Track-mounted aerial platform

LIGHT LIFT 23.12

HINOWA SPA Via Fontana - 37054 NOGARA - VERONA (ITALY) Tel. +39 0442 539100 Fax +39 0442 539075
hinowa@hinowa.it - www.hinowa.com

Many have dreamt about it, thought about it, wanted it, but Hinowa has made it: The new Hinowa LL 23.12 track-mounted platform

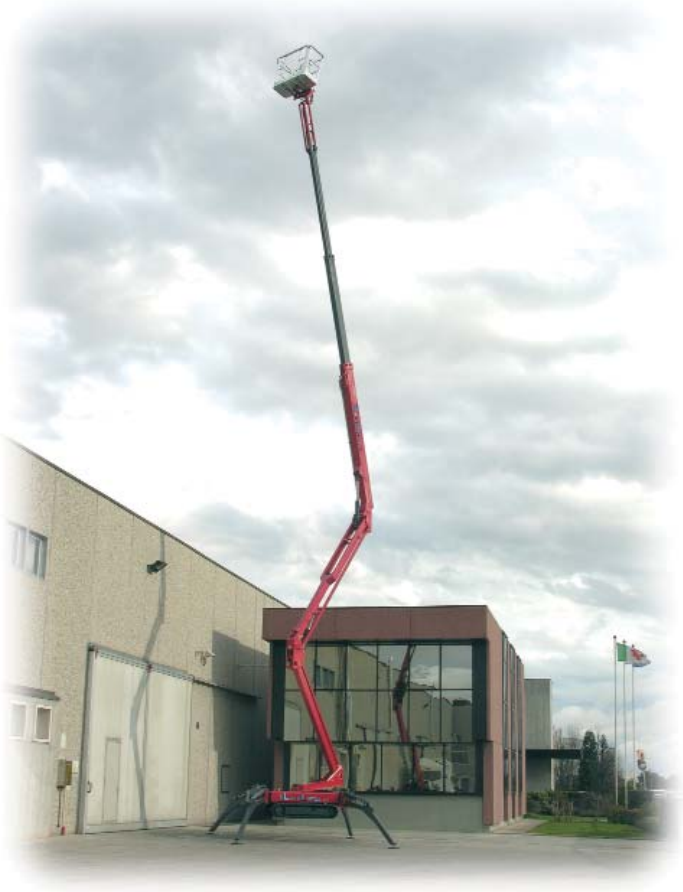
PERFORMANCE

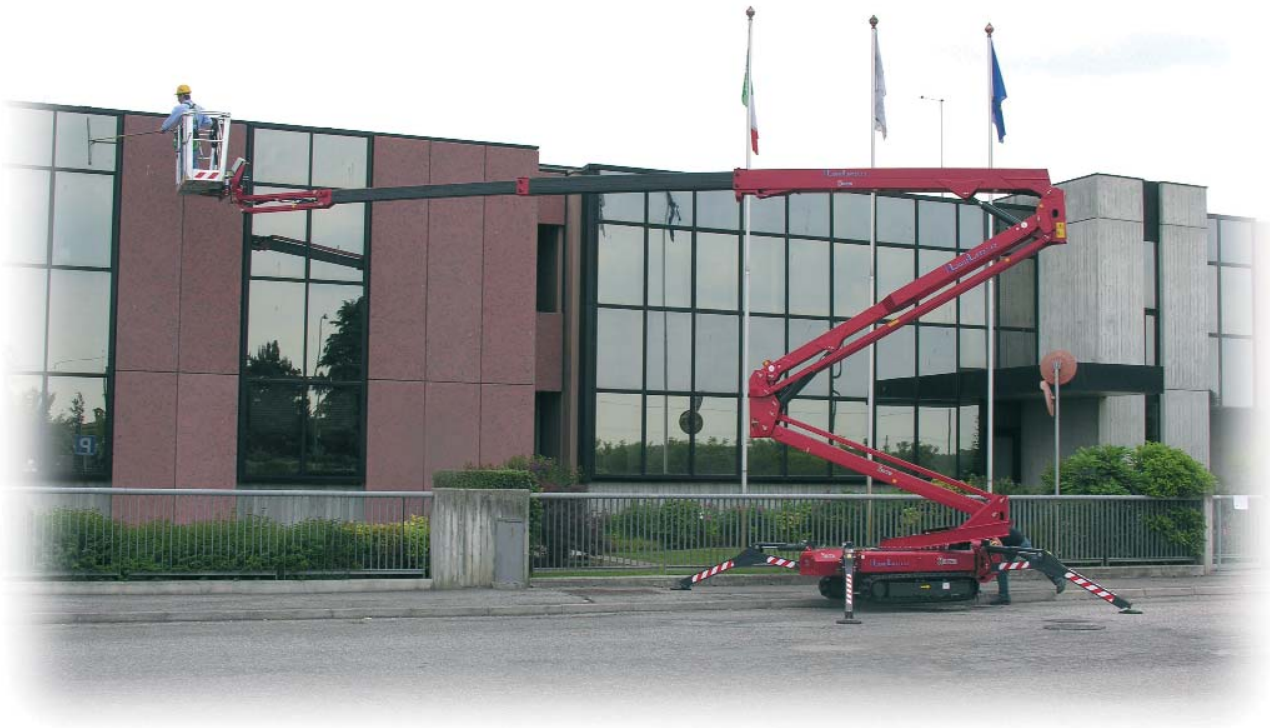
This new Hinowa platform is a concentrate of performance and leading-edge technology.

