ELECTRIC PLATFORMS



Electric powered access platforms: Raising and lowering personnel.



MANITOU four ranges of



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electric powered access



As a world leader in all-terrain working machinery, MANITOU is known for INNOVATION, SAFETY and the QUALITY of its product ranges. MANITOU designs and manufactures products precisely adapted to the needs of its clients (in construction, agriculture and industry). Reliability, performance and simplicity of MANITOU machines combine to make equipment of enhanced value. So it is natural that Manitou should bring all its expertise, and that of its network, to develop electrical powered platforms specifically adapted for industry.

You will find a **wide choice of platforms**, each perfectly suited to the needs of your business, whether for indoor or outdoor use, and whether you are a hirer or an operator. MANITOU also guarantees rapid and effective support. **Every situation is planned for.**

Electric platforms a range of **11 models**









Vertical platforms



3 MODELS AVAILABLE:









Compactness and manoeuvrability to ensure maximum utilisation.

You can work with ease up to a height of 10 m with our vertical platforms. They are compact, light and manoeuvrable, hence ideal to access the most difficult places.

You can efficiently carry out your handling or maintenance operations indoors and also outdoors on firm ground.



Vertical platforms

60V / 80VJR / 100VJR

High accessibility

You gain in manoeuvrability in confined spaces by virtue of the limited space requirement of our vertical platforms. No matter which model, access to a building via a standard door is no problem.... You no longer require ladders or scaffolding, you can carry out your maintenance operations simply and safely. Our range of platforms is light, hence easily transportable, so you increase the time available to work fully independently.



Minimal maintenance

You significantly reduce costs of maintenance. The telescopic system is recognised by our clients for its reliability, and robustness but also for its ease of maintenance. There is easy access to the batteries, notably with the 60V model, due to the sliding drawer (no screw to undo). Maintenance is therefore even more rapid.



most suitable working

areas for the 60 V

- Industrial maintenance
- Maintenance of equipment in public/municipal establishments
- Preparation of orders
- Finishing-off work









Vertical platforms

60V / 80VJR / 100VJR



Safety and stability

You can work at a height or in congested spaces without difficulty. Each model has high stability which our engineers have made possible through working on the dimensions and the positioning of component parts. Comfort and stability in the platform (basket) are achieved through the telescopic tube technique developed by MANITOU.

Although very compact, our VJR models function over a large working area, and have the best capability for reach on the market, due to the pendular arm and rotating turret.



Intuitive controls

Your machine is easy to operate. The controls were devised to be manipulated quickly and easily. Movements are made precisely and neatly due to proportional controls. You can work in total safety and comfort within the spacious baskets in all our range of vertical platforms.

Most suitable

areas for vjR

- Second-phase outdoor work (on firm ground): painting, sign-fixing
- Second —phase interior: Air-conditioning, insulation, fire-detection systems, lighting, electric wiring, piping
- Industrial applications: Cleaning, warehousing, supermarket chains, production industries, industrial maintenance, stock-checking
- Public buildings, gymnasiums etc.
- Agricultural Storage

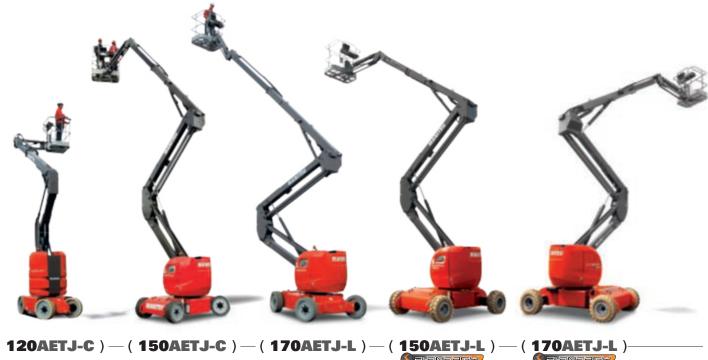
















You can work around all obstacles, indoors or outdoors.

If you work in restricted and congested places such as warehouses, production areas, pedestrian zones, this range is the ideal solution. Height, weight, manoeuvrability, multi-purpose application... The self-propelled articulated electrical MANITOU platforms will answer all your needs, outdoors or indoors. This can be in the The choice is yours to find the model best adapted



120AETJ-C / 150AETJ-C / 170AETJ-L / 150AETJ-L / 170AETJ-L

SHENERSY)



Compactness and lightness

All our models are under 2 metres high with arms folded back and thus you can easily access all industrial buildings. The models designated 'compact' allow access to very small or cluttered places, and enable their ability to place objects in industrial sites. Our models are easily transported and offer excellent stability.



Turing circle, overhang, height

You can reach the furthest places with ease whichever model is used. The 120 AETJ-C has the best turning circle to compactness ratio in its category. The 170 AETJ-L is noted for its exceptional turning space and minimum overhang when working without the need to move the machine. The pendular action greatly increases the size of the work area.

3D option

The 120 AETJ-C and 150 AETJ-C have the 3D pendular action and thus allow you to negotiate flexibly around obstacles such as piping, beams or pillars. This rotation system significantly increases your accessibility and working space for enhanced productivity.



Most suitable working

areas for AETJ

- Second phase work: air-conditioning, insulation, fire-detection systems, lighting, electric working, plumbing, fitting of windows, signs
- Industrial use: cleaning, warehouses, production areas, industrial maintenance
- Placing of signs, gymnasiums etc.
- Building, renovation.
- Aeronautical industry: inspection, maintenance, repairs
- Temporary events: preparation of exhibitions, entertainment/shows







120AETJ-C / 150AETJ-C / 170AETJ-L / 150AETJ-L / 170AETJ-L

SPENEAGY



Robustness

You can count on your machine for a long working life. The reinforced structure of the arms increases the rigidity and the comfort for the operator through a well-balanced basket. On the ground, this stability equals safety, whatever the height of working and the turning circle.



