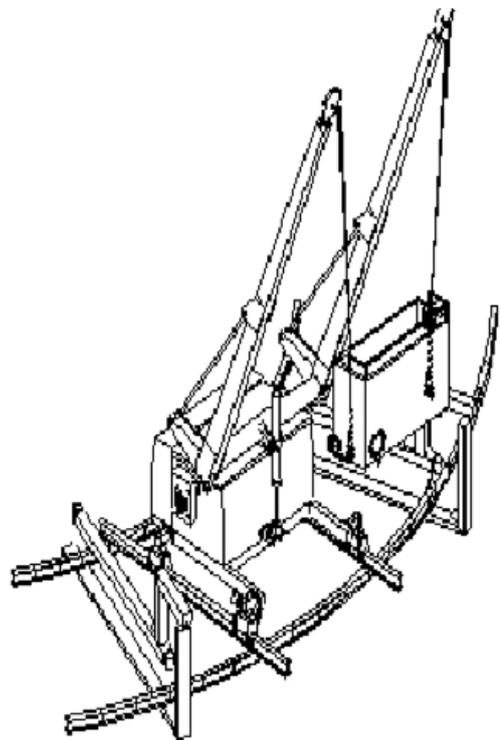
Base Frame

The base frame has four wheelsets suitable for the track existing in site. The two front wheel assemblies are centrally fitted under the frame. Both front wheels are connected to an electric geared motor drive. The two rear wheel assembly arms are swiveling type for negotiating bends. They are provided with vertical allowances for compensating levels of track. Limit switches at the arm pivot ensure speed difference between front and rear wheels while negotiating bends.



Cranehouse with the crane jibs

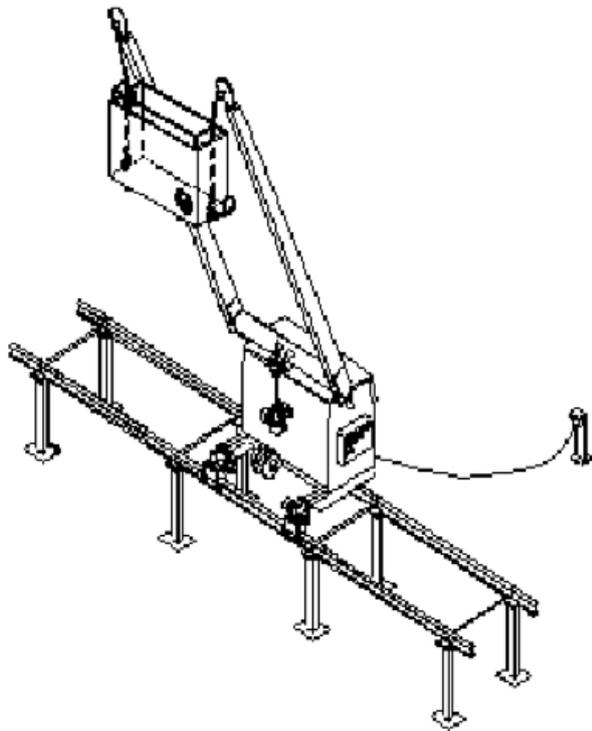
The cranehouse that houses hoist unit and main slew drive system is mounted to the baseframe by means of a slewing ring with electrical drive to allow the crew to slew the cradle from its non-working position on the roof to the working position in front of the façade. The crane house designed to rigidly support the jib with luffing mechanism and the hoist unit.



