

Industry solutions Process automation

**Optimal control with high-reliability systems** 

# **High-speed Control Systems for Metal Plants**

Enabling stable operations of the processing on bar steel rolling lines by using optimal monitoring and control of electrical equipment.

Our solutions provide optimal systems based on the standard packages for iron and steel plants and non-ferrous metal plants that Fuji Electric has developed with expertise cultivated over many years.

## [Benefits]

- ✓ Introduction of highly reliable electrical equipment
- Coexistence with high-speed control and monitoring control
- Reduction of specific energy consumption through efficient usage



Stable operation and reduced maintenance

### [System features]

Standard packages for metal plants can be combined with components according to the target facility. Standard packages Components Target facilities Speed and tension control Diameter calculation and corre Automatic deceleration control Load sharing Elongation control Continuous annealing furnace High-speed drive control Handling Mode setting Individual line control Ancillary equipment control Continuous single dimension contro Weld point tracking Controllers Overall Surface treatment equipment control Data control Display and setting HMI Alarm control Display and setting L-2 PDI and POD management Mill interlocking speed control Motors Loop and kicker control Master Minimum tension control between mi control Spindle position control Bar Impact drop suppression control steel Shear blade position control rolling line Auxiliary Split cut control control Cooling bed delivery control Numerical setting and mode convers Dividing shear нмі Status display Drives Alarm management

#### [Functional overview]

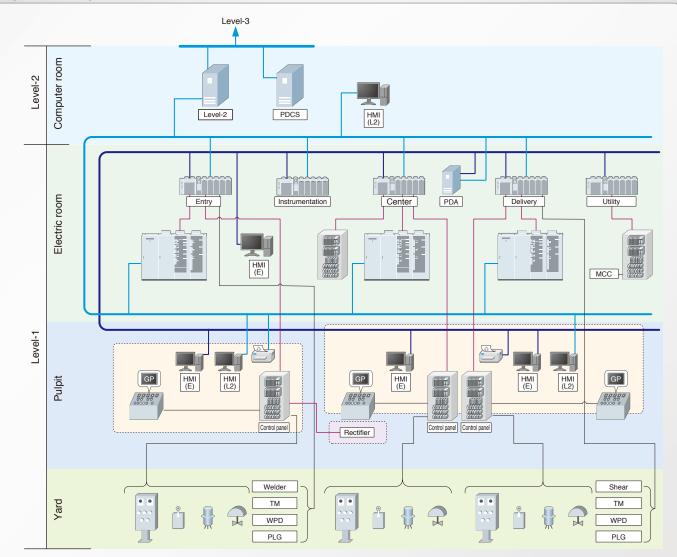
- High-speed drive control packages (Drive Master Controller (DMC)) Various standard-equipped control functions for high-speed control of drive units to provide stable operation and maintenance.
- Individual control packages Optimal control with minimum workload and cost by combining standard packages according to equipment requirements.

System construction including computers (L-2) Computer packages for operation management, and data collection packages that can analyze operation status on time axis or product axis are also available.

#### [Introduction example]

- Continuous hot-dip galvanizing line
- Aluminum surface treatment line
- Continuous surface treatment line
- Continuous annealing line

#### [System configuration]



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