

Revegetation Equipment Catalog

Descriptions, applications, pictures, and sources for equipment used on rangelands.

Transport Trailers

Moving revegetation equipment from site to site requires trailers. Trailers can vary from small utility types pulled by an SUV or pickup to large semi-trailers. Information in this chapter covers some of the basic types that are available, but it is not all-inclusive. Some companies specialize in one type while most companies provide a wide range of trailers. Many welding and fabrication shops build trailers for local and regional needs. Trailers must meet state and federal requirements and have current license plates and safety inspections to be used on public highways. Safety, such as proper hitching including the use of safety chains, trailer lights working properly, and equipment securely fastened to the trailer, should always be practiced.

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Cargo Trailers



Description & Application

Cargo trailers are enclosed units designed to protect material carried from site to site such as plants, hand and power tools, research instruments, construction materials, and small tractors. The rear door opens to form a ramp for easy loading. Additional side doors are available. They can vary from 6- to 40-feet in length and may have 1 to 3 axles.

Sources

The following manufacturer's website lists information on equipment sizes, accessories, dealers, and contact information.

[Pace American Indiana](#)

Middlebury, IN 46540

Utility Trailers



Description & Application

Utility trailers are flatbed trailers designed to haul equipment. They can vary from small units for hauling equipment such as motorcycles to large, heavy-duty units for hauling tractors, implements, and supplies. Trailer tongues attach to the rear of a truck with a ball or "pintle" hitch or a "gooseneck" hitch that attaches to a pin (fifth-wheel or king-pin) in the truck bed. Bed length varies from 6 to 40 feet. They may use 1, 2, or 3 axles with single or dual tires. Some trailers are equipped with manual ramps to facilitate loading tractors. Loading ramps are usually steep and tractors must be loaded carefully. In some cases, when implements are attached to the tractor the steep angle stalls the loading operation. Tilt-bed trailers are available to facilitate loading, and they may be equipped with a winch to aid in loading equipment. These small to medium size utility trailers can range up to about 40,000 pounds carrying capacity. Licensing agencies may rate trailer by GVWR (gross vehicle weight rating) or GAWR (gross axle weight rating). Larger trailers are classified as semi-trailers, and they may reach up to 100,000 pounds capacity or more.

Sources

The manufacturers' websites list information on equipment sizes, accessories, dealers, and contact information.

[Big Tex Trailers](#)

Mt Pleasant, TX 75455

[Gooseneck Trailer Mfg. Co., Inc.](#)

Bryan, TX 77806

[Superior Trailers of Colorado](#)

Denver, CO 80229

[TRAIL-EZE trailers](#)

Mitchell, SD 57301

[Trailtech, Inc.](#)

Saskatchewan, Canada S0H 1X0

Hydraulic Trailers



Description & Application

Hydraulic trailers use a hydraulic cylinder to move the axles forward during loading and another cylinder in the trailer's gooseneck (or tongue) to tilt the bed. This combination provides a loading angle of about 8 degrees. Tractors with attached implements can easily be driven onto the trailer bed. These trailers are equipped with winches to aid in pulling equipment onto the bed and securing it during transport. After equipment is loaded, the trailer bed is leveled and the axles are moved rearward to the normal transport position. A 20,000 lb capacity unit uses two axles with dual wheels, and it can be towed by a medium size truck (2- to 4.5-ton truck). Trailer length is 28, 32, or 39 feet. These trailers are well suited for moving revegetation equipment to work sites because of the ease in loading and unloading in the field. Larger capacity units are available, but they require semi-trucks for towing.

Sources

The manufacturer's website lists information on equipment sizes, accessories, dealers, and contact information.

[Landoll Corporation](#)

Marysville, KS 66508

Semi-trailers



Description & Application

Lowbed semi-trailers, also called "lowboys," are designed for loading and hauling heavy equipment. Hauling capacity ranges from 40 to 50 tons or more. They are used to haul crawler tractors, excavators, large rubber-tired tractors, and other heavy machines. Lowbed trailers are designed for loading and unloading under field conditions and several types are available. The large trucks that pull these trailers are equipped with heavy-duty winches to assist in loading. A fifth-wheel kingpin, located under the front platform or gooseneck, joins the trailer to the truck. Many goosenecks fold down or detach from the trailer bed to facilitate loading and unloading. The gooseneck is then repositioned and locked in place for transport. Caution should be exercised when dealing with heavy equipment to prevent injury as well as proper attachment ("booming") of equipment to the trailer to prevent accidents. Special hauling permits may be required, especially for oversized loads.