The crane jibs

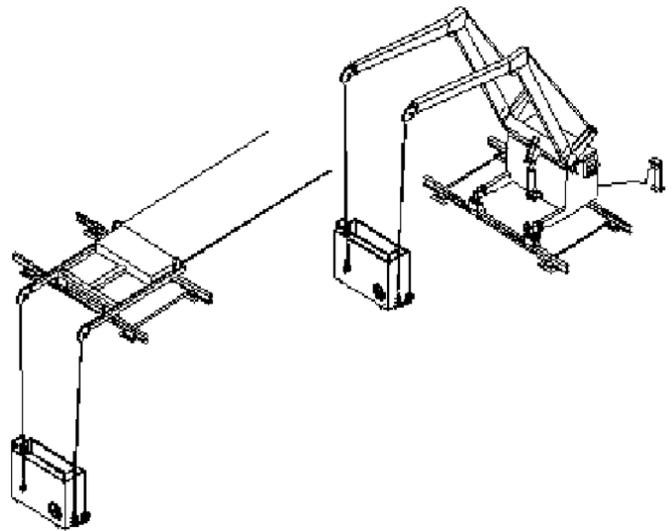
The crane jibs are fitted to the cranehouse frame in a hinged joint with suitable bearing arrangement. A luffing device, consisting of an electric motor with screw

spindle and traveling nut, allow a luffing movement of the jibs to adjust the distance between cradle and façade. The system comprises of a safety nut to hold the jib in case of wear failure of main nut. Also, a system to electrically annunciate the wear failure can be optionally incorporated in the system.

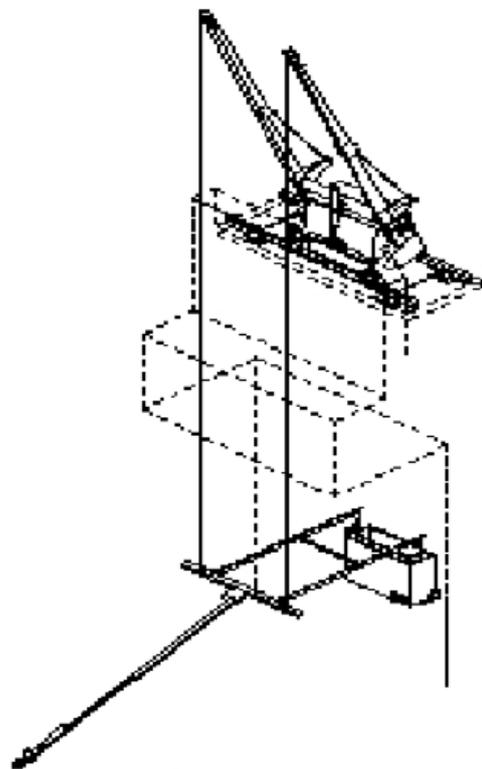


The hoist unit.

The hoist unit consists of a brake motor of irreversible type with a second centrifugal brake, a gear box and a cable drum divided into 4-sections. The drum has helical grooves to allow the rope to wind efficiently. At the end of each layer, the direction of motion changes to fill the following layer. Both ends of the drum are supported, namely one end in a Internal slew ring bearing support and the other end in an overspeed device with bearing and expansion joint.



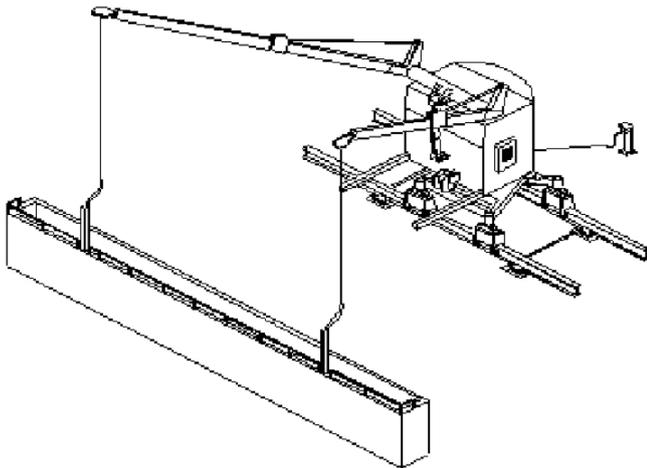
The suspension ropes have core conductors of suitable capacity to control all the functions of the power unit from cradle control panel through a slip ring mechanism mounted to the drive of the hoist unit. Alternatively you may opt for a EN approved copper conductor system.



