

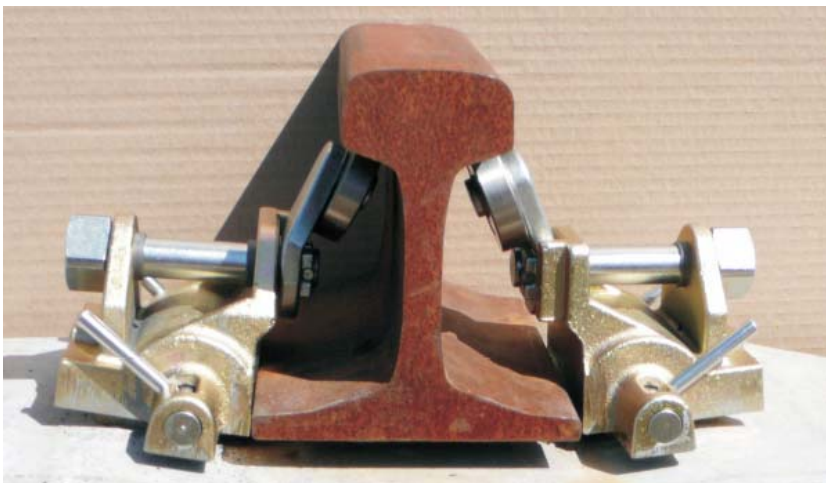
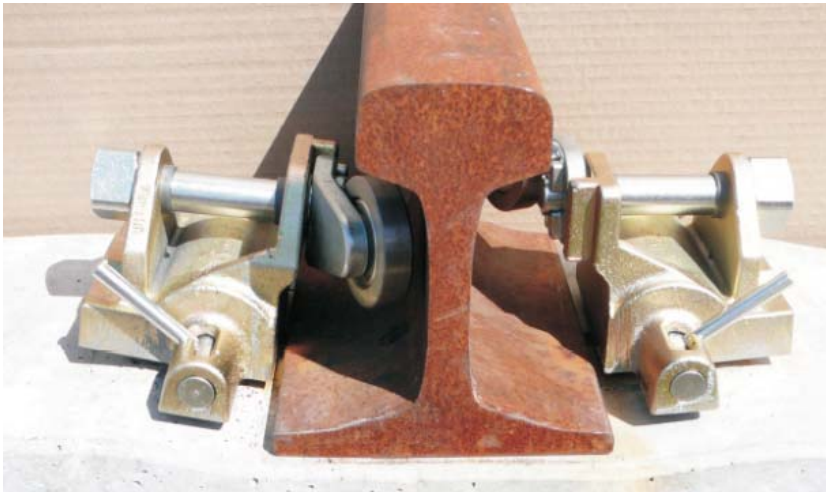
# Vortok Stressing Roller - e-clip

ENGINEERING SOLUTIONS FOR RAILWAY MAINTENANCE

- Even Distribution of Stress
- Significant Cost Reduction
- Quick Operation
- Improved Safety

## *Improving the rail stressing process.*

Vortok Stressing Rollers (VSRs) have been designed to improve the accuracy and efficiency of the rail stressing operation. Until now a rail jack, under rollers and side rollers have been necessary when stressing the rail. The Vortok concept integrates all these into one product offering significant improvements.



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*Network Rail*

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# Vortok Stressing Rollers

## ENGINEERING SOLUTIONS FOR RAILWAY MAINTENANCE

### Improving the Process

In a stressing procedure, an operator will use a jack to lift the rail from an unclipped sleeper. A second operator will insert the under rollers before the rail is allowed to drop back down. This whole procedure is fraught with risks; Has the rail pad adhered to the underside of the rail? Is the second operators hand clear? Is the roller damaged? Has the rail come to rest on an insulator?

The action of dropping the rail onto the under rollers also causes them to fail very quickly.

**Vortok's stressing Roller remove all of these issues from the process**

Method	Operational life expectancy	Low friction enabling even distribution of stress along rail length	Hands <u>do</u> <u>not</u> need to placed under the rail	Rollers used to lift rail	Rollers will support rail laterally
Vortok Stressing Rollers (VSR)	75+ Fully serviceable				
Traditional under rollers	5			Jack required to lift rail	Separate side rollers required



### Cost Saving

Significant cost savings of up to 75% can be achieved over the life cycle of the Vortok Stressing Rollers.

### Safety

Significant safety improvement for track workers - no need to place hands under rail.

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