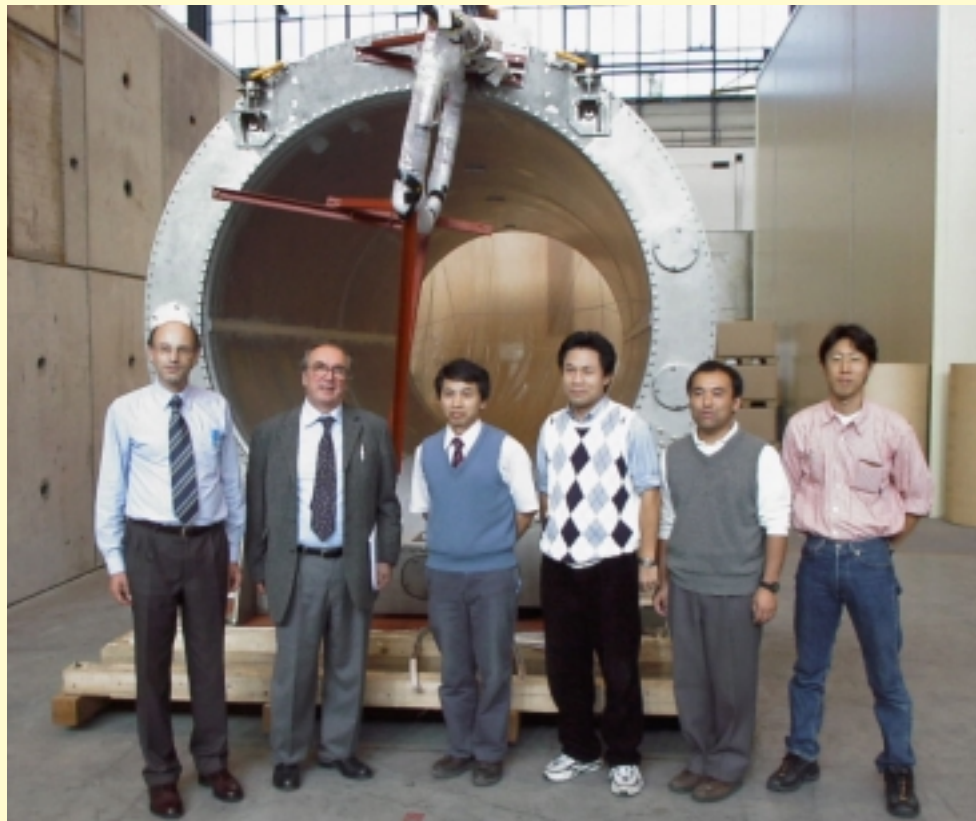


ATLAS Supplier Award

In recognition of excellent supplier performance

Toshiba Industries



Supply of the Superconducting Solenoid for the ATLAS Detector

Following the design of KEK, Toshiba Industries manufactured an ultra-thin superconducting solenoid with 2.4 m bore and 5.3 m length that will provide the 2 T particle bending field in the Inner Detector. Based on a wet-winding technique, 9 km of aluminium stabilized superconductor was wound against the outer aluminium support cylinder, cured and integrated with the cryostat cylinder. The solenoid has 5.7 tons cold mass and will operate in ATLAS at 7.6 kA at 38 MJ of stored energy, setting a new standard for ultra-thin solenoid technology for particle physics detectors.

In addition, Toshiba manufactured the proximity cryogenics system and the combination was very successfully tested in the Toshiba factory, where a 10% margin was demonstrated.

The complete system was delivered to CERN on schedule in September 2001.

Geneva, July 2002



Dr. Peter Jenni
ATLAS Spokesperson



Dr. Hans Hoffmann
CERN Director for
Technology Transfer