



PLATFORM INTEGRATION

M1000 Heavy Equipment Transporter Trailer

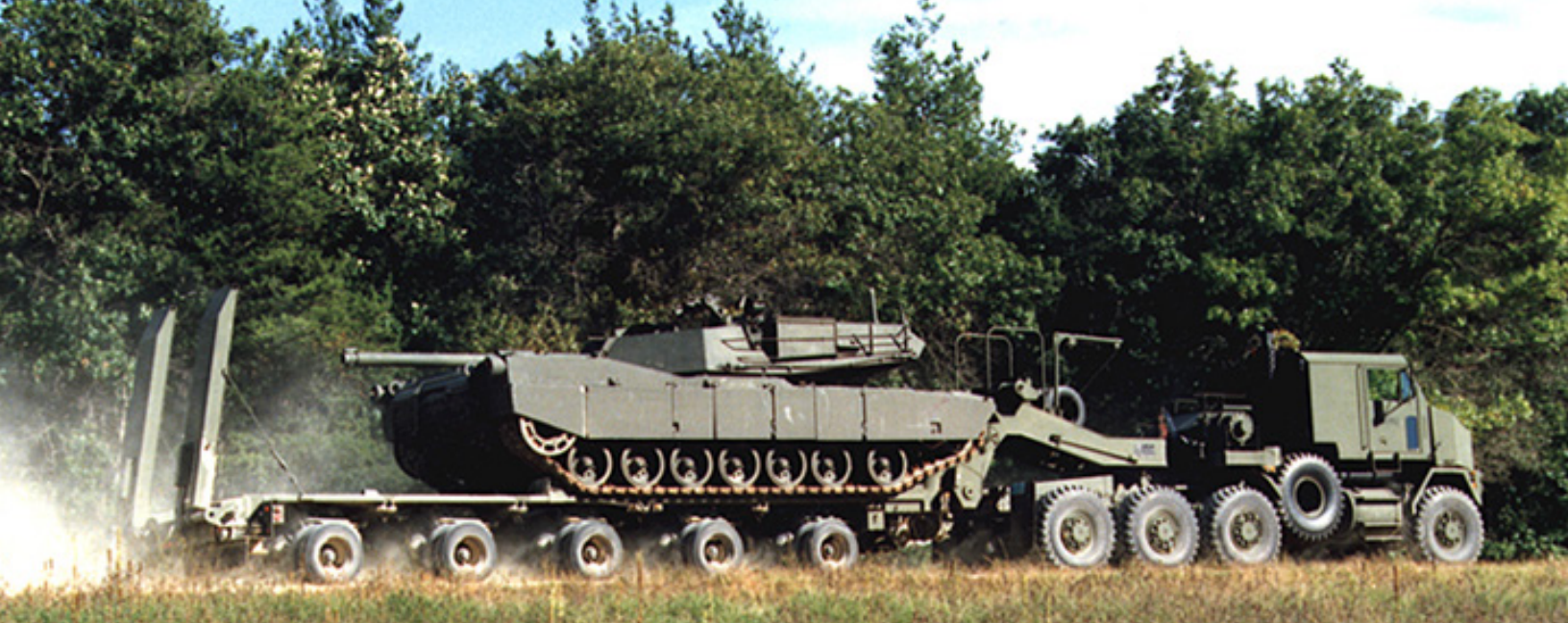
All-Weather, All-Road Heavy Equipment Hauler

The combat proven M1000 Heavy Equipment Transport semitrailer carries armored vehicles and other heavy equipment loads weighing up to 70 tons. Rugged pendular suspension and automatic multi-axle steering ensures that the M1000 can get loads where they are needed.

The technology used in the M1000 has proven its value and capability in many years of military and commercial use. The M1000 fully satisfies the difficult mission to load, unload and transport the M1 Abrams Main Battle Tank and other heavy equipment worldwide on highways, secondary and cross combat surfaces in all weather conditions.

HIGHLIGHTS

- Completely automatic steering
- Requires no tractor modification
- Self-equalizing hydraulic suspension
- Gooseneck compensation prevents 5th wheel overload
- Built with non-developmental components
- Adjustable deck incline eases loading / unloading
- Mission-capable in all environments
- Flexible
- Maneuverable
- Maintainable



PERFORMANCE FEATURES

PAYLOADS

Tracked and wheeled vehicles – even disabled – as well as breakbulk cargo and ISO containers. Optimized for transport of the Abrams Main Battle Tank (M1 series). Can transport up to 70 tons at reduced speeds

TRACTORS

Compatible with current and future U.S. and NATO tractors, including M1070, M911, M746 and MK48/16, SLT50-2, as well as M916 for heavy-duty medium equipment transport role

MOBILITY

Highways (45 mph / 72 km/h), secondary roads (40 mph / 64 km/h), and trails and cross country (15 mph / 24 km/h)

TURNING

Tight turns with no tire scrub and minimal off-track. Negotiates intersections of 30-foot wide (9.1 m) roads in one uninterrupted pass. Manual steering for low-speed maneuvers in tight clearance locations

HYDRAULICS

Fingertip control of deck height (± 25.4 cm/ ± 10 inches), gooseneck angle and axle jacking. Diesel auxiliary power supply is provided

DIMENSIONS AND WEIGHT (STANDARD DECK)

O/A length 52 feet (15.8 m). Deck height adjusts ± 10 inches (± 250 mm). Deck length 33.6 feet (10.2 m). Deck width 10 feet / 3.05 m. Deck height 43 inches (1.1 m). Trailer weight 50,400 lbs. (22, 860 kg)

RUNNING GEAR

Axles: five axle lines, two half-width axles per line; each axle can oscillate laterally to accommodate crowned roads and rough terrain

SUSPENSION

Hydraulic, equalized, independent from side to side; axle vertical travel ± 10 inches (250 mm), total 20 inch (500 mm)

STEERING

Hydraulically actuated mechanical linkage, axle lines 2, 3, 4 and 5 automatically steer to proper Ackerman geometry in accord with tractor-trailer angle, requires no modification to tractor or additional driver tasks

BRAKES

Two-line straight air with spring-actuated park/emergency features

TIRES

215/75 R17.5; 40 tires plus two spares

GOOSENECK PIVOTING & KINGPIN

Hydraulically supported gooseneck equalizes 5th wheel load and provides superior flexibility for grades and rough terrain, 5th wheel: nominal height 63 inch (1.6 m), variable and kingpin: 3.5 inch (89 mm) diameter, U.S. / NATO heavy duty standard, removable

WINCH

Compatible with all military tractor dual winches. USMC-version compatible with single winch

RELIABILITY

Suspension allows for limited operation with one disabled axle raised. Redundant steering and suspension provides for fail-safe operation

MAINTENANCE

Tire change by one person without removing payload within 30 minutes (axles rotate for access to inside tires). Deck height adjustment provides running gear maintenance access

SHIPPING

Air-transportable in C-5 with tractor and C-17 with trailer only. Sea-transportable on roll-on, roll-off vessels. Meets PPI (Berne Tunnel) envelope for rail shipment

SAFETY AND RELIABILITY

Mean time between failures is 3,000 miles, complies with U.S. DOT FMCSR and FMVSS. Dual-line redundant hydraulics preclude failure due to hose rupture

Specifications subject to change without notice.

Cleared by U.S. DoD/OSR for public release under OSR Case Number 09-S-2864, dated September 2, 2009 Copyright © Leonardo DRS, Inc. 2019 All Rights Reserved.

August 2022