DIESEL ENGINE PLATFORMS

The answer to PERSONNEL LIFTING REQUIREMENTS

MANITOU

www.manitou.com

Total Flexibility with MANITOU

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Diesel Platforms

As a world leader in all-terrain loading and lifting equipment, MANITOU is known for the **innovation, safety and quality** of its machinery. MANITOU designs and manufactures equipment specifically adapted to the needs of their clients in construction, agriculture and industry. **Reliability, performance and simplicity** of MANITOU machines produce equipment of high added value. So, naturally, the brand has put all its expertise, and that of its distribution chain, to the development of **Diesel-engine platforms for the construction industry.**

You will find a **wide choice of lifting platforms,** each of them corresponding perfectly to the requirements of your business. Whatever the terrain and the application you will have the after sales support to maximise your Manitou diesel platforms efficiency.

Diesel platforms:

8 models available

SC

ATJ

TJ

Scissor platforms

3 MODELS AVAILABLE:

(100SC)

(120SC)

(140SC)

Compactness together with high performance.

You have easy access to your building sites thanks to the compact size of the Manitou scissor platforms. These compact and sturdy models offer, considering their size, impressive working at height capacity and a large working area. They are simple to operate and so you gain in flexibility and operating comfort.

“ I have a mobile workshop at height. ”
MANITOU

Scissor platforms

100SC/120SC

Ease of handling

Several factors mean that Scissor platforms are very simple to handle. Their compactness allows you to manoeuvre in cluttered spaces, inside and out. You ascend the machine easily with the help of large anti-slip steps and a gate. Even when working at height your control of the machine and its movement provide complete safety with the aid of the intuitive ergonomic control panel. And you can control the platform extension (with the extension on rollerwheels locked in the secured position).

All terrain capability and Safety

Whatever condition the ground is in, you can work with no problem with the aid of the four driving wheels and an axle oscillation. In addition, you can deploy the stabilisers with the control panel located in the basket. In transport position they are retracted automatically to avoid damage. The overload indicator informs you the permitted weight so that all is under control.

Robust construction and minimal maintenance

Gradual take up of drive reducing pitching motion. The scissor platform's covers are easily opened. When maintenance is required they provide easy access to the engine and hydraulic compartments. The motor itself is mounted on a swiveling base. You will gain invaluable time.

Preferred working areas for SC models

- First phase (scaffolding, cladding)
- Second phase (painting, airconditioning, heating insulation…)
- Cleaning, sandblasting
- Event Operations
- …

Commercial buildings

Event Management

Articulated platforms

4 MODELS AVAILABLE:

(160ATJ) (160ATJ+) (180ATJ) (200ATJ)

You get round all obstacles, even on steep ground.

If you work mainly out of doors, on uneven or steeply sloping ground, this range is the ideal solution. Height, load, reach, speed of elevation... The MANITOU Diesel engine articulated platforms are the answer to all your building needs. From 16 to 20 metres, and from 230 to 400 kg (with our 160 ATJ+), you can find the platform which is most suited to your needs.

“ I can take on all kinds of very different operations. ”

Articulated platforms

160ATJ/160ATJ+/180ATJ/200ATJ

All Terrain Capability

With three steering modes, hydrostatic transmission, 2 heavy duty axles, 4 wheel drive, and unrivalled protection over obstacles on all types of ground. Even a gradient of 40% is within its capabilities and can easily go round and over obstacles. The oscillating axle (optional) will cope with all the ground irregularities.Your mobility and safety are ensured, whatever the type of terrain.

Efficiency and Productivity

You can reach the most inaccessible areas with ease, whether you are at 16 or 20 metres. Our models offer the best reach capacity on the market, equal to the needs of most building sites. Thereby you have access to an ideal working area without needing to move your machine. You make the most of your working time and thus your productivity.

160 ATJ New generation

You will find the improvements that have been made to the standard model:

- easier operation of the controls to allow you a better control of the power required, thereby significantly reducing polluting emissions, noise and fuel consumption.

- solid wheels, more environmentally friendly than foam filled or polyurethane tyres.

18" wheels are available as an option for use on very restricted site applications, where space is at a premium.

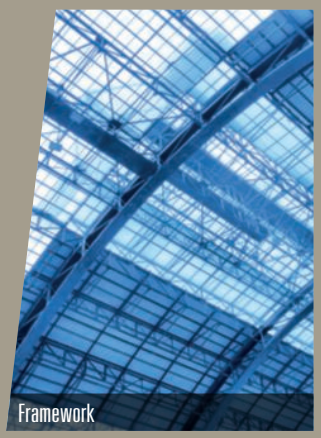
160 ATJ +

- Large basket (2.40 x 0.90 m) and basket capacity (400 kg including 3 people).

- Large storage area for tools and equipment.

Most suitable operating areas for ATJ models

- First phase (framework, cladding)
- Second phase (painting, heating and air conditioning)
- Cleaning and sand blasting
- Pruning
- Event Operations
- Airport/Port maintenance
- ...



Framework

Cleaning windows

“ I have the freedom for smooth and precise movements. ”
MANITOU

Articulated platforms

160ATJ/160ATJ+/180ATJ/200ATJ

Speed

You really save time at each lift. The raising of the platform consists of four movements (spreading of the arms, activation of the telescopic equipment and the turret rotation) which can be done simultaneously. So you reach your working area in 40 seconds flat. Moreover, due to its size and weight, the machine is easily transportable by lorry from one job to the next, You do not waste a minute.

Robustness

With the ATJ platform, you can work at height with total peace of mind. The heavy duty arms increase the machines rigidity and add to the comfort of use at height. The control box is protected by a cover against dirty operations such as painting, high pressure cleaning. The cover equally acts as protection against extreme weather or acts of vandalism, and keeps your machine in good condition to maintain its resale value.

