GEDA MAJOR

BUILDING MAINTENANCE UNITS

GEDA MAJOR

INDEX

COMPANY PROFILE

Building Maintenance Units designed to maintain and clean high buildings the number of which appeared to increase with the development of technology and modernisation of architectural designs. GEDA MAJOR offers solution alternatives specially designed for your specific building and many projects around the world today carry GEDA MAJOR's prestigious signature.

GEDA / Germany became a prominent construction machinery manufacturer since its foundation in 1929. GEDA equipments and solutions are respected by industry and GEDA name meaning trust and quality in the market.

MAJOR / Turkey has a long experince about façade access system and completed many projects for years successfully.

Joining the forces, GEDA MAJOR is established by GEDA and MAJOR to give reliable, customer oriented and cost effective solutions to the clients.

GEDA MAJOR factory in Gebze Dilovasi is established on 5000 square meters, is making production according to CE markings and EN1808. GEDA MAJOR offers products to whole world especially Turkey, Middle East, Turkish Republics, Far East, Africa and Europe. With its rich solution alternatives, high experience, talented and professional staff, it has become one of the leader firms and choice of brand in the market.

GEDA MAJOR

OUR CERTIFICATES

CE Certificate , EN ISO 9001 2008 , EN ISO 14001 2009 , OHSAS 18001 2007 , Gost Certificate

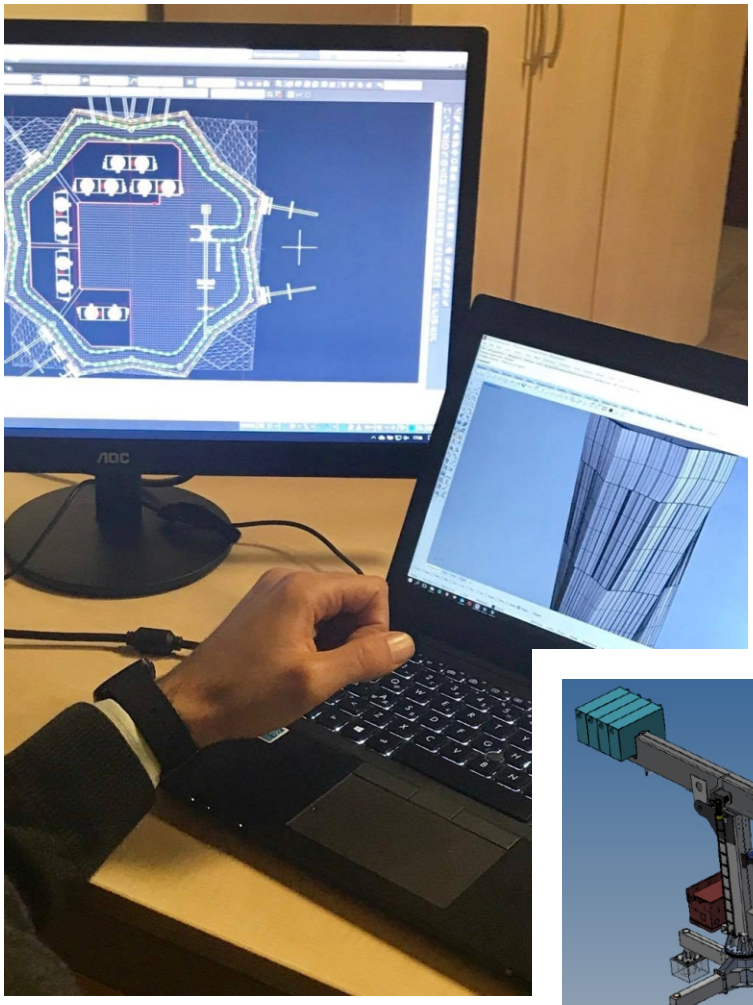
DESIGN & ENGINEERING & FABRICATION

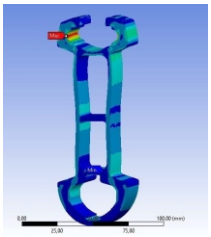
As GEDA MAJOR, we provide complete tailor made solutions to our clients without compromising safety and by following EN1808 norms and quality standarts. With our rich design & production database, we are able to give best offer to our clients by considering their aspects.

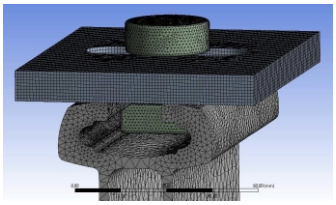
In offer phase, all inquiries are accepted as top priority and aimed to give all necessary datas to clients. (Concept design, weight, reactions, positions on buildings etc.)

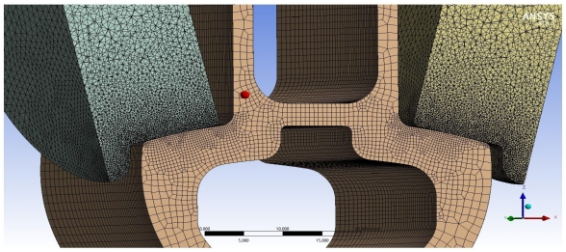
After our offers are accepted by clients, production design division is modelling approved BMU systems in 3D CAD softwares and calculating from the beginning to the end by FEA softwares. (steel structure, connection parts etc.)

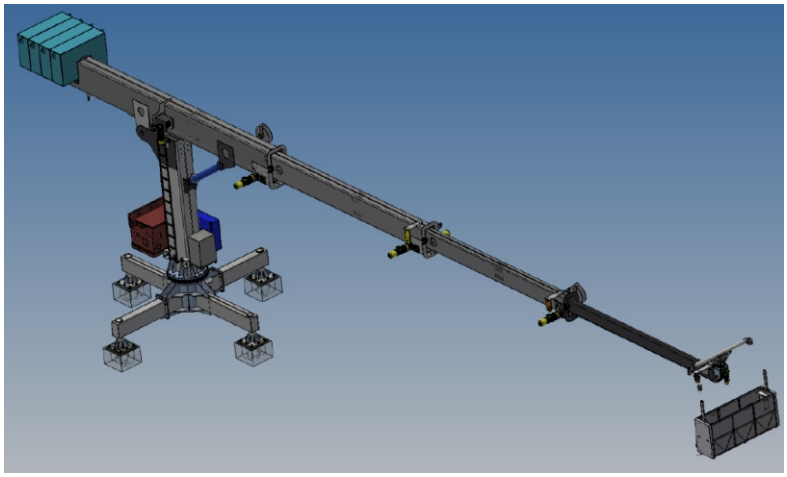
After production, all BMU Systems are tested by 3rd party organisations for welding without considering complexity or simplicity of system.











BMU TYPES ST

ST types have single jib and mast, designed for short and medium outreaches. Systems are located on building terraces, buildings up to 320 m height.

This system can be designed with multilayer drum hoisting unit or platform mounted hoisting unit.

Electric panels, which are located on the mast and cradle, are controled with remote control.

According to the specifications of different countries, rated load and power supply can be changed.

In case of emergency situations BMU machines have automatic safety devices/switches in order to keep the operator safe.

The cradle/platform includes buffers for preventing the crash to the facade.

The building maintenance unit's cradle movement is automatically stopped at the restraining points.

System can be moved on anchored track, paraphet track or concrete.

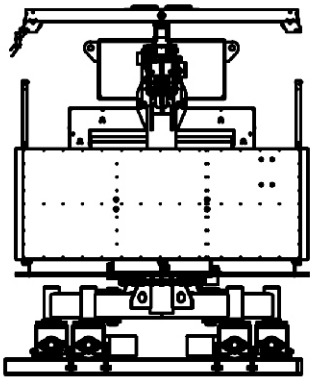
All parts consist of corrosion resistant, whole steel construction.

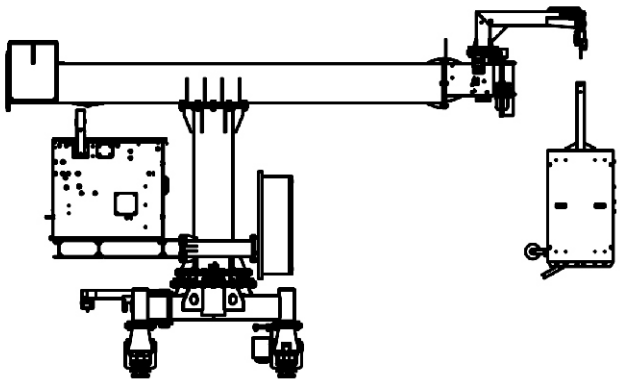
Counterweight is produced from sheet metal, cast or concrete according to machine type.

