

Tomorrow's Combat Mobility Has Arrived.



Trailing Arm Drive™

Trailing Arm

Hydraulic Cylinders located at each spring shock mechanism allow for raising or lowering of each wheel independently.

Hydrostatic Motor and Planetary Gearbox

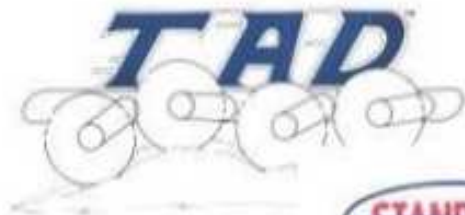
Variable Ground Clearance: Dimensions dependent upon vehicle upper

Trailing Arm

Disc Brake



Superior Speed



Outstand Maneuver



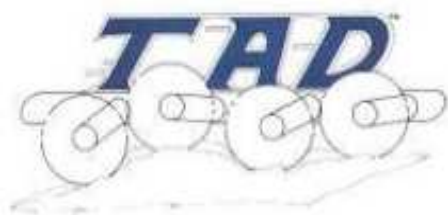
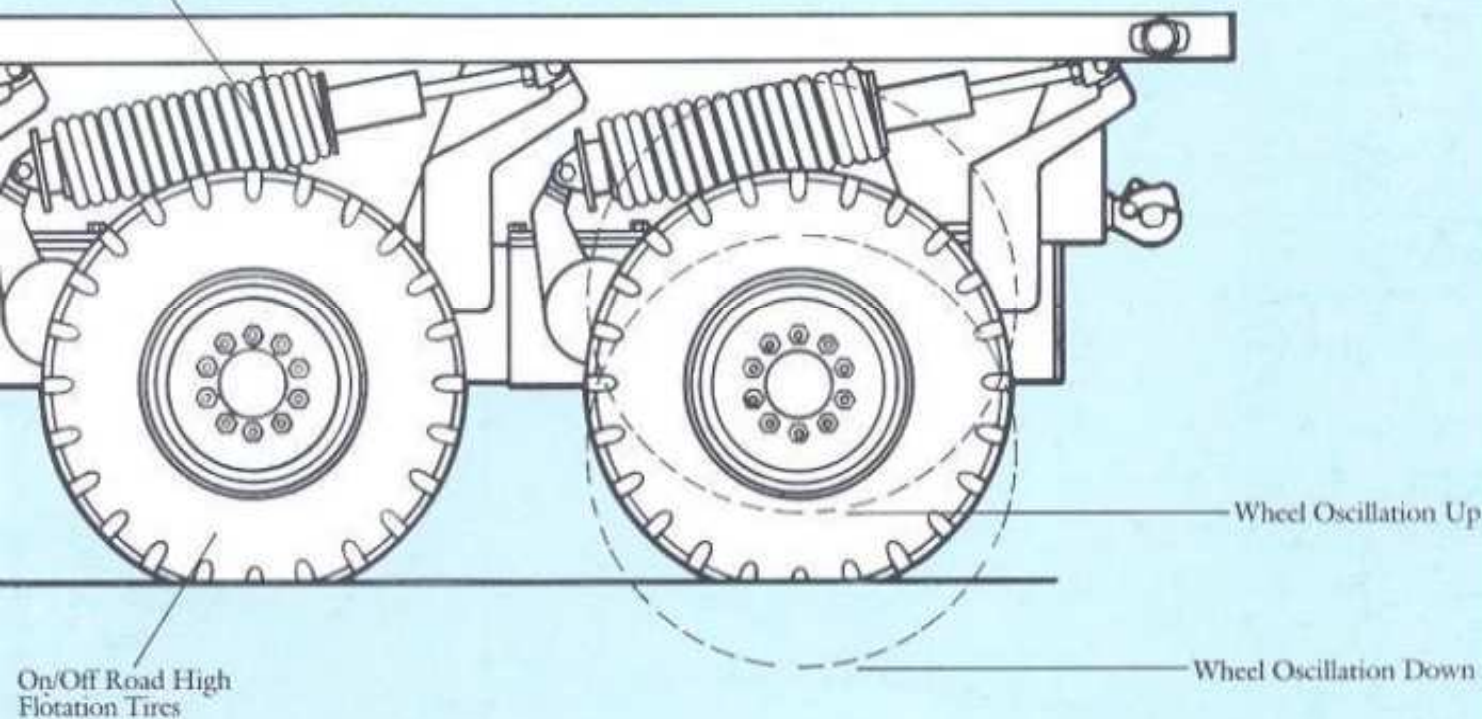
STANDARD MANUFACTURING COMPANY, INC.

