

**LAB-TESTED  
AND VALIDATED**



CONCEPT  
CATEGORIE  
NOMINEE

**STRENGTH:** The kingpin's lifespan and ability to absorb stress will outlast the vehicle's own life cycle.

Homogenization of the strength spreading on the Kingpin area.

**SAFETY** considerably increased: The kingpin can be exchanged if microcracks appear.

**CONVENIENCE:** Removable for 6-year technical inspection.

**EASY-MAINTENANCE:** The kingpin plate becomes a removable, inspectable wear part.



BOXES & LIGHT TRAILERS



VANS



PLATFORM-CABS



CHASSIS-CABS



RIGIDS



SEMI-TRAILERS



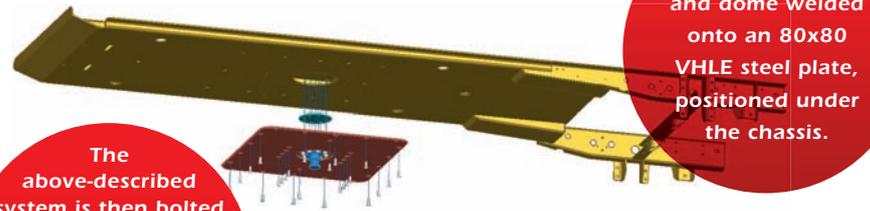
SWAP BODIES



CUSTOMISED

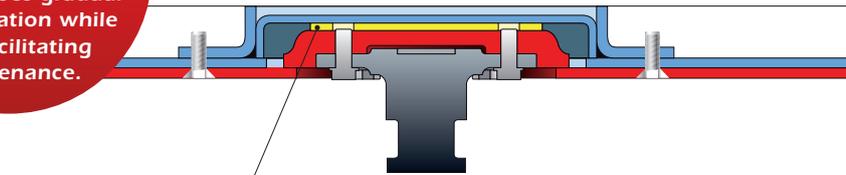
The KPES revolutionizes the technology behind the chassis/kingpin connection, where safety is critical, and meets 3 goals:

- Strengthens the chassis/kingpin coupling to prevent it from becoming worn or torn off.
- Dissipates energy and shocks from the kingpin through the chassis, in order to keep them off the kingpin's dome.
- Facilitates maintenance by offering the option to periodically inspect it and replace it inexpensively if need be.



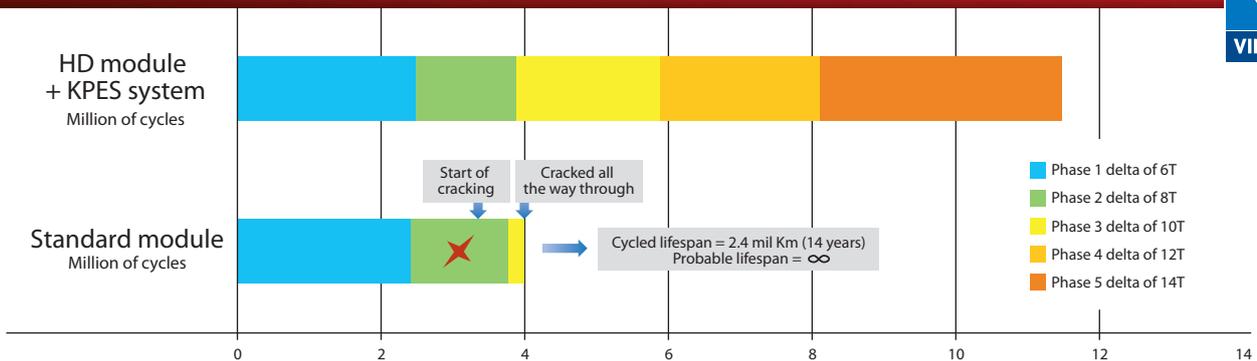
The above-described system is then bolted together with the chassis, ensuring that it undergoes gradual pressurization while also facilitating maintenance.

Standard kingpin and dome welded onto an 80x80 VHLE steel plate, positioned under the chassis.



High-strength elastomer (90 shores) compressed between the kingpin dome and the counter-dome cage on the chassis. The energy is absorbed and the traditional leverage effect is eliminated.

## VINCOTTE laboratory – Intensive wear testing



Intensive testing proves that KPES triples the kingpin's lifespan (standard system using the Vincotte protocol: limit of 2.4 million Km, KPES: no sign of wear after 10 million Km)

Lamberet's chassis featuring the exclusive KPES system is the first chassis to successfully pass the new UN ECE regulation n°55 that governs the hitching of a tractor+trailer assembly.

- 100% compatible with current fifth-wheel systems
- No need to change the coupling height
- No impact on overall height
- EASY-MAINTENANCE CONCEPT
- No upkeep
- Safety level takes a few minutes to check
- Quick-in quick-out: Replacement made easier by bolted-in technology

Référence : UN ECE REGULATION N°55

### ACTS ADOPTED BY BODIES CREATED BY INTERNATIONAL AGREEMENTS

Only the original UN/ECE texts have legal effect under international public law. The status and date of entry into force of this Regulation should be checked in the latest version of the UN/ECE status document TRANS/WP.29/343/Rev.X, available at: <http://www.unece.org/trans>

OPTION AVAILABLE ON ALL SR2 MODELS