The **weight, just 3000 kg** (petrol version), is one of the features that make it unique.

A platform that can reach a **working height of 23 metres and a horizontal outreach of 12 metres**, and that can be transported on the apposite trailers, did not exist until now.

The vertical working area reaches a height of 12 metres with no need to adjust the extension.

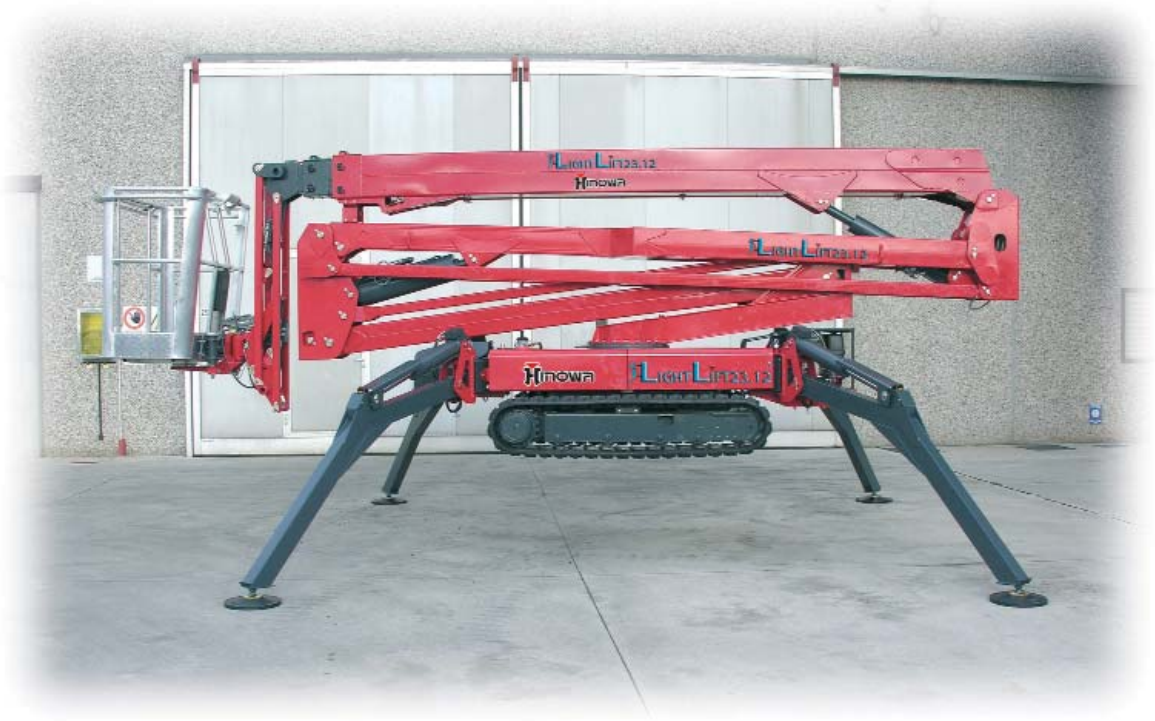




STABILISATION

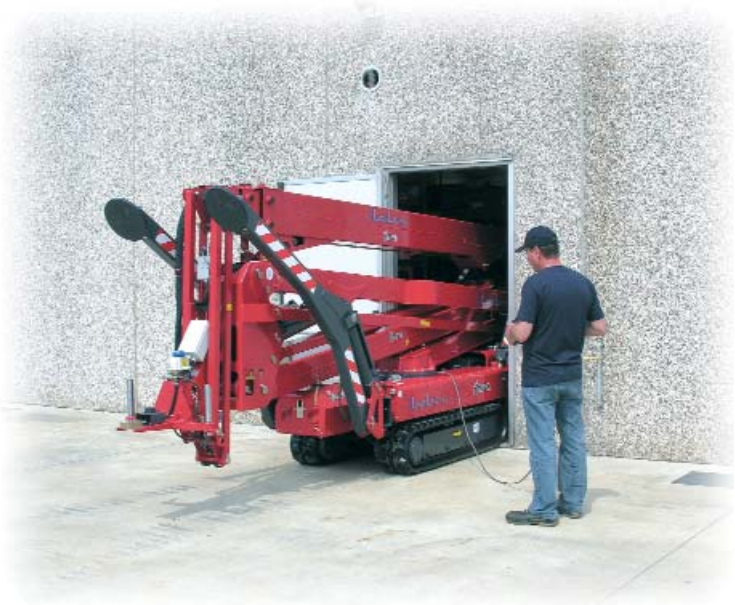
Stabilisation is automatic, even on slopes with gradient up to 13°.

Even less expert operators can easily stabilise the platform in a perfectly horizontal position by pressing just one button.



