



25K TRANSPORTABLE TARGET LAUNCHER (25K TTL)



The Test Execution Support Division developed two launchers capable of launching 25,000-pounds static load rockets

The U.S. Army Space and Missile Defense Command Technical Center's Test Execution Support Division developed a configurable 25,000 pounds-capacity Transportable Target Launcher (25K TTL) to support Department of Defense operational test launches of theater-class tactical ballistic missile targets. The 25K TTL is rapidly deployable expanding the number of presently available launch sites, thereby supporting a more comprehensive selection of threat scenario geometries for TBMT testing on the national ranges. Utilization of the 25K TTL is the most flexible and cost-effective means of presenting test scenarios in a threat representative construct due to the launcher's ability to operate at both unimproved and improved range sites. Additionally, the 25K TTL is transportable by air or over-the-road, permitting use at all ranges.

- USASMDC developed two transportable target launchers
- Rail launch platform supporting theater-class tactical ballistic missile targets
- Rapidly deployable to improved and unimproved sites
- Expands the number of presently available launch sites
- C-17 and C-5 transportable
- Treaty compliant



25K TTL



The Test Execution Support Division develops assets and executes test and evaluation (T&E) programs responsive to the needs of U.S. and allied warfighters.

The 25K TTL was designed, built and tested using a modified commercial off-the-shelf semi-trailer and hydraulic crane as a portable launch platform. The 25K TTL is capable of being transported to a launch site, converted to a fixed configuration before target loading and launch, reconfigured for transport after launch, and returned to storage, or emplaced for a follow-on mission.

Technical Performance Parameters:

- Ability to launch target in accordance with test plan trajectory requirements within 0.2 degrees accuracy in azimuth and elevation.
- Less than 15 minutes required for launcher to move the assembled target from: (1) any azimuth/elevation combination to the initial loading position and (2) rotate thru 180 degrees azimuth.
- Erection system's fail-safe system can lower target to a secure position in less than one hour.
- System must quickly (less than 5 minutes) stow in the event of inclement weather, e.g. lightning.

| Design Capability | |
|---|--|
| Parameter | Capability |
| Maximum static launch weight of rocket system | 25,000 pounds |
| Maximum stage diameter | 32 inches |
| Maximum length of rocket system (Multiple Stage Capability) | 48 feet |
| Maximum tip-to-tip fin diameter | 60 inches |
| Maximum rocket thrust | 73,000 pounds |
| Maximum boom deflection | 1.5 inch |
| Center of gravity of the rocket for a target with maximum weight and maximum overall length | Not to exceed 25 feet from the aft-end of the rocket |
| Translate the integrated rocket from the initial rocket loading/integration position to any azimuth and elevation combination | Maximum of 15 minutes |
| Translate the integrated rocket from any azimuth and elevation combination to the initial rocket loading/assembly position | Maximum of 15 minutes |
| Rotate through 180 degrees in azimuth | Maximum of 15 minutes |
| Command change in the azimuth and elevation setting by 0.2 degrees in both azimuth and elevation with an attached rocket | Maximum of 30 seconds |



For more information, please contact:
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