



# Lakshmi “De Stressing Roller” (LICDSRV1.0)

**Introduction:** *Lakshmi De Stressing Roller is a very fit and fast removal roller system designed to reduce friction during stressing operations. The LICDSRV1.0 replaces the under rollers and side rollers and can be used in all rail profiles, curves, straights, cants etc. The system offers higher productivity with a significant reduction in manpower and achieves time-savings of upto more than 1.5 hours on a standard 900m stressing operation. This system provides a very safe method of stressing with a hugely reduced risk of damage to hands, insulators & rail sleepers. The life expectancy is 10 times longer and a 3<sup>rd</sup> of the installation cost after 4 operations the cost have balanced.*

## Technical Features:

1	Weight of unit (Kg)	Li-ion (Lithium Ion)
2	Max vertical load (kN)	Minimum 8 Hrs during Inspection
3	Max side load (kN)	Flash memory 16gb(min.)
4	Memory size	Minimum 1000 events of inspection and minimum 2000 events of locations
5	Size of the device	Approx. 146.0 x 73.0 x 5.4 mm which can easily be held in palm
6	Weight of Handheld Device including battery.	Maximum 500 gm.
7	Resolution of GPS receiver	0.001 Minute of latitude & longitude.
8	Accuracy of GPS receiver	Better than 4m CEP50 and 10m 2DRMS(CEP95) for horizontal under open and clear sky condition
9	GPS TYPE	A-GPS, GLONASS, GPS
10	Chipset	Qualcomm MSM8916 Snapdragon 410 or better
11	CPU	Quad-core 1.2 GHz Cortex-A53 or better

## Benefits

- ❖ Even distribution of stress throughout the entire length of the rail being re-stressed.
- ❖ 35% reduction in manpower.
- ❖ Operation time 10-20 sec.
- ❖ Upto 1.5 hours reduction in block timing.
- ❖ Rollers are in contact with the underside of the rail head.