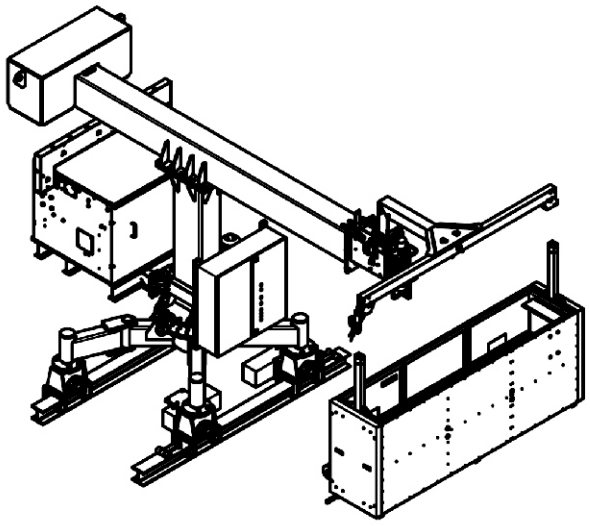
Machines are designed and assembled according to EN1808 European standarts and CE compliance certification.

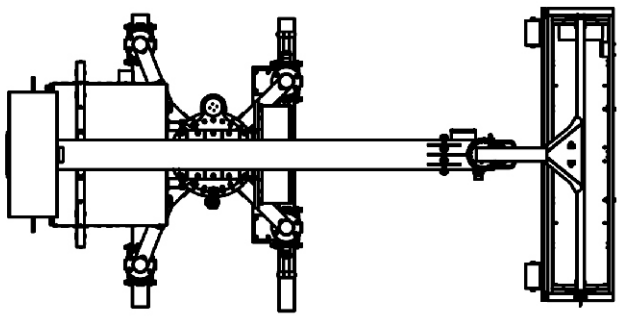
TECHNICAL DATAS

JIB TYPE	Fixed
MAST TYPE	Fixed
RATED LOAD	240 KG – 2 PERSONS
LIFTING SPEED	12 mt/min
LIFTING HEIGHT	320 m
PLATFORM DIMENSION	2 mt – 3 mt – 4mt
MAXIMUM OUTREACH	15 mt
POWER SUPPLY	400V – 50Hz – 16A









BMU TYPES MW

MW types have single jib and luffing mast, designed for short and medium outreaches. Luffing system is used to adjust outreach and able to pass platform over the paraphet. Systems are located on building terraces, buildings up to 320 m height.

This system can be designed with multilayer drum hoisting unit or platform mounted hoisting unit.

Electric panels, which are located on the mast and cradle, are controled with remote control.

According to the specifications of different countries, rated load and power supply can be changed.

In case of emergency situations BMU machines have automatic safety devices/switches in order to keep the operator safe.

The cradle/platform includes buffers for preventing the crash to the facade.

The building maintenance unit's cradle movement is automatically stopped at the restraining points.

System can be moved on anchored track, paraphet track or concrete.

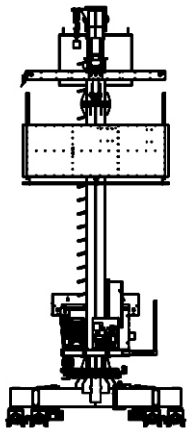
All parts consist of corrosion resistant, whole steel construction.

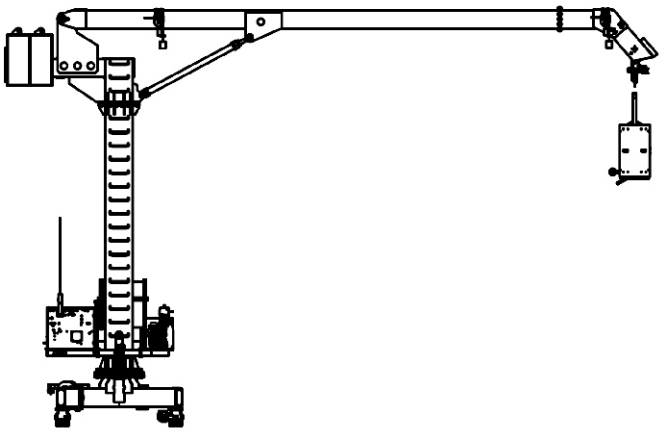
Counterweight is produced from sheet metal, cast or concrete according to machine type.

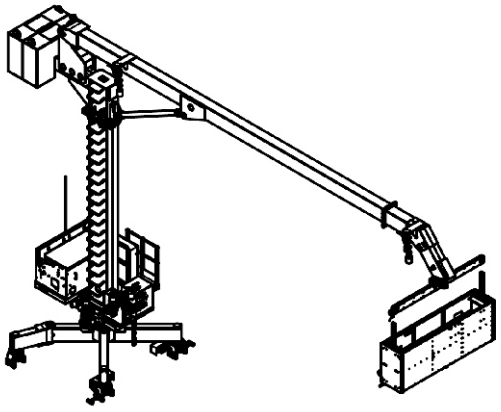
Machines are designed and assembled according to EN1808 European standarts and CE compliance certification.

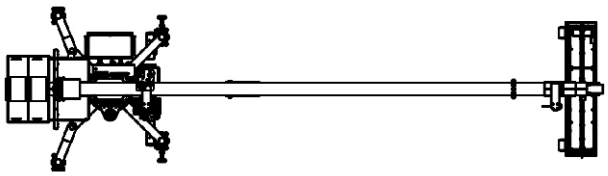
TECHNICAL DATAS

JIB TYPE	Fixed
MAST TYPE	Luffing
RATED LOAD	240 KG – 2 PERSONS
LIFTING SPEED	12 mt/min
LIFTING HEIGHT	320 m
PLATFORM DIMENSION	2 mt – 3 mt – 4mt
MAXIMUM OUTREACH	15 mt
POWER SUPPLY	400V – 50Hz – 16A

