

इंटरनेट

मानक

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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 7091 (1973): Lifter, Bed, Adjustable [MHD 12: Hospital Equipment]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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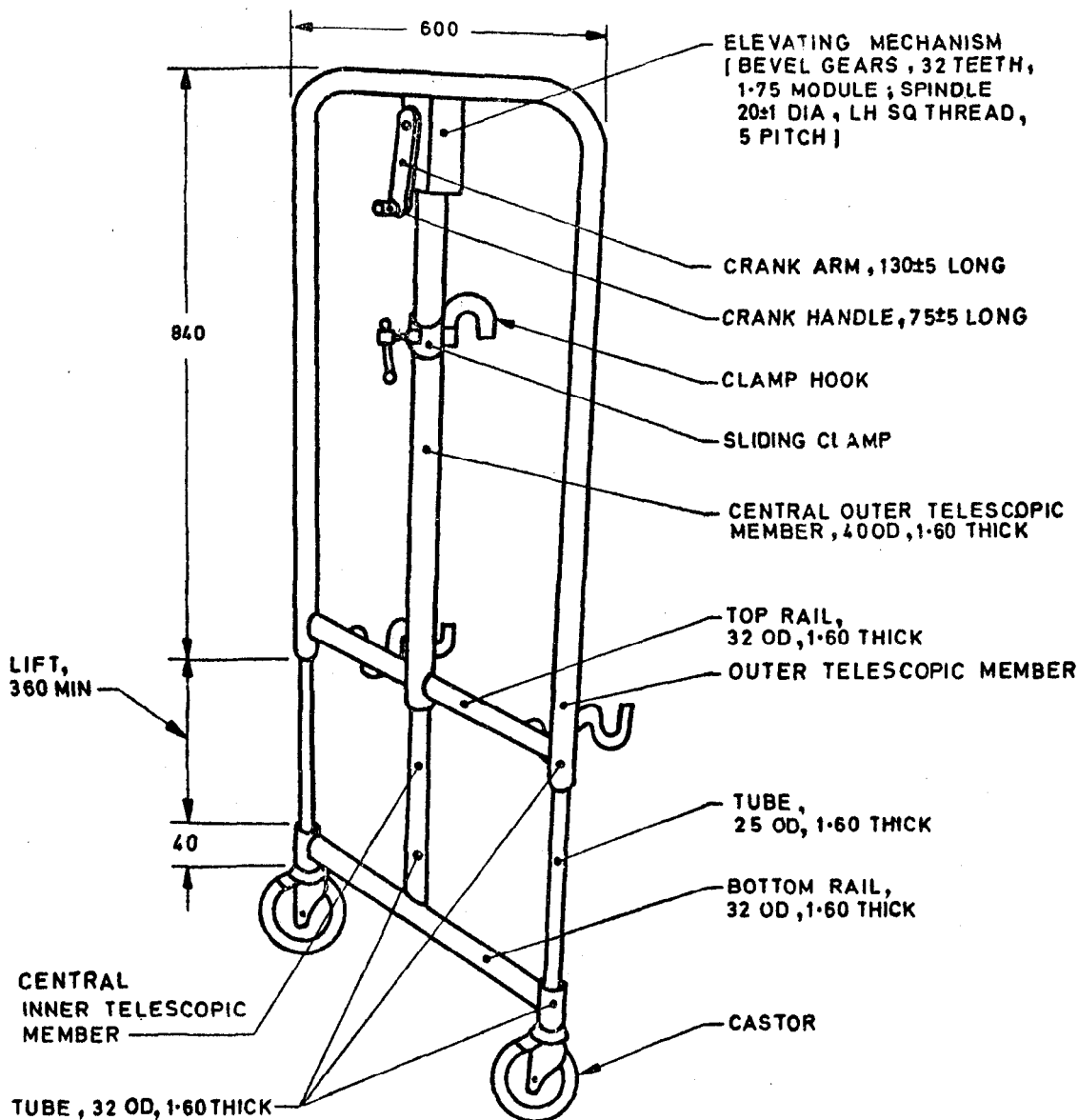




Indian Standard
**SPECIFICATION FOR
 LIFTER, BED, ADJUSTABLE**

1. Scope — Dimensions and other requirements for adjustable bed lifter intended for use in hospitals to lift the head and foot-end of beds.