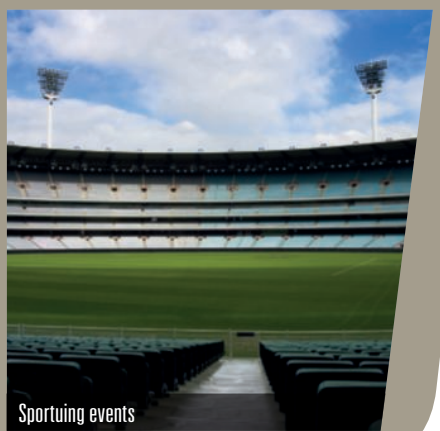
Working comfort

The ergonomic control box is designed to facilitate manoeuvring and to avoid accidents. The raising of the platform and the travel mode movement levers are located distinctly on the control panel. With your right hand, you can use all the moving control functions. You are the master of the mobility of your machine. The spacious basket with its grid design floor provides you with comfort and good visibility to ground level. It is fitted with double handrails to protect the operator's hands, but also has a solid toolbox. With MANITOU, comfort and safety go hand-in-hand.

Most suitable operating areas for ATJ models

- First phase (framework, cladding)
- Second phase (painting, heating and air conditioning)
- Cleaning and sand blasting
- Pruning
- Event Operations
- Airport/Port maintenance
- ...

Tree pruning


Sportuing events

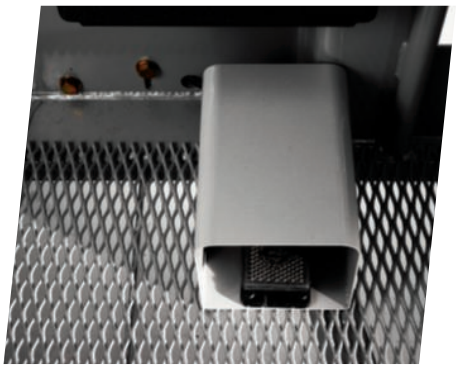
“ I have a workface of almost 360 degrees without needing to move. ”
MANIACCESS

Articulated platforms

160ATJ/160ATJ+/180ATJ/200ATJ

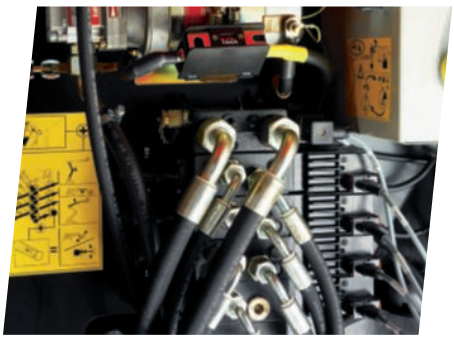
Safety

In accordance with European directives, ATJ platforms have all the necessary systems of protection:
- dead man's pedal to avoid incorrect operator actions e.g. in case of the operator's drowsiness or illness
- safety valves on the lifting controls
- control panel in the basket and also on the ground (to help out an operator in difficulty)
- weight control, leaning angle detector
- negative braking
- electric emergency pump
- puncture proof tyres



Simplified maintenance

The integrated bus CAN technology enables you to verify speedily the state of your machine. A monitor provides immediate feedback on the platform highlighting any service action required. The MANITOU dealer can assist with the diagnostics. By opening the cover, technicians have easy access to all service points and major components. You thus significantly reduce your maintenance and non-activity costs.



Most suitable operating areas for ATJ models

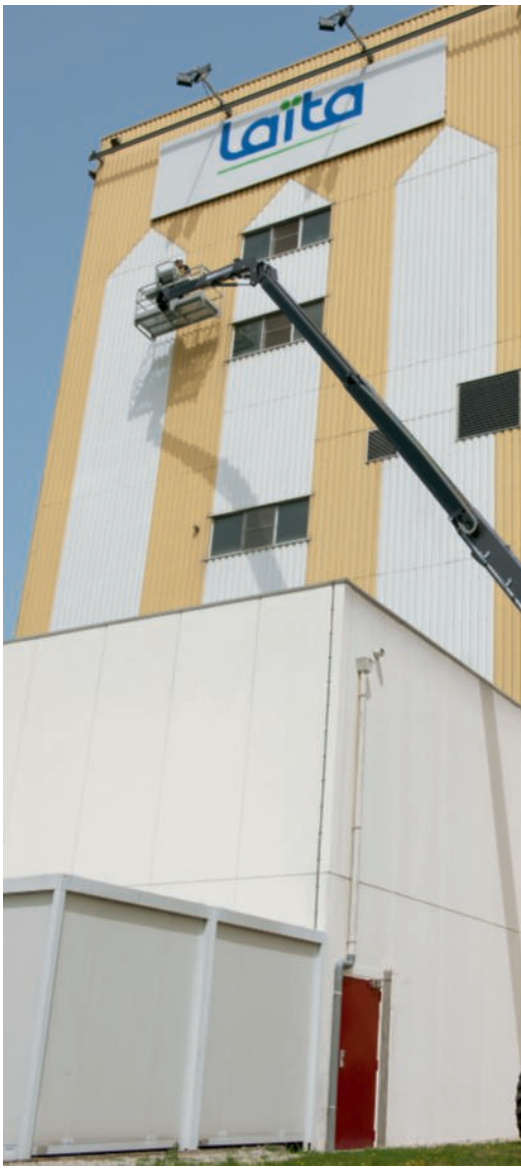
- First phase (framework, cladding)
- Second phase (painting, heating and air conditioning)
- Cleaning and sand blasting
- Pruning
- Event Operations
- Airport/Port maintenance
- ...