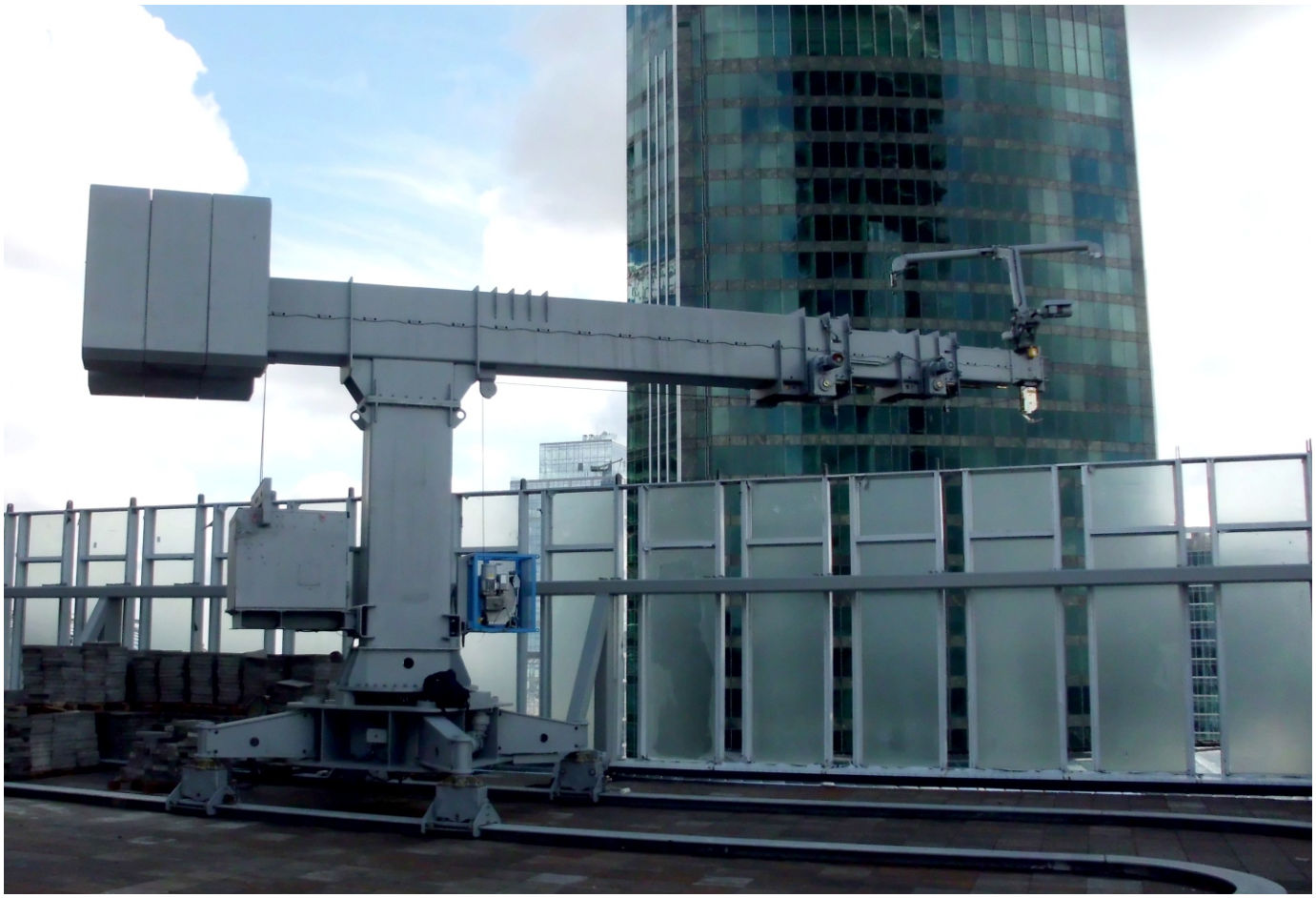








BMU TYPES TH



TH types have telescopic jib and fixed mast, designed with medium and long outreaches. Telescopic jib is necessary to reach different distances on facades with elevation difference. Systems are located on building terraces, buildings up to 320 m height.

This system can be designed with multilayer drum hoisting unit or platform mounted hoisting unit.

Electric panels, which are located on the mast and cradle, are controled with remote control.

According to the specifications of different countries, rated load and power supply can be changed.

In case of emergency situations BMU machines have automatic safety devices/switches in order to keep the operator safe.

The cradle/platform includes buffers for preventing the crash to the facade.

The building maintenance unit's cradle movement is automatically stopped at the restraining points.

System can be moved on anchored track, paraphet track or concrete.

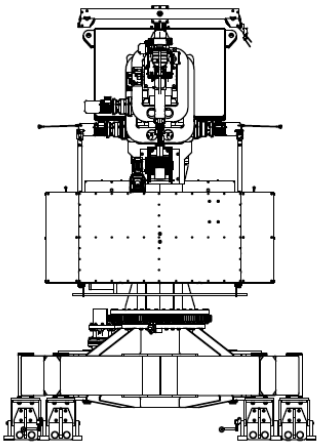
All parts consist of corrosion resistant, whole steel construction.

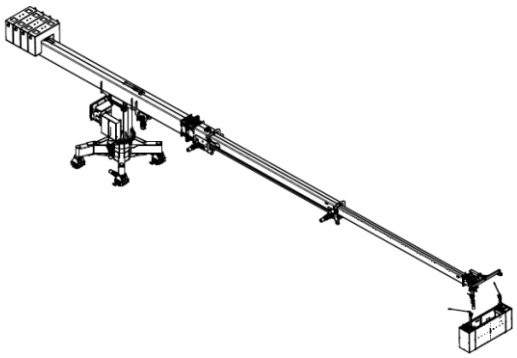
Counterweight is produced from sheet metal, cast or concrete according to machine type.

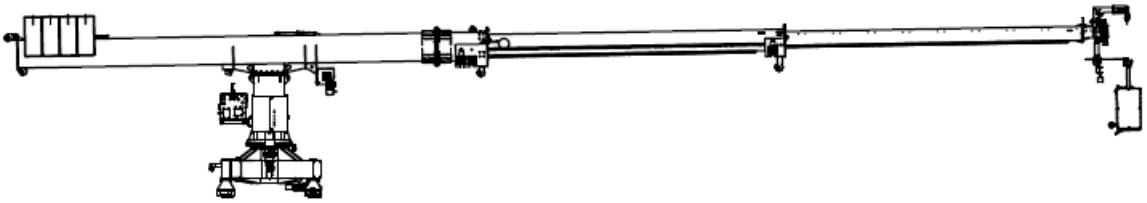
Machines are designed and assembled according to EN1808 European standarts and CE compliance certification.

TECHNICAL DATAS

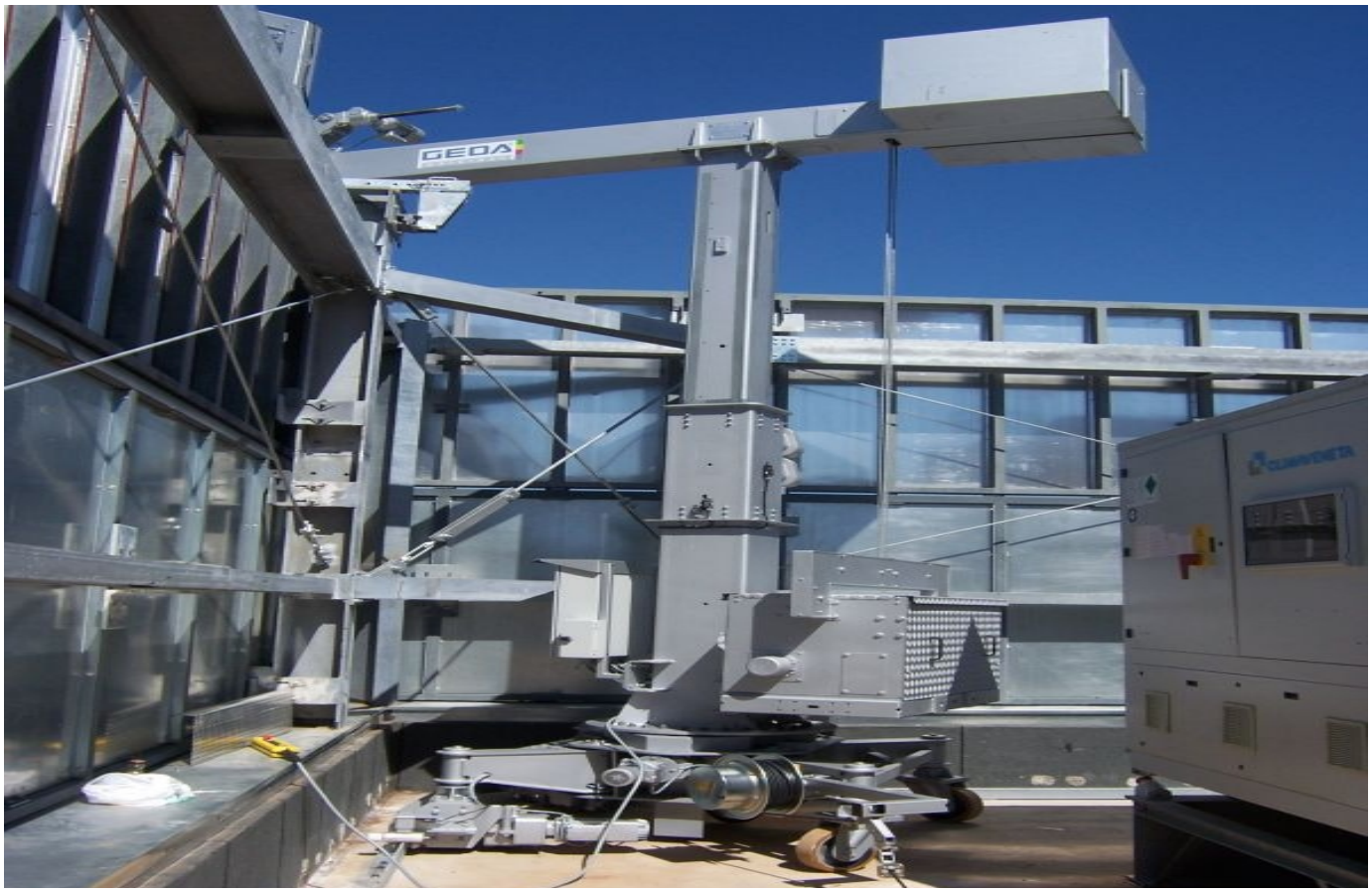
JIB TYPE	Telescopic
MAST TYPE	Fixed
RATED LOAD	240 KG – 2 PERSONS
LIFTING SPEED	12 mt/min
LIFTING HEIGHT	320 m
PLATFORM DIMENSION	2 mt – 3 mt – 4mt
MAXIMUM OUTREACH	10 mt – 50 mt
POWER SUPPLY	400V – 50Hz – 16A







BMU TYPES TV



TV types have fixed jib and telescopic mast, designed with short and medium outreaches.

Telescopic mast is necessary for visible parking on the terrace and to pass platform over paraphet.

