

**Categories of Off-Road
Self-Propelled Work
Machines—
SAE J1116 JUN85**

SAE Recommended Practice
Last Revised June 1985

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CATEGORIES OF OFF-ROAD SELF-PROPELLED WORK MACHINES—SAE J1116 JUN85

SAE Recommended Practice

Report of the Off-Road Machinery Technical Committee, approved July 1975, last revised June 1985. Rationale statement available.

Purpose—This recommended practice establishes categories of off-road self-propelled work machines. Where possible, this recommended practice shows which standards writing organization—SAE or other—will be responsible for each category for machine identification terminology, component nomenclature, definitions of specification terms, and other standards and recommended practices.

Scope—This recommended practice applies to machines that are in regular commercial production. Included are the following categories:

- Construction
- General Purpose Industrial
- Agricultural
- Forestry
- Specialized Mining Machinery
- Powered Industrial Trucks

In spite of the appearance of the same names, such as *tractors* and *loaders* in more than one category, further development of this and related recommended practices will demonstrate that there are differences in the fully-equipped working machine that may require distinction as to intended end-point field usage. These differences include:

- Names of optional implements.
- Names of components of optional implements.
- Definitions of specification terms as affected by installed optional implements.
- Different mounting provisions on the machines for implements and other attachments.
- Differences in design to achieve objectives for performance, durability, or operator or public safety.

1. SELF-PROPELLED CONSTRUCTION MACHINES

Purpose—This recommended practice establishes categories of self-propelled construction machines.

Scope—This recommended practice applies to machines that are in regular commercial production. Construction machines are divided into two classes—Earthmoving and Other Than Earthmoving.

1.1 SELF-PROPELLED CONSTRUCTION MACHINES—EARTHMOVING

Purpose—This recommended practice provides identification terminology for earthmoving machines. Identification is determined by the end-point usage intended by the manufacturer's design objectives.

Scope—This recommended practice applies to machines that are in regular commercial production. They are used on unimproved surfaces. They are used for moving earth and other material on projects such as roads, dams, open pit excavation, quarries, trenching, and building sites. Included are such machines as:

- Tractors
- Loaders
- Dumpers
- Tractor-Scrapers
- Excavators
- Continuous Diggers
- Graders
- Augers
- Backhoe Loaders

Not included are machines intended for use on improved surfaces such as in-plant material handling, highway, water, air transport, or for agricultural purposes.

Refer to SAE J1057 for identification terminology.

NOTE: Above named machines are listed as examples. The lists are not intended to include all machines in current production.

1.2 SELF-PROPELLED CONSTRUCTION MACHINES—OTHER THAN EARTHMOVING

Purpose—This recommended practice provides identification terminology for construction machines other than earthmoving. Identification is determined by the end-point usage intended by the manufacturer's design objectives.

Scope—This recommended practice applies to machines that are in regular commercial production. They are intended for use on unimproved surfaces. They are used on projects such as roads, dams, and building

OFF-ROAD SELF-PROPELLED WORK MACHINES

1. Construction		2. General Purpose Industrial	3. Agricultural	4. Forestry	5. Specialized Mining Machinery	6. Powered Industrial Trucks (For reference only. Powered industrial trucks are covered by standards developed by the American Society of Mechanical Engineers.)
1.1 Earthmoving	1.2 Other than Earthmoving					
Tractors (1) (4) Loaders (1) (4) Backhoe Loaders (1) (4) Graders (4) Tractor-Scrapers (4) Dumpers (4) Excavators (4) Continuous Diggers (4) Augers (4)	Cranes Pavers Soil Stabilizers Rollers and Compactors Pipelayers	Tractors (1) Loaders (1) Backhoe Loaders (1) Mowers Trenchers	(All other agricultural implements and self-propelled machines are covered by standards developed by ASAE. Examples of such machines include combines, cotton pickers, hi-clearance sprayers, forage harvesters, beet harvesters, balers, etc.)	Skidders Forwarders Fellers Self-Propelled Log Loaders Debarkers Delimbers Chippers Slashers Mobile Yards Feller-Bunchers Feller-Skidlers Feller-Forwarders Processors Harvesters	Continuous Miners Face Drills Roof Drills Cutting Machines Loading Machines Rubber Tired Haulage Vehicles Locomotives Personnel Carriers Mechanics Trucks Rock Dusting Machines	Fork Lift Trucks Platform Trucks Motorized Hand Trucks Motorized Hand/Rider Trucks Narrow Aisle Trucks Order Picker High Lift Trucks Pallet Trucks Reach Trucks Side Loader Trucks Straddle Trucks Rough Terrain Fork Lift Trucks Aircraft Towing Tractors Baggage Towing Tractors

NOTE: Above named machines are listed as examples. The lists are not intended to include all machines in current production.

(1) Machines that appear in more than one category may have similar terminology but may have different performance, durability, or design requirements for safety objectives, and may have different provisions for optional attachments.

(2) Further descriptions of agricultural tractors will be developed jointly by SAE and ASAE.

(3) Further descriptions of these machines will be developed by ASAE.

(4) For machine identification terminology see SAE J1057.

(5) For terminology of agricultural equipment see SAE J1150.

The ϕ symbol is for the convenience of the user in locating areas where technical revisions have been made to the previous issue of the report. If the symbol is next to the report title, it indicates a complete revision of the report.