Port maintenance

Airports

Telescopic platforms

1 MODEL AVAILABLE:



(280TJ)

You can reach the heights.

Manitou Diesel Platforms with telescopic jibs are ideal for working at height. They have shown themselves to be indispensable for operations which demand a significant reach span, such as on major building construction sites. They are equipped with high specification components providing excellent reach and rough terrain capability for maximum safety and efficiency, with a controlled working speed... you are assured of the ability to work in all site conditions in total confidence.

“ I work
on large sites with
confidence. ”
MANITOU
MANITOU

Telescopic platforms

All terrain capability

With their different steering systems, TJ models can get round and over obstacles on every kind of ground. These platforms are significantly lighter and more compact than most of the competition leading to less ground damage and greater ease of transportation. Reinforced floors, an oscillating axle, 4 wheel drive and a differential block guarantee maximum mobility and speed on all surfaces.

Rapidity and safety of movements

You will really save time. The raising of the platform is effected in proportional simultaneous movements, offering speed and flexibility. You reach your working area fast and efficiently. Electronic control of the movements also allows rapidity of forward movement of the fixed basket in the air (the speed of movement of the basket is the same, whether the telescopic element is extended or not).

Excellent reach capability

Our platforms are equipped with a pivot system at the foot of the jib which provides an impressive reach capability. With the aid of the telescopic facility you can work at increasing height levels with ease. The machine also has an automatic system for the lifting and telescopic movements, which allows you to make vertical and horizontal movements (for instance along a ceiling).

Most suitable operating areas for TJ models

- First phase (framework)
- Cleaning, sandblasting
- Tree pruning
- Sporting events
- Shipyards
- ...

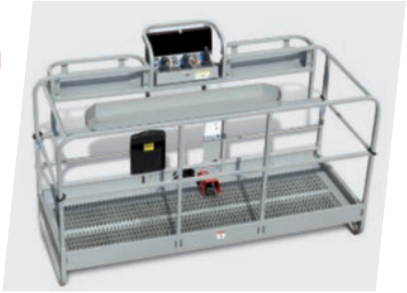
Construction and Industrial

Shipyards

“ Working at heights such as this has become a necessity in my job. ”
260 TJ
MANITOU
MANITOU

Telescopic platforms

Working comfort



With a full specification basket and with the capacity to load up to 350 kg, you can lift up to THREE operators with their equipment. You thus increase your productivity by reducing the number of passes. The storage area (1.80 m) allows you to store tools and equipment. The TJ models also have intuitive and ergonomic controls.

Maintenance and safety

All the expertise developed and tested with ATJ (articulated) models is in evidence with the telescopic platforms: bus CAN technology and all the protection systems in accordance with European safety directives (electric emergency pump, Dead Man's Pedal etc).
The engine, placed on a swiveling base, allows mechanics easy access to all parts and all service points.

Energy saving

On board system giving you power on demand. Manitou allows you to optimise engine power and complies to international emission regulations while consuming less fuel.

Most suitable operating areas for TJ models

- First phase (frames)
- Cleaning, sandblasting
- Tree pruning
- Sporting events
- Shipyards
- ...

Tree pruning

Cleaning

Services MANITOU

First Class Parts and Service Support

The MANITOU Dealer network 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.

Responsive and technical expertise

For the technical support 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 guarantee.

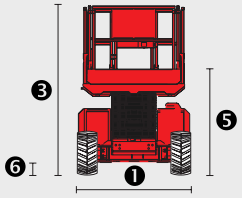
Made-to-measure financing to protect your budget

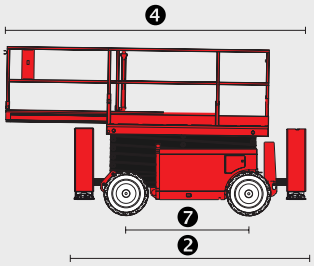
You can plan the purchase of your platform with peace of mind using the MANITOU financing schemes. You have access to solutions that are simple and adapted to your needs and to the season. If you wish to make a speedy investment without exceeding your available funds, you should consider asking us for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

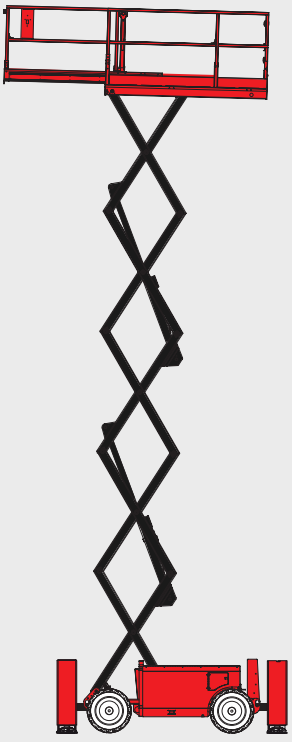
* Manitou finance solutions available in certain countries.

100SC

	100 SC
Working height	9.90 m
Platform height	7.90 m
Capacity	680 kg
Number of persons (indoor/outdoor)	4/4
Basket (width and length)	2.79 x 1.60 m
1. Overall width	1.75 m
2. Overall length	3.76 m
3. Overall height	2.59 m
4. Overall length (with extension)	4.61 m
5. Overall height when folded	1.92 m
6. Ground clearance	0.24 m
7. Wheelbase	2.29 m
Inside turning circle	2.11 m
Outside turning circle	4.60 m
Speed of forward movement	5.6 kph
Working speed	0.5 kph
Lifting/Lowering time of ascent/descent	26/33 secs
Maximum slope accessible	40 %
Tyres	26 x 12 x 380
Driving wheels	4
Steering/directional wheels	2
Weight (varies according to options & standards of the country)	3701 kg
Engine	KUBOTA D1105
Power	25 HP
Environmental noise (LwA)	105 dB