Systems are located on building terraces, buildings up to 320 m height.

This system can be designed with multilayer drum hoisting unit or platform mounted hoisting unit.

Electric panels, which are located on the mast and cradle, are controled with remote control.

According to the specifications of different countries, rated load and power supply can be changed.

In case of emergency situations BMU machines have automatic safety devices/switches in order to keep the operator safe.

The cradle/platform includes buffers for preventing the crash to the facade.

The building maintenance unit's cradle movement is automatically stopped at the restraining points.

System can be moved on anchored track, paraphet track or concrete.

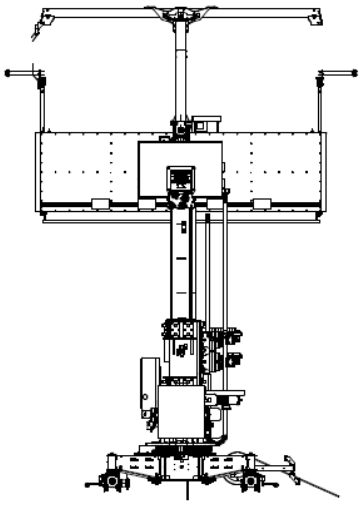
All parts consist of corrosion resistant, whole steel construction.

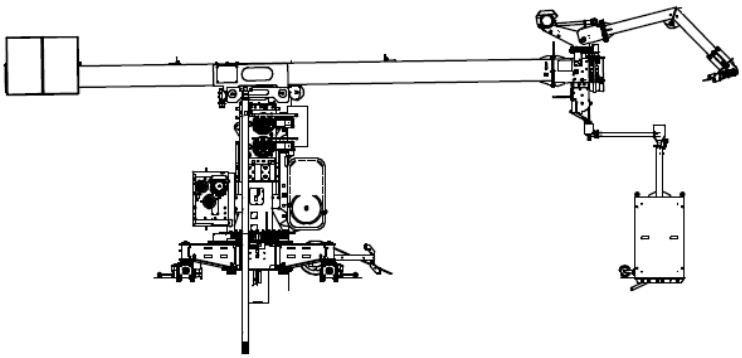
Counterweight is produced from sheet metal, cast or concrete according to machine type.

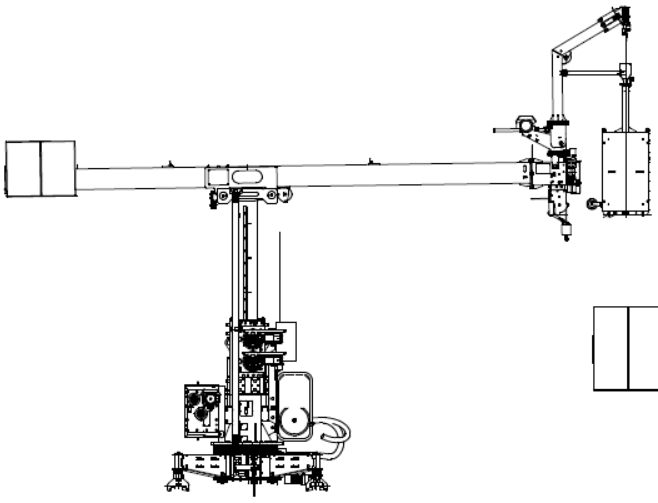
Machines are designed and assembled according to EN1808 European standarts and CE compliance certification.

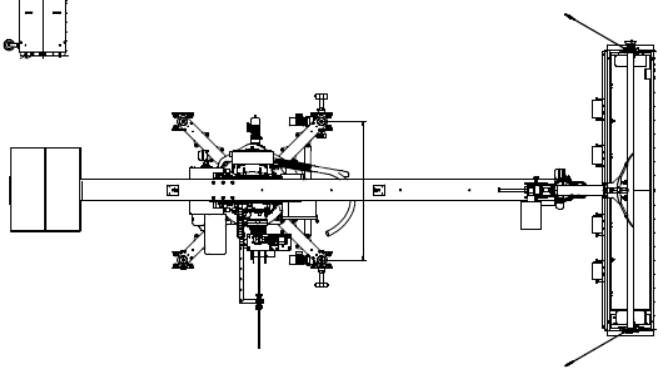
TECHNICAL DATAS

JIB TYPE	Fixed
MAST TYPE	Telescopic
RATED LOAD	240 KG – 2 PERSONS
LIFTING SPEED	12 mt/min
LIFTING HEIGHT	320 m
PLATFORM DIMENSION	2 mt – 3 mt – 4mt
MAXIMUM OUTREACH	20 mt
POWER SUPPLY	400V – 50Hz – 16A









BMU TYPES DT

DT types have telescopic jib and telescopic mast, designed with medium and long outreaches. Telescopic mast is necessary for visible parking on the terrace and to pass platform over paraphet. Telescopic jib is necessary to reach different distances on facades with elevation difference. Systems are located on building terraces, buildings up to 320 m height.

This system can be designed with multilayer drum hoisting unit or platform mounted hoisting unit. Electric panels, which are located on the mast and cradle, are controled with remote control. According to the specifications of different countries, rated load and power supply can be changed.

In case of emergency situations BMU machines have automatic safety devices/switches in order to keep the operator safe.

The cradle/platform includes buffers for preventing the crash to the facade. The building maintenance unit's cradle movement is automatically stopped at the restraining points.

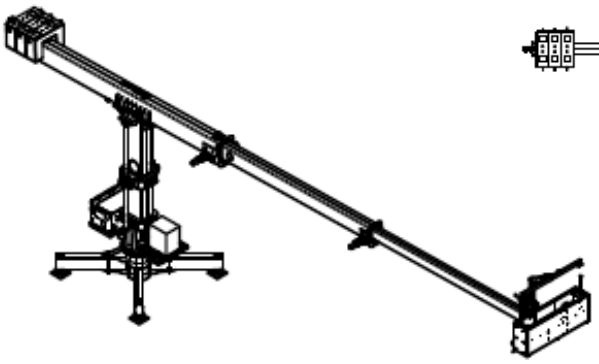
System can be moved on anchored track, paraphet track or concrete.

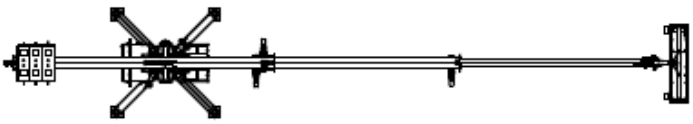
All parts consist of corrosion resistant, whole steel construction.

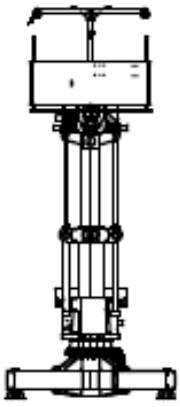
Counterweight is produced from sheet metal, cast or concrete according to machine type. Machines are designed and assembled according to EN1808 European standarts and CE compliance certification.

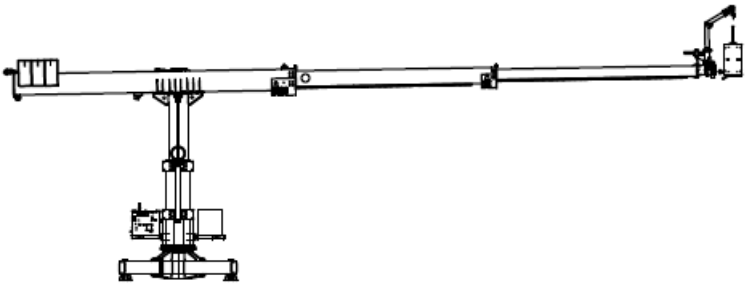
TECHNICAL DATAS

JIB TYPE	Telescopic
MAST TYPE	Telescopic
RATED LOAD	240 KG – 2 PERSONS
LIFTING SPEED	12 mt/min
LIFTING HEIGHT	320 m
PLATFORM DIMENSION	2 mt – 3 mt – 4mt
MAXIMUM OUTREACH	20 mt
POWER SUPPLY	400V – 50Hz – 16A









BMU TYPES SO

Machines with one or more features are called SO type.

SO types can have telescopic or fixed jib and telescopic, fixed or luffing mast, designed with small, medium and long outreaches.

Systems are located on building terraces, buildings up to 320 m height.

This system can be designed with multilayer drum hoisting unit or platform mounted hoisting unit.

Electric panels, which are located on the mast and cradle, are controled with remote control.

According to the specifications of different countries, rated load and power supply can be changed.

In case of emergency situations BMU machines have automatic safety devices/switches in order to keep the operator safe.

