

FAAC Military Simulator Products: U.S. Army Operator Driving Simulator USA ODS

USA ODS



The Army has fielded 74 USA ODS systems of which 52 are located at the Fort Leonard Wood Motor Transport Schoolhouse, a joint facility also housing 32 FAAC MTVR simulators that support USMC training. Additionally, The National Guard has nine USA ODS mobile systems fielded to Regional Training Centers, with 17 more to follow. The USAF has four simulators supporting flightline training.



In March 2001, the U.S. Army selected FAAC to supply its truck driving simulators. The program—designated U.S. Army *Operator Driving Simulators* (USA ODS)—provides an adaptation of the simulator technology developed for the USMC MTVR program to train Army motor transport operators. The USA ODS program includes three different types of driving stations—a generic truck (M915 tractor-trailer), MTVs (medium-tactical vehicles), and a replica HTV (for simulating heavy-duty tactical vehicles)—utilizing interchangeable dash modules. These driving stations will be used to train drivers of six different vehicle types:

- M915
- M939
- FMTV
- PLS
- HET
- HEMTT

Vehicle simulations include appropriate payloads, trailers and liquid loads.

INTERCHANGEABLE DASH MODULES



Both on-road and off-road driving areas are included as well as over 100 scenarios specially designed for military truck driver training. The curriculum has lesson plans suitable for drivers ranging from beginner to advanced tactical driving. With a wide variety of environmental conditions (day, night, rain, snow, fog, sandstorm) and virtually any type of terrain imaginable, the USA ODS system will provide Army drivers with experience in any situation they are likely to encounter.



While nominally each type of driving station will be dedicated to the vehicle type(s) for which it is built, the system is designed so that all vehicle dynamics models can be used with any cab. This provides a highly flexible training environment for the Army.

Each simulator being procured is equipped with some form of motion. Of the 87 systems fielded to date, 81 feature 3-DOF seat motion and six feature full 6-DOF motion. The 3-DOF motion seat provides up to 16 degrees of pitch and roll and up to +/-2 degrees of heave. The 6-DOF system with the entire simulator mounted upon it provides up to 22 degrees of pitch/roll/yaw and +/-12 inches of heave.



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