



Standard Specification for Pneumatic Rotary Descaling Machines¹

This standard is issued under the fixed designation F 1348/F1348M; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This specification covers requirements for pneumatic rotary descaling machines for removal of paint, rust, scale, nonskid deck covering, and other coatings from steel and aluminum structures. These portable machines are intended for use in a marine environment, subject to salt air and spray during use and high humidity during storage.

1.2 The values stated in either inch-pound units or SI units are to be regarded separately as standard. The values stated in each system are not exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in nonconformance with the specification.

1.3 The following precautionary statement pertains to the test method portion only, Section 12, of this specification: *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.* Specific precautionary statements are given in 17.2.1.

2. Referenced Documents

2.1 ASTM Standards:

B 209 Specification for Aluminum and Aluminum-Alloy Sheet and Plate²

D 4417 Test Method for Field Measurement of Surface Profile of Blast Cleaned Steel³

F 1166 Practice for Human Engineering Design for Marine Systems, Equipment, and Facilities⁴

2.2 Federal Standard:

Fed. Std. No. 123 Marking for Shipment (Civil Agencies)⁵

2.3 Federal Specifications:

PPP-B-566 Boxes, Folding, Paperboard⁵

PPP-B-601 Boxes, Wood, Cleated-Plywood⁵

PPP-B-621 Boxes, Wood, Nailed and Lock-Corner⁵

PPP-B-636 Boxes, Shipping, Fiberboard⁵

¹ This specification is under the jurisdiction of ASTM Committee F-25 on Ships and Marine Technology and is the direct responsibility of Subcommittee F25.07 on General Requirements.

Current edition approved July 15, 1991. Published September 1991.

² Annual Book of ASTM Standards, Vol 02.02.

³ Annual Book of ASTM Standards, Vol 06.02.

⁴ Annual Book of ASTM Standards, Vol 01.07.

⁵ Available from Standardization Documents Order Desk, Bldg 4 Section D, 700 Robbins Ave., Philadelphia, PA 19111-5094, Attn: NPODS.

PPP-B-640 Boxes, Fiberboard, Corrugated, Triple Wall⁵

PPP-B-676 Boxes, Setup⁵

2.4 Military Standards:

MIL-STD-129 Marking for Shipment and Storage⁶

MIL-STD-147 Palletized Unit Loads⁶

2.5 Military Specifications:

MIL-B-117 Bags, Sleeves and Tubing⁶

MIL-H-775 Hose, Hose Assemblies; Rubber, Plastic, Fabric or Metal (Including Tubing); and Associated Hardware: Packaging of⁶

MIL-L-17331 Lubricating Oil, Steam Turbine, Noncorrosive⁶

DOD-G-24508 Grease, High Performance, Ball Roller Bearing, Continuous Run to 300°F⁶

2.6 ABS Publication:

ABS Rules for Building and Classing Steel Vessels⁷

3. Classification

3.1 Descaling machines are available in two types and two classes, as follows:

3.1.1 Type 1, Hand-Held:

3.1.1.1 Class A—Inch-pound design, and

3.1.1.2 Class B—SI metric design.

3.1.2 Type 2, Deck-Supported:

3.1.2.1 Class A—Inch-pound design, and

3.1.2.2 Class B—SI metric design.

3.2 Hubs for use with descaling machines are available in four classes, as follows:

3.2.1 Class A—Nonmetallic, nonwoven, noncontaminating,

3.2.2 Class B—Peening hub for aluminum surfaces,

3.2.3 Class C—Metallic hammer type for steel surfaces, and

3.2.4 Class D—Metallic cutter type for steel surfaces.

4. Ordering Information

4.1 Orders for material under this specification shall include the following:

4.1.1 Title, number, and date of this specification,

4.1.2 Quantity,

4.1.3 Type and class required (see Section 3),

4.1.4 Test and inspection certification requirements, if applicable (see Section 15),

⁶ Available from American Bureau of Shipping, ABS Plaza, 16855 Northchase Dr., Houston, TX 77060.

⁷ Available from Uniform Classification Committee Agent, Tariff Publication Officer, Room 1106, 222 S. Riverside Plaza, Chicago, IL 60606.