

Japan's first space station module

Japan's space industry will take a giant leap forward when the space shuttle *Endeavour* delivers the first section of its orbiting laboratory to the International Space Station. *Kibo* – meaning “hope” – is Japan's first manned space facility and the largest planned module for the ISS

Astronaut
to scale

KIBO'S MAIN COMPONENTS

Experiment Logistics Module – Pressurised Section (ELM-PS): First component delivered to space station will serve as storage and transportation facility

Exposed Facility (EF): Allows experiments to be conducted while fully exposed to space environment

Airlock

Robot
arm

**Pressurised
Module (PM)**

11.2m-long main section where astronauts carry out experiments in very low gravity environment

Inter-orbit
Communication System

**Experiment
Logistics
Module –
Exposed Section (ELM-ES)**

SPACE STATION

Shuttle will also deliver
Canada's *Dextre*
robot hand

KIBO SCHEDULE

March 11, 2008

Shuttle flight STS-123
launches with ELM-PS

May 25, 2008

STS-124 flight carries
PM and robot arm

2009: STS-127 will
deliver final parts –
EF and ELM-ES

ELM-PS
deployed on top
of *Harmony* module
prior to delivery of
Kibo's PM