The cradle/platform includes buffers for preventing the crash to the facade.

The building maintenance unit's cradle movement is automatically stopped at the restraining points.

System can be moved on anchored track, paraphet track or concrete.

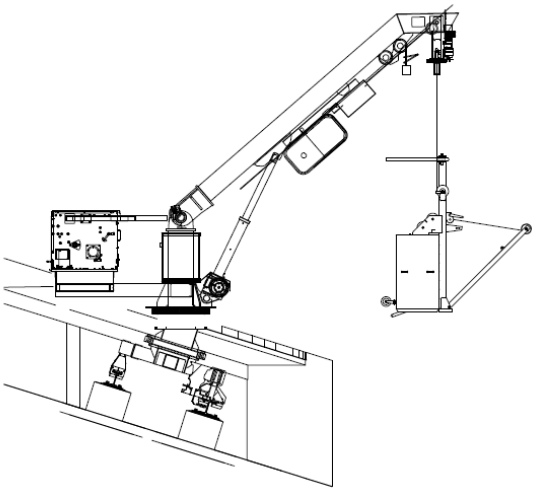
All parts consist of corrosion resistant, whole steel construction.

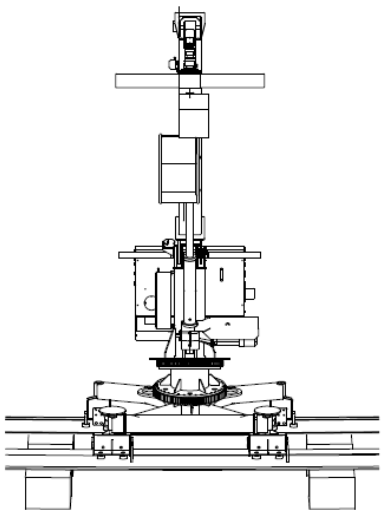
Counterweight is produced from sheet metal, cast or concrete according to machine type.

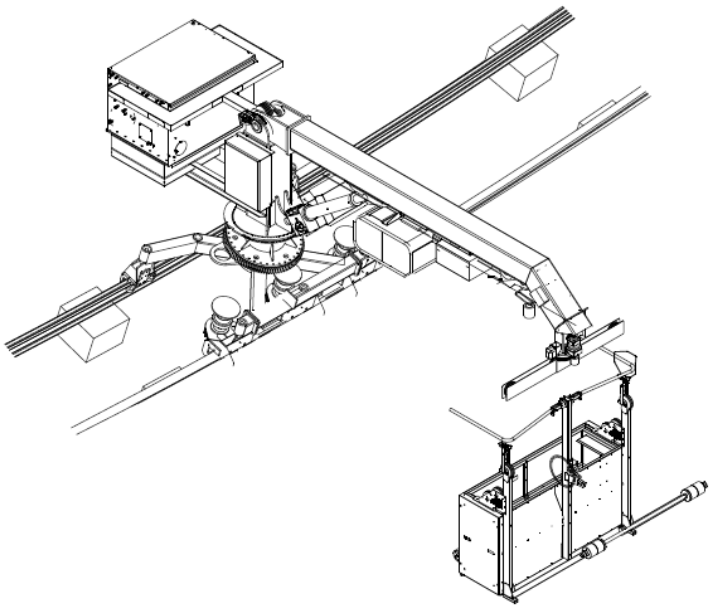
Machines are designed and assembled according to EN1808 European standarts and CE compliance certification.

TECHNICAL DATAS

JIB TYPE	Telescopic / Fixed
MAST TYPE	Telescopic / Luffing / Fixed
RATED LOAD	240 KG – 2 PERSONS
LIFTING SPEED	12 mt/min
LIFTING HEIGHT	320 m
PLATFORM DIMENSION	2 mt – 3 mt – 4mt
MAXIMUM OUTREACH	10 - 50 mt
POWER SUPPLY	400V – 50Hz – 16A







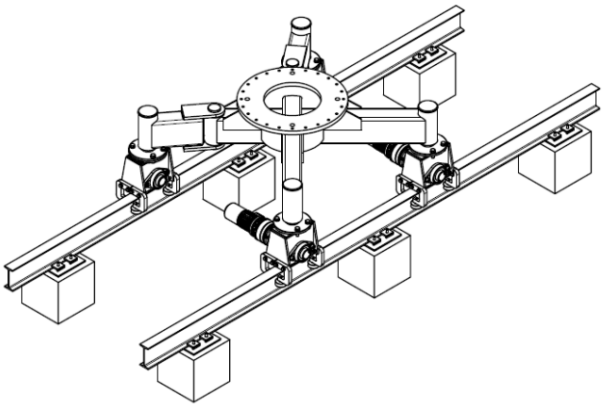
TRAVERSING SYSTEMS

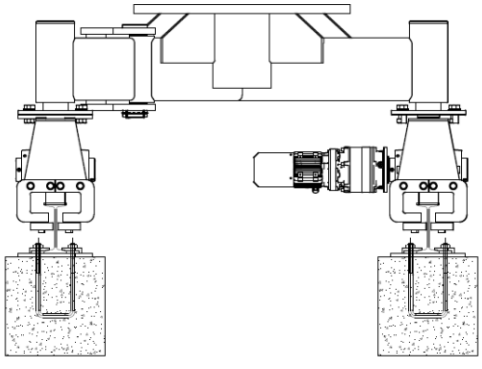
ANCHORED TRACK

The Machine is running on the building with HEB , HEA , IPN , IPE rails which are anchored on the roof terrace.

This type of systems helps to reduce the weight of the machine on the roof.

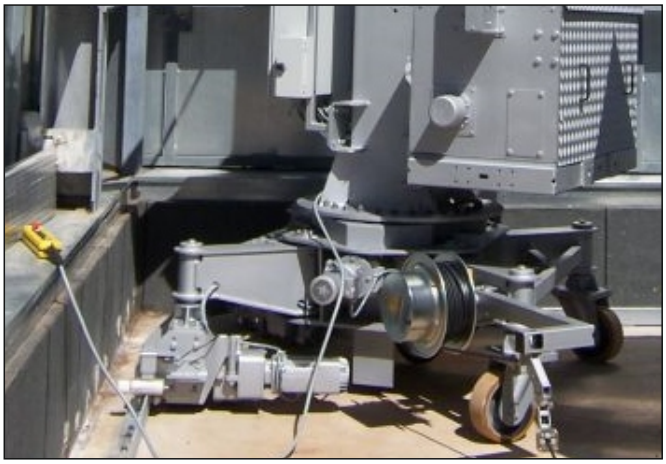
In this application the rails can be done with the help of consoles or concrete blocks on the floor of the building.

