



# SIMULATOR BASIC INFORMATION

**STADLER**

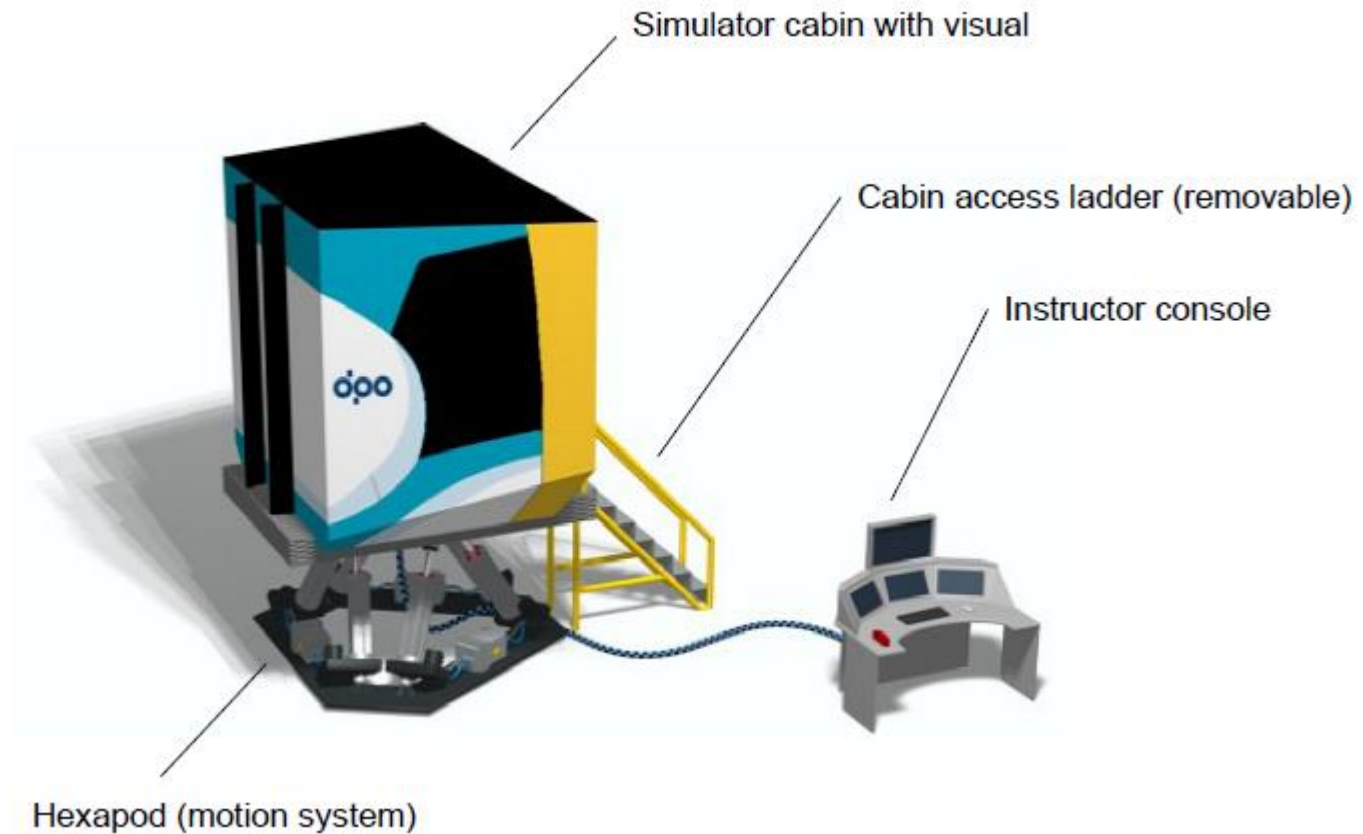
# SIMULATOR FOR TRAM „NOVA” OSTRAVA

Lead

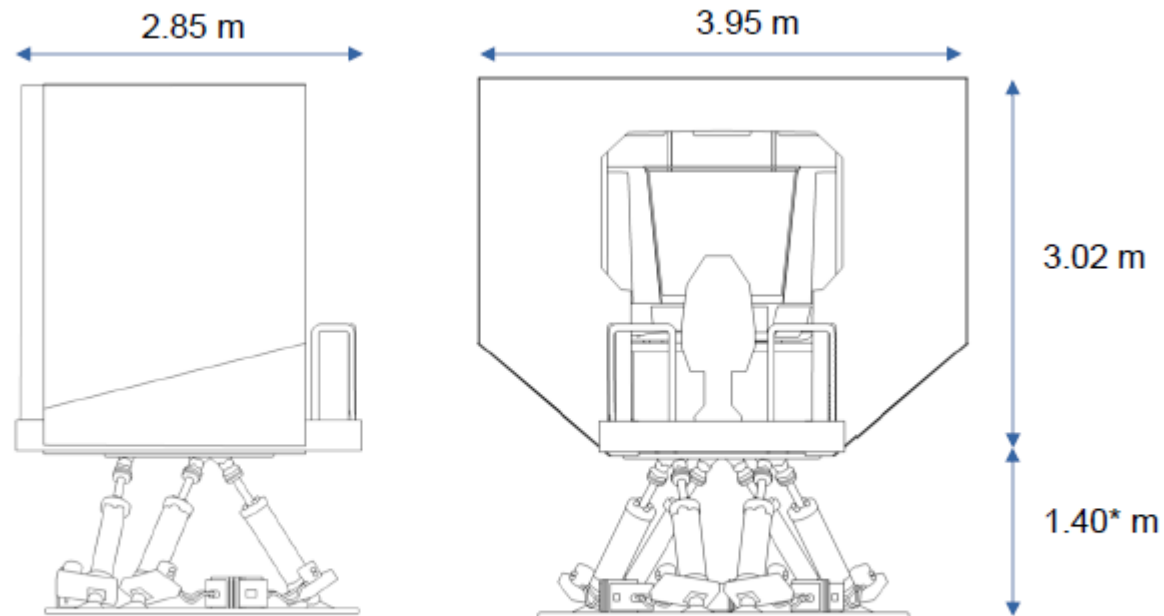
**Ostrava Tram Simulator Design**  
**V 01 – JAN 2018**