The cradle.

The super structure of the cradle is built of galvanized steel. The super structure has aluminum cladding all around. The backside of the cradle is provided with a guardrail to 1,20m above the cradle floor. The cradle is also provided with protective rubber cushions to prevent damage to the building. A trip bar under the cradle stops the descent of the platform when an obstruction is encountered.

A control panel inside the cradle with deadman type push buttons control system allow controlling of the motions of the roof trolley. The cradle is suspended by four suspension ropes, namely two hoisting ropes and two safety ropes through wedge sockets, over load device and rope equalizing mechanism. The special shape of the cradle will allow access to required portions of the façade.



SCOPE OF SUPPLY

Cradle with four rope suspension system in aluminum. Complete with:

- > Two fixing points for safety belts
- > Two light coloured protecting profiles
- > One anti slip flooring
- > One soft foam distance roller

Roofcar in welded design, complete with:

- > Two jibs with luffing device.
- > Two horizontal bearings.
- > One winch housing with inspection door.
- > One multi layer drum winch with rope.
- > Lay down device.
- > One primary brake.
- > One secondary brake.
- > One bevel wheel geared brake motor with manual brake release and emergency decent.
- > One spring loaded cable wheeler
- > One slewing ring between winch housing and Under carriage for 350 degree turning.
- > One four point traversing unit with two electrical geared brake motors and two self adjusting rear wheels.
- > One control panel with PLC control and self Diagnostic system. Machine status on display.

Control elements

- > One control box in cradle
- > One anti collision bar
- > One control box at roof car
- > Four rope lay down detectors
- > Four slack rope detectors
- > One limit switch spring loaded cable wheeler
- > One limit switch secondary brake
- > Two limit switches final position luffing device
- > Two limit switches slewing roof car
- > Two limit switches traversing gear
- > One limit switch max. working position of cradle
- > One overload device cradle

TECHNICAL DATA

General

Designed, engineered, manufactured and tested according to EN 1808.

SAFE WORKING LOAD	200 - 250 Kg
HOISTING HEIGHT	0 - 300 m
WHEEL GAUGE	600 - 3000 m
WHEEL BASE	600 - 3000 m
OUTREACH MAX.	8000 mm

Cradle

LENGHT	2000 - 9000 mm
WIDTH	600 mm
HEIGHT	1000 / 1200 mm

Ropes

NOMINAL DIAMETER	8 mm
NUMBER OF ROPES	4
CONSTRUCTION	114 wires - seale similar DIN 3058
CALCULATED BREAKING LOAD	44,40 kN
MIN. BREAKING LOAD	38,20 kN
CALCULATED WEIGHT	0,234 kg/m
COPPER CONDUCTOR	0,96 mm²
SAFETY FACTOR MIN.	14
TENSILE GRADE OF WIRE	1770 N / mm²

Material selection / corrosion protection

ROOFCAR	RSt 37 - hot dip galvanized
UNDERCARRIAGE	RSt 37 - hot dip galvanized
JIB	RSt 37 - hot dip galvanized
CRADLE	Aluminium
EXTERIOR BOLTS AND NUTS	Austenitic stainless steel
HIGH TENSIL BOLTS	HT - Material, hot dip galvanized
PAINT	2 x 40 µm. Colour code according to customer's specification

Electrical equipment

VOLTAGE	380 Volt
FREQUENCY	50 Hz
POWER SUPPLY	3 Phase + PE + N
HOISTING DRIVE	Bevel wheel geared brake motor with manual brake release and emergency decent 1 x 2,2 KW
ACTUATOR SLEW RING	Bevel wheel geared brake motor with manual brake release 1 x 0,55 KW
ACTUATOR TRAVERSING	Geared - motor 2 x 0,25 KW
ACTUATOR LUFFING DEVICE	Hydraulicpump 0,55 KW