COMPACT CONFIGURATION

Despite being a very high performance platform, it is surprisingly compact, and **passes through doors measuring only 1 metre in width and 2 metres in height.**



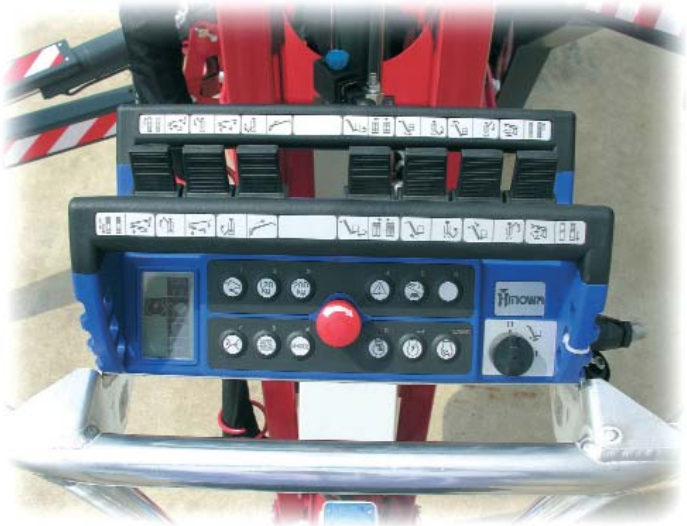
EASY LOADING ON RAMPS

Its shape has been especially designed to improve operations on ramps, reaching an entry angle of 24°.

CONTROL AND TROUBLESHOOTING OVER THE WEB

The new remote control features a display with self-diagnosis, fault signals and suggestions on best operation.

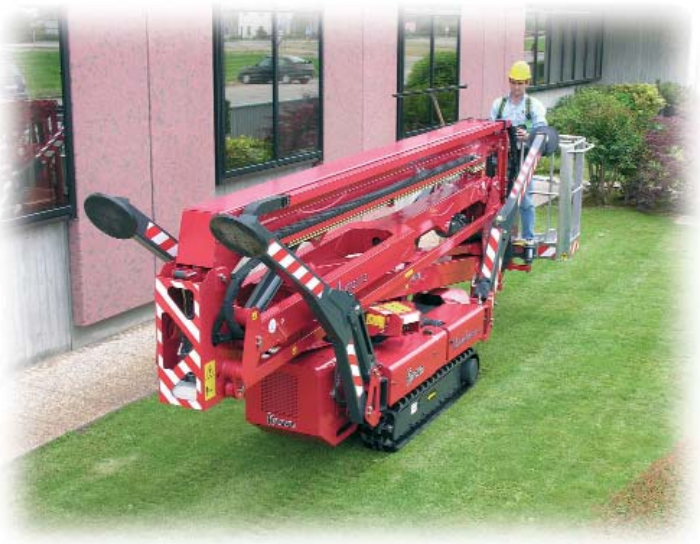
The display can be accessed directly via the web by HINOWA's service engineers, who can thus offer all users real-time support.

