



**A**  
**GEAR-MOTOR WITH GEARS IN OIL BATH**

The gearmotor unit is made with helical-toothed steel gears in oil bath. The helical-toothed allows quieter running of the gearmotor, while the use of oil as lubricant offers higher protection and lengthens the life of the machine.

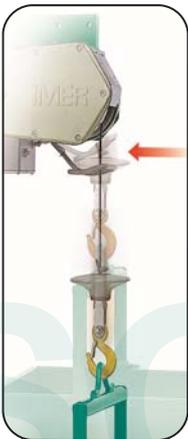
**GUARANTEED AGAINST SELF-ENERGISING**

The self-energising phenomenon, caused by a current failure during the downward movement at full load, tends to increase the speed up to compromising the hoist and support structure. All our hoists are guaranteed against the phenomenon and always keep



**B**  
**DRUM TRANSVERSE TO THE MOUNTING BRACKET**

The steel rope cable drum is installed transverse to the mounting bracket, this improves smooth winding and eliminates dangerous accumulation of the rope on one side only, caused by flexing of the support structures.



**C**  
**UPPER LIMIT SAFETY DEVICE**

All hoists are fitted with an upper limit safety device with positive drive by thrust spring that stops the upward movement of the load in the highest point.

**ARS DEVICE (ANTI REWINDING SYSTEM)**

Models TR 225N, TR 225 2VN are fitted with the ARS device. This exclusive, lever/limit switch patented by Imer prevents reversing of the rope winding on the drum and keeps the machine damage-free.

**ELECTRIC CABLES WITH NEOPRENE COATING**

The electric cables and the pendant control cable type H07RN-F or A07RN-F are coated with Neoprene. This type of cables is advisable in on-site use, as it is highly resistant to mechanical stresses and atmospheric agents.

**THERMAL PROTECTION**

Total protection against overload. The TR 225 N, model is fitted with thermal protection or an overheat safety switch. The device controls the motor electrical input and turns it off in the event of overload, preventing damage to the machine.

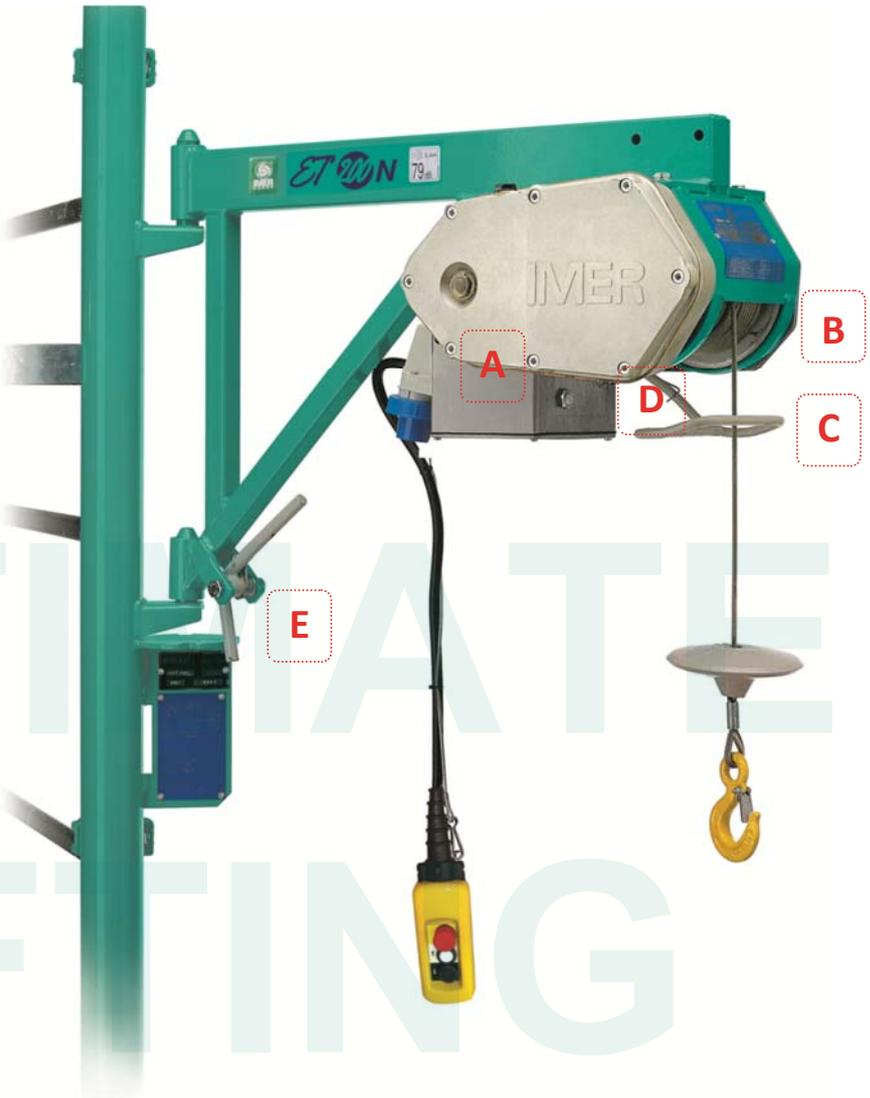
**CONTROLLED AND GUARANTEED PERFORMANCE**

On-site electricity is subject to fluctuations: for this reason the capacity of our hoists is guaranteed for a comprehensive voltage change, from 210V to 235V. A change within these limits does not cause reductions of the hoist capacity.



**D**  
**DRUM WITH TWO FIXED TURNS OF STEEL ROPE**

To warrant higher machine reliability and longer life, the drum is built with a special patented device, which when the metal rope is completely unwound, keeps two turns always wound. This prevents straining the rope attachment point on the drum.



**E**  
**WORK POSITIONING LEVER**

The work positioning lever prevents dangerous rotation of the load that occurs during lifting or lowering operations. This device eliminates the risk of uncontrolled movement of the load, reducing risks for the operator and for damage to structures.



**RECYCLABLE PACKING**

All Imer hoists are packed in cardboard boxes and kept in place by air cushions to prevent damage during transport.

**NORMATIVE REFERENCES**

- Compliance with the requirements of Machine Directive (2006/42/EC)
- Compliance with EEC Directives (2006/95/EC, 2004/108/EC, 2000/14/EC)
- The following Harmonised Standards have been applied: EN ISO 12100-1-2, EN 60204-1