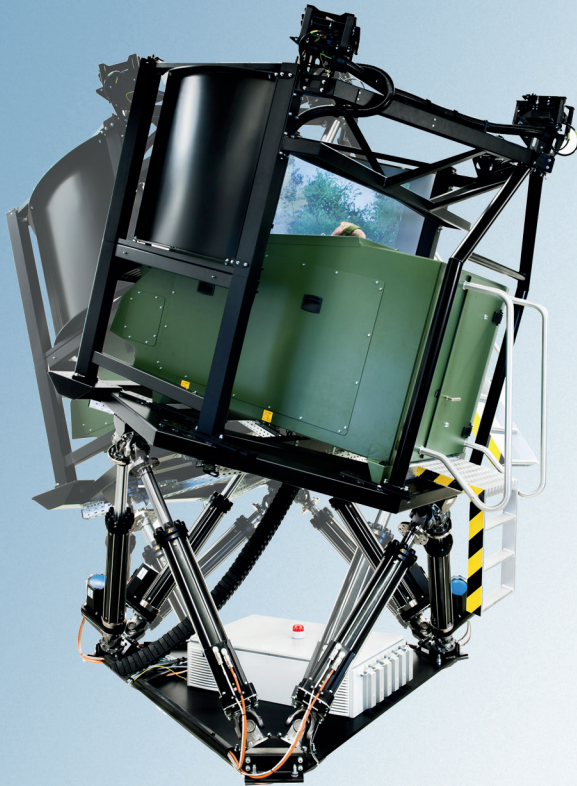# LEOPARD 2 DRIVER TRAINING SIMULATOR (DTS)

The tank driver training simulator is used for initial and advanced military driver training for the Leopard 2 main battle tank. The system replicates the original driver's station of the vehicle. Operator interfaces, control gauges and observation devices all largely correspond to the original equipment, thus enabling highly realistic training. Vehicle physics is dynamically simulated, considering, among other attributes, the vehicle speed, steering angle and various ground conditions.

GameEngine based visualization system Virtual Battlespace 3 (VBS3) generates the virtual scenario, which is projected on a 200° cylindric display system with high resolution LED projectors. Drivers can be trained to drive during day and night as well as under different environmental conditions (e.g. fog, heavy rain and snow).

The driver's cabin and the projection unit are mounted on an electrically powered motion system with six degrees of freedom that generates the acceleration forces necessary for realistic driver training.

The instructor operator station enables the user to easily create, observe and control exercises. Detailed After Action Reviews can be conducted based on recorded and replayed exercises. Reports are automatically generated based on triggered events and driving errors.

PRODUCT FACTS OVERVIEW

- Cost effective design with high fidelity simulation
- Urban areas with traffic simulation
- Different areas (tropical and woodland) for Off-road driving
- Day and night driving in all weather conditions
- Malfunction simulation to enable training of emergency procedures
- Realistic vehicle dynamics and authentic vehicle behavior
- Realtime instructor monitoring
- GameEngine based image generator VBS3
- Reusability of existing VBS2 & VBS3 databases
- Driving in convoys and platoon formations
- Original vision blocks for closed hatch driving
- 200° projection screen for open hatch driving
- Motion system with six degrees of freedom
- After Action Review (AAR)
- Faithful simulation of exterior and interior sounds
- Flexible multi-channel radio communication simulation
- Configurable HLA/DIS gateway which allows connection to other simulators
- Scripted events along driving route for automated exercises

RHEINMETALL DEFENCE