

Leg-Safe

Patent Pending

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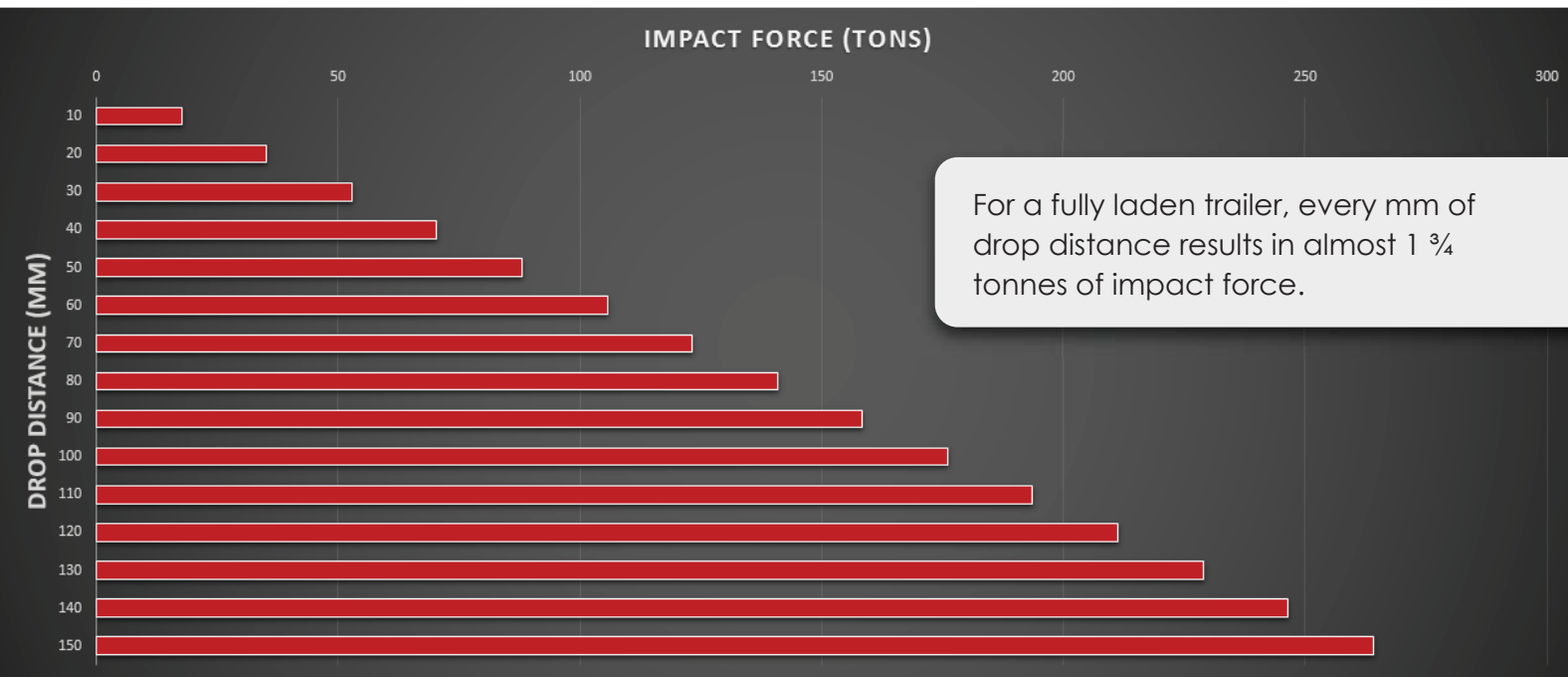
Hard Hitting

A full-loaded trailer being dropped by just 150mm will exert of force of 132 tonnes (1,295,217 Newtons) per foot when it impacts with the ground.

“Leg-Safe” - A brief introduction

Leg-Safe is an innovative (Patent applied for) Don-Bur safety feature that warns a driver if the landing legs are in the incorrect position whilst either coupling or uncoupling.

This prevents trailer ‘drops’ and dragging legs in transit; both of which cause significant damage and may invalidate your warranty.