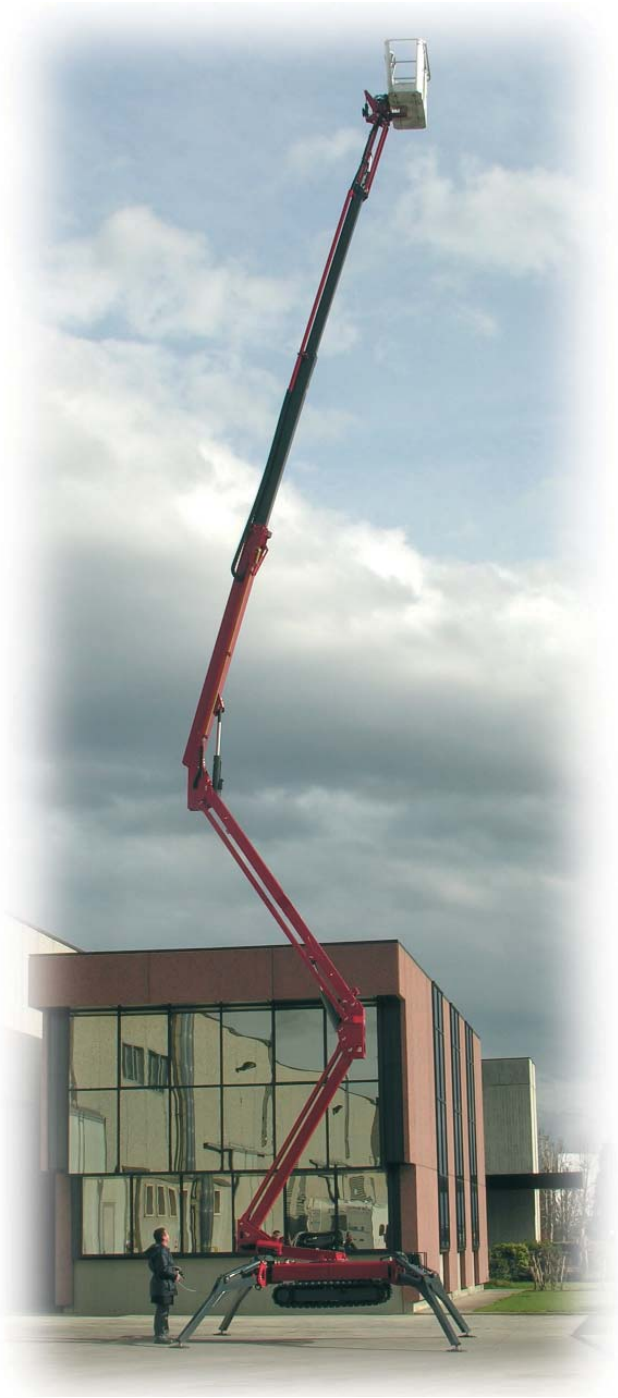


REMOTE CONTROL

The new remote control allows the machine to be controlled with one hand only, thanks to the use of the so-called OPERATOR PRESENT pedal in the cage.

The remote control can be used to operate the tracks from both the cage and the ground.





The new remote control also allows return movements to be performed in the event of a loss of stability.

NEW CANBUS DATA TRANSMISSION SYSTEM

This new system ensures the transmission of data and perfect control over all movements and the speed with millimetre precision, while at the same time simplifying and strategically reducing traditional wiring.