Power supply roofcar

POWER SUPPLY	Spring loaded cable drum 5 x 2,5 mm²
LENGTH	25 m
MAX. DISTANCE	2 x 20 m

Control panel

PROTECTION	IP 55
WATTAGE	3,5 KW
SUPPLY RATING	20 Ampere

Controls

ROOFCAR	Pushbutton without self locking with emergency stop Function shown with symbols
CRADLE	Pushbutton without self locking with emergency stop function shown with symbols
SIGNAL TRANSMISSION	Copper conductors in wire rope
CONTROL VOLTAGE	42 V

ACCESSORIES / OPTIONAL EXTRAS

Accessories

- > Two safety belts.
- > One horn.
- > One Telephone Roof car - cradle (by radio).
- > One guiding system for cradle (buildings in Excess of 40 m).

Optional Extras

- > 30 l Watertank in cradle
- > Material hoist 350 kg
- > Soft starting motors

FURTHER PICTURES / PROJECTS



22 Minories, London, UK



85 London Wall, London, UK



85 London Wall, London, UK



Baumgarten Bern, Switzerland



DLVA, Swansea, UK



CP House London



Garden Tower, Frankfurt, Germany

TYPES OF PRODUCTS

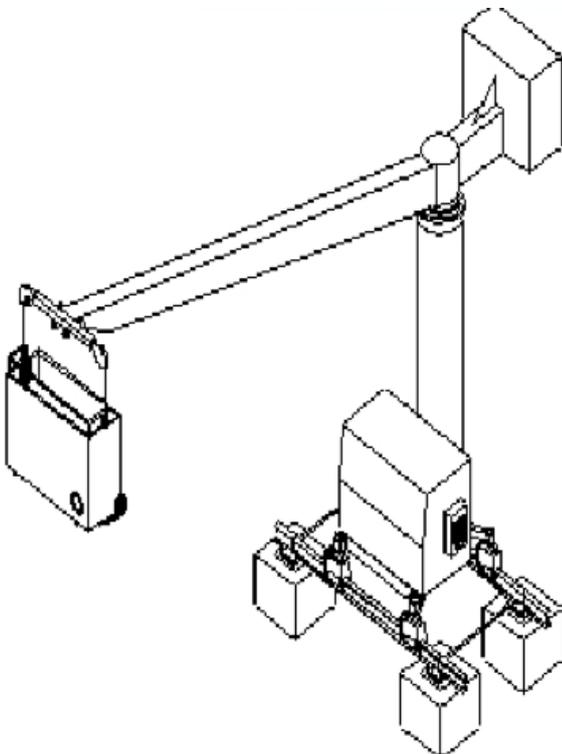
FBA S

DESCRIPTION

The BMU is constructed of two parts, namely a baseframe and a cranehouse with two jibs and a cradle.