Safety at work

You can work in total safety. The AETJ platforms are equipped with safety protection that complies with European safety directives:

- the incline detector (elevation is automatically cut out if the gradient is greater than 3' or 5')
- the charging control
- \bullet the operating lever inside the basket and on the ground
- the system of negative braking (it requires a positive movement of the switch to be released)
- the safety pump to allow the operator to descend rapidly in case of emergency.

Intuitive switches

You can easily operate your machine with the aid of intuitive proportional switches, which are ideal for rapid application. The movement from above can be made neatly and safely.





Most suitable working

areas for AFTJ

- Second phase work: air-conditioning, insulation, fire-detection systems, lighting, electric working, plumbing, fitting of windows, signs
- Industrial use: cleaning, warehouses, production areas, industrial maintenance
- Placing of signs, gymnasiums etc.
- Building, renovation.
- Aeronautical industry: inspection, maintenance, repairs
- Temporary events: preparation of exhibitions, entertainment/shows





120AETJ-C / 150AETJ-C / 170AETJ-L / 150AETJ-L / 170AETJ-L

BIENERGY



Comfort on the working platform

With the AETJ range you can be sure of good working conditions. Our baskets are spacious, robust and safe. The floor of the platform is light-admitting to improve ground visibility, and the double handrails enable you to avoid trapping your hands. Your tools are always within reach, thanks to the tool-racks. The drive lever can be protected from being soiled during dirty operations by a cover which ensures that your machine stays in good condition so as to achieve a better resale value.





Independence

You increase your productivity with the traction batteries. Their independence and longer life respond to your need for intensive operation. The indicator on the control post allows you to check easily the state of charge of your machine.

Simplified maintenance

The integrated CAN-bus technology facilitates a rapid diagnosis of the condition of your platform immediately and on-site. Furthermore, access to different components is easily facilitated enabling you to reduce the time the machine is out of use.



Most suitable working

areas for AFTJ

- Second phase work: air-conditioning, insulation, fire-detection systems, lighting, electric working, plumbing, fitting of windows, signs
- Industrial use: cleaning, warehouses, production areas, industrial maintenance
- Placing of signs, gymnasiums etc.
- Building, renovation.
- Aeronautical industry: inspection, maintenance, repairs
- Temporary events: preparation of exhibitions, entertainment/shows







120AETJ-C / 150AETJ-C / 170AETJ-L / 150AETJ-L / 170AETJ-L

BIENERGY



You increase productivity!

The Bi-Energy system is an innovative process which combines the silent and non -pollutant working of electrical technology with the autonomy of a Diesel engine. No longer is there a need to return to the charging station. Ideal for intensive applications which require indoor and outdoor operation.



Long-term effect

The Diesel engine drives a generator which transmits energy to the batteries. You gain in independence from all electrical sources. When the batteries have run down, the engine takes over, allowing you to work while at the same time recharging the batteries.



Usage inside and outdoors

The Bi-Energy platforms are truly adapted to changes in environment. You pass very easily from the electric mode working indoors (non-polluting, more economical) to the Diesel mode outdoors.



Partial all-terrain models

The Bi-Energy models are fitted with semi-industrial tyres at low pressure. You can work outdoors on non-firm ground, and indoors, without damage to the ground. With their capacity for adhesion to the ground they facilitate safety of movement.



Most suitable working

areas for **Bi-Energy**

- Second phase work: air-conditioning, insulation, fire-detection systems, lighting, electric working, plumbing, fitting of windows, signs
- Industrial use: cleaning, warehouses, production areas, industrial maintenance
- Placing of signs, gymnasiums etc.
- Building, renovation.
- Aeronautical industry: inspection, maintenance, repairs
- Temporary events: preparation of exhibitions, entertainment/shows



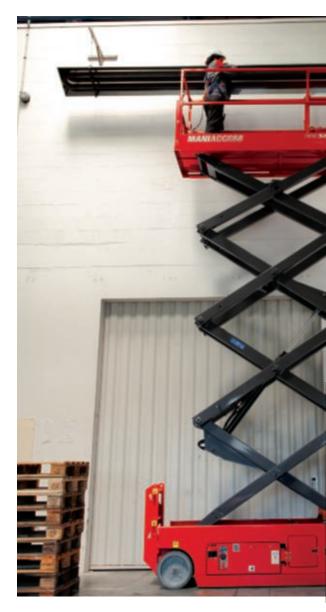


Scissor platforms



3 MODELS AVAILABLE:



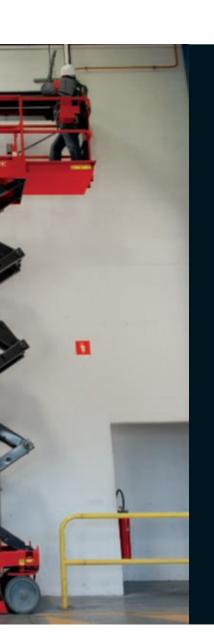








(78SEC) (100SEC) (120SE)



How to maximise your higher-altitude work.

The MANITOU scissor platforms have a high working capacity and extendable working area. No need to ascend and descend repeatedly: you can control everything, without risk, from the platform. This type of platform is ideal for reaching restricted spaces while also bringing the materials necessary for work at a high level. Your tasks are completed in safety.



