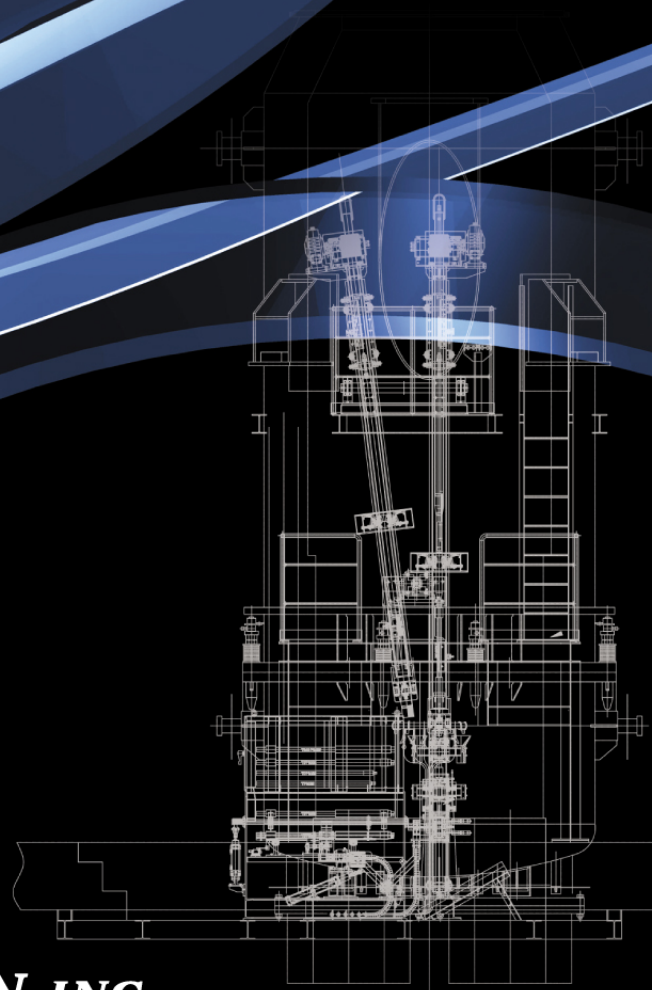


Dream of Human-Oriented Technology

# ATMS

Automatic temperature measuring and sampling device



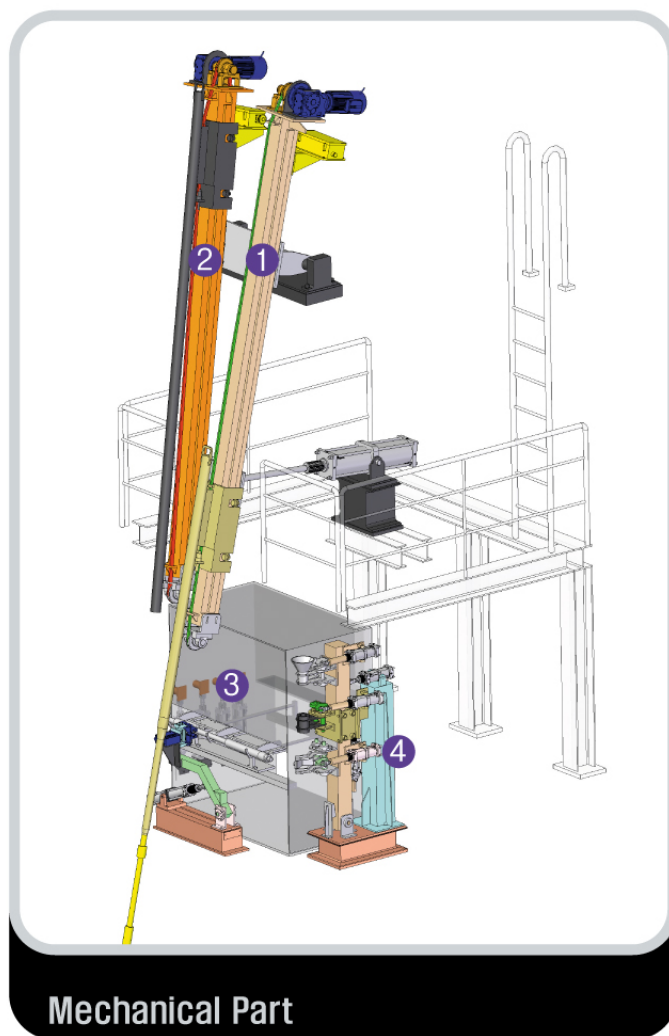
**WOJIN INC.**

# ATMS

Automatic temperature measuring and sampling device

The automatic temperature measuring and sampling device is for automatic temperature measurement and sampling in molten steel.

