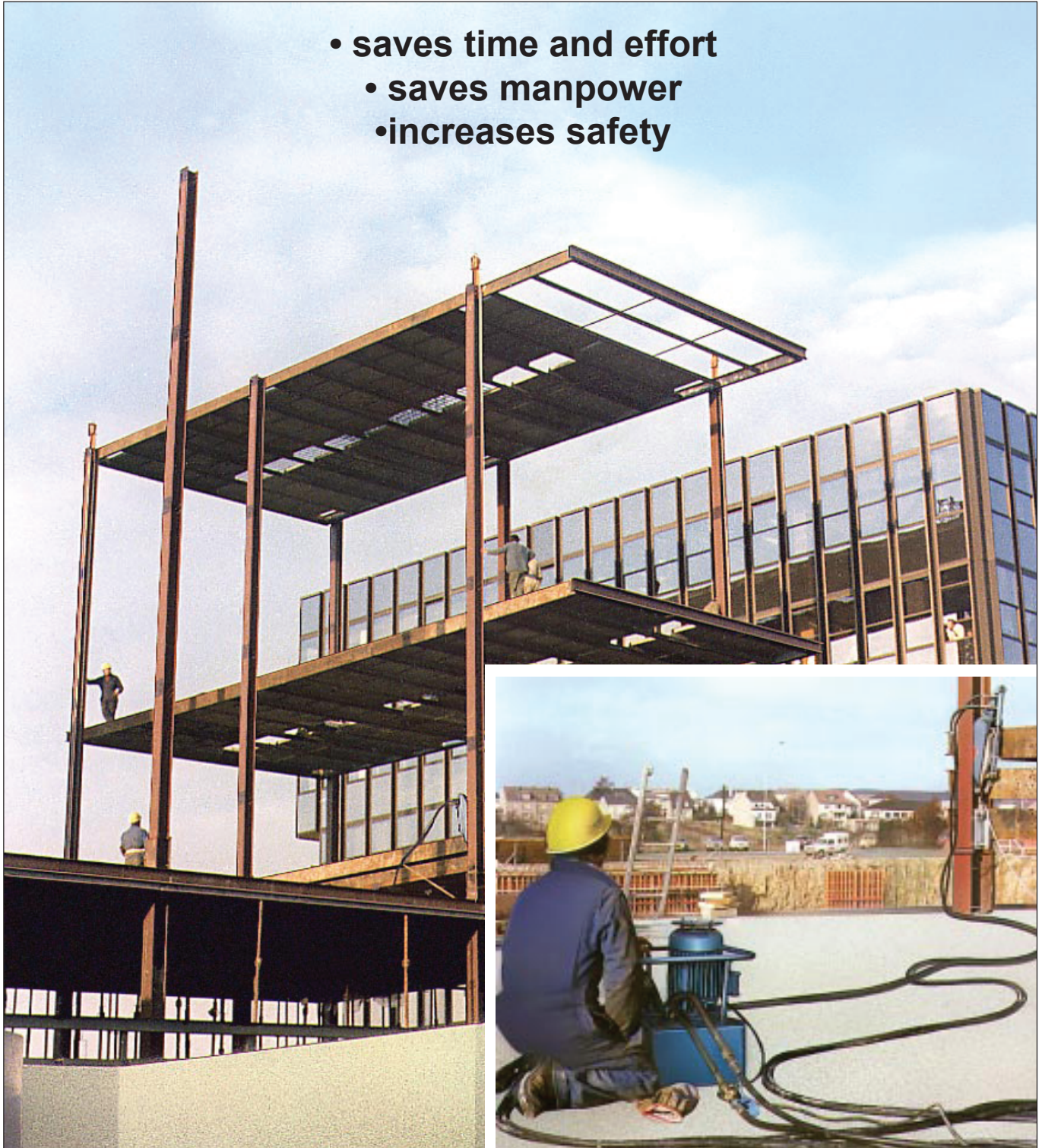


# motorized griphoist<sup>®</sup> - tirfor<sup>®</sup>

power-operated hoists for lifting and pulling

- saves time and effort
- saves manpower
- increases safety



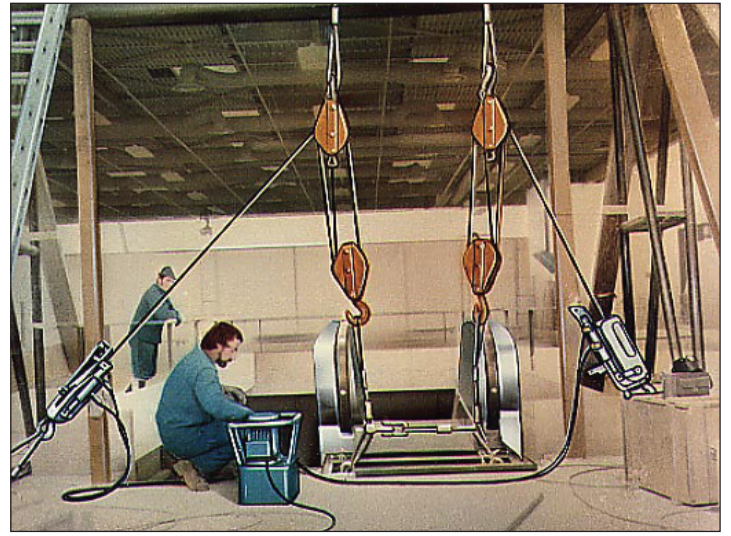
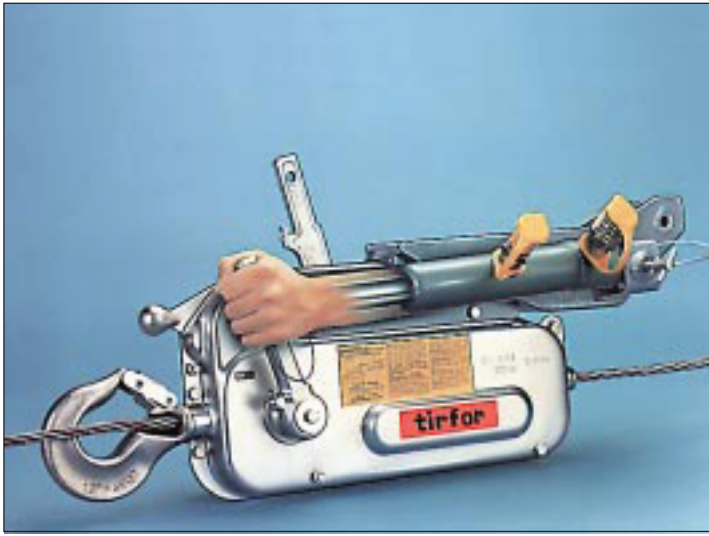


Fig. 3 - Installation of a mechanical escalator (TU-28H). The nominal capacity is increased by using multiple sheave blocks.

Power-operated GRIPHOIST machines are based on the manual GRIPHOIST but with specially strengthened levers, cranks, spindles and jaw blocks, as well as a special power-operated self-reciprocating ram, which works the GRIPHOIST machine (pulling, lifting, lowering etc) without any effort by the operator.

As a result of its increased specification, the power-operated GRIPHOIST machine is recognised by many companies as an essential tool for certain modern construction techniques (climbing shuttering, work platforms) and for installation work (lifts and goods hoists, mechanical escalators, etc).

Fig. 2- Operation of self climbing shuttering, PERI system (TU-32H).



As with hand operated GRIPHOIST machines, the power-operated models have all the same benefits:

- unlimited length wire rope
- operate in any position
- fast and easy installation
- high level of safety and reliable operation

... to these can be added the specific advantages of power operation:

- no operator fatigue
- fewer operators required since one man can control several machines
- saves time, because work is continuous
- **increased safety since operation can be controlled at a distance, and shear pins prevent overloading**
- **increased precision of operation through the control system**

Motorised GRIPHOIST machines are approved for lifting personnel in the main industrialised countries.

Fig. 4 - Operation of suspended platforms for the inspection and maintenance of bridges (TU-32H).