Scissor platforms

78SEC / 100SEC / 120SE

High accessibility

Workplace aisles and difficult-access places are no longer an obstacle. Equipped with a narrow chassis, the 78 and 100 SEC models can easily pass through a standard door. As for the 120SE model, it needs a width of 1.20 m. You increase your manoeuvrability in restricted spaces due to the small turning circle and the exceptional reduced overall dimensions.









Intuitive controls

You can operate your machine with ease due to the intuitive controls. The flexible and easy driving of the machine ensures that you have comfort and safety. The indicator on the control panel allows you easily to check the state of charge of your machine.



Suitable working are as for **SEC/SE**

- Second phase: painting, lighting, wiring, insulation, air-conditioning
- Industrial cleaning
- Stock checking
- Special events (exhibitions/Shows outdoors)

. . . .









Scissor platforms

78SEC / 100SEC / 120SE

Self-sufficiency

Keep your work going longer: our scissor platforms have the ECU (Electronic Control Unit) system which improves the efficiency and longevity of the battery. You will increase productivity.



Robustness and safety.

You can work in confidence at 7.8 m, 10 m or 12 m. The 78/100 and 120 are equipped with double scissors with reinforced arms with increased dimension axes. An anti-slip coating on the basket also contributes to your safety.

Suitable working **areas** for **SEC/SE**

- Second phase: painting, lighting, electricity, air-conditioning, insulation
- Industrial cleaning
- Stock-taking
- Temporary events
- Logistics
- ...





Services MANITOU



Proximity and availability as you require

The infrastructure is at your service! In addition to geographical proximity, you can rely on the technical expertise and advice of your MANITOU agents, at the time of purchase, and throughout the life of your machine. To help you work in the best possible conditions, MANITOU provides you with the best possible speed of delivery of spare parts for your equipment.





Responsiveness and technical expertise which you need from a suppler

For the technical follow-up on your equipment you can rely on experienced professionals! You also can have the peace of mind of every MANITOU owner by calling on MANITOU experts, regularly retrained over the range of our products and available to answer your questions, whether you are an owner-operator or hirer. Maintenance and repair works are carried out on site following a simple telephone call, and in the time-frame agreed, According to your system of management you can plan and spread your maintenance charges and benefit from our offers of maintenance contract and/or extension of quarantee.

Made-to-measure financing to protect your budget

You can plan the purchase of your platform with peace of mind using the MANITOU financing schemes. You have access to solutions that are simple and adapted to your needs and to the season. If you wish to make a speedy investment without exceeding your available funds, you should consider asking us for a tailor-made approach which takes your financial situation into account.

* Manitou finance solutions available in certain countries





		60 V
	Working height	5.70 m
U	Platform height	3.70 m
	Capacity	227
	Number of persons (indoor/outdoor)	2/1
	Basket (width and length)	0.74 m x 1.04 m
/	1. Overall width	0.76 m
	2. Overall length	1.36 m
	3. Overall height	1.70 m
	4. Interior turning circle	0.37 m
	5. Exterior turning circle	1.40 m
	6. Ground clearance	7.60 cm
	7. Wheelbase	0.98 m
<u>=</u>	Speed of forward movement	3.65 kph
	Working speed	1.00 kph
	Maximum slope accessible	25 %
	Maximum tilt	3 % / 2°
	Tyres	30.50 mm dia.
	Driving wheels	2 (front)
	Steering/directional wheels	2 (front)
2 Kg	Weight (varies according to options & standards of the country)	776 kg
2	Batteries	220 Ah / 24 V
3	Integrated charger	20 Ah / 24 V

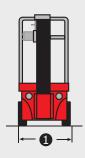
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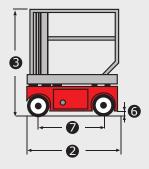
Standard equipment
Proportional switches/levers
Forward movement possible at maximum height
Sound and visual alarm in case of excessive slant and overload
Integrated charger
Emergency manual descent
Negative braking system
Sound warning system inside the platform
Hour meter
Indication of state of charge of batteries
Hooks for sling loading/lifting
Integrated diagnostic aid
Anti-roll bar
Tyres with non-marking edges

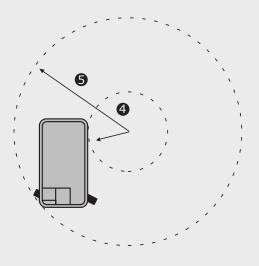
Optional equipment

Initial certificate of verification prior to entry into service

Safety harness







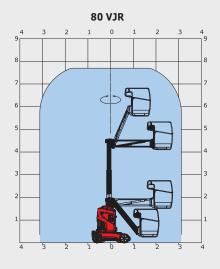


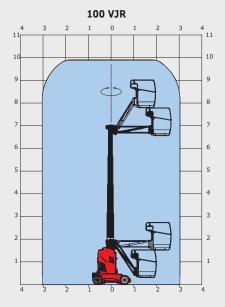
80 VJR / 100 VJR

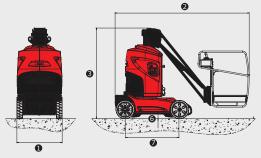
	80 VJR	100 VJR	
Working height	7.70 m	9.90 m	
Platform height	5.70 m	7.90 m	
Articulation height	4.23 m	6.67 m	
Outreach	3.25 m	3.15 m	
Jib tilting	+70°/	- 70°	
Basket rotation	+70° / - 70°		
Turret rotation	350°		
Number of persons (index/outdoor)	200	kg	
Number of persons (indoor/outdoor)	2/1		
Basket (width and length)	0.90 x 0	x 0.75 m	
1. Overall width	0.99 m		
2. Overall length	2.95 m	2.82 m	
3. Overall height	1.99 m		
4. Interior turning circle	0.49 m		
5. Exterior turning circle	1.98	m	
6. Ground clearance	10 cm		
7. Wheelbase	1.20	m	
Speed of forward movement	4.50 k	cph	
Working speed	0.65 k	cph	
Maximum slope accessible	25 %	/ o	
Maximum tilt	3.5 %	/ 2°	
Tyres	16-5-11	l 1/4	
Driving wheels	2 (back)		
Steering/directional wheels	2 (front)		
Weight (varies according to options & standards of the country)	2250 kg	2650 kg	
■ Batteries	250 Ah (C5	i) / 24 V	
Integrated charger	30 Ah / 24 V		