## 1. Mechanical Parts



## ATMS

### 1 Sampling device

The sampling device immerses a probe in molten steel in the ladle to automatically measure temperature and amount of oxygen and collect samples by attaching a probe to the holder located at the end of the lance through the vertical moving device.

### 2 Slag breaker

The slag breaker breaks slag layers in molten steel before measurement.

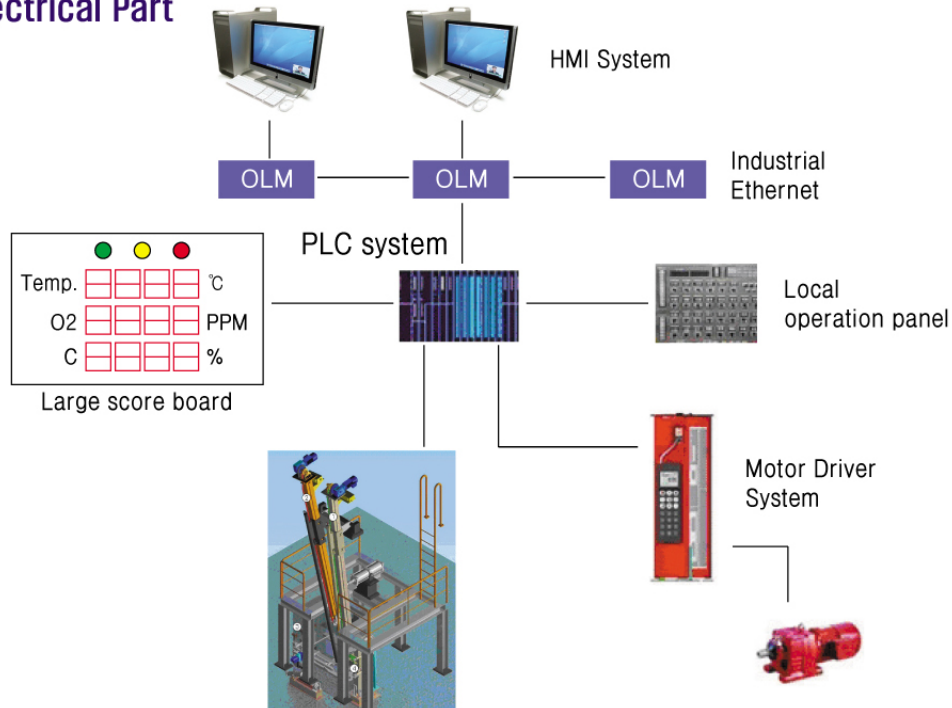
### 3 Probe storage

The probe storage consists of several loading chambers which can store different types of probes. Shortage of probes is also checked through sensors in loading chambers.

### 4 Probe loading and unloading device

The probe loading device is for attaching a probe from the probe storage to the holder at the end of the lance. The probe unloading device is for removing the probe used from the holder after measurement.

## Electrical Part



Automatic temperature measuring  
and sampling device

## 2. Electrical parts

### PLC system

The programmable logic controller is for controlling all of the operations in the sampling device and interlocking between other various mechanical parts properly.

### Motor drive system

The motor drive system is for controlling the lance speed and location.

### Local operation panel

At local work site, it separately controls specific mechanical operations and functions

ATMS

## 3. Advantages and features

### Accurate and reliable data

Through standardized operating process, more accurate data is obtained than manual operation. And more reliable data is measured due to keeping the regular immersion depth in molten steel.

### Stability of operation

As ATMS system automatically attaches and detaches a probe, measure temperature and collects samples, it protects operators in harsh work environments.





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