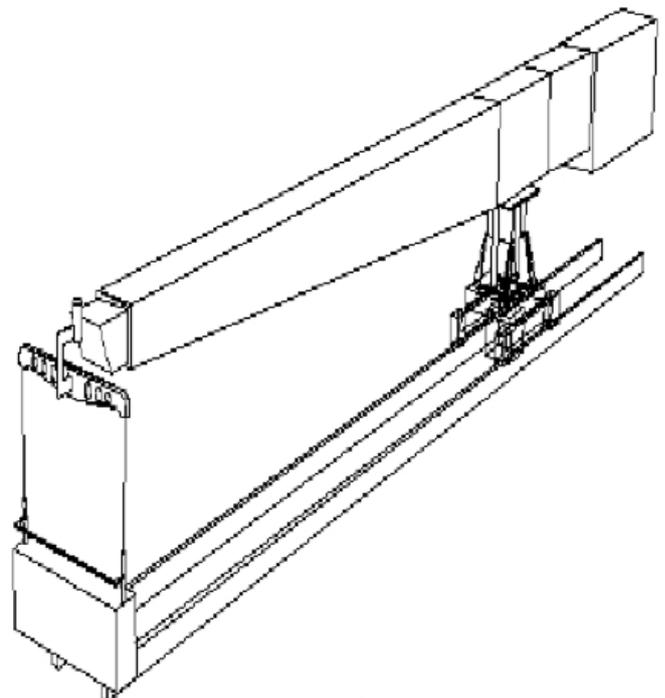
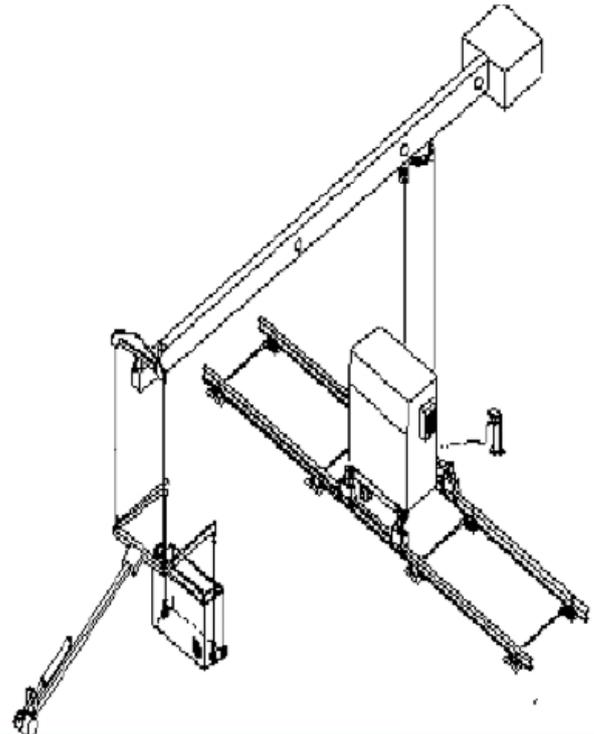
Base Frame

The base frame has four wheelsets suitable for the track existing in site. The two front wheel assemblies are centrally fitted under the frame. Both front wheels are connected to an electric geared motor drive. The two rear wheel assembly arms are swiveling type for negotiating bends. They are provided with vertical allowances for compensating levels of track. Limit switches at the arm pivot ensure speed difference between front and rear wheels while negotiating bends.