MARC GUTZLER
PROJECT ENGINEER

4012 W. ILLINOIS AVE.
DALLAS, TEXAS 75211
214 - 357-8911

Drive™ Delivers:

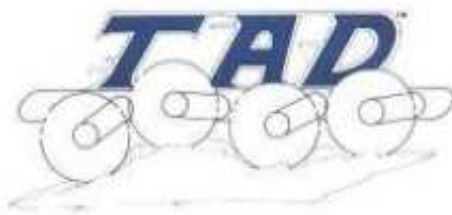
Hot Wound Alloy Steel
Extension Spring with heavy
duty high capacity shock
absorber— Typical all wheels



Low
Life
Cycle
Cost



Fewer
Drive Train
Components



Off-the-Shelf
Parts

No Terrain is Too Tough

Vulcan Wheeled Carrier

- Models range in size from under 1,000 lbs. to 100,000 lbs. gross vehicle weight, in either six- or eight-wheel configurations.
- Hydrostatic drive system provides speeds of up to 80 mph and facilitates combat-mobile rough terrain maneuvering.
- Independent trailing arm controls allow for variable ground clearance, which improves skid steering on hard surfaces, increased vehicle stability and improved sideslope operation.
- Dual brake system utilizes hydrostatic braking and disc brakes at each wheel.
- Recent advances in "run-flat" technology will prevent tire damage from small arms fire.
- Standard can supply Trailing Arm Drive™ Undercarriages as either components or complete running vehicles.



For Trailing Arm Drive™

HYDROSTATIC DRIVE AND BRAKING mean optimum torque at all operating speeds. On either side, all trailing arms are jointly driven from the gearbox common to that side. This allows any wheel (or combination of wheels) to receive full drive power when one or more wheels on the same side has traction. The gearbox is driven by a hydraulic motor. Disc brakes, located at each wheel, function not only as service brakes, but parking brakes as well.

VARIABLE GROUND CLEARANCE is a real plus for any operator who navigates obstacles like rocks, tree stumps, gulleys and other natural variables of rough terrain. With Standard's Trailing Arm Drive™ (TAD) Undercarriages, variable ground clearance controls are at your fingertips with a single direct cylinder control. This allows you to raise or lower each wheel individually (or the sides or ends simultaneously) for load leveling on uneven

terrain and increased combat-grade rough terrain mobility.

A MINIMAL WHEELBASE gives the TAD™ Undercarriage effortless skid-steer maneuverability with all four end wheels raised. This reduces the vehicle's turning power requirement by as much as 60 percent, which aids in counterrotation-type turns. By raising the center wheels and rigid-locking the front axles, stability over the end wheels is increased.

TRAILING ARM DRIVE™ VEHICLES CAN GO where others cannot — and we'll get you there faster! Asphalt or concrete surfaces can easily be pulverized with a single use of a tracked vehicle. Yet, the same surfaces may be used repeatedly by a rubber-tired TAD™ Undercarriage without any damage to the roads.

Additionally, Trailing Arm Drive™ vehicles easily surpass four-wheel drive, standard transmission vehicles which have limitations in torque, flotation and rough terrain mobility.