Standard equipment
Oscillating front axle
Proportional levers
Outriggers with automatic levelling
Anti slip protection
Access gate for platform
Folding guardrails
Removable control box
Audible and visual display alarm for excessive slope
Descent Alarm
Flashing lights
Foam filled tyres
On Board Diagnostics
Hour meter
Horn
Beacon
Audible and visual display alarm for excessive slope
Predisposition 230V

Optional equipment
Predisposition compressed air
Predisposition of water
Working light
Biodegradable oil
Warning Alarm for all movements
Non Marking tyres
Certificate of verification
Safety harness

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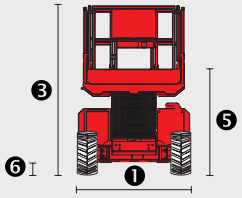
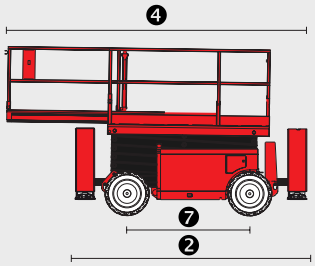
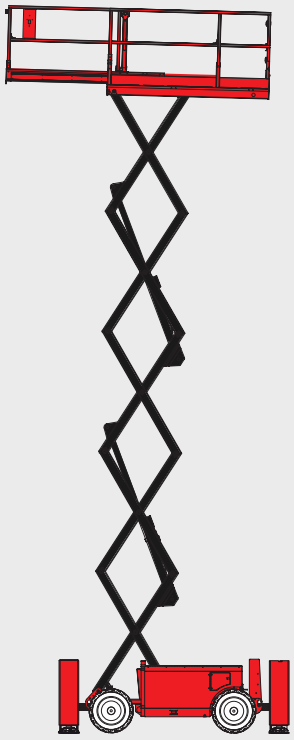
120SC

	120 SC
Working height	11.96 m
Platform height	9.96 m
Capacity	454 kg
Number of persons (indoor/outdoor)	4/2
Basket (width and length)	2.79 x 1.60 m
1. Overall width	1.75 m
2. Overall length	3.76 m
3. Overall height	2.59 m
4. Overall length (with extension)	4.61 m
5. Overall height when folded	1.92 m
6. Ground clearance	0.24 m
7. Wheelbase	2.29 m
Inside turning circle	2.11 m
Outside turning circle	4.60 m
Speed of forward movement	5.6 kph
Working speed	0.5 kph
Lifting/Lowering time of ascent/descent	42/28 secs
Maximum slope accessible	35%
Tyres	26 x 12 x 380
Driving wheels	4
Steering/directional wheels	2
Weight (varies according to options & standards of the country)	3882 kg
Engine	KUBOTA D1105
Power	25 HP
Environmental noise (LwA)	105 dB







Standard equipment
Oscillating front axle
Proportional levers
Outriggers with automatic levelling
Anti slip protection
Access gate for platform
Folding guardrails
Removable control box
Audible and visual display alarm for excessive slope
Descent Alarm
Flashing lights
Foam filled tyres
On Board Diagnostics
Hour meter
Horn
Beacon
Audible and visual display alarm for excessive slope
Predisposition 230V

Optional equipment
Predisposition compressed air
Predisposition of water
Working light
Biodegradable oil
Warning Alarm for all movements
Non Marking tyres
Certificate of verification
Safety harness

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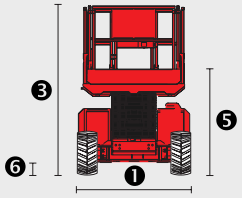
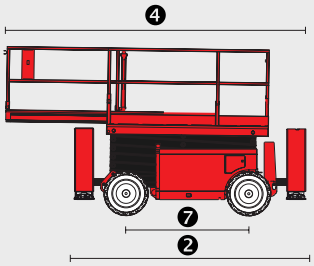
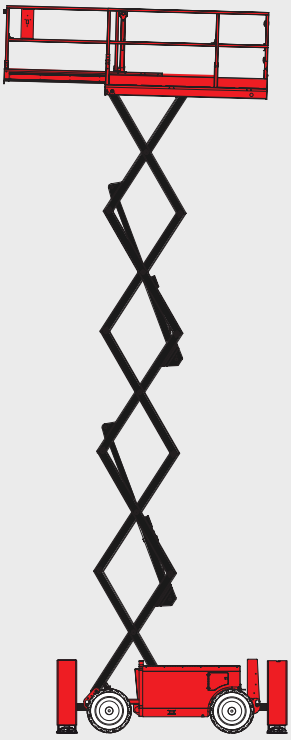
140SC

	140 SC
Working height	14.20 m
Platform height	12.20 m
Capacity	363 kg
Number of persons (indoor/outdoor)	3/2
Basket (width and length)	2.79 x 1.60 m
1. Overall width	1.75 m
2. Overall length	3.76 m
3. Overall height	2.74 m
4. Overall length (with extension)	4.61 m
5. Overall height when folded	2.08 m
6. Ground clearance	0.24 m
7. Wheelbase	2.29 m
Inside turning circle	2.11 m
Outside turning circle	4.60 m
Speed of forward movement	5.6 kph
Working speed	0.5 kph
Lifting/Lowering time of ascent/descent	69/46 secs
Maximum slope accessible	35%
Tyres	26 x 12 x 380
Driving wheels	4
Steering/directional wheels	2
Weight (varies according to options & standards of the country)	5039 kg
Engine	KUBOTA D1105
Power	25 HP
Environmental noise (LwA)	105 dB







Standard equipment
Oscillating front axle
Proportional levers
Outriggers with automatic levelling
Anti slip protection
Access gate for platform
Folding guardrails
Removable control box
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CE