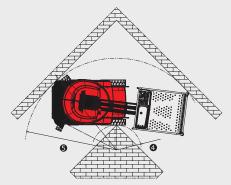
Standard equipment
Proportional switches/levers
Forward movement possible at maximum height
Sound and visual alarm in case of excessive slant and overload
Integrated charger
Emergency manual descent
Negative braking system
Sound warning system inside the platform
Hour meter
Indication of state of charge of batteries
Hooks for sling loading/lifting
Integrated diagnostic aid
Tyres with non-marking edges
Tyres crimped non-marking wheels
All-road non-marking wheels
Basket with transparent floor
Bus CAN technology
Tool box inside platform

Optional equipment	
Flashing lights	
Working light	
Predisposition of air	
Predisposition of water	
230V power input with differential circuit-breaker	
Special paint	
Biodegradable oil	
Central topping-up of batteries	
Initial certificate of verification prior to entry into service	
Safety harness	
Oil for extreme low temperatures	
Battery frost protection	









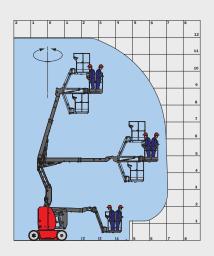


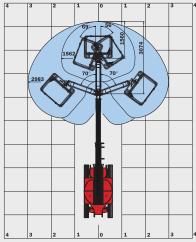
120AETJ-C

		120 AETJ-C
D	Working height	11.95 m
	Platform height	9.95 m
	Articulation height	4.77 m
	Outreach	7.00 m
	Jib tilting	+70° / -70°
	Jib Movemenent (option 3D)	+70° / -70°
	Basket rotation	140°
	Turret rotation	355°
	Capacity	200 kg
	Number of persons (indoor/outdoor)	2/2
	Basket (width and length)	1.20 x 0.92 m
- ,,	1. Overall width	1.20 m
	2. Overall length	5.48 m
	3. Overall height	1.99 m
	4. Overall length when folded	3.74 m
	5. Overall height when folded	2.16 m
	6. Interior turning circle	1.55 m
	7. Exterior turning circle	3.25 m
	8. Exterior turning circle (option 3D)	3.44 m
	9. Ground clearance	10 cm
	10. Wheelbase	1.65 m
	Speed of forward movement	6 kph
	Working speed	0.60 kph
	Maximum slope accessible	25 %
	Maximum tilt	5 % / 3°
	Tyres	0.60 x 0.19 m
	Driving wheels	2 (back)
	Steering/directional wheels	2 (front)
2 Kg	Weight (varies according to options & standards of the country)	6660 kg
	Batteries	240 Ah / 2 x 24 V
3	Integrated charger	30 Ah / 48 V

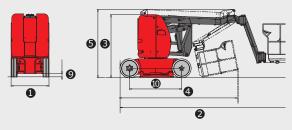
Standard equipment
Proportional switches/levers
Forward movement possible at maximum height
Sound and visual alarm in case of excessive slant and overload
Integrated charger
Emergency manual descent
Negative braking system
Sound warning system inside the platform
Hour meter
Indication of state of charge of batteries
Hooks for sling loading/lifting
Integrated diagnostic aid
Predisposition 220V
Anti Roll System
Tyres with non-marking edges
Basket with transparent floor
Bus CAN technology
Tool box inside platform

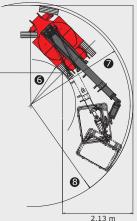
Optional equipment
Flashing lights
Working light
Predisposition of air
Predisposition of water
230V power input with differential circuit-breaker
Special paint
Biodegradable oil
Rotation of pendulum arm (3D)
High capacity battery (300 Ah / 2 x 24 V)
Central topping up of batteries
Warning signal moving forward
Warning signal for all movements
Protective cover for instruments panel
Initial certificate of verification prior to entry into service
Safety harness





Option 3D: Jib Movemenent





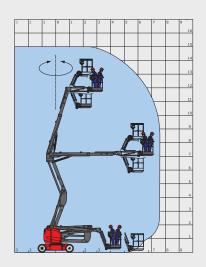


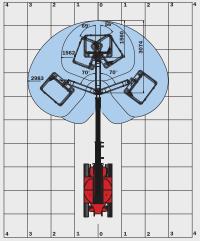
150 AETJ-C

		150 AETJ-C
I	Working height	15 m
	Platform height	13 m
	Articulation height	7 m
	Outreach	7.60 m
	Jib tilting	+70° / -70°
	Jib Movemenent (option 3D)	+70° / -70°
	Basket rotation	140°
	Turret rotation	355°
	Capacity	200 kg
	Number of persons (indoor/outdoor)	2/2
	Basket (width and length)	1.20 x 0.96 m
- ,,	1. Overall width	1.50 m
	2. Overall length	6.05 m
	3. Overall height	1.97 m
	4. Overall length when folded	4.40 m
	5. Overall height when folded	2.08 m
	6. Interior turning circle	1.87 m
	7. Exterior turning circle	3.96 m
	8. Exterior turning circle	4.82 m
	9. Ground clearance	14 cm
	10. Wheelbase	2.00 m
= 0	Speed of forward movement	5 kph
	Working speed	0.60 kph
	Maximum slope accessible	25 %
	Maximum tilt	5 % / 3°
	Tyres	0.60 x 0.19 m
	Driving wheels	2 (back)
	Steering/directional wheels	2 (front)
Kg	Weight (varies according to options & standards of the country)	6700 kg
2	Batteries	240 Ah / 2 x 24 V
	Integrated charger	45 Ah / 48 V