2. Shape and Dimensions — As shown in Fig. 1.



All dimensions in millimetres.

FIG. 1 LIFTER, BED, ADJUSTABLE

3. Material

3.1 Inner and Outer Telescopic Members, and Top and Bottom Rails — Electric resistance butt-welded steel tubes (ERW) conforming to IS : 2039-1964 ' Specification for steel tubes for bicycle and allied purposes '.

IS : 7091 - 1973

3.2 Spindle, Hooks, Bevel Gears and Thrust Collar — Carbon steel bars conforming to IS : 2073-1970 'Specification for carbon steel black bars for production of machined parts for general engineering purposes (first revision)'.

3.3 Crank Arm and Sliding Clamp — Hot rolled carbon steel sheet conforming to IS : 1079-1968 'Specification for hot rolled carbon steel sheet and strip (second revision)'.

3.4 Bush — Phosphor-bronze or gunmetal.

4. Manufacture, Workmanship and Finish

4.1 The lifter shall be capable of giving a lift of at least 360 mm.

4.2 Each inner telescopic member shall be a sliding fit in the corresponding outer member.

4.3 The lower end of the central inner telescopic member shall be welded to the bottom rail.

4.4 The top rail shall be fusion-welded to the outer telescopic members.

4.5 Two hooks of 12 mm dia bar shall be fusion-welded to the top rail.

4.6 The sliding clamp shall have a hook whose end shall point downwards or upwards as required by the purchaser. The hook shall be of 12 mm dia bar and shall be fusion-welded to the clamp. It shall have a radius such that it fits snugly over or under a bed bow.

4.7 The hooks on the top rail and the clamp hook shall have rounded ends and shall be covered with protective rubber or chloroprene rubber tubing.

4.8 The components shall be welded in accordance with IS : 1323-1966 'Code of practice for oxy-acetylene welding for structural work in mild steel (revised)'.

4.8.1 The welding shall fully penetrate and shall be sound in every detail. The welds shall be finished flush. In the finished stage, there shall be no exposed sharp edges or other formations which may harbour dirt or other foreign matter.

4.9 The elevating mechanism shall comprise a threaded spindle, an internally threaded bush and a pair of bevel gears operated by a crank mounted on a horizontal shaft. The mechanism shall be easily accessible for maintenance and repair. The bush shall be fitted on the upper end of the central inner telescopic member. It shall be an easy fit on the spindle and shall have at least 5 full threads and a length of at least 25 mm. The spindle shall have a left-hand square thread and shall be machined at the top to accommodate the bevel gear and the thrust collar. The bottom end of the spindle shall be suitably reduced to allow easy entry of its thread into the threaded bush. The crank shall be of the detachable or the fold-away type as required by the purchaser.

4.10 The lifter shall be fitted with castors conforming to Designation HN 80 × 25 × 6 PG of IS : 4034-1968 'Specification for castors for hospital equipment'. The castors may have locking device if required by the purchaser.

4.11 All exposed surfaces except the threaded portions shall be painted in accordance with 5.1 of IS : 4033-1968 'General requirements for hospital furniture'.

5. Tests

5.1 Adhesion Test — As prescribed in 6.1.1 of IS : 4033-1968.

5.2 Performance Test — Place a weight of 140 kg in the form of sand bags in the middle of a hospital bed. Fit one bow of the bed between the two hooks of the top rail and the clamp hook, and crank the elevating mechanism. The lifter shall lift the end of the bed in 5 complete turns of the crank through a height of 25 mm without much effort on the hands.

6. Marking — Each lifter shall be legibly and indelibly marked with the manufacturer's name, initials or recognized trade-mark.

6.1 ISI Certification Marking — Details available with the Indian Standards Institution.

7. Packing — As agreed to between the purchaser and the supplier.