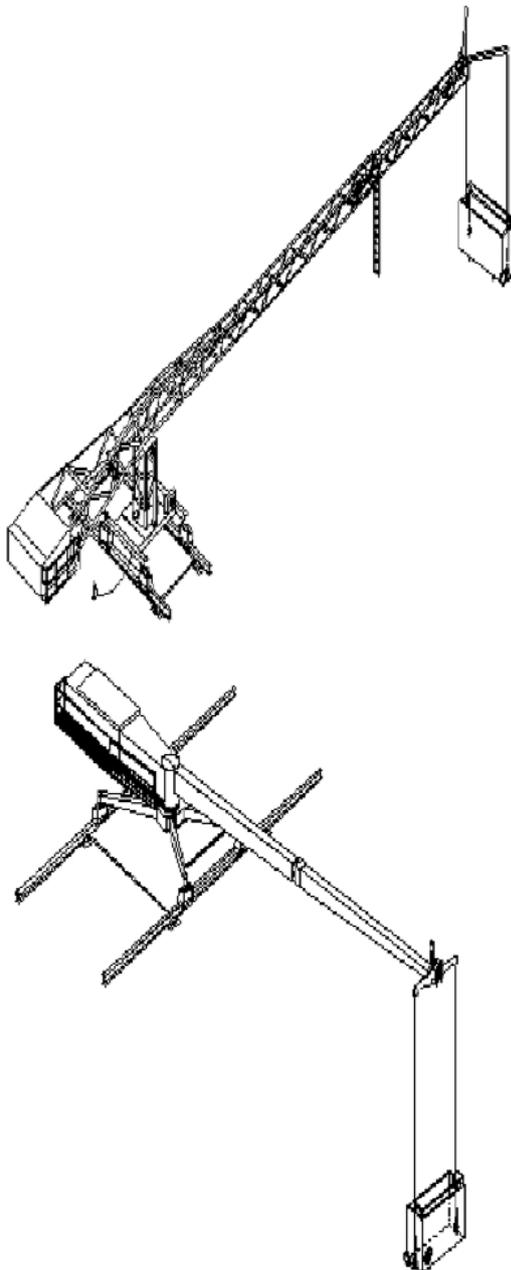
Cranehouse with the crane jibs

The cranehouse that houses hoist unit and main slew drive system is mounted to the baseframe by means of a slewing ring with electrical drive to allow the crew to slew the cradle from its non-working position on the roof to the working position in front of the façade. The crane house designed to rigidly support the jib with luffing mechanism and the hoist unit.



The crane jibs

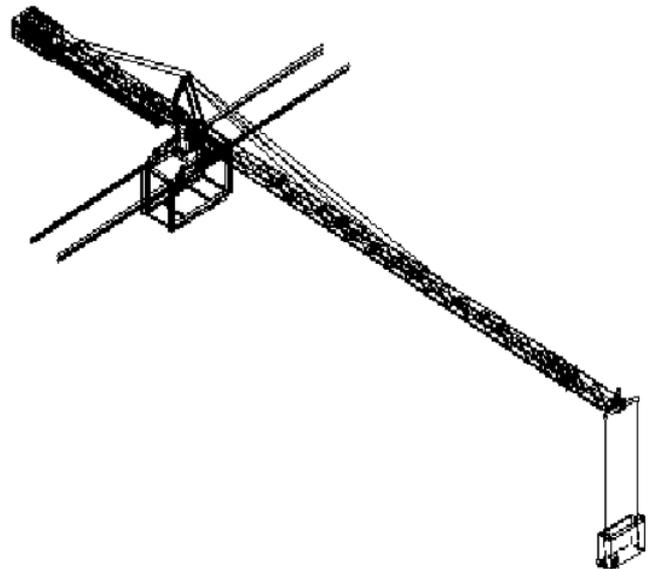
The crane jibs are fitted to the cranehouse frame in a hinged joint with suitable bearing arrangement. A luffing device, consisting of an electric motor with screw spindle and traveling nut, spindle and traveling nut, allow a luffing movement of the jibs to adjust the distance between cradle and façade. The system comprises of a safety nut to hold the jib in case of wear failure of main nut. Also, a system to electrically announce the wear failure can be optionally incorporated in the system.



The hoist unit.

The hoist unit consists of a brake motor of irreversible type with a second centrifugal brake, a gear box and a cable drum divided into 4-sections. The drum has helical grooves to allow the rope to wind efficiently. At the end of each layer, the direction of motion changes to fill the following layer. Both ends of the drum are supported, namely one end in a Internal slew ring bearing support and the other end in an overspeed device with bearing and expansion joint.

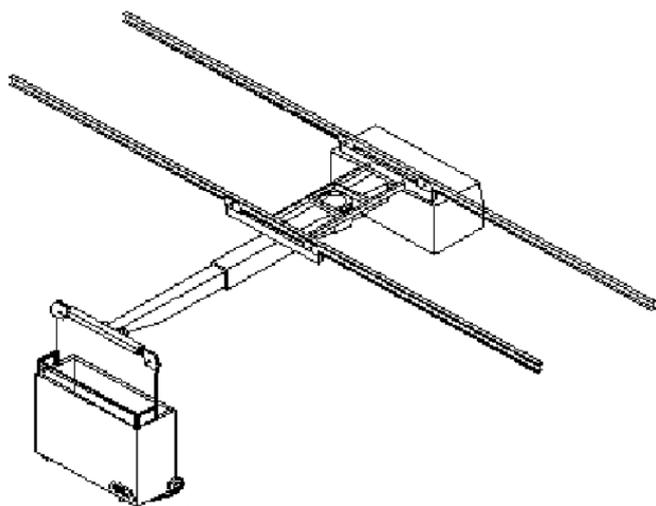
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The cradle.