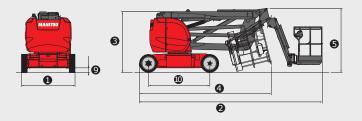
Standard equipment
Proportional switches/levers
Forward movement possible at maximum height
Sound and visual alarm in case of excessive slant and overload
Integrated charger
Emergency manual descent
Negative braking system
Sound warning system inside the platform
Hour meter
Indication of state of charge of batteries
Hooks for sling loading/lifting
Integrated diagnostic aid
Predisposition 220V
Tyres with non-marking edges
Basket with transparent floor
Bus CAN technology
Tool box inside platform

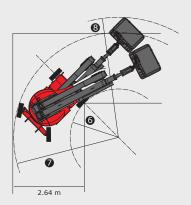
Optional equipment
Flashing lights
Working light
Predisposition of air
Predisposition of water
230V power input with differential circuit-breaker
Special paint
Biodegradable oil
Rotation of pendulum arm (3D)
High capacity battery (360 Ah)
Central topping up of batteries
Warning signal moving forward
Warning signal for all movements
Protective cover for instruments panel
Initial certificate of verification prior to entry into service
Safety harness





Option 3D: Jib Movemenent

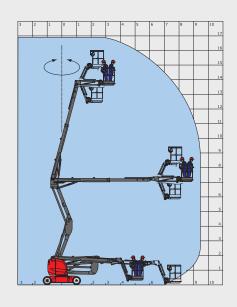






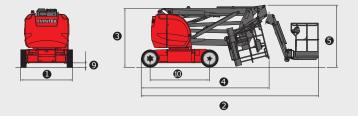
170AETJ-L

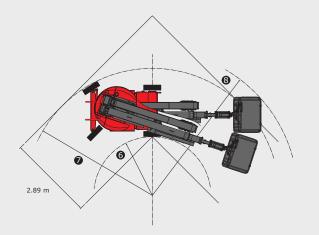
		170 AETJ-L
	Working height	16.90 m
IJ	Platform height	14.90 m
	Articulation height	7.15 m
	Outreach	9.40 m
رح	Jib tilting	+70° / -70°
	Jib Movemenent (option 3D)	+70° / -70°
	Basket rotation	140°
	Turret rotation	355°
πп	Capacity	200 kg
	Number of persons (indoor/outdoor)	2/2
	Basket (width and length)	1.20 x 0.96 m
ر	1. Overall width	1.75 m
	2. Overall length	6.84 m
	3. Overall height	1.97 m
	4. Overall length when folded	5.12 m
	5. Overall height when folded	2.04 m
	6. Interior turning circle	1.97 m
	7. Exterior turning circle	4.30 m
	8. Exterior turning circle	5.60 m
	9. Ground clearance	14 cm
	10. Wheelbase	2.00 m
<u>-</u>	Speed of forward movement	5 kph
•	Working speed	0.60 kph
7	Maximum slope accessible	22 %
	Maximum tilt	5 % / 3°
	Tyres	0.60 x 0.19 m
\mathcal{D}	Driving wheels	2 (back)
	Steering/directional wheels	2 (front)
2 Kg	Weight (varies according to options & standards of the country)	6910 kg
7	Batteries	240 Ah / 2 x 24 V
\geq	Integrated charger	45 Ah / 48 V



Standard equipment
Proportional switches/levers
Forward movement possible at maximum height
Sound and visual alarm in case of excessive slant and overload
Integrated charger
Emergency manual descent
Negative braking system
Sound warning system inside the platform
Hour meter
Indication of state of charge of batteries
Hooks for sling loading/lifting
Integrated diagnostic aid
Predisposition 220V
Tyres with non-marking edges
Basket with transparent floor
Bus CAN technology
Tool box inside platform

Optional equipment
Flashing lights
Working light
Predisposition of air
Predisposition of water
230V power input with differential circuit-breaker
Special paint
Biodegradable oil
High capacity battery (360 Ah)
Central topping up of batteries
Warning signal moving forward
Warning signal for all movements
Protective cover for instruments panel
Initial certificate of verification prior to entry into service
Safety harness
Salety Harriess