SAFETY FIRST

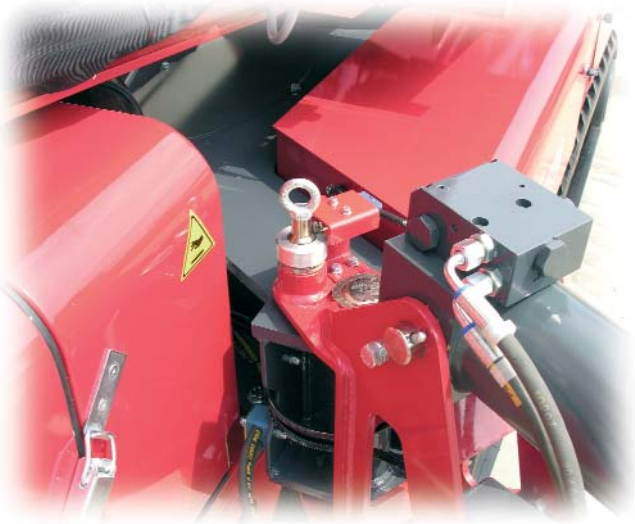
Safety and operator comfort have been designed and developed with solutions that ensure maximum reliability. All the components have been tested under extreme stress conditions so as to guarantee and certify the tests performed in terms of both resistance and durability.

NO CHANCE OF MISTAKES

There are no limits to the extension of the arm, in fact no electronic control devices are provided for this purpose. The machine is perfectly stabilised and is absolutely STABLE and SAFE.

STABILISERS WITH SAFETY LOCKING

To stabilise the machine it is necessary to open the stabilisers: after turning 45° on their own axis, these are locked in place mechanically by a new system with non-removable spring return.
This eliminates:
- the use of chains;
- the chance of oversights;
- the chance of sabotage.



MOVEMENT CONTROL

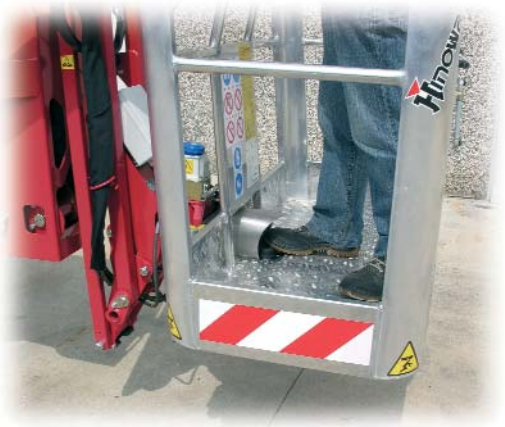
All the movements of the cage are controlled electronically; every start and every stop is controlled, decelerated or accelerated sequentially, avoiding abrupt and dangerous movements.

SAFETY RETURN

In the event of a loss of stability, the return operations can be performed to bring the operators to safety.

OPERATOR PEDAL ON BOARD

The cage is provided with a protected pedal that, if not pressed, prevents all operations from the cage, so as to ensure that a conscious and expert operator is present at all times during manoeuvres.



ELECTRONIC LEVEL

The electronic level control continuously ensures the perfect stabilisation of the platform, preventing all possibility of movement if the safety criteria are not met.

PATENTED LOAD CELL

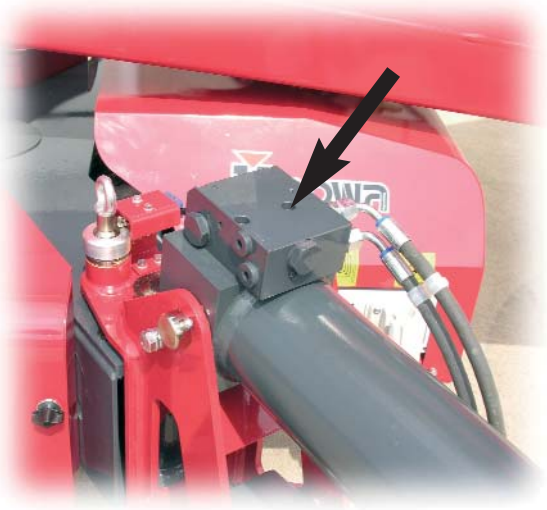
The cage is mounted on vertical recirculating ball bearings and connected to a patented load control system.
This solution eliminates all possibility of error due to friction or other mechanical systems, and perfectly controls the weights that are loaded in the cage; if the set limits are exceeded, all movements are disabled, and the overload condition is displayed.

EMERGENCY DESCENT

In the event of faults all the aerial movements of the platform can be controlled from the cage, using the remote control with the engine off.
In addition, the emergency descent can be managed using the manual hydraulic pump from the ground.

