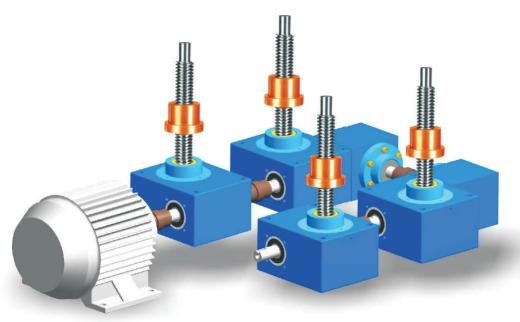




Lifting Systems



Column Lifting Units



Linear Actuation Technology









Lifting Systems:

Gears Gear Drives worm gear screw jacks (classic & cubical), quick lifting bevel gear screw jacks, bevel gear boxes can be used as either single drive units or multi lifting systems. Multi lifting systems are generally driven by single motor. This makes the system to lift equal, when driven by two or more motors, sophisticated electrical synchronisation and control is required.

The system is built using worm gear screw jack (classic, cubical), quick lifting bevel gear screw jacks, bevel gear boxes, Electric motors, geared motors, couplings, bearing blocks and connecting shafts.

Depending upon configuration, several hundred tons of load can be lifted/lowered with ease.

Elements of Lifting Systems:

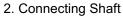












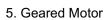








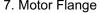


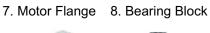








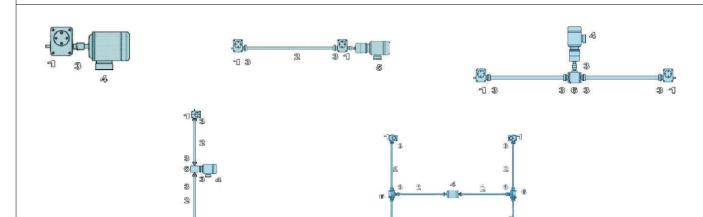








Schematic Layouts







Lifting Systems:

Working Exambles

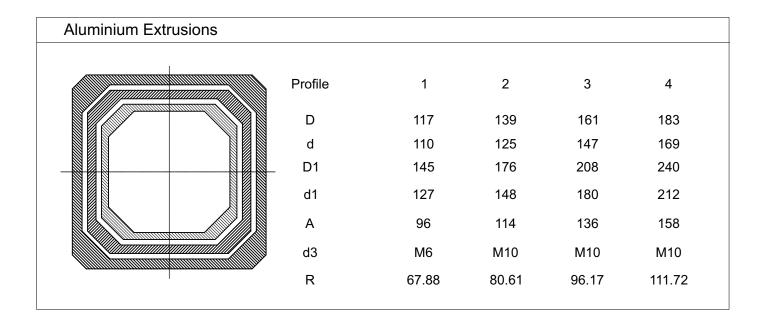






Column Lifting Units

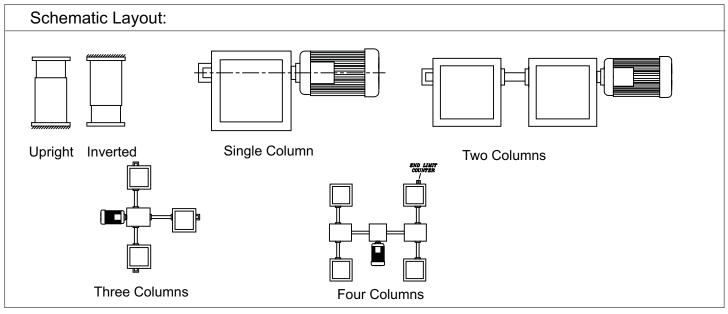
Column Lifting Units are electric telescopic actuators. Telescopic columns are composed of two or three extruded aluminium profiles. The columns are guided through synthetic strips and are actuated by cubical screw jacks with integral motors. Individual unit can lift upto 25 KN with lift upto 1000mm. The lifting speed upto 1500mm/min is possible with trapezoidal screws. With two step telescope, the closed height is less than stroke length for strokes above 700mm. Lifting columns can take higher out of centre. Loads compared single screw jacks.

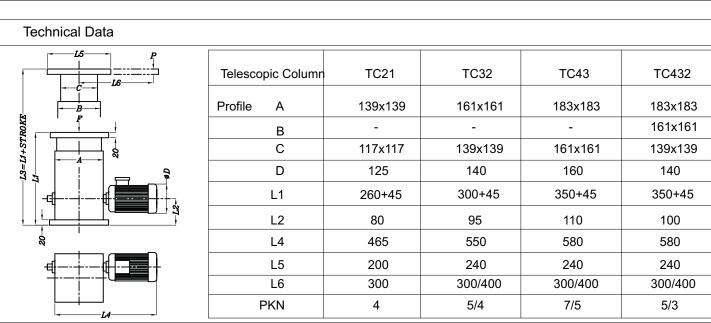






Column Lifting Units:





Telescopic Column	One Step			Two Step
	TC 21	TC 32	TC 43	TC 432
Max stroke mm	600	1000	1000	1000
Screw jack ratio	16:1	16:1 8:1	24:1	32:1
Trapezoidal Screw pitch mm	5 10	6	6 12	16 32
Lifting Speed, mm/min	450 900	500 1000	350 700	750 1500
Max Central load, F, KN	5	10 5	25 15	10 5
Motor Power KW	0.25 0.37	0.75 0.75	1.1 1.1	0.75 0.75







Worm Gear Screw Jacks CLASSIC



Worm Gear Screw Jacks CUBICAL



Ball Screw Jack



Electric Cylinder



Bevel Gear Screw Jacks



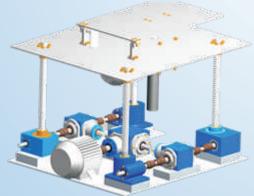
Bevel Gear Box, FG



Bevel Gear Box, L Drive



UV Joints



Lifting Systems





Worm Reducer

Gears and Gear Drives (India) Pvt. Ltd. (ISO 9001 : 2008 Certified)