150AETJ-L / 170AET BIENERGY

Working height			150 AETJ-L	170 AETJ-L		
Articulation height Outreach Outreach 7.81 m 9.43 m 1ib tilting Basket rotation Turret rotation Capacity Number of persons (indoor/outdoor) Basket (width and length) 1.00 x 0.92 m 1.00 yerall width 2.00 yerall length 3.00 yerall height 4.00 yerall length when folded 5.00 yerall height when folded 6.10 m 6.97 m 7. Exterior turning circle 8. Exterior turning circle 9. Ground clearance 10. Wheelbase 2.20 m Speed of forward movement Working speed Maximum slope accessible Maximum slope accessible Maximum slope accessible Maximum slope accessible Steering/directional wheels Weight (varies according to options & standards of the country) Power Power Lombardini FOCS 702 water cooled Power Lombardini FOCS 702 water cooled		Working height	15.40 m	17 m		
Dutreach 7.81 m 9.43 m 140° 7.70° 8asket rotation 140° 7.70° 8asket rotation 355° 230 kg 7.81 m 9.43 m 140° 7.81 m 9.43 m 140° 7.81 m 1.20 x 0.92 m 7.82 m 1.20 m	U	Platform height	13.40 m	15 m		
Jib tilting		Articulation height	7.2	7 m		
Basket rotation		Outreach	7.81 m	9.43 m		
Turret rotation 355° Capacity 230 kg Number of persons (indoor/outdoor) 2/2 Basket (width and length) 1.20 x 0.92 m 1. Overall width 2.0 verall length 6.10 m 6.97 m 3. Overall length 4. Overall length when folded 4.53 m 5.25 m 5. Overall height when folded 2.13 m 6. Interior turning circle 1.97 m 7. Exterior turning circle 4.85 m 9. Ground clearance 17.5 cm 10. Wheelbase 2.20 m Speed of forward movement 6 kph Working speed 0.60 kph Maximum slope accessible 25 % 21 % Maximum tilt 9 % / 5° Tyres 27-10-12 Driving wheels 2 (front) Weight (varies according to options & standards of the country) Batteries 300 Ah / 2 x 24 V Integrated charger 4.5 Ah / 48 V Engine Lombardini FOCS 702 water cooled Power		Jib tilting	+70° / -70°			
Capacity 230 kg Number of persons (indoor/outdoor) 2/2 Basket (width and length) 1.20 x 0.92 m 1. Overall width 1.90 m 6.97 m 3. Overall length 6.10 m 6.97 m 3. Overall length 4. Overall length 4. Overall length when folded 4.53 m 5.25 m 5.25 m 5.25 m 6. Interior turning circle 4. 27 m 8. Exterior turning circle 4. 85 m 9. Ground clearance 17.5 cm 10. Wheelbase 2.20 m 5.20 m 5.25 m		Basket rotation	140°			
Number of persons (indoor/outdoor) 2/2		Turret rotation	355°			
Basket (width and length) 1.20 x 0.92 m	HTTT	Capacity	230	kg		
1. Overall width 2. Overall length 3. Overall height 4. Overall length when folded 5. Overall height when folded 6. Interior turning circle 7. Exterior turning circle 8. Exterior turning circle 9. Ground clearance 10. Wheelbase Speed of forward movement Working speed Maximum slope accessible Maximum tilt Maximum tilt Maximum tilt Meight (varies according to options & standards of the country) Batteries Integrated charger Lombardini FOCS 702 water cooled Power 1.90 m 6.91 m 6.92 m 6.92 m 6.92 m 6.92 m 6.92 m 6.90		Number of persons (indoor/outdoor)	2/	2		
2. Overall length 3. Overall height 4. Overall length when folded 5. Overall height when folded 6. Interior turning circle 7. Exterior turning circle 8. Exterior turning circle 9. Ground clearance 10. Wheelbase 9. Ground clearance 10. Wheelbase 2.20 m Speed of forward movement Working speed Maximum slope accessible Maximum tilt 9 % / 5° Tyres 27-10-12 Driving wheels Steering/directional wheels Weight (varies according to options & standards of the country) Batteries Integrated charger Engine Power 6.10 m 6.97		Basket (width and length)	1.20 x	0.92 m		
3. Overall height 4. Overall length when folded 4. 53 m 5. Overall height when folded 5. Overall height when folded 6. Interior turning circle 7. Exterior turning circle 8. Exterior turning circle 9. Ground clearance 10. Wheelbase 9. Ground clearance 10. Wheelbase 2.20 m Speed of forward movement Working speed 0.60 kph Maximum slope accessible Maximum tilt 9 % / 5° Tyres 27-10-12 Driving wheels Steering/directional wheels 2 (back) Steering/directional wheels 45 Ah / 48 V Engine Power 8. Exterior turning circle 4.27 m 4.27 m 6. Lombardini FOCS 702 water cooled 9.20 kW	V	1. Overall width	1.90) m		
4. Overall length when folded 4.53 m 5.25 m 5. Overall height when folded 2.13 m 6. Interior turning circle 1.97 m 7. Exterior turning circle 4.27 m 8. Exterior turning circle 4.85 m 9. Ground clearance 17.5 cm 10. Wheelbase 2.20 m Speed of forward movement 6 kph Working speed 0.60 kph Maximum slope accessible 25 % 21 % Maximum tilt 9 % / 5° Tyres 27-10-12 Driving wheels 2 (back) Steering/directional wheels 2 (front) Weight (varies according to options & standards of the country) Batteries 300 Ah / 2 x 24 V Integrated charger 45 Ah / 48 V Engine Lombardini FOCS 702 water cooled Power		2. Overall length	6.10 m	6.97 m		
5. Overall height when folded 6. Interior turning circle 7. Exterior turning circle 8. Exterior turning circle 9. Ground clearance 10. Wheelbase 10. Wheelbase 10. Working speed 10. Working spe		3. Overall height	2.10) m		