Sources

The manufacturers' websites list information on equipment sizes, accessories, dealers, and contact information.

[Fontaine Trailer](#)

Springville, AL 35146

[Landoll Corporation](#)

Marysville, KS 66508

[Ledwell & Sons Enterprises](#)

Texarkana, TX 75504

[Load King](#)

Elk Point, SD 57025

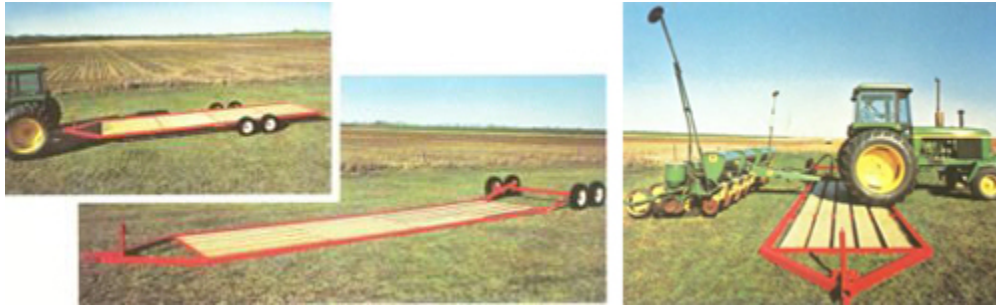
[Overbilt Trailer Company](#)

Drumright, OK 74030

[Witzco Challenger Trailers](#)

Sarasota, FL 34238

Implement Carrier



Description & Application

Flatbed implement carriers were developed to haul wide farm implements short distances between fields. Often they are pulled by the tractor that loads the implement. To lower the platform to ground level, wheel locks are engaged, the carrier bed clamps are released, and the carrier bed is pulled forward. The bed runs down runners to reach ground level. With the bed level on the ground, an implement can be towed onto the carrier bed. After loading, the carrier bed is pushed back over the wheels, and the bed carrier clamps are secured. The wheel locks are released, and the trailer is ready to be towed. Trailer widths are 6 to 9 feet, and lengths are 21 to 48 feet. Carrying capacity is 10,000 to 16,000 pounds. They are well suited for carrying implements, bales of hay, and other supplies in the field or highway.

Sources

The manufacturer's website list information on equipment sizes, accessories, dealers, and contact information.

[Donahue Corporation](#)

Durham, KS 67438

Specialized Carriers and Equipment

Rollbacks

Rollbacks are truck beds that roll back and tilt so tractors and equipment can be driven or pulled onto the bed with the winch. Bed lengths range from 22 to 28 feet and load capacity varies up to 30,000 pounds, depending on the size of the truck. Hydraulics power the rollback and winch systems. These units are versatile for hauling small to medium-sized tractors and equipment. State and federal regulations must be observed as well as safe loading practices.



Rollback truck bed extended for loading. Photo courtesy Ledwell & Son Enterprises.

Self-loading Implement Trailer

The self-loading implement trailer uses a small crane that attaches to an implement's 3-point hitch and moves the implement onto the trailer. A self-contained engine on the trailer powers the crane's hydraulic system. The long, narrow trailer is towed by a pickup truck. It is useful for transporting grass drills and similar implements.



Self-loading implement trailer with a drill being loaded. Photo courtesy of Tensas Machine & Manufacturing.

Truck Beds and Cranes

Truck beds, with the exception of those for pickups, are purchased separately from trucks. Many local and regional fabrication shops build truck beds. Several manufacturers build regular, service, and crane specialty truck beds.

Telescoping cranes that mount on service truck beds are useful for lifting heavy loads when repairing tractors and implements. They are powered by the truck's heavy-duty battery. Boom capacities range from 2,000 to 10,000 pounds and reach varies from 4 to 25 feet. Truck and cargo bed size determines the size of a crane. Crane companies usually offer service cargo beds that match crane and truck size.



Telescoping crane that mounts on a service truck bed. Photo courtesy of Auto Crane Company.

Trailer Parts

Trailer parts and accessories are available from many parts stores and trailer specialty shops.

Sources

The manufacturers' websites list information on equipment sizes, accessories, dealers, and contact information.

[Auto Crane Company](#)

Tulsa, OK 74158-0697

[Douglas Truck Bodies, Inc.](#)

Bakersfield, CA 93301

[General Truck Body Mfg. Company](#)

Houston, TX 77222

[Ledwell & Son Enterprises](#)

Texarkana, TX 75504

[Reading Truck Body, Inc.](#)

Shillington, PA 19607

[Tensas Machine & Manufacturing, L.L.C.](#)

Newelton, LA 71357