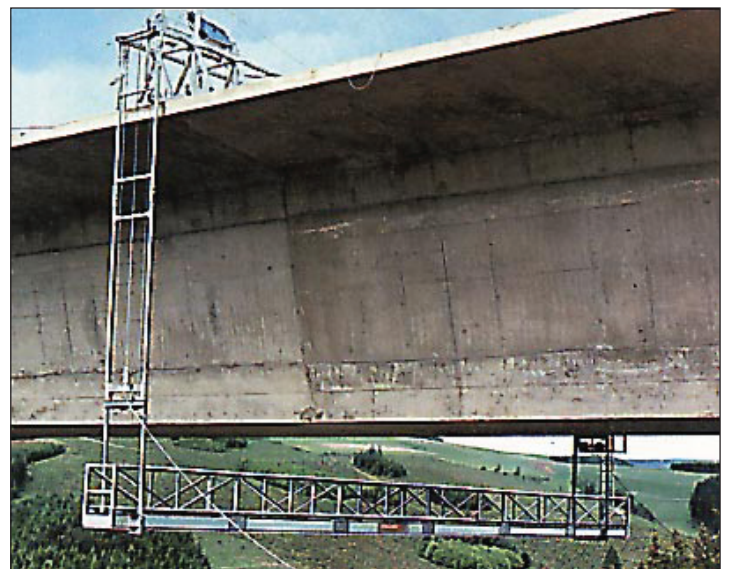




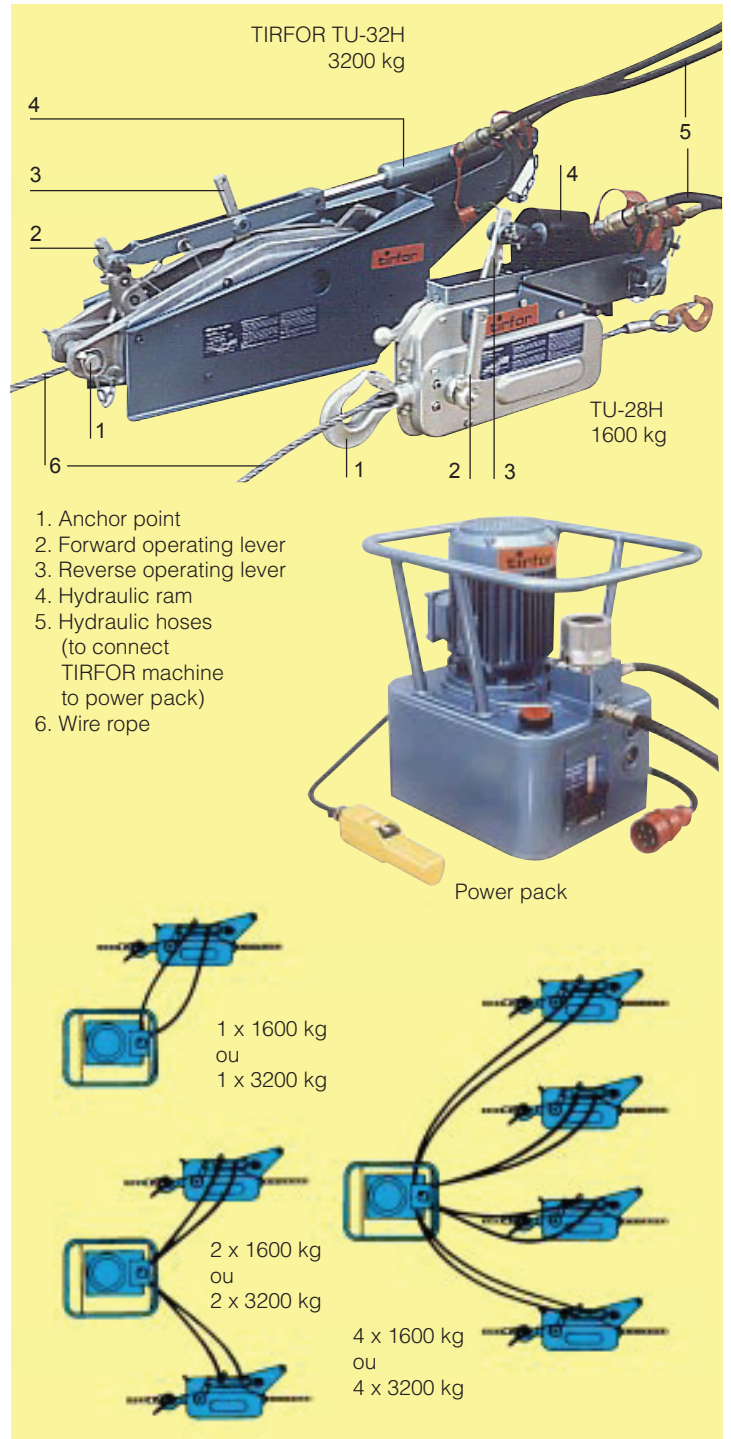
Fig. 5 - Operating of heavy work platforms.

### Hydraulic TIRFOR

The TIRFOR hydraulic system includes a hydraulic power pack which allows remote operation (individually or simultaneously) of one, two or four machines: TIRFOR TU-16H (1600 kg) or TU-32H (3200 kg), each fitted with a self reciprocating hydraulic ram.

The hydraulic power pack is fitted with an electric motor or petrol engine. It is also possible to utilise the hydraulic power take-off from a lorry, tractor or other existing power source. The speed of operation is controlled using a variable flow control valve. Of course, it is always possible to operate the TIRFOR machine by hand using the telescopic operating lever, eg. in case of a power failure.

		TU-16H	TU-32H
Nominal capacity (increase of power by multiple sheave blocks)	kg	1600	3200
Max. speed forward operating (lifting)	m/mn	2	0.7
Max. speed rev. operating (lowering)	m/mn	2.65	1.60
WEIGHT: TIRFOR machine with ram	kg	29	52
hydr. power pack (with oil), elec. mot.	kg		53
as above, but with petrol engine	kg		51
TIRFOR wire rope, diameter	mm	11,5	16,3
standard lenght	m	20	20
(other lenghts available on request)			





**Power-operated GRIPHOIST machines  
... for moving heavy loads**

7. Operation of self-climbing shuttering (the Biemont system).
8. Lifting and installation of a pre-assembled roofing structure at ground level.
9. 72 m suspended platforms fitted with 16 GRIPHOIST TU-28H hoists.
10. Pre-stressed platform (Freyssinet system), fitted with TU-32H hoists.
11. Demolition work. The pulling effort is checked by means of a DYNAFOR load indicating devices.
12. Moving heavy machinery.
13. Moving grandstand seating in an indoor arena.
14. Fitting and removal of a sluice gate.
15. Pulling prefabricated sections of a bridge into position.
16. Assembling drainage pipes.
17. TU-32H hoist as an emergency pulling unit on a fire engine.
18. Lifting an inflatable cover over the Nimes amphitheatre with 32 TU-32H hoists.



P2036GB-6000-05/97 rev.01/16

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