

# Manual Griphoists

## Lifting & Pulling Machines



### Griphoist/Tirfor® – Wire Rope Hoist

The TIRFOR® lifting and pulling machines are safe, reliable and efficient. Suitable for many applications, Tirfor® machines are lever operated hoists using a separate wire rope.

One-man operated, using a telescopic operating handle, they can work in any position and over any height of lift. They can replace conventional winches and other hoists for many applications.

Best uses are in long pulls or when requirements call for increasing capacity.

### Multiple Operation

- works in any position, horizontal, vertical or angled
- unlimited length of wire rope
- increase the nominal capacity with multiple sheave blocks
- long length of wire rope much easier to handle than chain

### Simple

- fast and easy installation and use
- simple to install or remove the wire rope
- continuous operation without jerking
- reduced maintenance with simple cleaning and regular lubrication
- changeover from forward to reverse operation by transferring the operating handle from one lever to another

### Heavy Duty

- high mechanical advantage
- both ranges will operate in the most difficult conditions

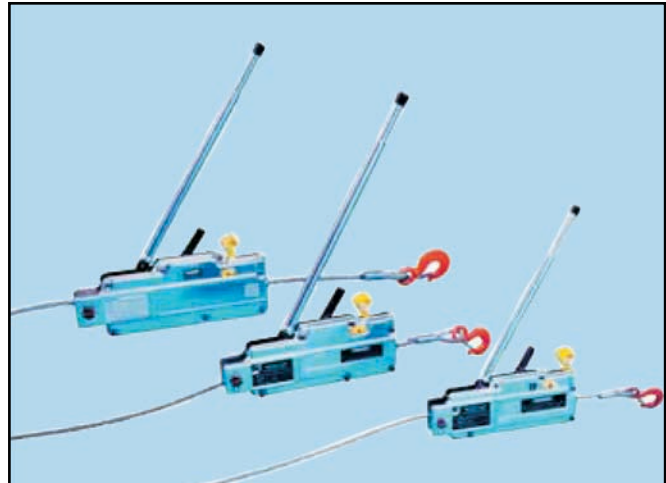
### Safe and Reliable

- the load is always permanently controlled with the utmost precision: when operation stops, the load is distributed on two jaw blocks
- safety shear pin(s) to prevent dangerous overloading
- TU range classified for man-riding applications

*\*Technical sheets available*

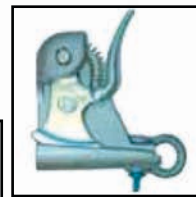


*Powerful: Griphoist-Tirfor® TU machines are in daily operation on construction sites around the world putting power where it is needed for lifting, pulling and handling a wide variety of loads.*



*Choice: Light and compact, the Griphoist-Tirfor® T-500 D machines are easy to handle, provided a high mechanical advantage and are economical.*

### Tirfor® Accessories



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## 1 - 4 Ton Technical Specifications

### Applications

#### Construction, Public Works, Civil Engineering

- moving & positioning formwork horizontally or vertically
- positioning section or precast concrete beams
- lifting work platforms or suspended working platforms
- dragging, general lifting, guying, tensioning, etc.

#### Bridges

- positioning formwork
- guy rope tensioning
- pulling pre-cast concrete beams
- suspending inspection and maintenance platforms

#### Steel Structures

- plumbing or aligning steel structures
- erecting steel silos

#### Industry

- installation & removal of machine tools and presses
- loading & unloading of heavy equipment
- lifting & pulling during maintenance operations

#### Escalators, Elevators

- loading, unloading and rigging of escalators
- lifting & positioning the cars and hoisting mechanisms

### Electricity and Telecommunications

- positioning transformers
- erection of mobile aerials and antennas
- tensioning underground and overhead cables
- guy rope tensioning operations

### Oil and Chemical Industries

- controlled positioning & assembly of pipes & ducting
- tensioning guy ropes for silos & tanks during construction
- inspection & maintenance work



### Specifications

Model	Unit	TU-17	TU-28	TU-32	T-508	T-516	T-532
Rope Travel/Stroke Lifting	in.	2	1.4	.5	2	1.4	5
Nominal Capacity	lbs. (kg)	2,000*/1,500** (800/600)	4,000*/3,000** (1,600/1,200)	8,000*/6,000** (3,200/2,400)	2,000* (800)	4,000* (1,600)	8,000* (3,200)
Machine Weight	lbs. (kg)	18.5 (8.4)	41 (20)	59.5 (27)	14.25 (6.6)	30 (13.5)	51 (24)
Wire Rope Weight	lbs. (kg)	30 ft./9m 8 (3.6)	60 ft./18m 28.9 (13)	30 ft./9m 8 (3.5)	30 ft./9m 8 (3.5)	60 ft./18m 28.9 (13)	30 ft./9m 8 (3.5)
Machine Dimensions	in. (mm)	20 3/4 x 9 3/4 x 4 1/2 (825 x 284 x 113)	26 x 13 x 5 1/4 (660 x 360 x 145)	27 x 13 x 6 1/2 (685 x 365 x 156)	16 1/2 x 9 7/8 x 3 3/8 (420 x 250 x 99)	20 7/8 x 12 7/16 x 5 (530 x 315 x 127)	24 7/16 x 14 x 5 1/2 (631 x 357 x 148)
Handle Ext./Closed	in. (mm)	28/18 (730/450)	45/26 (1147/648)	45/26 (1147/648)	27/16 (690/405)	45/26 (1147/648)	45/26 (1147/648)
Wire Rope Diameter	in. (mm)	5/16 (8.3)	7/16 (11.5)	5/8 (16.3)	5/16 (8.3)	7/16 (11.5)	5/8 (16.3)
Min. W.R. Breaking Strain	lbs. (kg)	10,000 (4,500)	20,000 (9,000)	40,000 (18,000)	10,000 (4,500)	20,000 (9,000)	40,000 (18,000)

\*Capacity for material handling. \*\*Capacity for manriding.  
Conversions are approximate.  
Green shading reflects rental inventory.