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SCOPE OF SUPPLY

Cradle with four rope suspension system in aluminium. Complete with:

- > Two fixing points for safety belts.
- > Two light coloured protecting profiles.
- > One anti slip flooring.
- > One soft foam distance roller.

Roofcar in welded design, complete with:

- > One jib with/without luffing device.
- > Two horizontal bearings.
- > One winch housing with inspection door.
- > One multi layer drum winch with rope.
- > Lay down device.
- > One primary brake.
- > One secondary brake.
- > One bevel wheel geared brake motor with manual brake release and emergency decent.

- > One spring loaded cable wheeler.
- > Fixed or motorised spreader bar.
- > One counterjib with winch housing.
- > Optional telescopic jib up to 4 stages.
- > Optional vertical telescope.
- > One slewing ring between winch housing and Under carriage for 350 degree turning.
- > One four point traversing unit with two electrical geared brake motors and two self adjusting rear wheels.
- > One control panel with PLC control and self Diagnostic system. Machine status on display.

Control elements:

- > One control box in cradle.
- > One anti collision bar.
- > One control box at roof car.
- > Four rope lay down detectors.
- > Four slack rope detectors.
- > One limit switch spring loaded cable wheeler.
- > One limit switch secondary brake.
- > Two limit switches final position luffing device.
- > Two limit switches slewing roof car.
- > Two limit switches traversing gear.
- > One limit switch max. working position of cradle.
- > One overload device cradle.

TECHNICAL DATA

General

Designed, engineered, manufactured and tested according to EN 1808.

SAFE WORKING LOAD	200 - 250 Kg
HOISTING HEIGHT	0 - 300 m
WHEEL GAUGE	600 - 3000 m
WHEEL BASE	600 - 3000 m
OUTREACH MAX.	30 m

Cradle

LENGHT	2000 - 9000 mm
WIDTH	600 mm
HEIGHT	1000 / 1200 mm

Ropes

NOMINAL DIAMETER	8 mm
NUMBER OF ROPES	4
CONSTRUCTION	114 wires - seale similar DIN 3058
CALCULATED BREAKING LOAD	44,40 kN
MIN. BREAKING LOAD	38,20 kN
CALCULATED WEIGHT	0,234 kg/m
COPPER CONDUCTOR	0,96 mm²
SAFETY FACTOR MIN.	14
TENSILE GRADE OF WIRE	1770 N / mm²

Material selection / corrosion protection

ROOFCAR	RSt 37 - hot dip galvanized
UNDERCARRIAGE	RSt 37 - hot dip galvanized
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CRADLE	Aluminium
EXTERIOR BOLTS AND NUTS	Austenitic stainless steel
HIGH TENSIL BOLTS	HT - Material, hot dip galvanized
PAINT	2 x 40 µm. Colour code according to customer's specification

Electrical equipment

VOLTAGE	380 Volt
FREQUENCY	50 Hz
POWER SUPPLY	3 Phase + PE + N
HOISTING DRIVE	Bevel wheel geared brake motor with manual brake release and emergency decent 1 x 2,2 KW
ACTUATOR SLEW RING	Bevel wheel geared brake motor with manual brake release 1 x 0,55 KW
ACTUATOR TRAVERSING	Geared - motor 2 x 0,25 KW
ACTUATOR LUFFING DEVICE	Hydraulicpump 0,55 KW

Power supply roofcar

POWER SUPPLY	Spring loaded cable drum 5 x 2,5 mm²
LENGTH	25 m
MAX. DISTANCE	2 x 20 m

Control panel

PROTECTION	IP 55
WATTAGE	3,5 KW
SUPPLY RATING	20 Ampere

Controls

ROOFCAR	Pushbutton without self locking with emergency stop Function shown with symbols
CRADLE	Pushbutton without self locking with emergency stop function shown with symbols
SIGNAL TRANSMISSION	Copper conductors in wire rope
CONTROL VOLTAGE	42 V

ACCESSORIES / OPTIONAL EXTRAS

Accessories

- > Two safety belts.
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- > One Telephone Roof car - cradle (by radio).
- > One guiding system for cradle (buildings in Excess of 40 m).

