

Tools and Outfits in Machinery Ships

1. Scope

This Japanese Industrial Standard specifies tools and outfits to be supplied for marine machinery excluding fishing boats, special vessels and those navigating within coasting area.

Remark: Articles for electrical equipment are excluded from this standard.

2. Articles to be Supplied

The articles to be supplied shall, as a rule, be as given in Tables 1 to 4.

Table 1 Measuring apparatus

Table 2 Working tools

Table 3 Miscellaneous articles

Table 4 Running stores

Remarks: 1. The quantity is determined per ship.
2. The sketches are for ready reference.

Table 1 Measuring Apparatus

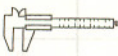
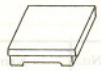
No.	Name	Specifications	Quantity	Application Standard	Reference Sketch
1	Dial gauge with magnet holder	Gauge range 10mm, Minimum gauge 0.01mm	1	JIS B 7503	
2	Micrometer callipers for external measurement	Gauge range 0 to 25mm, Minimum gauge reading 0.01mm	1	JIS B 7502	
3	Vernier caliper	Nominal size 200	1	JIS B 7507 (Type M1)	
4	Marking scribe	Length 200mm	2	-	
5	Precision surface plate	630mm x 400mm	1	JIS B 7513	
6	Feeler gauge	Feeler length 75mm Number of feelers 19	1	JIS B 7524 (75 A 19)	

Table 1 Measuring Apparatus (continued)

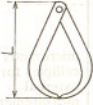
No.	Name	Specifications	Quantity	Application Standard	Reference Sketch
7	metal rule	Length 1 000mm, 300mm	1 each, total 2	JIS B 7516 (First class)	
8	Steel tape measure	Length 30m	1	JIS B 7512 (First class)	
9	Spring balance	50kg	1	—	
10	Inside calipers	Length (L) 200mm	1 each, total 2	—	
11	Outside calipers	Length (L) 200 mm	1 each, total 2	—	
12	Compass	Length (L) 200mm, 150mm	1 each, total 2	—	
13	Thermometer	100°C alcohol	2	JIS B 7411 (100A)	
14	Thermometer	500°C mercury	1	—	

Table 2 Working Tools

No.	Name	Specifications	Quantity	Application Standard	Reference Sketch
1	Portable electric grinder	Grinder dia. 100mm	1	JIS C 9610	

Table 2 Working Tools (continued)

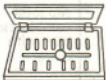
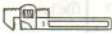
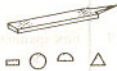
No.	Name	Specifications	Quantity	Application Standard	Reference Sketch
2	portable electric drill with chuck	Chuck nominal size 10	1	Drill JIS C 9605 Chuck JIS B 4634	
3	parallel shank twist drill	Dia. (mm) 3 4, 5, 6 7, 8, 9, 10	2 each, total 16	JIS B 4301	
4	tap & round die with case	Nominal size for thread M6, M8, M10, M12, M16, M20, M24	Taps 1 set each, Dice 1 each	Taps JIS B 4451 Dice JIS B 4430	
5	open ended spanner (single ended)	Nominal size 17,19,24,30,32,36,46,55,65	2 each, total 18	JIS B 4630	
6	open ended spanner (double ended)	Nominal size 17x19, 24x27, 30x32, 32x36	2 each, total 8	JIS B 4630	
7	box spanner	Nominal size for bolt M12, M16, M20, M22, M24	1 each, total 5	—	
8	adjustable angle wrench	Nominal size 300, 200	1 each, total 2	JIS B 4604	
9	pipe wrench	Nominal size 600, 350	1 each, total 2	JIS B 4606	

Table 2 Working Tools (continued)

No.	Name	Specifications	Quantity	Application Standard	Reference Sketch
10	screw driver	Nominal size (face width × length) 6×100, 4.5×50	1 each, total 2	JIS B 4609	
11	screw driver for cross recess head screw	Length 200mm, 150mm 100mm, 75mm	1 each, total 4	JIS B 4633	
12	slip joint combination plier with cutter	Nominal size 200, 150	1 each, total 2	JIS B 4614	
13	file (for white metal)	nominal size 400 shape: Half-round (for white metal)	1	JIS B 4703	
14	file	nominal size 300 Shape: Flat, round, and half-round Cut: Bastard, second and smooth	1 each, total 9	JIS B 4703	
15	file	Shape: Flat, round, half-round and triangular Cut: Second and smooth	1 each, total 8	JIS B 4703	
16	file handle	Length approx. 150mm	3	—	
17	file brush	Length approx. 270mm	2	—	