



EIP

ELECTRICALLY ISOLATED PLATFORM

The safest way to work at heights in the potroom

How it works

The EIP / Electrically Isolated Platform is a manlift provided with electrical isolation and protected against magnetic fields.

The Hall-Heroult electrolytic process used in the production of aluminium requires a special electrical configuration and grounding approach. Live parts up to several hundreds volts are within reach in certain grounding configurations. For this reason, special tools are required during operation and maintenance activities to protect workers against electrical hazards (touch and step voltages) or equipment fires.

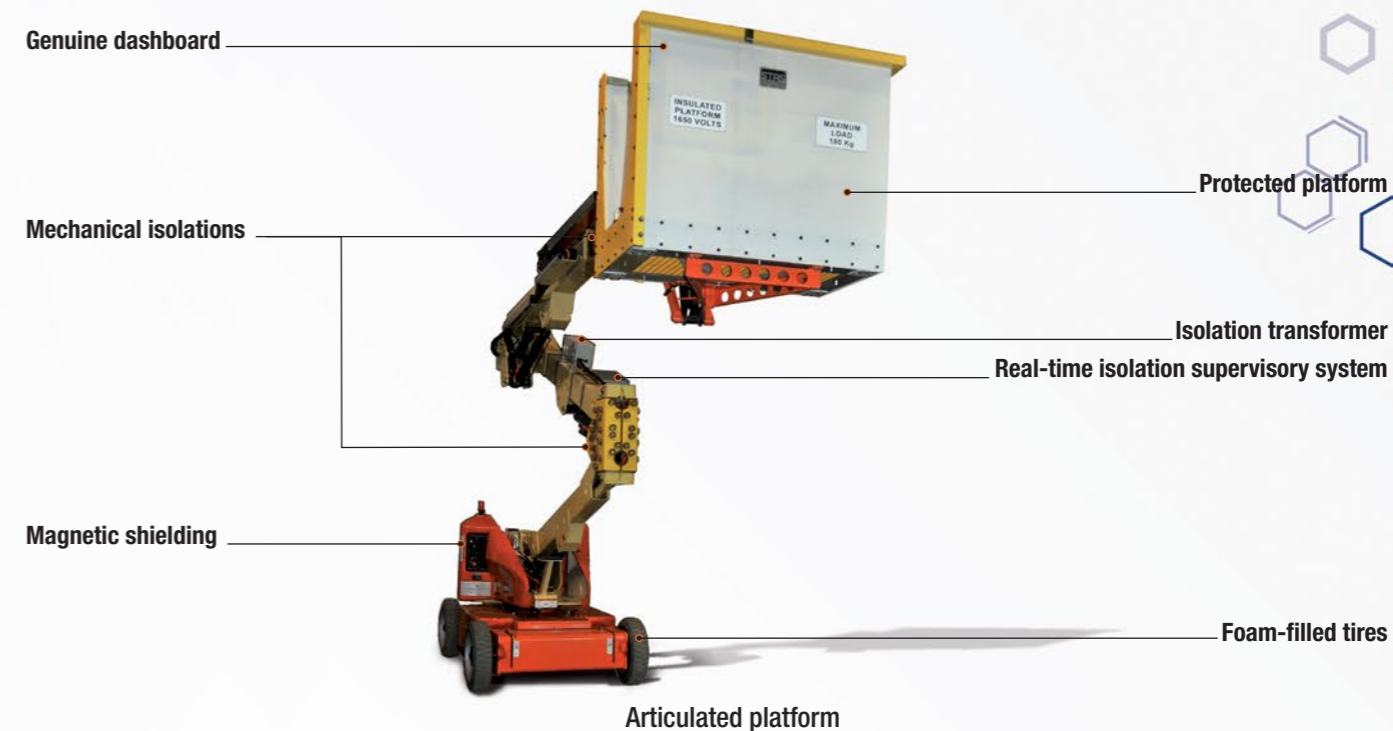
Thanks to its multiple levels of isolation, the EIP virtually eliminates electrical hazards by preventing the circulation of an electric current between the platform and the ground. An industrial manlift is adapted by the addition of very specific isolation material at specific locations on the machine. Those modifications eliminate the possibility of short circuits between the elements of the machine in the case where there would be a physical contact with two different electrical potentials in the potroom arises. In normal operation, the worker who takes place on the platform can safely access any grounded structure even if the manlift touches a live part on the process.

An important option of the EIP is its Realtime Isolation Supervisory System (RISS). The RISS validates continuously the internal isolation of the manlift using STAS' proprietary instrumentation. If, for any reason, this electrical isolation is broken, the platform operator, while still protected against electrical shocks thanks to a second level of isolation, is immediately informed by an alarm that an isolation is not performing its function. It is then still possible to come back safely to the maintenance shop for repair.

Strong magnetic fields are present in potrooms, and the equipment dedicated to such environment must remain safe and reliable. The magnetic field can affect sensitive components such as motors, relays, Hall effect captors, solenoids, etc. This can have a major impact on the equipment behavior. The added magnetic shield protects these components against any malfunction that could lead to an undesirable operation of the machine. On the other hand, magnetic attraction may also affect the performance of the equipment.

Key features

- > Registered, approved lifting equipment.
- > Up to 2500V isolation or adapted to potline voltage.
- > Three isolation barriers, from ground level.
- > Genuine functionalities maintained.
- > No electrical, mechanical or hydraulic links between the platform and the vehicle.
- > 200 kg live load capacity.
- > Entirely autonomous.
- > Powered by diesel engine or battery.
- > CSA and ANSI approved.
- > Suitable for use in very high magnetic fields (up to 500 Gauss).



Other models available



Options available

- > 110 V or 220 V isolated utility power outlet in the platform.
- > Real-time isolation supervisory system (RISS).
- > Compressed air line in the platform.
- > Working lights.

Typical specifications

Models	Main unit stowed Overall dimensions			Load capacity	Reach		
	Length (mm)	Width (mm)	Height (mm)		Long. (mm)	Transv. (degrees)	Height (mm)
Scissor	2070*	775*	2110*	177 kg	1200	0°	5800
Articulated	5700*	1500*	1650*	190 kg	6700	360°	11 143
Telescopic	12 500*	2420*	2540*	200 kg	13 540	180°	18 300
Truck-mounted	3470*	1160*	2540*	228 kg	0	0°	5800

* May be adapted to basic equipment chosen

** Specifications may change without notice

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