



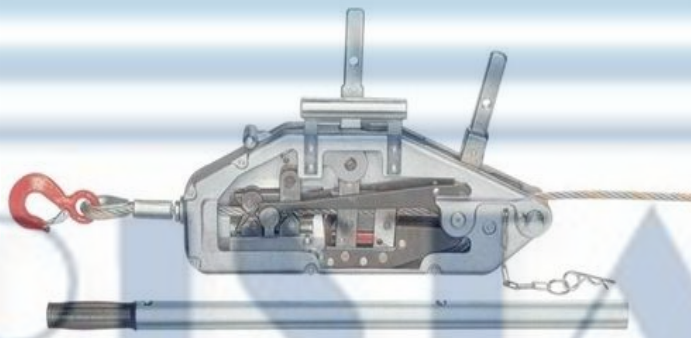
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Pulling & Lifting Machines



TM

Pulling & Lifting Machine; Pulling & Lifting Machines are Multipurpose, Portable, Gearless, Hand operated, supplied complete with telescopic, operated handle and standard length of superflex steel fibre-mixed core wire-rope fitted with hook or shackle at one end and fused and tapered at the other end.



Model	Capacity (Ton)		Effort (Kg)	Rope Travel Per Return Stroke (mm)	Overall Dimensions (mm)	Wire Rope Dia (mm)	Standard Rope Length (Mtr.)
	Pulling	Lifting					
AEPL-7	1.20	0.75	35-45	60	500x230x100	8	10
AEPL-13	2.60	1.60	50	55	600x350x150	12	10
AEPL-20	3.00	2.00	50	50	600x350x160	12	10
AEPL-35	5.20	3.20	60	40	700x380x165	16	10
AEPL-50	8.00	5.00	60	30	820x450x188	20	10

A. Features;

- Capacity - Pulling Capacity is from 1.2 Ton to 8.0 Ton and Lifting Capacity from 0.75 Ton to 5.0 Ton.
- **Jaw Grips:** Drop forged from alloy steel, precision machined and heat treated to prevent rope slip.
- **Jaw Links:** Made of alloy steel and heat treated to resist water.
- **Anchor Hooks:** Are of Drop Forged Steel designed to withstand shock and surge load of several times their rated capacity.
- **Side Cases:** Pressed from steel sheet cold drawn deep drawing quality duly electro galvanized capable of withstanding several times the working tensile strength.





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B. Working Principle: The Gearless Hand Operated Pulling and Lifting Machines are used for rectilinear pulling of steel wire ropes by the gripping and releasing actions of two sets of jaws alternately. Each set consists of a pair of smooth jaws of suitable length which grip the wire rope firmly by closing top and bottom without causing damage to the rope. These jaws work on the self clamping principle, that is they are locked by the pulling force of the wire rope itself. The jaws are enclosed in a casing and are connected by rods to forward (or up) and reverse (or down) mechanism which is operated by a telescopic handle.

C. Wire Ropes to be used: Galvanised Steel Core Wire Ropes of 8 mm dia x 10 mtr. length, 12 mm dia x 10 mtr. Length, 16 mm dia x 10 mtr. length and 20 mm dia x 10 mtr. Length, shall be used.

D. Operation:-

1. The load shall be moved by the operation of a lever and the direction of movement shall be determined by selecting one of the two separate levers provided for the purpose.
 2. It shall be possible to change the direction of the movement of the wire rope without releasing the load.
 3. Suitable release lever shall be provided to allow the operator to move the slack wire rope quickly to its required position when the hoist is not underload.
 4. Back Slippage - When a load is being lifted, some back slippage of the load is bound to occur. Permissible back slippage of the load as a percentage of the total lift in one stroke (forward or backward) shall be as follows.;
- ❖ Lifting Capacity of Machine (Ton): 0.75, 1.6, 2.0, 3.2, 5.0.
 - ❖ Load Applied (Ton): 0.75, 1.6, 2.0, 3.2, 5.0
 - ❖ Permissible' Backslip Percent: 10, 10, 10, 15 & 15.

E. Care & Safe Use:-

1. Never lift the load in excess of the safe working load on the machine, as this has been tested at more than the SWL (ie 50% overload), but it has been done in carefully controlled conditions. Use of the machine at any load greater than the safe working load may result in damage.
2. Before use, examine the wire rope to ensure that the same is in good condition and is free of kinks, if in doubt, the diameter should be measured, it should be remembered that the wire rope is also a component of the machine.
3. Never lift from the point of the hook.