Optional Extras

- > 30 l Watertank in cradle
- > Material hoist 350 kg
- > Soft starting motors

FURTHER PICTURES / PROJECTS



Al Attiya Towers, Doha, Qatar



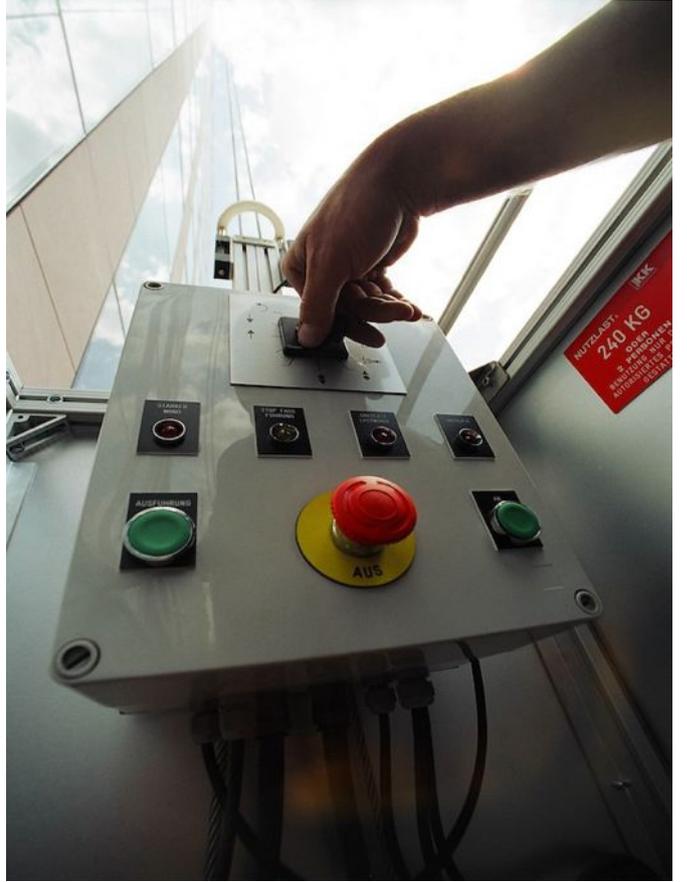
Sidra Hospital, Doha, Qatar



Apex Plaza, Barkshire, UK



Bürogebäude, Freiburg, Germany



City Tower, Vienna, Austria

FURTHER PICTURES / PROJECTS



Euretco Breda Holland



Justice Fort Tower, Manama, Bahrain



Ramco Tower, Doha, Qatar



Univerisity Tilbourg Holland



Al Forzan HQ, Al Khobar, Saudi Arabia



Bürogebäude, Freiburg, Germany



GERMANY HQ

PO Box 510602
50942 Köln
Phone: +49 221 997 6527
Fax: +49 221 2711047
E-mail: jan@fba-gomyl.com

LUXEMBOURG

43-45 ZA Op Zaemer
L-4959. Bascharage
Phone: +352 26 55 09 30
E-mail: marketing@fba-gomyl.com

BRANCH OFFICE IN CHINA

4F 11 # Building, Lane 588, Beisong Highway
Minhang District, Shanghai City
Phone: +86 21 31268606 / +86 21 22810298
Fax: +86 21 51087252 / +86 21 22810168
E-mail: chen@fba-gomyl.com