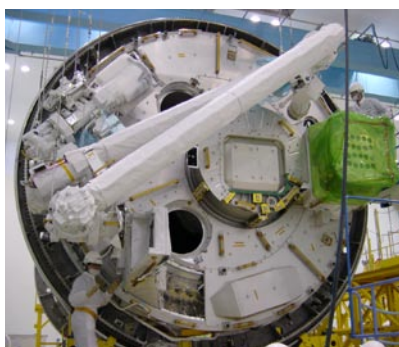
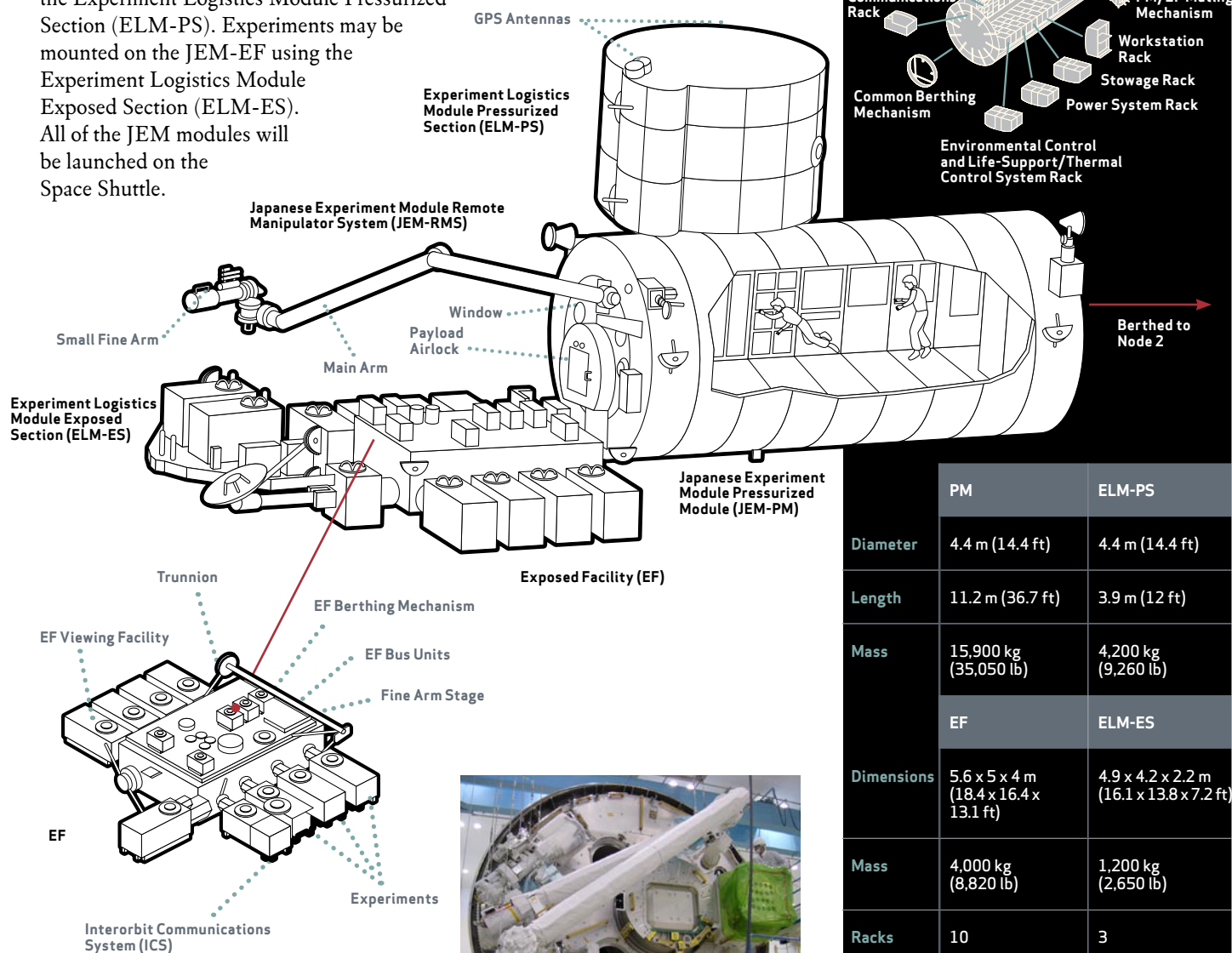


Japanese Experiment Module (JEM)/Kibo (Hope)

Japan Aerospace Exploration Agency (JAXA)/
Mitsubishi Heavy Industries, Ltd.

The Japanese Experiment Module is the first crewed space facility ever developed by Japan. The Pressurized Module (PM) is used mainly for microgravity experiments. The Exposed Facility (EF) is located outside the pressurized environment of the ISS. Numerous experiments that require direct exposure can be mounted with the help of the JEM remote manipulator and airlock. Logistics components will be launched in the Experiment Logistics Module Pressurized Section (ELM-PS). Experiments may be mounted on the JEM-EF using the Experiment Logistics Module Exposed Section (ELM-ES). All of the JEM modules will be launched on the Space Shuttle.



JEM-PM during testing.

	PM	ELM-PS
Diameter	4.4 m (14.4 ft)	4.4 m (14.4 ft)
Length	11.2 m (36.7 ft)	3.9 m (12 ft)
Mass	15,900 kg (35,050 lb)	4,200 kg (9,260 lb)
	EF	ELM-ES
Dimensions	5.6 x 5 x 4 m (18.4 x 16.4 x 13.1 ft)	4.9 x 4.2 x 2.2 m (16.1 x 13.8 x 7.2 ft)
Mass	4,000 kg (8,820 lb)	1,200 kg (2,650 lb)
Racks	10	3
JEM Remote Manipulator System		
Main Arm length	9.9 m (32.5 ft)	
Small Fine Arm length	1.9 m (6.2 ft)	