

Categories of Off-Highway Self-Propelled Work Machines—SAE J1116

SAE Recommended Practice
Editorial change April 1978

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Society of Automotive Engineers, Inc.
400 COMMONWEALTH DRIVE, WARRENDALE, PA. 15096



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CATEGORIES OF OFF-HIGHWAY SELF-PROPELLED WORK MACHINES—SAE J1116

SAE Recommended Practice

Report of Construction and Industrial Machinery Technical Committee approved July 1975. Editorial change April 1978.

Purpose—This standard establishes categories of off-highway self-propelled work machines. Where possible, this standard 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 standard applies to machines that are in regular commercial production. Included are the following categories:

- Construction
- General Purpose Industrial
- Agricultural
- Forestry
- Underground
- 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 standards 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 as affected by different objectives for performance, durability or operator or public safety.

1. SELF-PROPELLED CONSTRUCTION MACHINES

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

Scope—This standard 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 and related standards provide identification terminology for earthmoving machines. Identification is determined by the end-point usage intended by the manufacturer’s design objectives.

Scope—This standard 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
- Rollers/Compactors
- Continuous Diggers
- Graders
- Augers

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 and related standards provide 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 standard 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 sites. Included are such machines as:

- Cranes
- Pavers
- Soil Stabilizers

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

2. SELF-PROPELLED GENERAL PURPOSE INDUSTRIAL MACHINES

Purpose—This and related standards provide identification terminology for general purpose industrial machines. Identification is determined by the end-point usage intended by the manufacturer’s design objectives.

OFF-HIGHWAY SELF-PROPELLED WORK MACHINES

1. Construction		2. General Purpose Industrial	3. Agricultural	4. Forestry	5. Underground	6. Powered Industrial Trucks
1.1 Earthmoving	1.2 Other than Earthmoving					
Tractors (1) (4) Loaders (1) (4) Graders (4) Tractor-Scrapers (4) Dumpers (4) Rollers & Compactors (4) Excavators (4) Continuous Diggers (4) Augers (4)	Cranes Pavers Soil Stabilizers	Tractors (1) Loaders (1) Mowers Trenchers	Agricultural Tractors (2) (5) Combines (3) Cotton Pickers (3) Hi-Clear Sprayers (3) Forage Harvesters (3) Beet Harvesters (3) Balers (3)	Skidders Forwarders Fellers Self-Propelled Log Loaders Debarkers Delimiters 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 (Further descriptions of these machines are covered in ANSI B56)

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 operator safety design 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.