6. Interior turning circle 7. Exterior turning circle 8. Exterior turning circle 9. Ground clearance 10. Wheelbase 2.20 m Speed of forward movement Working speed Maximum slope accessible Maximum tilt 9 % / 5° Tyres 27-10-12 Driving wheels Steering/directional wheels Weight (varies according to options & standards of the country) Metaler Me		4. Overall length when folded	4.53 m	5.25 m		
7. Exterior turning circle 8. Exterior turning circle 9. Ground clearance 10. Wheelbase 2.20 m Speed of forward movement Working speed Maximum slope accessible Maximum tilt 9 % / 5° Tyres 27-10-12 Driving wheels Steering/directional wheels Weight (varies according to options & standards of the country) Batteries Integrated charger 4.27 m 4.85 m 4.85 m 9.67 cm 17.5 cm 10. Webph 6 kph Maximum slope accessible 2.20 m 5 21 % 6 21 % 6 21 % 6 21 % 6 21 % 6 30 Ab / 2 × 24 V 6 30 Ab / 2 × 24 V 6 30 Ab / 2 × 24 V 8 5 Ab / 48 V 8 5 Engine 9 Cumbardini FOCS 702 water cooled 9 Ower		5. Overall height when folded	2.13	3 m		
8. Exterior turning circle 9. Ground clearance 10. Wheelbase 2.20 m Speed of forward movement Working speed Maximum slope accessible Maximum tilt 9 % / 5° Tyres 27-10-12 Driving wheels Steering/directional wheels Weight (varies according to options & standards of the country) Batteries Integrated charger Engine Power 4.85 m 4.86 m 4.87 h 4.88 h 4.86 h 4.87 h 4.88 h 4.86 h 4.87 h 4.86 h 4.86 h 4.86 h 4.86 h 4.86 h 4.86 h 4.87 h		6. Interior turning circle	1.97 m			
9. Ground clearance 10. Wheelbase 2.20 m Speed of forward movement Working speed Maximum slope accessible Maximum tilt 9 % / 5° Tyres 27-10-12 Driving wheels Steering/directional wheels (varies according to options & standards of the country) Batteries Integrated charger Power 17.5 cm 18.17.5 cm 18.1		7. Exterior turning circle	4.27 m			
10. Wheelbase 2.20 m Speed of forward movement 6 kph Working speed 0.60 kph Maximum slope accessible 25 % 21 % Maximum tilt 9 % / 5° Tyres 27-10-12 Driving wheels 2 (back) Steering/directional wheels 2 (front) Weight (varies according to options & standards of the country) Batteries 300 Ah / 2 x 24 V Integrated charger 45 Ah / 48 V Engine Lombardini FOCS 702 water cooled Power 9.20 kW		8. Exterior turning circle	4.85 m			
Speed of forward movement Working speed 0.60 kph 25 % Maximum slope accessible Maximum tilt 9 % / 5° Tyres 27-10-12 Driving wheels Steering/directional wheels Weight (varies according to options & standards of the country) Batteries Integrated charger Figure Lombardini FOCS 702 water cooled Power 6 kph 0.60 kph 21 % All (park) 5 (back) 5 (front) 6 435 kg 7 435 kg 7 435 kg The grated charger 45 Ah / 48 V Lombardini FOCS 702 water cooled Power		9. Ground clearance	17.5 cm			
Working speed		10. Wheelbase	2.20) m		
Maximum slope accessible	-0	Speed of forward movement	6 kph			
Maximum tilt 9 % / 5° Tyres 27-10-12 Driving wheels Steering/directional wheels Weight (varies according to options & standards of the country) Batteries Integrated charger Engine Power Maximum tilt 9 % / 5° 27-10-12 2 (back) 52 (front) 6435 kg 7435 kg 7435 kg The standards of the country 45 Ah / 48 V Lombardini FOCS 702 water cooled Power		Working speed	0.60	kph		
Tyres 27-10-12 Driving wheels 2 (back) Steering/directional wheels 2 (front) Weight (varies according to options & standards of the country) Batteries 300 Ah / 2 x 24 V Integrated charger 45 Ah / 48 V Engine Lombardini FOCS 702 water cooled Power 9.20 kW		Maximum slope accessible	25 %	21 %		
Driving wheels Steering/directional wheels Weight (varies according to options & standards of the country) Batteries Integrated charger Engine Power Driving wheels 2 (back) 2 (front) 6435 kg 7435 kg 7435 kg 7435 kg Lombardini FOCS 702 water cooled 9.20 kW		Maximum tilt	9 %	/ 5°		
Driving wheels Steering/directional wheels Weight (varies according to options & standards of the country) Batteries Integrated charger Engine Power Driving wheels 2 (back) 2 (front) 6435 kg 7435 kg 7435 kg Ab / 2 x 24 V Lombardini FOCS 702 water cooled Power 9.20 kW		Tyres	27-1	0-12		
Weight (varies according to options & standards of the country) Batteries Integrated charger Engine Power Weight (varies according to options & standards of the country) 6435 kg 7435 kg 7435 kg 7435 kg 145 Ah / 2 x 24 V Lombardini FOCS 702 water cooled 9.20 kW		Driving wheels	2 (ba	ack)		
(varies according to options & standards of the country) Batteries Integrated charger Engine Power (varies according to options & standards of the country) 5435 Kg 7435 Kg		Steering/directional wheels	2 (fr	ont)		
Batteries 300 Ah / 2 x 24 V Integrated charger 45 Ah / 48 V Engine Lombardini FOCS 702 water cooled Power 9.20 kW	2	Weight	642E kg	742E ka		
Integrated charger 45 Ah / 48 V Engine Lombardini FOCS 702 water cooled Power 9.20 kW	Kg	(varies according to options & standards of the country)	0433 Kg	7433 Kg		
Engine Lombardini FOCS 702 water cooled Power 9.20 kW	2	Batteries	•			
Power 9.20 kW		Integrated charger	45 Ah / 48 V			
7.2.7.11		Engine	Lombardini FOCS 702 water cooled			
Generator 5.70 kW / 48 V - 100 Amp / 2500 rpm		Power	9.20	9.20 kW		
		Generator	5.70 kW / 48 V - 10	00 Amp / 2500 rpm		