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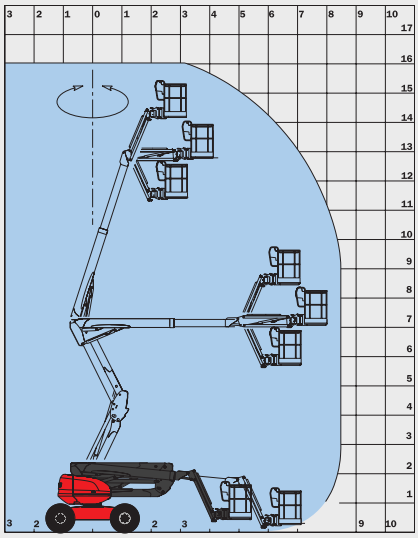
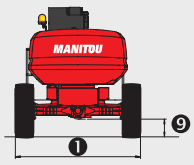
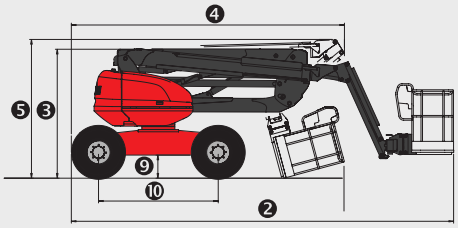
160 ATJ

	160 ATJ
Working height	16.01 m
Platform height	14.01 m
Articulation height	7.38 m
Outreach	8.30 m
Jib tilting	+70°/-70°
Basket rotation	+90°/-90°
Turret rotation	350°
Capacity	230 kg
Number of persons (indoor/outdoor)	2/2
Basket (width and length)	1.80 x 0.80 m
1. Overall width	2.30 m
2. Overall length	6.53 m
3. Overall height	2.37 m
4. Overall length when folded	4,44 m
5. Overall height when folded	2.61 m
6. Inside turning circle	1.39 m
7. Outside turning circle	3.71 m
8. Turning Radius (basket)	5.94 m
9. Ground clearance	35.5 cm
10. Wheelbase	2.20 m
Speed of forward movement	6 kph
Working speed	0.80 kph
Maximum slope accessible	40%
Maximum tilt	5° - 9%
Tyres	16.5"
Driving wheels	4
Steering/directional wheels	4
Weight (varies according to options & standards of the country)	6160 kg
Engine	KUBOTA V1505-E3B
Power	35.1 HP
Environmental noise (LwA)	101 dB

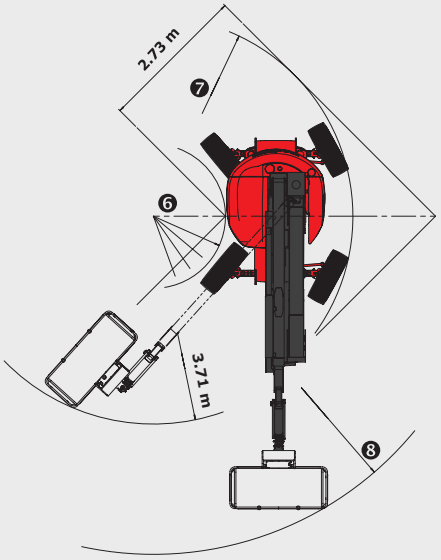






Standard equipment
Proportional levers
4 simultaneous movements
4 wheel drive
4 wheel steer
Wheels crab position
Solidair Tyres
Differential Lock
Front Axle limited slip differential
On Board Diagnostics
Hour meter
Fuel gauge with low level warning
Tool box
Protective cover with optional locking
Horn
Beacon
Audible and visual display alarm for excessive slope
Code Protected Machine Set Up
Hooks for sling loading/lifting
Electric Pump
Predisposition 230V
Dead man pedal

Optional equipment
2 Wheel steer
Oscillating Axle
Continuous Rotation
Onboard generator (3.50 kVA)
230V power input with differential circuit-breaker
Predisposition of water
Working light
Special paint
Biodegradable oil
Warning Alarm for all movements
Warning Travel Alarm
Catalytic Convertor
Spark Arrester and overun valve
Anti Theft code
18" Wheels
Certificate of verification
Safety harness
High capacity battery



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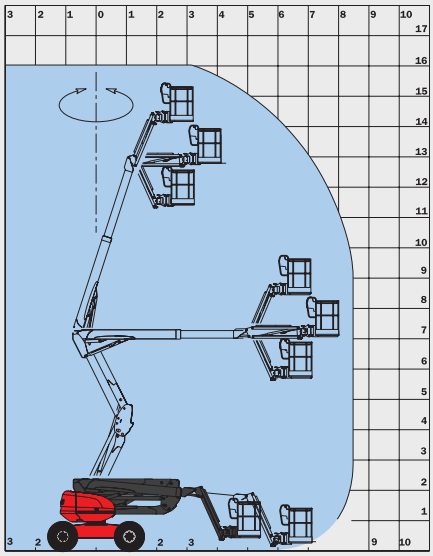
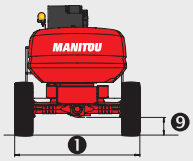
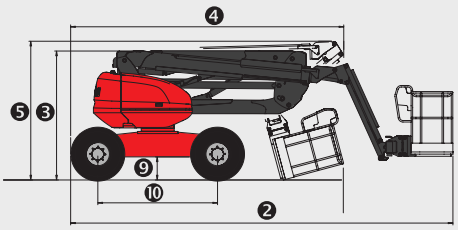
FT041EN_A_0313_160ATJ.indd

