

Global Manufacturing Standards	 Weight Marking of Manufacturing Equipment	Standard Number w-KA1
		Issue Date: 20060626
		Rev:

1. Purpose and Scope

This standard defines the requirements of weight marking of machinery and equipment shipped into any Ford Motor Company facility that may be subject to lifting or transportation.

1.1 Applicability/Scope:

This standard shall be applied to all machinery and equipment where individual pieces or groups of component pieces may be lifted or transported either in whole or as a sub-assembly. Any equipment or machinery which may be subject to lifting or transportation, having an individual mass exceeding 100Kg (220 lb), is subject to these requirements.

All new machinery and equipment must comply with the requirements of this standard. Deviations to this standard may only be obtained through respective Division Safety Office's.

Equipment being removed from one Ford location and being installed in another Ford location is subject to the requirements of this standard.

Facilities equipment such as cooling towers, air houses, tanks, fans, coolant systems and emission control equipment are subject to the requirements of this standard.

This standard shall apply to all Ford Motor Company locations.

1.2 Exceptions:

Existing machinery and equipment shall be exempt from the requirements of the standard EXCEPT where machinery is removed from its original production location to undergo re-build and is re-installed in a new location.

1.3 Mandatory and Preferred Items:

Mandatory requirements for this standard are characterized by the use of the word "shall". There are no deviations for these requirements. Preferred items are characterized by the use of the word "should".

1.4 Objectives:

The objectives of this manufacturing standard are as follows:

- Specify mandatory visual factory weight marking requirements for new equipment and machinery.
- Specify visual factory lift point identification requirements for new equipment and machinery.

2. Reference Standards

2.1 Ford Standards and Specifications

UAW-Ford Lifting and Rigging Mini Manual Training Guide

Manufacturing Engineering

Feb. 2006

General Guidelines

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Documents

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W-DX - Worldwide Die Design and Construction Specifications, Vehicle Operations

2.2 Industry Standards

ISO TR 10232 – General-purpose flat pallets for through transit of goods – Design rating and maximum working load

ISO TR 10233 – General-purpose flat pallets for through transit of goods – Performance requirements

ISO TR 11444 – Quality of sawn wood used for the construction of pallets

3. Definitions

Manufacturing machinery – Any piece of equipment used to machine, handle, or assemble components or other pieces of materials that are part of the automotive manufacturing and assembly process.

Gross weight – The total weight of a collection of pieces of machinery or equipment contained on or within a unit package (i.e. pallet or shipping container).

Net weight – The total weight of an individual piece of equipment or machinery that is shipped as a unit load.

4. Appendices

None

5. General Requirements

Individual component unit loads shall be labelled with the net weight of that piece of equipment or machinery. Pallets and packaging containing more than one piece of equipment shall be labelled or tagged with gross weight of all equipment and associated packaging.

The weight marking of machinery and equipment to be delivered and installed in Europe must comply with the requirements of European Council Machinery Directive 98/37/EC, Annex 1, Paragraph 1.7.3 and 1.7.4.

Personnel involved in handling equipment and machinery shall be trained in proper lifting and rigging practices.