What is a ‘dropped’ trailer?

Occasionally, when drivers are uncoupling and aren’t concentrating or have been distracted, they may forget to lower the landing legs. Alternatively, when coupling, the driver may not correctly lock the fifth wheel jaws.

The result is that, as the tractor unit drives off, the trailer slips off the fifth wheel and falls. The landing legs (raised position) then strike the ground with considerable force.

- ▶ Damage to trailer neck
- ▶ Damage to landing legs
- ▶ Damage to ground surface
- ▶ Significant Health & Safety risk

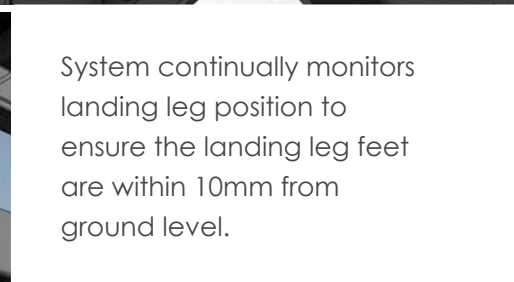
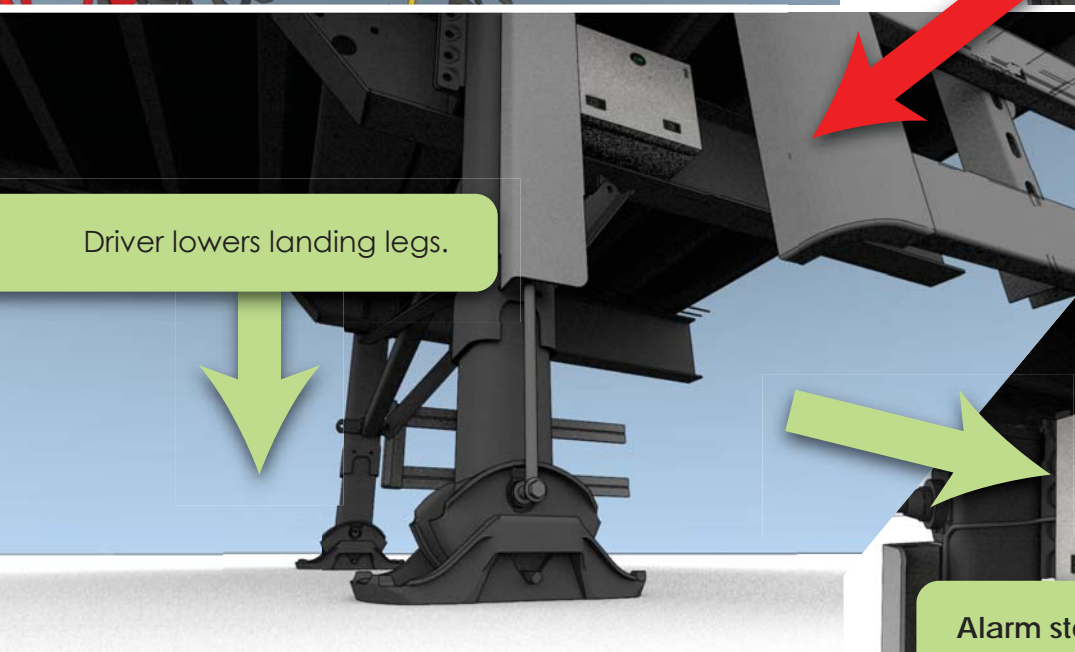
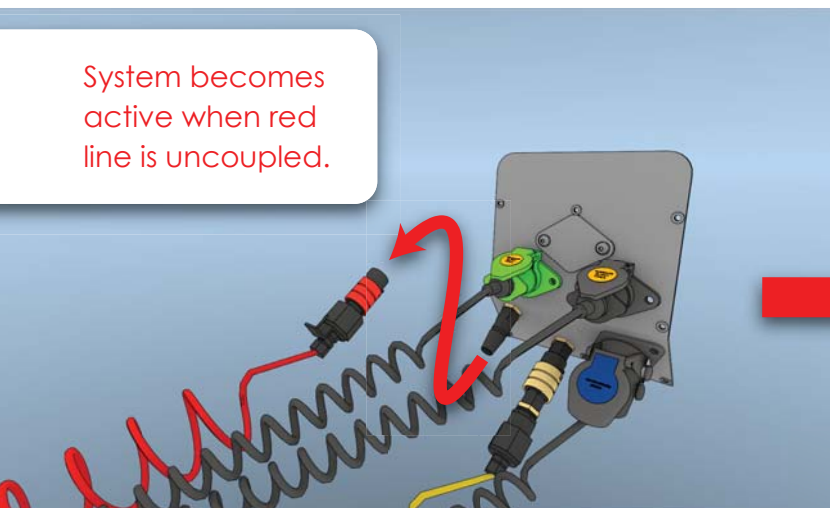
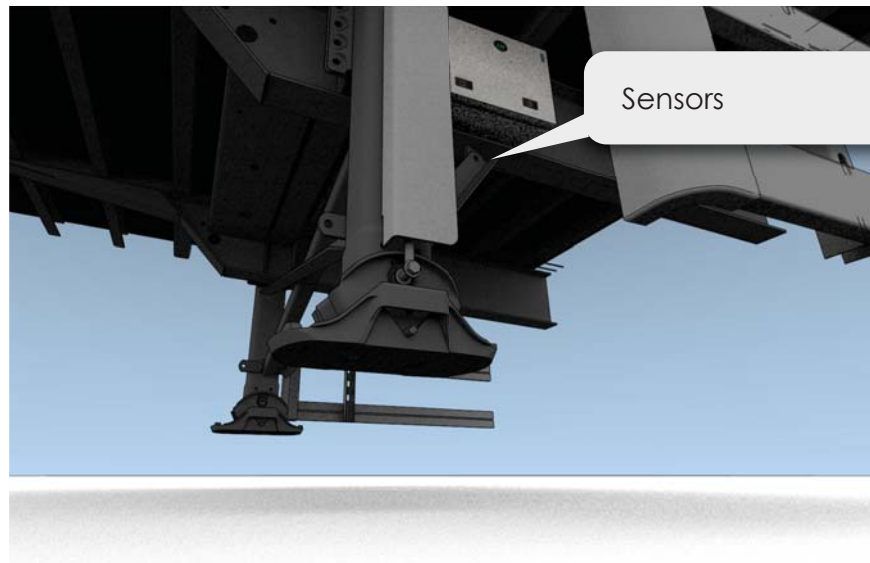