DUAL STOP VALVES ON THE STABILISERS

All the stabilisers on the Hinowa platforms feature double stop valves, so as to prevent even the slightest hydraulic leak and guarantee perfect stabilisation for an extended time.



ROTATION

The patented HINOWA rotation system allows staged 360° rotation.

CAGE ROTATION

As well as the 360° rotation of the arm, a hydraulic cage rotation system with actuator is provided, allowing rotation of the lifted cage up to 124°, and thus ensuring a larger working area.

ELECTRICAL AND AIR OUTLETS IN THE CAGE

The operator can use the electrical and compressed air outlets located directly in the cage. Obviously, the platform can deliver power or compressed air when connected to the corresponding utilities on the ground.

TWO ENGINES

The options available are a HONDA iGX440 - 15 HP petrol engine, or a PERKINS 402.05 - 14 HP, two-cylinder, water-cooled diesel engine.
In addition, a 230-110 volt electric motor to be used when it is necessary to operate the machine in places where no noise or exhaust fumes are allowed is fitted as standard.

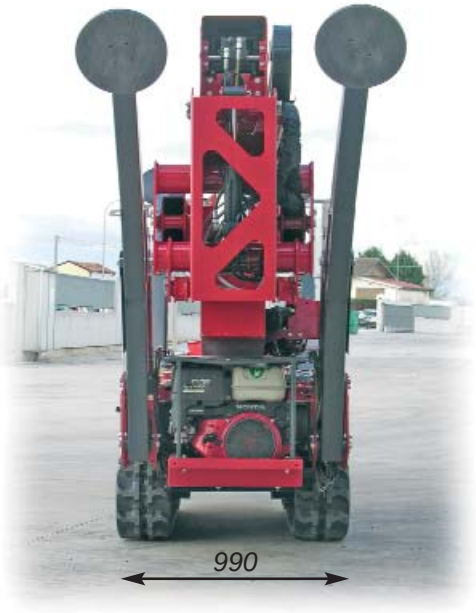
PROTECTION ON ALL THE COMPONENTS

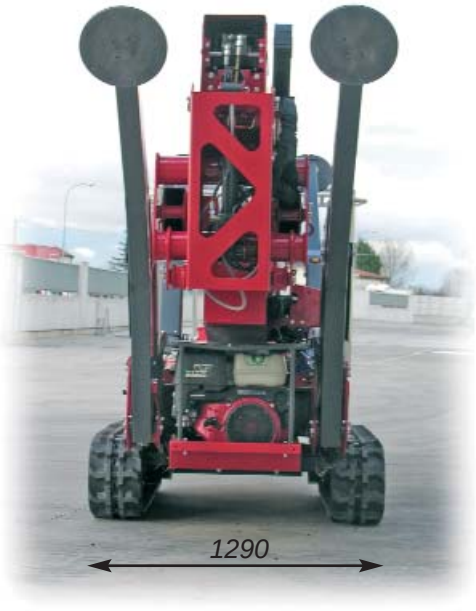
To avoid damage due to falling objects, such as tree branches, all the components are enclosed and protected by a sturdy steel plate structure.

