

JIS

JAPANESE INDUSTRIAL STANDARD

Voluntary opening hands

JIS T 9218—1992

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Voluntary opening hands

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1. Scope This Japanese Industrial Standard specifies the voluntary opening hands for adults (hereafter referred to as the "hands").

Remarks 1. The cited standards in this Standard are as follows:

JIS B 0205 Metric coarse screw threads

JIS B 0207 Metric fine screw threads

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

2. Definitions For the purpose of this Standard, the following definitions apply:

The names of parts are specified in the Attached Fig. 1.

- (1) thumb mobile type Hands of the type where only a thumb is opened when a control lead is pulled.
- (2) 2-finger mobile type Hands of type where a forefinger and a middle finger are opened when a control lead is pulled.
- (3) 3-finger type Hands of the type where a thumb, a forefinger, and a middle finger are opened when a control lead is pulled.
- (4) multiple finger mobile type Hands of the type where 4 fingers excluding a thumb or a thumb and 4 fingers are opened when a control lead is pulled.
- (5) stroke distance of control lead The distance through which the control lead travels from the closing of all the mobile fingers to the opening at maximum width.

3. Classification and symbol The classification and symbol shall be specified in Table 1.

Table 1

Classification	Symbol	Remarks
Thumb mobile type	M	See the Attached Fig. 2 (1).
2-finger mobile type	D	—
3-finger mobile type	T	See the Attached Fig. 2 (2), (3).
Multiple finger mobile type	P	—

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4. Performance

4.1 General condition The general condition shall be specified as follows.

- (1) Hands shall be so constructed as to grasp between the thumb and the other fingers reliably and smoothly.
- (2) Hands shall be opened until the maximum width between a thumb and a forefinger is 55 mm or over.
- (3) The mobile part of hands shall function properly even when it is covered with a decorative glove.
- (4) The stroke distance of control lead shall be 60 mm or under.
- (5) Hands shall be capable of picking up a cube on a flat plane whose side is 10 mm. Then, the approach angle of hands θ shall be 10 degrees to 30 degrees (see Fig. 1).
- (6) Hands shall be capable of grasping securely a wooden weight of 10 kg measuring 20 mm $\times$ 25 mm $\times$ 100 mm as shown in Fig. 2. The weight shall be chamfered, and have a handle.

Fig. 1

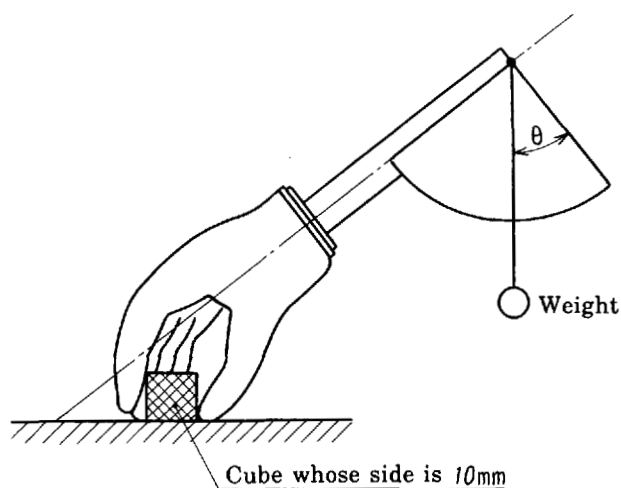


Fig. 2

Unit : mm

