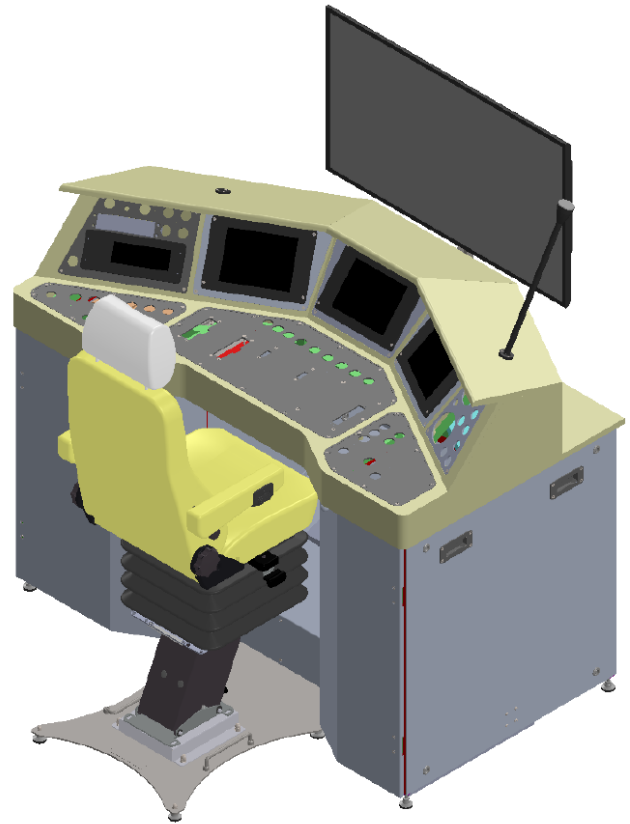


PRESENTATION BROCHURE

STANDARDISED RAILWAY DRIVING SIMULATOR – SCTS



To ensure vocational training and competence gaining of future train drivers while supervised by senior driving instructors we designed and developed a railway driving simulator in line with latest international UIC651 and UIC612 standards that guide and govern construction, ergonomics and functionality of cabs and driving desks for all new rail vehicles. The assembly utilizes components from the construction of real rail vehicles and is provided with a machine room simulator. Provided in the package, a special software console for the driving instructor to monitor the simulation progress and trigger over 70 alarms and faults to the simulated rail vehicle in order to provide an authentic, in-depth training experience that will eventually generate student compartmental behaviors specific to driver's actual job. The package as a whole is deliverable as a complete "turn-key" solution, with the possibility to have a pre-training session for relevant users and personnel - instructors, IT technicians, maintenance technicians, etc.



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The simulator proposes a method of training based on virtual reality thus offering extensive possibilities regarding the exposure of students to real-life replicated situations and procedural training, all based on scripted or random events. Training target group is not limited to train drivers and can be extended to train conductors, maintenance and emergency personnel or any rail safety related professional category. The technical solution is set to achieve the following key training points:

- driving and familiarization with the rail vehicle
- learning of tracks, paths and routes
- signaling systems training and respecting signaling indications
- using Automatic Train Protection systems (SIFA, PZB, etc.)
- practicing efficient and economic train driving techniques
- driving with degraded performance or within sub-systems faults conditions
- training over railway safety procedures
- experiencing shunting maneuvers, attaching and detaching to other rail vehicles

General data	
Type	train driving simulator
Installation place	indoors, in rooms without features
Construction	modular, movable to other locations
Utility requirements	<ul style="list-style-type: none"> • 230VAC 50-60Hz 32A TN-S electric power supply from client facility • compressed air min.11 bar
Footprint	18 sq.m. (3x6m) – with machine room simulator and instructor console
Characteristics	
Base simulator	DT Train Simulator 2020 with special programmed VR rail vehicle
Driver's desk	<ul style="list-style-type: none"> • provided with buttons, master-controllers, switches and selectors with multiple positions, variable track potentiometers, pressure gauges, foot pedals, all placed on supporting fiber glass structure and pedals for foot actuation • 3 DMI interfaces – CCD, TDD, ETD for interaction with the simulated vehicle • 42.5" 4K high-res main display for the driver's simulation
Driver's instructor interface	allows simulation of various internal systems of the vehicle with the possibility to trigger alarms and faults, monitoring simulation parameters (speed, pressures, controller positions, interactions with the safety and ATP systems, etc.) and recording statistics regarding the quality and safety of the driving process (number of SIFA and INDUSI/PZB brakes, distance travelled, various trends, etc.)
Optional equipment	
Air compressor	complete technical solution for compressed air delivery in the installation location
Multiple supervision set	supervision of multiple driving desks from one single instructor console

