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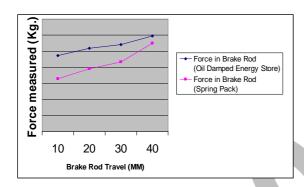
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HANDBRAKE OPERATION

The Knott Group is committed to continuous improvement throughout our range of products. One area of recent change is the overcentre handbrake operation. A new **Oil Damped Energy Store** is being introduced across the Knott range of over-run couplings. It represents the natural progression from the existing spring pack, which has been in use for over 20 years.

The original spring pack remains a sound solution to the requirement for applying a force to maintain the handbrake lever in its on and off positions; combined with the overcentre handbrake operation it fulfils the parking brake requirements of the auto-reverse mechanism.





The new **Oil Damped Energy Store** takes the Knott product to a new level of performance, giving positive benefits to Manufacturers, Users and Distributor/Repair centres alike.

Testing of both types has shown that the **Oil Damped Energy Store** provides a consistently higher output force to the brake rod. (See graph)

The revised design requires the operator to pull the handbrake on, like the current design, but adds a noticeable quality feel to the action. Trials have received very positive responses from customers.

The new design consist of a fully enclosed spring to activate the mechanism, the speed of actuation is then controlled by oil which acts as a damper to provide a progressive feel to the handbrake operation.

The new couplings are compliant with the very latest requirements of European Directives 94/20/EEC and 98/12 /EC which amends the earlier directive 71/320/EEC



Allied to this, the system offers the following benefits:

- 1. The trailer manufacturer is seen to have the latest available technology enclosed within a neat, modern, aesthetic design in combination with the ergonomically designed handgrip.
- 2. More consistent and smooth feel for the operator coupled with a high perception of quality and a more distinct over-centre action.
- 3. No requirement for the red safety bolt to guard against the risk of the handbrake unloading rapidly during maintenance and no sudden movement of the handbrake as sometimes seen with a badly adjusted brake set up.
- 4. Improved action in emergency situations when operated by the breakaway cable and combined with optimised mechanical force transmission through the handbrake lever.
- 5. The new **Oil Damped Energy Store** is pre-set during assembly and then sealed.