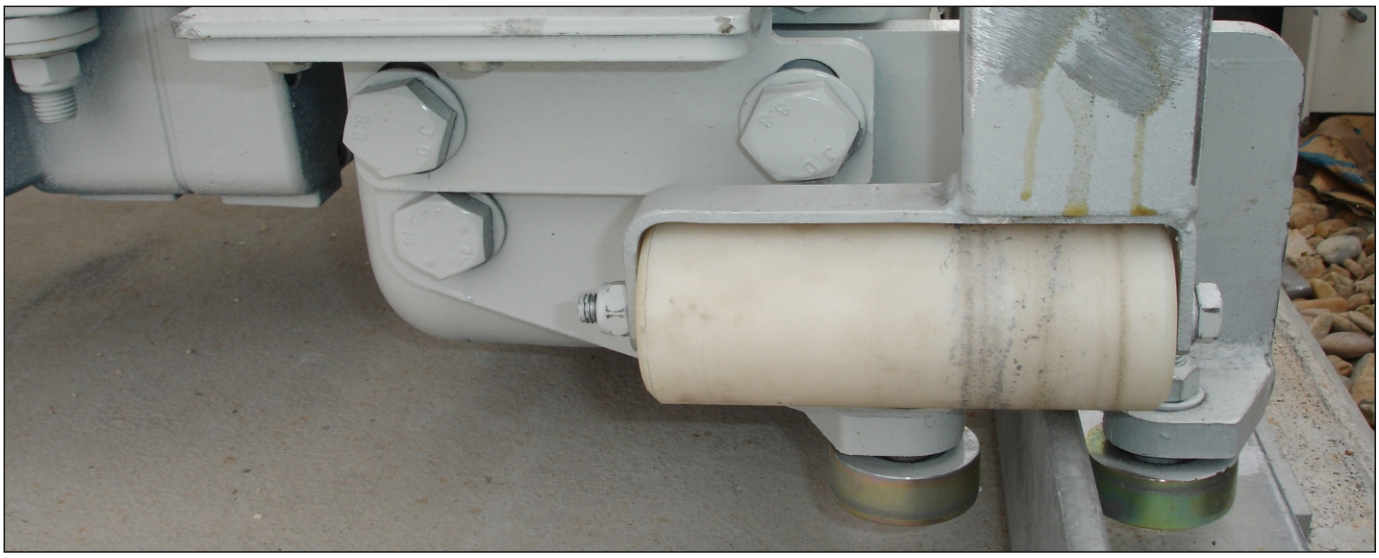




TRAVERSING SYSTEMS

GUIDING TRACK

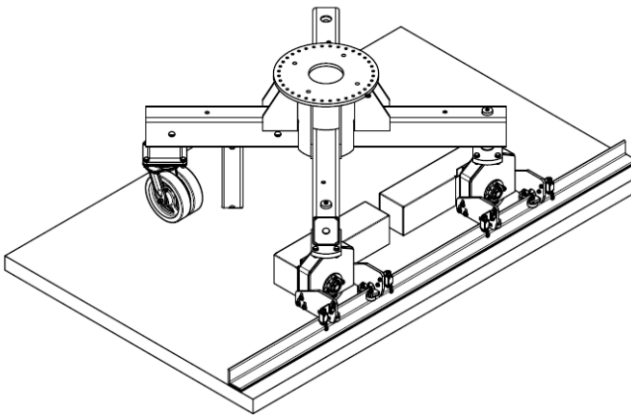


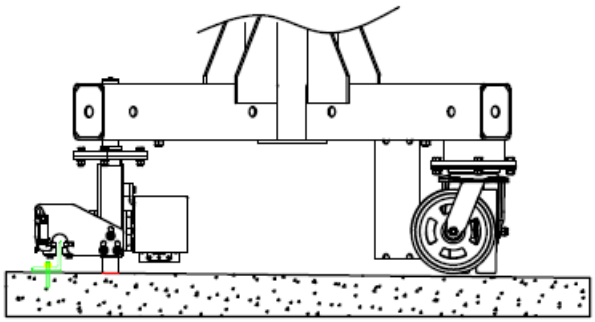


The Machine performs its movements with the help of L– guides manufactured from angles laid on the building terrace.

It is necessary to have concrete runway to allow machine to run on the building terrace.

This system avoids waterproofing complications from anchoring.

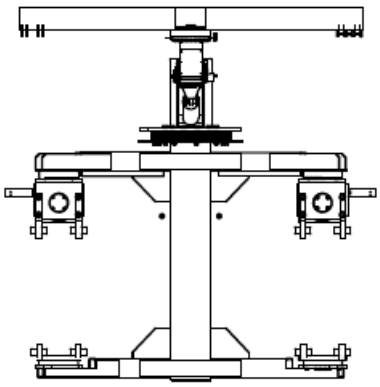


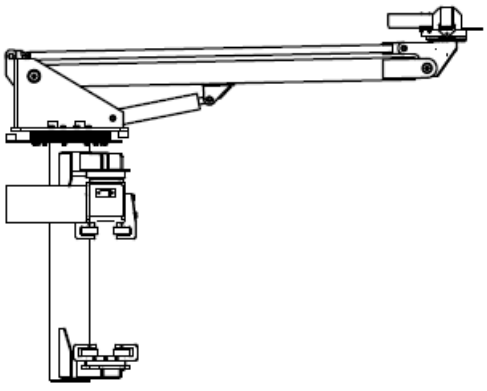


TRAVERSING SYSTEMS

PARAPHET TRACK

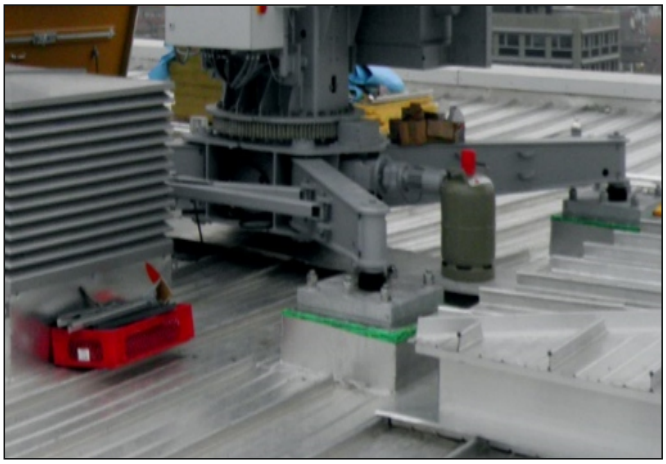
This paraphet mounted machine system can be used , where applicable,when there is not enough space to make a track rail or L-Guide on the roof of the building. In this case, the paraphet should be strong enough.





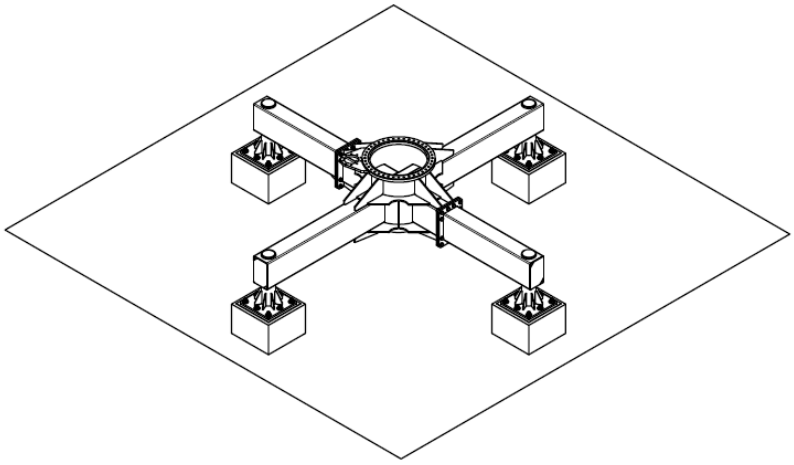
TRAVERSING SYSTEMS

FIXED



In case there is no available space behind the paraphet on the terrace for rail track options, then BMU can be installed on fixed plinths usually in the middle of the roof.

This kind of BMU machines generally have long jibs to reach the facade and they need telescopic jib option for parking.



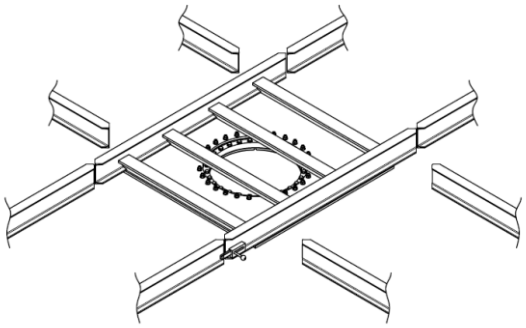
TRAVERSING SYSTEMS

FREE LAID TRACK

With free laid tracks, if appropriate for the project site and design of the machine, you can prevent drilling on the concrete and easier to install when compared with anchored track.

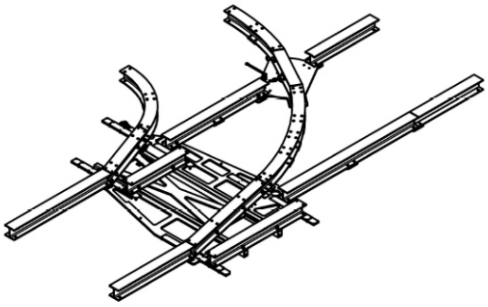
Turntable

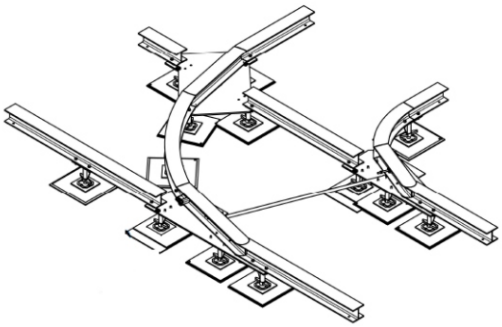
This system, which is a part of anchored tracks, is used when the machine has to rotate on the tracks especially at the narrow places.



Rail Switch

This system is preferred when the machine has to change its direction and there is enough space in the roof of the building.





MONORAIL SYSTEM

Monorail is one of the systems used for facade cleaning and maintenance. It consists of a single aluminium rail line and a cradle that runs along the rail with the help of the manual or motorized trolleys.

