

# JIS

**JAPANESE INDUSTRIAL STANDARD**

**Standard Form of Specifications  
of Head-feeding Type  
Combines**

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Standard Form of Specifications of  
Head-feeding Type Combines

B 9218-1986

## 1. Scope

This Japanese Industrial Standard specifies the standard form of specifications and its entry gist of head-feeding combines (<sup>1</sup>), hereinafter referred to as the "combines".

Note (<sup>1</sup>) It is also expressed by JIDATSUGATA combines, but in this standard it is called to be head-feeding dye combines.

Remark: The units and numerical values given in { } in this Standard are based on the traditional units and are appended for informative reference.

## 2. Standard Form of Specifications

The standard form of specifications shall be as follows:

- (1) The standard form of specifications shall be in accordance with Attached Table 1 and Attached Table 2.
- (2) Attached Table 1 indicates the summary of elements and performances of combines, Attached Table 2 indicates uses, preparation and details for other technical purposes, and is used in combination with Attached Table 1.
- (3) Items may be selected corresponding to purposes, as required, structure, materials, test method, etc. of each part shall be appended and the drawings such as full view, layout drawing near the operator cab, etc., added.
- (4) On the full view, outlines of outer profile of combine, layout of cab, and the like, and main dimensions shall be indicated.
- (5) On the layout drawing near the operator cab, outlines and main relating dimensions of steering lever, each type pedal, each type lever, instruments, indicating apparatuses required for operation and travelling of combine shall be shown.

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Applicable Standards: See page 9.

3. Entry Gists of Specifications

The entry gists of specifications shall be as follows:

- (1) Attached Table 1 The entry gist of Attached Table 1 shall be as follows:
  - (1.1) Name and Style Enter the manufacturer's name mark and style symbol attached to the combine.
  - (1.2) Common Name The common name of the manufacturer shall be entered.
  - (1.3) Manufacturer's Name The name of manufacturing company or name of manufacturing factory of combine, and the like shall be entered.
  - (1.4) Division of Classes The division of small class special automobile or large class special automobile according to the Road Vehicles Act shall be entered.
  - (1.5) Main Dimensions The dimensions at the time of storage under the standard equipped condition of combine shall be entered, and dimensions at standard working, entered in parentheses.
    - (a) Overall Width The maximum width shall be entered and its position, appended.
    - (b) Overalldl Width The maximum width shall be entered and its position, appended.
    - (c) Overall Height The height from the ground up to the highest part shall be entered and its position, appended.
    - (d) Minimum Ground Clearance The ground clearance of the lowest part of machine body near the machine body central line shall be entered its position, appended.
  - (1.6) Overall Mass The mass in the standard equipped condition when the fuel is fully laden, the lubricating oil, working oil and cooling water are at specified amount, and specified portable tools and other accessories are equipped, shall be entered.
  - (1.7) Engine
    - (a) Name and Style The manufacturer's name mark and style symbol attached on the engine shall be entered.
    - (b) Type of Engine The cylinder layout, cooling system, number of gas cylinders, division of cycles, type of engine, and for others, as required, type of combustion chamber, valve arrangement and type of supercharger shall be entered.

- (c) Overall Stroke Volume The value calculated according to the following formula shall be entered:

$$V = \frac{\pi}{4} D^2 \cdot L \cdot N \times 10^{-6}$$

where  $V$ : overall stroke volume (l)

$D$ : inner diameter of cylinder (mm)

$L$ : stroke (mm)

$N$ : number of cylinders

$\pi$ : 3.1416

Further, for entry value shall be of three places of decimals by discarding up to four places of decimals.

- (d) Engine Output The number of revolutions and output designated by the manufacturer shall be entered.
- (e) Using Fuel Classification such as gasoline, gas oil, etc. shall be entered.
- (f) Fuel-Tank Capacity The tank capacity shall be entered, and in the case of having auxiliary tank, it, appended.
- (g) Starting System The system such as cell motor type, recoil type, etc. shall be entered.
- (1.8) Travel Parts
- (a) Crawler The width of crawler, track gauge and average ground contact pressure shall be entered.

Further, for track gauge, the central distance of right and left crawlers shall be entered and for average ground contact pressure, the value of gravity acting on overall mass divided by the crawler ground contact area shall be entered.

- (b) Speed Change Style The division of mechanical type and oil pressure type shall be entered, and, as required, speed change style, number of change stages, style of pump, class of working oil, etc., appended.
- (c) Travel Speed The minimum value and maximum value of travel speeds shall be entered by design value.
- (d) Working Speed The minimum value and maximum value of working speed shall be entered by design value.
- (1.9) Harvesting Parts
- (a) Harvesting Width The maximum harvesting width by action of divider shall be entered.

- (b) Number of Harvesting Streaks The number of streaks guaranteed for harvesting of rice of planting streak interval of 28 to 33 cm shall be entered and for machine changeable the number of streaks, its pursuit, appended.
- (c) Number of Speed Change Stages The speed change stages of harvesting apparatus or the like, shall be entered.
- (d) Width of Blade The interval of tips of blade receiver at both outer sides of harvesting blade shall be entered.
- (e) Range of Harvesting Height The lowest value and highest value in the range capable of guaranteeing the harvesting of vertical crops shall be entered and the division of oil pressure and manual working, appended.

(1.10) Threshing Selecting Part

- (a) Style of Threshing The division of upper mixing up <sup>(2)</sup>, lower mixing up, axial flow type, etc. shall be entered.

Note <sup>(2)</sup> "KOKI" of threshing part is also called to be "KOGI", but in this Standard it is unified with "KOKI".

- (b) Mixing-up Shell Diameter × width and number of revolutions shall be entered.

Further, for diameter, mixing-up tooth is not included. For width, the mixing-up shell width shall be entered, and in the case where the numbers of revolutions for rice and for barley are different, the effect, appended.

- (c) Treatment Shell It shall be entered same as that of mixing-up shell.
- (d) Selecting Style The division of pressure wind, suction oscillation, etc. shall be entered.

(1.11) Cereal-Power Taking-Out Part

- (a) Style The division of grain tank type, hopper bag filling type, discharge outlet bag filling type, etc. shall be entered and for bag filling type, the number of discharge outlets, appended.

Further, rice-hulling bag used for bag filling type shall be entered. Furthermore, in the case of according to Appendix, the effect shall be appended.

- (b) Capacity The capacities of tank, and hopper shall be entered by number of bags and volume or mass.

- (1.12) Waste Straw Treatment Part Division of dropper cutter, binder, etc. shall be marked, and division of standard equipment and option, appended.