

MONTROL Co., Ltd.

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major business	Automation and Measurement system, Design and manufacture of large scientific test equipment		

MONTROL was established in 2002 as a manufacturer of measurement and automation systems. we are growing into a strong company forming a group of experts in related fields. Recently, we have entered the field of large scientific experiment equipment and successfully executed projects such as KSTAR's SPI system and RAON's cavity tuner.

Products



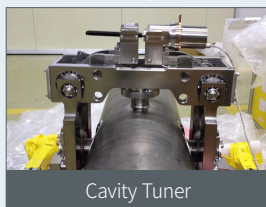
SPI(shattered pellet injector)
system

- | | |
|--------------------|--|
| Use | Protects Tokamak by mitigating ultra-high temperature plasma collapse |
| Description | This system consists of shattered pellet injector, vacuum exhaust system, fuel injection system, control unit, etc |



NBI(Neutral Beam Injection)
control system

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|--------------------|--|
| Use | Plasma heating |
| Description | This system is connected with KSTAR integrated operation control system to make the neutron beam in the ion source device and to control the incident to the Tokamak plasma safely |



Cavity Tuner

- | | |
|--------------------|---|
| Use | Natural frequency correction of superconducting cavity |
| Description | Tuner compensates the natural frequency by applying a load to the beam port of the cavity by micro step control of the stepping motor in cryogenic vacuum environment |

Technical Capacity

» System Integration

We provide system integration technology that combines measurement technology using sensors, control technology utilizing PLC-microprocessor, and mechanical design. PLC-microprocessor, and mechanical design

» Extreme environmental system technology

We provide design and manufacturing services based on accumulated know-how about systems operating in extreme environments(ultra low temperature, high vacuum, high temperature)

» Nuclear Fusion, Accelerator Device technology

We have over 15 years of expertise in fusion and accelerator devices and respond quickly and accurately to the various needs of our customers