160 ATJ +

	160 ATJ +
Working height	16.25 m
Platform height	14.25 m
Articulation height	7.00 m
Outreach	8.95 m
Jib tilting	+70°/-70°
Basket rotation	+90°/-90°
Turret rotation	350°
Capacity	400 kg
Number of persons (indoor/outdoor)	2/2
Basket (width and length)	2.30 x 0.93 m
1. Overall width	2.30 m
2. Overall length	6.93 m
3. Overall height	2.37 m
4. Overall length when folded	4.94 m
5. Overall height when folded	2.70 m
6. Inside turning circle	1.32 m
7. Outside turning circle	3.68 m
8. Turning Radius (basket)	6.39 m
9. Ground clearance	42.5 cm
10. Wheelbase	2.20 m
Speed of forward movement	6 kph
Working speed	0.80 kph
Maximum slope accessible	40%
Maximum tilt	5° - 9 %
Tyres	18"
Driving wheels	4
Steering/directional wheels	4
Weight (varies according to options & standards of the country)	8100 kg
Engine	KUBOTA V2403-M
Power	45 HP
Environmental noise (LwA)	101 dB

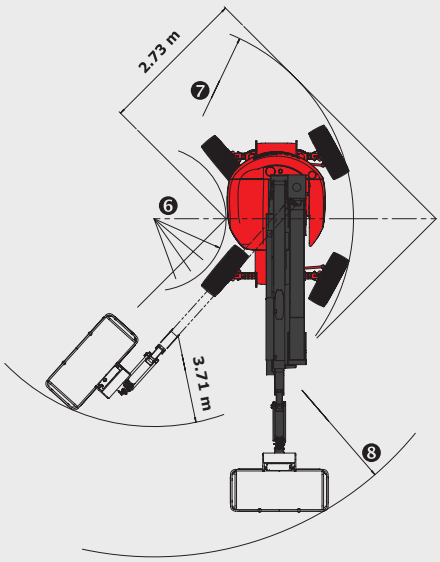






Standard equipment
Large Basket
Proportional levers
4 simultaneous movements
4 wheel drive
4 wheel steer
Wheels crab position
Foam filled tyres
Differential Lock
Front Axle limited slip differential
On Board Diagnostics
Hour meter
Fuel gauge with low level warning
Tool box
Protective cover with optional locking
Horn
Beacon
Audible and visual display alarm for excessive slope
Code Protected Machine Set Up
Hooks for sling loading/lifting
Electric Pump
Predisposition 230V
Dead man pedal

Optional equipment
Oscillating Axle
Continuous Rotation
Onboard generator (3.50 kVA)
Onboard generator (5.50 kVA)
High capacity battery
230V power input with differential circuit-breaker
Predisposition compressed air
Predisposition of water
Working light
Special paint
Biodegradable oil
Warning Alarm for all movements
Warning Travel Alarm
Catalytic Convertor
Spark Arrester and overun valve
Anti Theft code
20" Wheels
Non Marking tyres
Certificate of verification
Safety harness
High capacity battery



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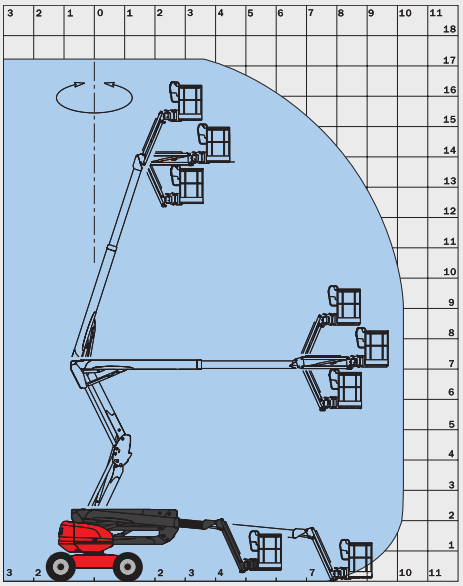
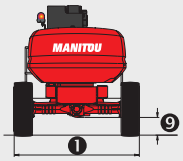
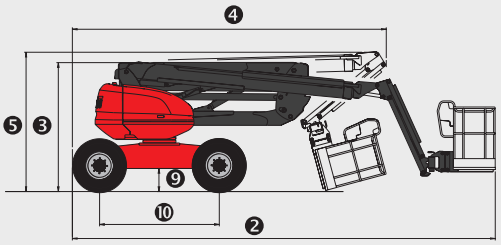
FT042EN_A_0313_160ATJ_PLUS.indd

180 ATJ

	180 ATJ
Working height	17.65 m
Platform height	15.65 m
Articulation height	7.15 m
Outreach	10.60 m
Jib tilting	+70°/-70°
Basket rotation	+90°/-90°
Turret rotation	350°
Capacity	230 kg
Number of persons (indoor/outdoor)	2/2
Basket (width and length)	1.80 x 0.80 m
1. Overall width	2.30 m
2. Overall length	7.77 m
3. Overall height	2.37 m
4. Overall length when folded	5.77 m
5. Overall height when folded	2.53 m
6. Inside turning circle	1.32 m
7. Outside turning circle	3.66 m
8. Turning Radius (basket)	6.87 m
9. Ground clearance	42.5 cm
10. Wheelbase	2.20 m
Speed of forward movement	6 kph
Working speed	0.80 kph
Maximum slope accessible	40%
Maximum tilt	5° - 9%
Tyres	18"
Driving wheels	4
Steering/directional wheels	4
Weight (varies according to options & standards of the country)	8090 kg
Engine	KUBOTA V2403-M
Power	45 HP
Environmental noise (LwA)	101 dB