Monorail systems, which are generally preferred for buildings with no appropriate use of terrace, could also be used for buildings in operation. During construction, it is used mostly for assembly, after the building starts operating it is mainly preferred for cleaning and maintenance works.

The platform can move vertically and horizontally with manual or automatic controls due to special operating conditions.

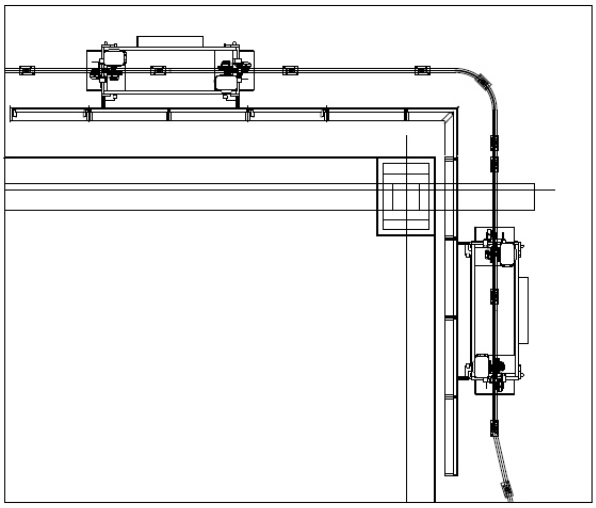
Rails are in aluminum and can be painted upon request.

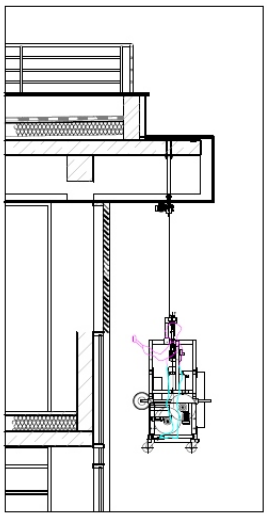
Cradle includes buffers for preventing crashing of the cradle to the facade.

According to the specifications of different countries, rated load and power supply can be changed.

Systems are designed and assembled according to EN1808 European standarts and CE compliance certification.

GEDA MAJOR





TECHNICAL DATAS

RATED LOAD	240 KG – 2 PERSONS
LIFTING SPEED	9 mt/min
LIFTING HEIGHT	100 m
MOTORIZED TROLLEY	YES
MAX. SUPPORT DISTANCE	2,5 mt
TROLLEY LIFTING CAPACITY	600 KG
ROPE DRIVEN TROLLEY	YES
POWER SUPPLY	400V – 50Hz – 16A
PLATFORM CONTROL	WIRED CONTROL
WIRE ROPE	4 pcs. 8 mm

Standart

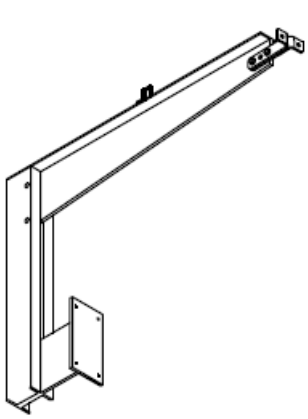
Climbing

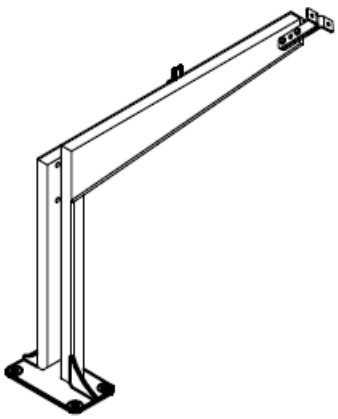
TROLLEYS

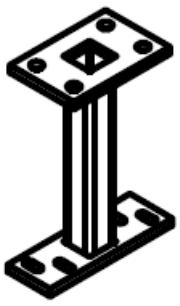
Trolleys to provide horizontal mobilisation for the platform is fixed upon the rail. Trolleys which are manual, rope driven and motorized types, are securing the ropes of the platform to the monorail.

BRACKETS

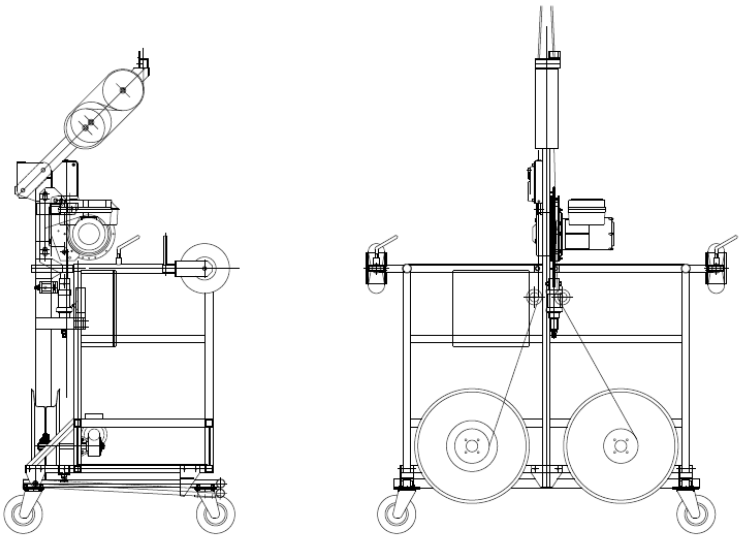
Brackets are designed to install monorail systems on the buildings. They are generally made by hot dip galvanized steel and in various shape and design according to the projects.







SINGLE PERSON POWERED PLATFORM



Single person powered platform is able to carry one person inside the platform which are used in small and narrow spaces.

Powered platforms are inseparable part of monorail systems.

The platform includes one hoisting unit mounted in the cradle.

In case of emergency situations BMU machines have automatic safety devices/switches in order to keep the operator safe.

Cradle includes buffers for preventing the crash of the cradle to the facade.

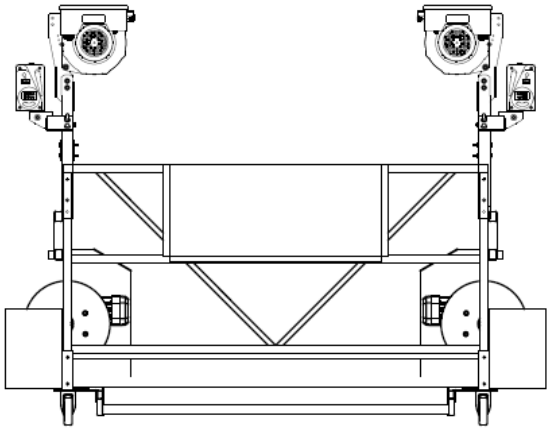
Systems are designed and assembled according to EN1808 European standarts and CE compliance certification.

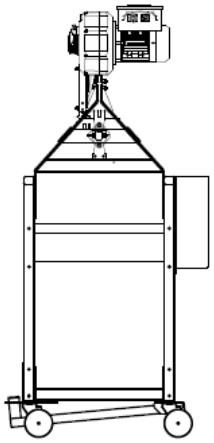
According to the specifications of different countries, rated load and power supply can be changed.

TECHNICAL DATAS

USED SYSTEMS	ST / MW / TH / TV / DT / SO / Monorail System
RATED LOAD	120 KG – 1 PERSON
LIFTING SPEED	9 mt/min
LIFTING HEIGHT	100 mt
MOTORIZED ROPE WINDER	YES
PLATFORM DIMENSION	1,00 x 0,70 x 1,10 mt
OVERLOAD SWITCH	YES
OVERSPEED SWITCH	YES
POWER SUPPLY	400V – 50Hz – 16A

TWO PERSON POWERED PLATFORM





Two person powered platform is able to carry two persons inside the platform. These platforms are inseparable part of BMU and monorail systems. Platform includes two hoisting unit mounted in the cradle.

In case of emergency situations BMU machines have automatic safety devices/switches in order to keep the operator safe.

Cradle includes buffers for preventing the crash of the cradle to the facade. Systems are designed and assembled according to EN1808 European standarts and CE compliance certification.

According to the specifications of different countries, rated load and power supply can be changed.

TECHNICAL DATAS

USED SYSTEMS	ST / MW / TH / TV / DT / SO / Monorail System
RATED LOAD	240 KG – 2 PERSON
LIFTING SPEED	9 mt/min
LIFTING HEIGHT	100 mt
MOTORIZED ROPE WINDER	YES
PLATFORM DIMENSION	2,00 x 0,70 x 1,10 mt
OVERLOAD SWITCH	YES
OVERSPEED SWITCH	YES
POWER SUPPLY	400V – 50Hz – 16A

SOCKETS

These systems are implemented worldwide, easy to operate, economical and readily customised especially for buildings with narrow space on their terraces. It is divided into two groups called Sockets and Davits depending on type of the arm.

