

JIS

JAPANESE INDUSTRIAL STANDARD

Standard Form of Specifications of Asphalt Finishers

JIS A 8701—1985

Translated and Published

by

Japanese Standards Association

Printed in Japan

In the event of any doubt arising,
the original Standard in Japanese is to be final authority.

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Standard Form of Specifications of Asphalt Finishers A 8701-1985

1. Scope

This Japanese Industrial Standard specifies the form of specifications for asphalt finishers, hereinafter referred to as "specification form", and the gist of writing the specifications in the form.

Remark: The units and numerical values given in { } in this Standard are based on the International System of Units (SI) and are appended for informative reference.

2. Specification Form

2.1 The specifications shall be prepared according to the form shown in Attached Table.

2.2 The specifications are intended to show the summary of the performance and characteristic elements of asphalt finishers, and the items to be written may be appropriately selected according to the purpose.

Further, where required, the construction and material of each part and the testing method, etc. shall also be written.

2.3 Where required, drawings such as a full drawing shall be attached.

3. Gist of Writing in Specification Form

The gist of writing in the specification form and the order of writing shall be as follows:

3.1 Type and Designation of Vehicle These shall be used for designation of asphalt finishers and be written in the following order:

Abbreviation of manufacturer's name, nomination, nomenclature of asphalt finisher.

3.2 Manufacturer's Name The manufacturer's name shall be written.

3.3 Total Mass of Finisher The mass in the prepared service condition⁽¹⁾ shall be written. However, the mass shall be that of the finisher carrying the specified volume of fuel.

Note ⁽¹⁾ The prepared service condition means a condition in which the fuel carried is not less than $\frac{2}{3}$ of the tank capacity and the quantities of cooling water, lubricating oil, and working fluid carried, tire air pressure, etc. agree with the values respectively specified for the vehicle, and in which extensions are attached to the screed device and the finisher is perfectly equipped with portable tools and other accessories and is ridden by the specified number of riders (55 kg per a rider).

Applicable Standards: See page 7.

3.4 Engine Power Output The rated output of the engine prepared for installation in the finisher shall be written in accordance with JIS D 1001 or JIS D 1005.

3.5 Performance

- (1) Travel Speed The travel speed at each speed stage at the rated rotating speed of the engine shall be written.
- (2) Minimum Turning Radius The radius of the locus of the outermost part of the body and that of the locus of the outer side of the crawler belt bearing face or that of the locus of the center of the outer front wheel tire when the vehicle turns with the minimum possible radius shall be written.
- (3) Hill Climbing Ability The slope angle at which the vehicle can climb continuously in the prepared service condition shall be written.
- (4) Paving Width The standard paving width⁽²⁾ and the maximum paving width with which the finisher can continuously pave the ground surface with heated mixture shall be written.

Note (2) The standard paving width means the paving width obtained when the extensions are detached.

- (5) Paving Thickness The minimum paving thickness and the maximum paving thickness with which the finisher can continuously pave with heated mixture, and in addition, the corresponding range of working speed, paving width, and the kind of heated mixture shall be written.

3.6 Dimensions

- (1) Overall Length The maximum overall length of the asphalt finisher with the screed device lowered to the ground surface shall be written.
- (2) Overall Width The maximum width of the finisher during operation with the standard paving width, and the maximum width during transportation shall be written.
- (3) Overall Height The height measured from the bottom surface of the crawler belt or from the tire bearing face to the uppermost part shall be written.
- (4) Crawler Belt Center Distance The center distance between the left and right crawler belt (applied only to crawler type finishers) shall be written.
- (5) Tread The center distance between the left and right tires, for front and rear wheels respectively (applied only to wheeled type finishers) shall be written.
- (6) Ground Contact Length The horizontal distance between the centers of the drive tumbler and idler tumbler when crawler belts consisting of the specified number of crawler shoes are attached (applied only to crawler type) shall be written.

- (7) Wheel Base The horizontal distance between the centers of the front and rear wheel axes (only for wheeled type).
- (8) Crawler Shoe Width Width of crawler shoes shall be written.
- (9) Ground Pressure or Linear Pressure For crawler type, the value obtained by dividing the total weight by two times the product of crawler belt ground contact length and crawler shoe width shall be written; for wheeled type, the value obtained by dividing wheel load by tire ground contact width.

3.7 Engine The following items shall be written in accordance with JIS D 0006, as appropriate.

- (1) Designation The following matters shall be written in the following order.
 - Manufacturer's name or its symbol, nomination, and kind.
 - For the kind, distinction of diesel engine or gasoline engine shall be written.
- (2) Type The following matters shall be written in the order indicated.
 - Cycle, cooling system, cylinder arrangement, type of combustion chamber, method of supercharging, etc.
- (3) Number of Cylinders - Bore x Stroke The number of cylinders, bore, and stroke shall be written.
- (4) Total Stroke Volume The total stroke volume shall be written.
- (5) Performance
 - (a) Rated Speed of Rotation Rated speed of rotation shall be written.
 - (b) Rated Output Rated output shall be written.
 - (c) Maximum Torque The maximum torque in the load test and corresponding speed of rotation shall be written.
- (6) Fuel System
 - (a) Fuel The kind of fuel shall be written.
 - (b) Fuel Consumption The fuel consumption at continuous rated output shall be written.
 - (c) Speed Governor Type of speed governor shall be written.
- (7) Lubrication System
 - (a) Lubricating Method Distinction of splash type, gear pump forced feed type, or the like shall be written.