- ▲ Dropped trailer
- ◀ Collapsed landing legs

How does “Leg-Safe” work?

Sensors added to the landing leg assembly detect the position of the legs. Added sensors on the trailer coupling points determine if a trailer is being coupled or uncoupled.

The independently-powered ECU ‘brain’ then calculates if the legs should be up or down and set off an audible and visual alarm to alert the driver if the legs are not in the correct position.





About Don-Bur

Established in 1981, the Don-Bur Group has become internationally recognised for its innovative development of trailers and rigid vehicle bodywork, designed to minimise operational costs and increase efficiency.

Don-Bur has committed to research and develop solutions with primary focus on aerodynamics and optimum utilisation of available cubic capacity.

Based in Stoke-on-Trent in the West Midlands, Don-Bur has a 500 strong flexi workforce and generates a group annual turnover of £50 million. Vertically integrated divisions include an 18 acre primary manufacturing site, curtains and load restraint division, graphics house and two after-sales service sites (repair, servicing, refurbishment and ATF Station).

The comprehensive structure provides a complete and fully accountable solution for clientele, catering for all commercial vehicle needs throughout their life-span.

Leg-Safe, in it's simplest form, prevents trailers being dropped when uncoupling.

Additional functionality can be added to:

- 1) Ensure landing legs are raised when coupling
 - 2) Encourage correct coupling of air/electrical lines
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Don-Bur's "EBS-Safe" system complements the Leg-Safe processes by ensuring power through the EBS (ISO 7638) line.

If you have any questions about this document, or would like to discuss your operational requirements, please call Don-Bur on 01782 599 666.