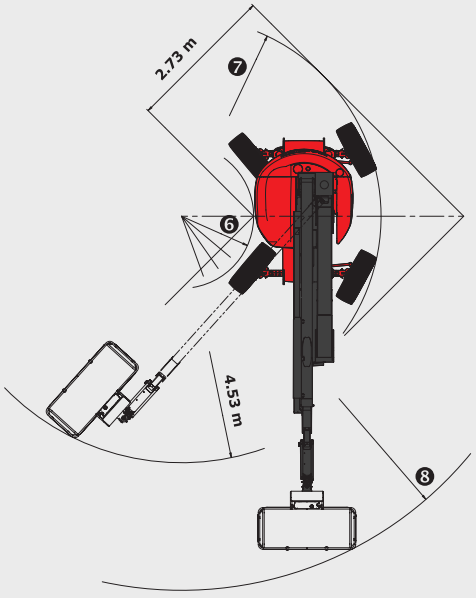






Standard equipment
Proportional levers
4 simultaneous movements
4 wheel drive
4 wheel steer
Wheels crab position
Foam filled tyres
Differential Lock
Front Axle limited slip differential
On Board Diagnostics
Hour meter
Fuel gauge with low level warning
Tool box
Protective cover with optional locking
Horn
Beacon
Audible and visual display alarm for excessive slope
Code Protected Machine Set Up
Hooks for sling loading/lifting
Electric Pump
Predisposition 230V
Dead man pedal

Optional equipment
Oscillating Axle
Continuous Rotation
Wide Basket (2m10 x 0m80) with 20"
Onboard generator (3.50 kVA)
230V power input with differential circuit-breaker
Predisposition compressed air
Predisposition of water
Working light
Special paint
Biodegradable oil
Warning Alarm for all movements
Warning Travel Alarm
Catalytic Convertor
Spark Arrester and overun valve
Anti Theft code
20" Wheels
Non Marking tyres
Certificate of verification
Safety harness
High capacity battery



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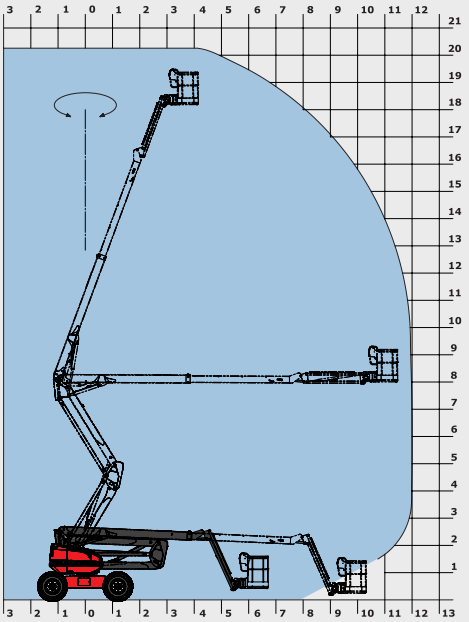
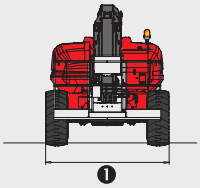
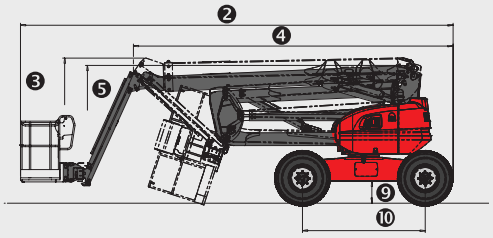
FT043EN_A_0313_180ATJ.indd

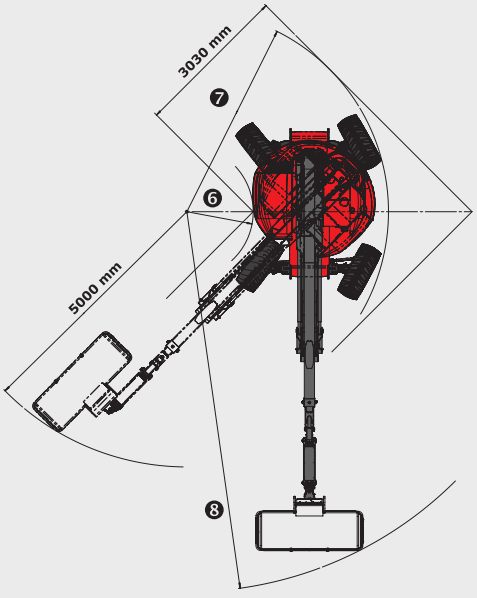
200 ATJ

	200 ATJ
Working height	20.00 m
Platform height	18.00 m
Articulation height	8.00 m
Outreach	12.00 m
Jib tilting	+70°/-70°
Basket rotation	+90°/-90°
Turret rotation	355°
Capacity	230 kg
Number of persons (indoor/outdoor)	2/2
Basket (width and length)	2.10 x 0.80 m
1. Overall width	2.40 m
2. Overall length	8.50 m
3. Overall height	2.70 m
4. Overall length when folded	6.30 m
5. Overall height when folded	3.15 m
6. Inside turning circle	1.30 m
7. Outside turning circle	3.95 m
8. Turning Radius (basket)	7.45 m
9. Ground clearance	43 cm
10. Wheelbase	2.40 m
Speed of forward movement	4.70 kph
Working speed	0.80 kph
Maximum slope accessible	40%
Maximum tilt	5° - 9%
Tyres	20"
Driving wheels	4
Steering/directional wheels	4
Weight (varies according to options & standards of the country)	10000 kg
Engine	KUBOTA V2403-M
Power	45 HP
Environmental noise (LwA)	101 dB









Standard equipment
Proportional levers
4 simultaneous movements
4 wheel drive
4 wheel steer
Wheels crab position
Foam filled tyres
Differential Lock
Front Axle limited slip differential
On Board Diagnostics
Hour meter
Fuel gauge with low level warning
Tool box
Protective cover with optional locking
Horn
Beacon
Audible and visual display alarm for excessive slope
Code Protected Machine Set Up
Hooks for sling loading/lifting
Electric Pump
Predisposition 230V
Dead man pedal