Standard Manufacturing Company, Inc., is a Small Business prime contractor (100 employees) which has served Government and industry around the world since 1938 with design, engineering, precision manufacturing, product studies, product test programs and every possible support capability, for an effective, fully in-house operation. Standard's specialty since 1947 has been the design and development of power driven ground transport equipment, having served the U.S. Military with over 30 major pieces of mobile munitions handling equipment and hundreds of support systems, a large portion of which represent today's state-of-the-art ... worldwide.





S.E.E. Vehicle

The Small Emplacement Excavator features a top speed of 45 mph, adjustable center wheels and suspension lockout on all wheels.

With its heavy duty spring/shock assembly and rugged one-cubic-yard loader bucket (with heavy-duty rock backhoe bucket), the S.E.E. Vehicle still navigates rough terrain with ease. It is fully operable in all types of terrain and incorporates ROPS protection. Both loader and backhoe are equipped for quick detachment from the vehicle.

Specifications

| | |
|---|--|
| Vehicle Weight | 16,000 lbs. |
| Length | 300 inches |
| Width | 96 inches |
| Height (to top of cab) | 94 inches |
| Height (with backhoe in transport position) | 132 inches |
| Steering | Hydrostatic, Skid Steering (allows 360° counterrotation) |
| Maximum Speed | 45 mph |

| | |
|--------------------|--|
| Suspension | Independent suspension of all wheels, with height-adjustable center wheels |
| Engine | 6-Cylinder Turbocharged Diesel, 121 HP @ 2200 rpm |
| Brake System | Dual system, using Hydrostatic Braking and Hydraulic Disc Brakes at all wheels |

Vulcan Wheeled Carrier

The eight-wheel-drive Vulcan Wheeled Carrier (VWC) features hydrostatic drive/braking and a weight of 12,000 pounds, along with 360° counterrotation variable ground clearance from four to 16 inches, independent wheel height controls, a top speed of 45 mph and improved overall stability for accurate, precise close-in air defense.



Specifications

| | |
|--|---|
| Weight | 12,000 lbs. |
| Crew | 3 Men With Full Combat-Gear |
| Crew Communications | Radio With Full Crew Intercom and Field Phones |
| Ammunition (20mm): | |
| Magazine capacity | 550 Rounds |
| Reserve Ammunition | 2,000 Rounds |
| Drive System | All-Wheel Hydrostatic |
| Suspension System | 8-Wheel Independent Trailing Arm Drive™ |
| Steering | Automotive-Type Control With Counterrotation Capability |
| Overall Dimensions: | |
| Length | 195 in. |
| Width | 104 in. |
| Silhouette Height (variable) | 83 in. Fully Kneeled 87 in. Firing 95 in. Roading |
| Variable Ground Clearance | 4 in. to 16 in. |
| Air-Transportability In C-130 Aircraft | Two Per Aircraft |

Speed Ranges:

| | |
|--------------------------------|---|
| 1st— Severe Terrain | 0-5.5 mph |
| 2nd— Rough Terrain | 0-13 mph |
| 3rd— Cross Country | 0-18.9 mph |
| 4th— Maintained Surfaces | 0-45 mph |
| Brakes | Hydrostatic Braking and Power Disc Brakes |
| Lights | Combat Service and Blackout Lights |
| Engine: | |
| Model | AVCO 492 |
| Type | 4 cycle, 4 cylinder diesel |
| Horsepower | 90 @ 3600 rpm |
| Fuel Tank Capacity | 24 gal. |
| Optional Engine: | |
| Model | Detroit Diesel 6.2 Litre |
| Horsepower | 135 @ 3600 rpm |
| Tires | 10-16.5 1T |
| Tire Pressure | 50 psi. |
| Ground Pressure | 7.9 psi. |
| Slope Negotiation | 60% Longitudinal 60% Sideslope |
| Towing Capability | Vehicle Of Equal Weight |

Medium Combat Truck

This 3½ ton eight-wheel-drive rough terrain truck is a real workhorse. It is adaptable to dozens of configurations, from ambulance to container handler to wrecker with very little retrofit. It has a top speed of over 55 mph and true combat mobility. A supplemental air supply for trailer brakes is included.