SPECIAL TRACKED UNDERCARRIAGE

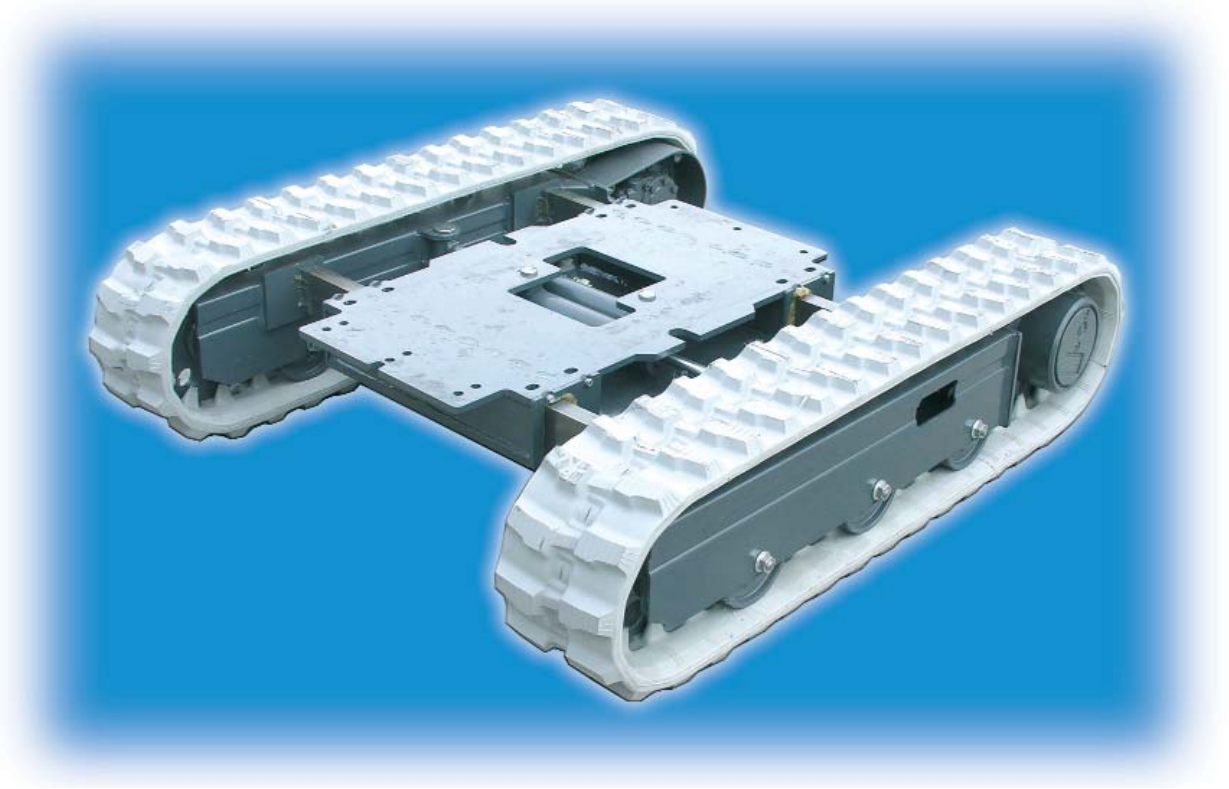
The interchangeable rubber tracks guarantee uniform travel and greater durability.

The 990-1290 cm hydraulic extension of the carriage ensures greater stability on rough terrain.





Upon request, white non-marking tracks can be fitted.



Two travel speeds are available, with automatic speed change.

ADVANTAGES

The main advantages offered by the new HINOWA LL 23.12 track-mounted aerial platform are the following:

1) Best performance in its class
   - 23 metres in height
   - 12 metres in outreach
   - 3000 kg in weight (petrol version)
2) No electronic sensors to control the outreach, which ensures total safety.
3) Two emergency descent modes, electric and manual.
4) Automatic stabilisation on any ground, on slopes with gradient up to 13°.
5) Electronic display that indicates any errors or faults and suggests solutions.
6) Possibility of remote service directly with HINOWA engineers, worldwide.
7) Patented 360° rotation of the arm.
8) 180° rotation of the cage.
9) No more grease nipples on the pins, thanks to the new lifetime self-lubrication technology.
10) Non-removable spring locking of the stabilisers.
11) Honda 15HP petrol engine.
12) Perkins 14 HP two-cylinder, water-cooled diesel engine, optional.
13) Electric motor.
14) Two travel speeds.
15) Power and air outlets in the cage as standard.
16) Hydraulic track extension.
17) Dual stop valves on the stabilisers cylinders.
18) Full steel plate cover to protect all the mechanisms.
19) Electronic level control that prevents all movements if the platform is not perfectly stabilised.
20) Electronic load cell that prevents all movements in the event of overloads.
21) Stabilisers with Teflon disks featuring a large support surface.
22) Best price in its class.
23) Best prices on spare parts.
24) Service staff and operator training.
25) Guaranteed service.

CONCLUSIONS

The perfect platform from all points of view, ideal for pruning, gardening, painting, sculpting, system installation and maintenance, restoration and for hire.

COMPACT - goes anywhere

SIMPLE - moves on all terrain

ECONOMICAL - low maintenance, low cost

SAFE - fully tested

RELIABLE - based on our extensive experience