Sockets are assembled according to the type of the arm that will be installed inside the terrace or balcony parapets. Sockets arms will be installed inside which will provide the ideal access to the facade.

The ropes of the platform will be connected to structural steel tube arms and provides access to areas in between two arms.

Disassembly and assembly of the arms to the neighbouring sockets provide access to all facade surfaces. Platform has to be parked on the floor because the structure of the arms does not allow it to be pulled to the terrace.

DAVIT ARM

Davits are installed in the sockets on terrace floors or inner surfaces of the parapets.

These arms consist of a body surpassing the height of parapet and a swivel head part. The rotating arm system enables the platform to surpass the parapet and lower it to the surface of the building. The whole surface is accessed on equal axis as the davit arms are disassembled and assembled into neighbouring sockets.

The most important advantage of the Davit system is that the platform could be parked on the terrace.

GANTRY SYSTEM

Gantry systems are one of the ways to have access to wide surfaces which are difficult to reach for cleaning and routine maintenance of such as lighting and smoke detector equipments.

Gantry systems are equally useful in the service of interior atrium spaces and for the maintenance of lighting, sprinklers, ductwork and other similar building interior elements.

Using gantries, glass roofs and facades are cleaned from inside and outside such as skylights.

Since the system mostly glides on surfaces, it is also called sliding platform. Gantry systems are manufactured usually from high quality aluminium so they are light, strong and durable. In order to give less reactions on building, special reinforced aluminium profiles are using on our gantry systems.

The systems are custom made and could visually be a perfect match with the building structure. These units move manually or motorized. These systems need to move on double tracks or rotate on pivot system on center of skylights.

All systems are designed to carry maximum 240 kg.

For special cases or higher working capacities, steel type gantries can be designed upon on request.

LADDERS

Facade ladders allow vertically and horizontally movements across the whole facade.

Control is carried out using the manual control or the winch drive.

The platform can be made move manually using a rope winch as well as electrically using a through running winch.

LIFELINE SYSTEMS

Lifeline systems are designed to reduce high risk of potential fall or other serious accidents which may happen at high working places.

Main purpose of using lifelines is while accessing, cleaning and maintaining of outer facade of skylights. On the other hand these systems can be installed next to BMU rail tracks in case of short paraphets on the roof.

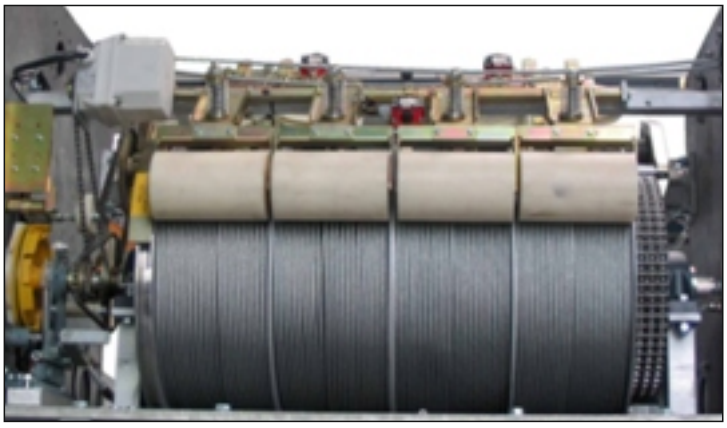
Components of the systems such as anchor points, shock absorbers and fall arresters, are mainly made of stainless steel and designed according to EN795.

ACCESSORIES

Hoisting Units

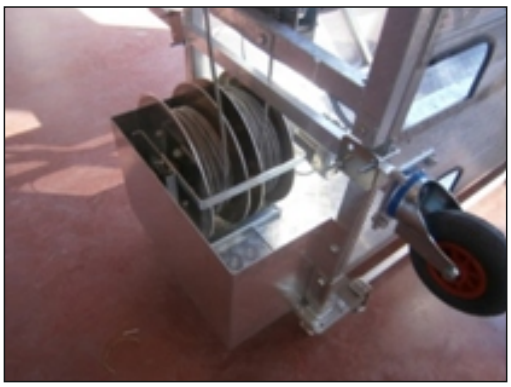
Multilayer Drum Hoisting Unit

This kind of drums are used for roofcar machines. It consists of four seperate layers to wind up wire ropes in proper way.



Cable reel
Chain monitor rotating type limit switch
Chain monitor Speed limiter
Lifting gear motor
Overspeed safety device
Rotating type limit switch
Speed limiter
Slack rope switch
Winding height limiter

Platform Mounted Hoisting Unit



Traction hoists are used on motorized platforms to move up/down.

Wire Rope

Wire ropes are 4 pieces 8 or 6.5 mm galvanized steel ropes according to drum types.

Electric Panel

Tension	: 400 V
Frequency	: 50 Hz / 60 Hz
Total Rated Power	: Up to 20 kW
Control Current	: 20 A
Control Type	: Cable Conductor
Electric Panel Protection	: PVC / IP65

Telephone Connection

Upon request, communication between cradle and roofcar is possible.

Energy / Power Cable

Cable Reeler

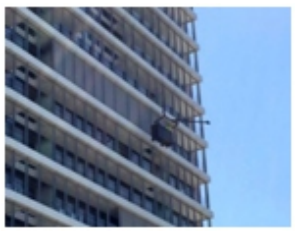
Facade Wheel

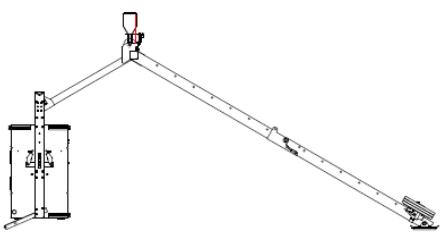
Loading Wheel

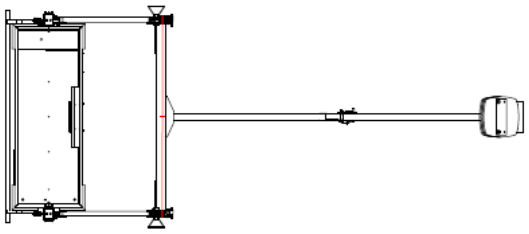
Auxiliary Winch

Auxiliary winch is used to carry the glass or other materials. Its capacity will vary depending on the load.

Pantograph







Used in situations where it is necessary to reach the recess/cantilever parts of the building.

It may be fixed or it may work with the opening movement through the platform with manual hydraulic piston.

Only used with roofcar BMU systems.

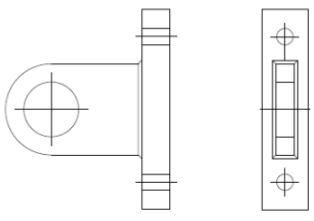
SOFTROPE SYSTEM

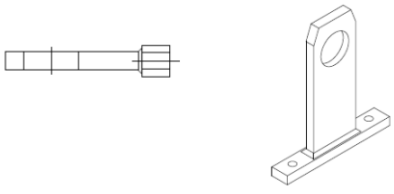
Softrope system has to be used to restrain the cradle on positive sloping facades.

RESTRAINT SYSTEMS

Hoisting height less than 40 meters, there are no restraint level considered. Above 40 meters, restraint systems are obliged to be used in every 20 meter.

The building maintenance unit's cradle movement is automatically stopped at the restraining points.

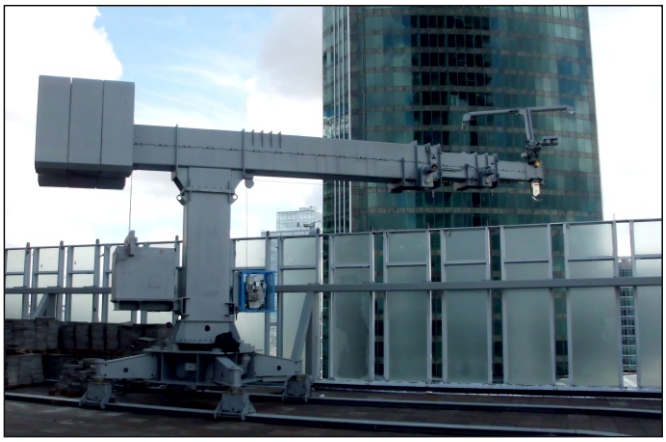




SOME OF OUR REFERENCES





SOME OF OUR REFERENCES

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