Standard equipment Proportional switches/levers

Integrated charger Emergency manual descent Negative braking system

Hour meter

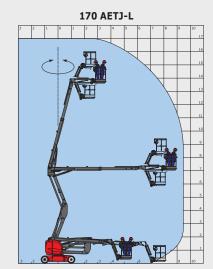
Forward movement possible at maximum height

Sound warning system inside the platform

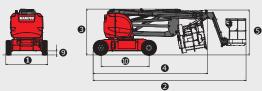
Indication of state of charge of batteries Hooks for sling loading/lifting Integrated diagnostic aid Predisposition 220V All road wheels - Non marking Basket with transparent floor Bus CAN technology

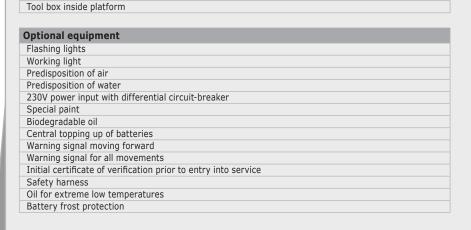
Sound and visual alarm in case of excessive slant and overload

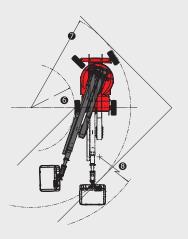
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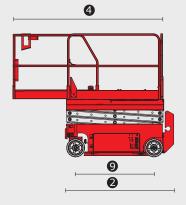




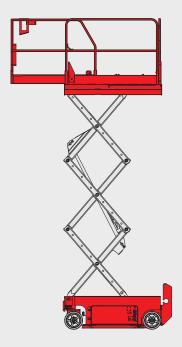
78 SEC / 100 SEC

	78 SEC	100 SEC		
Working height	7.79 m	9.92 m		
Platform height	5.79 m	7.92 m		
Capacity Number of persons (index/outdoor)	227 kg			
Number of persons (indoor/outdoor)	2/1	2/-		
Basket (width and length)	2.54 x 0.74 m	3.18 x 0.81 m		
1. Overall width	0.83	1 m		
2. Overall length	1.83 m	2.44 m		
3. Overall height	2.10 m	2.26 m		
4. Overall length (with extension)	2.74 m	3.33 m		
5. Overall height when folded	1.75 m	1.91 m		
6. Interior turning circle	0 m			
7. Exterior turning circle	1.55 m	2.13 m		
8. Ground clearance	6 cm	9 cm		
9. Wheelbase	1.32 m	1.85 m		
Speed of forward movement	4 kph	3.50 kph		
Working speed	0.80 kph			
Speed (raise/lower)	16/25 secs	30/40 secs		
Maximum slope accessible	25	%		
Tyres (solid non marking)	30 x 11 x 20 cm	38 x 13 x 28 cm		
Driving wheels	2 (front)	2 (front)		
Steering/directional wheels	2 (front)	2 (front)		
Weight (varies according to options & standards of the country)	1503 kg	1959 kg		
Batteries	225 Ah /	4 x 6 V		
Integrated charger	19 Ah	/ 24 V		

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Standard equipment
Proportional switches/levers
Forward movement possible at maximum height
Sound and visual alarm in case of excessive slant and overload
Integrated charger
Emergency manual descent
Negative braking system
Sound warning system inside the platform
Hour meter
Indication of state of charge of batteries
Hooks for sling loading/lifting
Integrated diagnostic aid
Predisposition 220V
Anti Roll system
Tyres with non-marking edges
Access gate for platform
Folding guardrails
Multiple disc brakes on rear wheels
Removable control box
Flashing lights



Optional equipment
Working light
Predisposition of air
Special paint
Warning signal for all movements
Initial certificate of verification prior to entry into service
Safety harness







		120 SE
D	Working height	11.75 m
	Platform height	9.75 m
HIII	Capacity	318 kg
	Number of persons (indoor/outdoor)	2/1
	Basket (width and length)	3.18 x 1.15 m
	1. Overall width	1.17 m
	2. Overall length	2.44 m
	3. Overall height	2.39 m
	4. Overall length (with extension)	3.33 m
	5. Overall height when folded	1.80 m
	6. Interior turning circle	0 m
	7. Exterior turning circle	2.29 m
	8. Ground clearance	10 cm
	9. Wheelbase	1.85 m
-0	Speed of forward movement	3.50 kph
	Working speed	0.80 kph
	Speed (raise/lower)	57/35 secs
	Maximum slope accessible	25%
	Tyres (solid non marking)	38 x 13 x 28 cm
	Driving wheels	2 (front)
	Steering/directional wheels	2 (front)
2 Kg	Weight (varies according to options & standards of the country)	2781 kg
	Batteries	225 Ah / 4 x 6 V
	Integrated charger	19 Ah / 24 V

Standard equipment
Proportional switches/levers
Forward movement possible at maximum height
Sound and visual alarm in case of excessive slant and overload
Integrated charger
Emergency manual descent
Negative braking system
Sound warning system inside the platform
Hour meter
Indication of state of charge of batteries
Hooks for sling loading/lifting
Integrated diagnostic aid
Predisposition 220V
Anti roll system
Tyres with non-marking edges
Access gate for platform
Folding guardrails
Multiple disc brakes on rear wheels
Removable control box
Flashing lights

Optional equipment
Working light
Predisposition of air
Special paint
Warning signal for all movements
Initial certificate of verification prior to entry into service
Safety harness