Optional equipment
Oscillating Axle
Continuous Rotation
Onboard generator (3.50 kVA)
Onboard generator (5 kVA)
230V power input with differential circuit-breaker
Predisposition compressed air
Predisposition of water
Working light
Special paint
Biodegradable oil
Warning Alarm for all movements
Warning Travel Alarm
Catalytic Convertor
Spark Arrester and overun valve
Anti Theft code
Certificate of verification
Safety harness
High capacity battery

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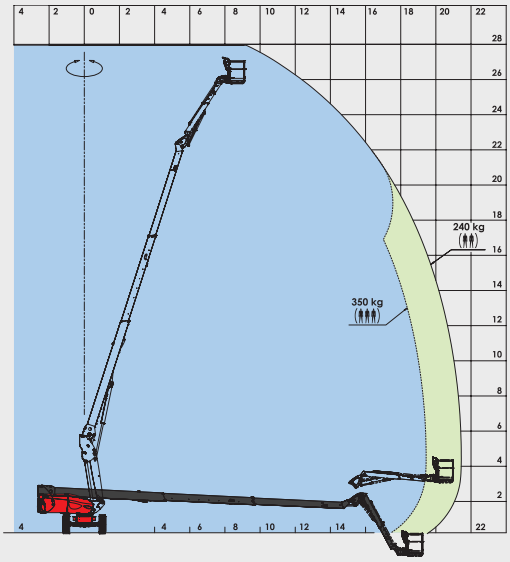
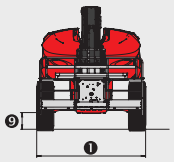
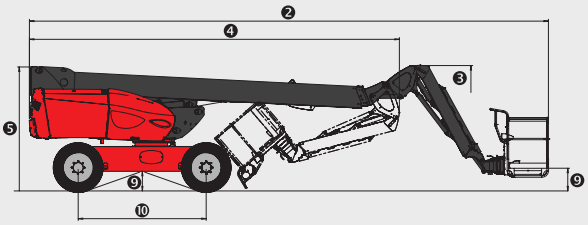
FT044EN_A_0313_200ATJ.indd

280 TJ

	280 TJ
Working height	27.75 m
Platform height	25.75 m
Outreach	21.45 m
Jib tilting	+70°/-70°
Basket rotation	+90°/-90°
Turret rotation	continuous
Capacity	350 kg (3 pers.) 240 kg (2 pers.)
Basket (width and length)	2.30 x 0.90 m
1. Overall width	2.43 m
2. Overall length	11.35 m
3. Overall height	2.75 m
4. Overall length when folded	8.04 m
5. Overall height when folded	2.72 m
6. Inside turning circle	2.00 m
7. Outside turning circle	4.33 m
8. Turning Radius (basket)	9.75 m
9. Ground clearance	43 cm
10. Wheelbase	2.80 m
Speed of forward movement	4.70 kph
Working speed	0.80 kph
Maximum slope accessible	40 %
Maximum tilt	4°
Tyres	385/45-28
Driving wheels	4
Steering/directional wheels	4
Weight (varies according to options & standards of the country)	16500 kg
Engine	KUBOTA V2403-M
Power	45 HP
Environmental noise (LwA)	105 dB

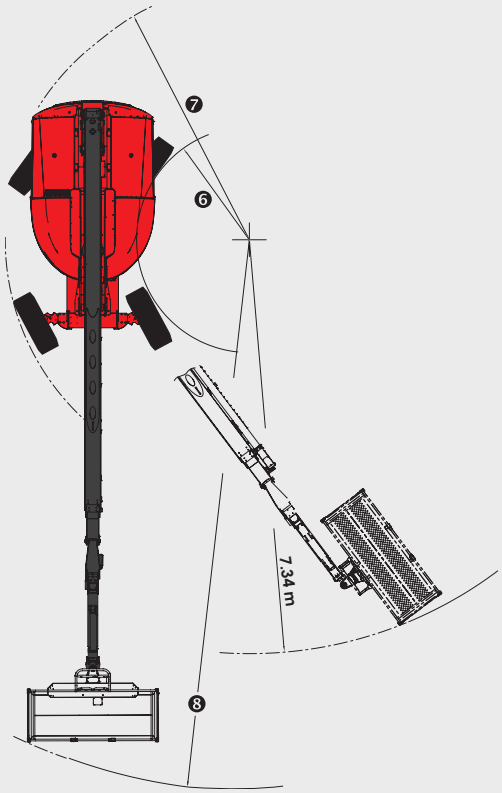






Standard equipment
Telescopic Jib
Oscillating front axle
Continuous Rotation
Large Basket
Proportional levers
4 simultaneous movements
4 wheel drive
4 wheel steer
Wheels crab position
Mouvements X/Y (horizontaux, verticaux)
Foam filled tyres
Differential Lock
Front Axle limited slip differential
On Board Diagnostics
Hour meter
Fuel gauge with low level warning
Tool box
Protective cover with optional locking
Horn
Beacon
Audible and visual display alarm for excessive slope
Code Protected Machine Set Up
Hooks for sling loading/lifting
Electric Pump
Predisposition 230V
Dead man pedal

Optional equipment
Onboard generator (5 kVA)
230V power input with differential circuit-breaker
Predisposition compressed air
Predisposition of water
Working light
Special paint
Biodegradable oil
Warning Alarm for all movements
Warning Travel Alarm
Catalytic Convertor
Spark Arrester and overun valve
Anti Theft code
Certificate of verification
Safety harness



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