# OVERVIEW – MAIN COMPONENTS



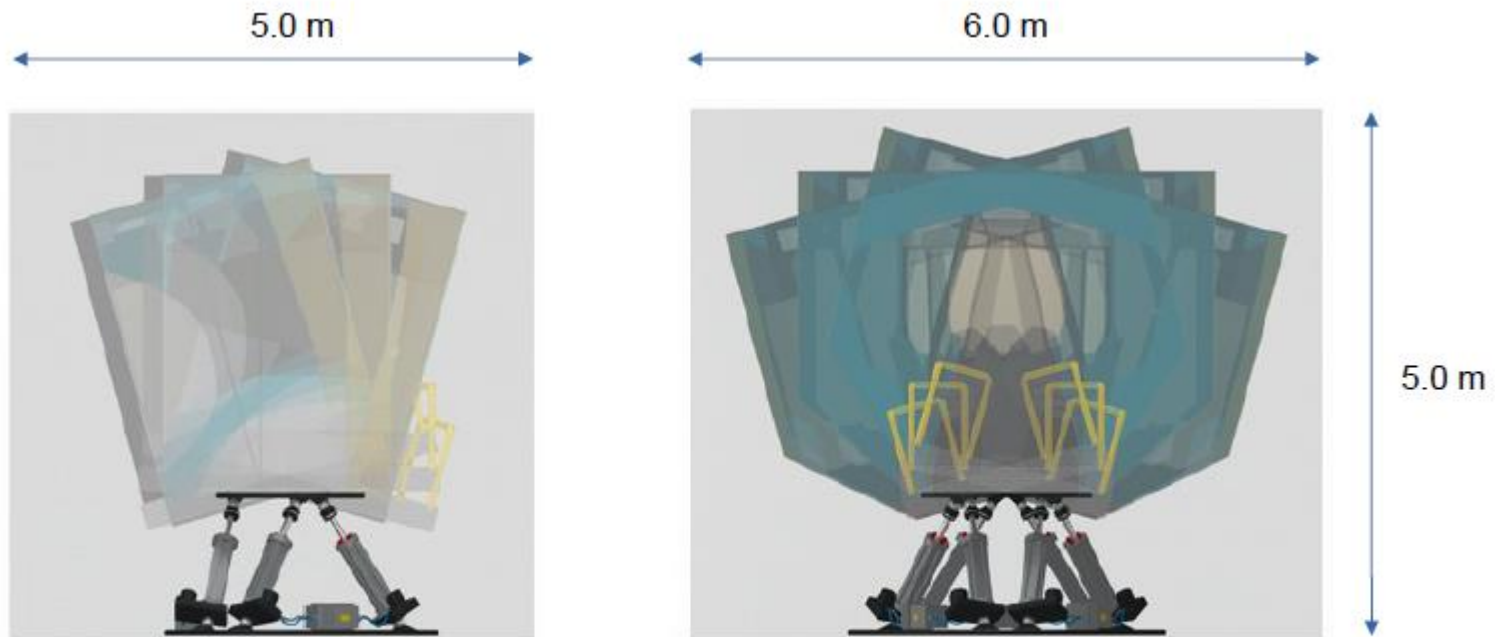
# SIMULATOR DIMENSIONS - STATIC



Simulator dimensions, nominal position / no motion

\* vertical displacement  $\pm 0.27$  m depending on hexapod displacement

# SIMULATOR DIMENSIONS - DYNAMIC



Simulator volumes, considering  $\pm 15$  deg lateral and longitudinal motion  
Additional volume clearance may be required by other elements and/or safety rules

# POWER SUPPLY

## Power supply requirements:

- power supply 6DoF: 15kW (3Phase AC 50Hz);
- PC, Displays, : approx 3kW;
- Aircondition: approx 3kW.

# SOFTWARE

Hardware and software packages (including the cockpit of the vehicles) focused in the training of tram, bus and trolleybus drivers in a city 3D environment with a high degree of realism and with different track conditions.

The **Vehicle driving** module guides the driver to:

- familiarize with the driving cabin equipment and with the safety/diagnostic systems;
- familiarize with the 3D urban or suburban environment where the vehicle circulates, the streetlights, the overhead contact line, the switch points etc.;
- familiarize to drive in different conditions of the urban area tracks;
- familiarize to drive the vehicles in different meteorological, visibility and adherence conditions as well as in anomaly and emergency situations;
- familiarize with the vehicle's main electric and hydraulic sub-systems.

Thank you!

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