



## Rail Jack for Ballastless Track

### Special Features

- Screw Type Jack, in 'simple to use' construction.
- Specially Designed Rail Head Clamps with Grip Locking.
- Robust Design for higher factor of safety.
- Actuated with lever rotation, by a single operator.
- Fitted with thrust bearing for smooth lifting and low friction with jack frame.
- Designed for Ballastless Tracks; works well where other conventional track jacks does not fit.

### Specifications

Capacity	:	3 MT
Weight	:	25 Kg (approx)
Surface Finish	:	Al Painted
Lift	:	60 mm
Clamping	:	Rail Head Clamping with Lockable Grip
Threads	:	Square



Rail Jack for Ballastless Tracks

### Description

Rail Jacks are used to lift the rail during track construction or maintenance phase. This is a screw type jack and very easy to use on ballastless tracks of metro systems. It is equipped with highly designed rail head clamps with grip locking. Jack lifts upto 60mm with the rotating lever mechanism. It comes as three piece assembly for ease in transportation and storing. Variants of this jack can be used for lifting of rail adjacent to check rail.

Jack can be used for lifting loads of upto 3MT, however higher loads can be easily lifted attributable to its robust and simple design. Jack is fitted with thrust bearing for smooth lifting and low friction with jack frame. It has higher factor of safety hence ensures safe working beneath lifted rail. Aluminium painted surface provides strong aesthetics and resist wear and tear from rusting and other harsh conditions on track.

## Guidelines

### Usage

1. Attach both the clamps on rail head.
2. Lock the clamp grips with bolt and nut provided.
3. Keeping the screw in upright position, place the jack frame centrally on the rail.
4. Tighten the long cylindrical nut on screw protruding above the frame (by rotating the nut till it reaches the bottom of frame)
5. Ensure that; the clamps are firmly place with grips locked and the jack frame/stand is centrally place above rail.
6. Now, insert any lever/rod on the hole provided on top of cylindrical nut.
7. Lift the rail appropriately, upto desired height, by rotating the lever.
8. If multiple jacks are being used, please ensure the lifting is done synchronously.
9. Rotate the lever in opposite direction to lower the lifted rail.

### Precautions in Operation

Following precautions shall be observed during working:

1. The operator shall be fully conversant with the using, maintenance and trouble shooting of screw jacks.
2. The operator shall not exert excess torque on cylindrical nut.
3. Fitter should ensure oiling or greasing is done on the threads of screw.
4. Fitter should ensure that frame of the jack is centrally aligned on track and clamps are firmly tightened & locked.
9. Preferably there shall be no oily substance on the surface of rail or clamps so as to prevent slippage during clamping.

### Handling

1. The jack shall be handled with care to avoid physical damage, especially to the threads, clamps and thrust bearing.
2. Please ensure a jerk/impact free handling to keep clamps and screw threads safe.

### Transportation

The jack comes as a three piece assembly hence it can be dismantled and can be easily carried by one person. Or it can be transported by mono rail trolley, any other rail vehicle or by any road vehicle.

### Storage

Preferably jack shall be stored in some form of enclosure (bags/boxes) and kept in a dust-free environment.

### Maintenance

Rail jack is a maintenance free equipment. For use at multiple location, we recomend timely lubrication of threads .

### Consumables

Grease/Oil for lubrication of threads.

### Manpower requirement

One (Skilled)