Specifications

| | | | |
|---------------------------------------|--|---------------------------------------|--|
| Gross Vehicle Weight | 20,000 lbs. | Height (to top of cab, minimum) | 89.5 inches |
| Maximum Payload | 7,000 lbs. | Steering | Hydrostatic, Skid Steering (allows 360° counterrotation) |
| Engine | 6-Cylinder Turbocharged Diesel, 186 HP @ 2800 rpm | Suspension | 8-Wheel Independent, each wheel individually adjustable |
| Vehicle Length | 232 inches | Brake System | Dual System using Hydrostatic Braking and Hydraulic Disc Brakes at all wheels |
| Width | 96 inches | | |
| Height (to top of cab, maximum) | 108.5 inches | | |

Fire Ant

Standard's Radio-Controlled Antitank Vehicle has a top speed of 85 mph. It may be mounted with remotely operable weaponry or enough lethal ordinance to destroy tanks upon impact. Its low profile and velocity much greater than any tank in existence provide the optimal battlefield tank killer.



Specifications

| | | | |
|----------------------------|-------------------------------------|--------------------------|---|
| Vehicle Weight | 1,500 lbs. | Brakes | Hydrostatic Braking |
| Payload Capacity | 1,000 lbs. | Engine: | |
| Gross Vehicle Weight | 2,500 lbs. | Type | 4 Cyl. Diesel (gasoline engine optional) |
| Drive System | Hydrostatic | Horsepower | 90 hp @ 3600 rpm |
| Suspension System | Trailing Arm/Coil Spring Over Shock | Fuel Tank Capacity | 10 gal. |
| Steering | Radio Controlled Skid Steering | Tires | 5 x 18 Motorcycle-Type |
| Overall Dimensions: | | Tire Pressure | 30 psi. |
| Length | 110 in. | Ground Pressure | 3.2 psi. |
| Width | 61 in. | Slope Negotiation: | |
| Height | 46 in. | Longitudinal | 60% |
| Speed Ranges: | | Sideslope | 40% |
| 1st | 25 mph | | |
| 2nd | 85 mph | | |

ALL WHEEL DRIVE MEANS ALL WHEEL POWER...and it's never at less than maximum, providing smooth highway operation and readily available combat-grade rough terrain mobility. Hydrostatic drive allows for torque-controlled acceleration and deceleration. The increased shock load capacity delivers both comfort and greater stability to the operator, with less vibration.

High speeds, improved lifespan and an endless number of vehicle upper applications are Trailing Arm Drive's prime assets. It requires only a fraction of the maintenance time necessary for tracked vehicles, without the problems.

Less weight, better flotation, lower life cycle costs and no costly or complex differentials, U-joints or standard transmissions to replace allow T.A.D.TM vehicles to survive both corrosive and extreme climates. All moving drive train components are sealed in the two tubular steel sideframes and operate in a constant lubrication oilbath.

Standard can build Trailing Arm DriveTM Undercarriages or entire vehicles for you in either six- or eight-wheel configurations, with gross vehicle weights ranging from under 1,000 pounds to 100,000 pounds. We can also supply custom-designed armor plating and controls as needed, at your request.



Standard Manufacturing Company, Inc., is a Small Business prime contractor (under 500 employees) which has served Government and industry around the world since 1938 with design, engineering, precision manufacturing, product studies, product test programs and every possible support capability, for an effective, fully in-house operation. Standard's specialty since 1947 has been the design and development of power driven ground transport equipment, having served the U.S. Military with over 30 major pieces of mobile munitions handling equipment and hundreds of support items, a large portion of which represent today's state-of-the-art... *worldwide.*



Standard Manufacturing Company, Inc.
4012 W. Illinois Ave.
P. O. Box 210300
Dallas, Texas U.S.A. 75211-0300
Telex 73326
(214) 337-8911

SERVING ARMED FORCES WORLDWIDE FOR FOUR DECADES.

TADTM and Trailing Arm DriveTM are trademarks of Standard Manufacturing Company, Inc.