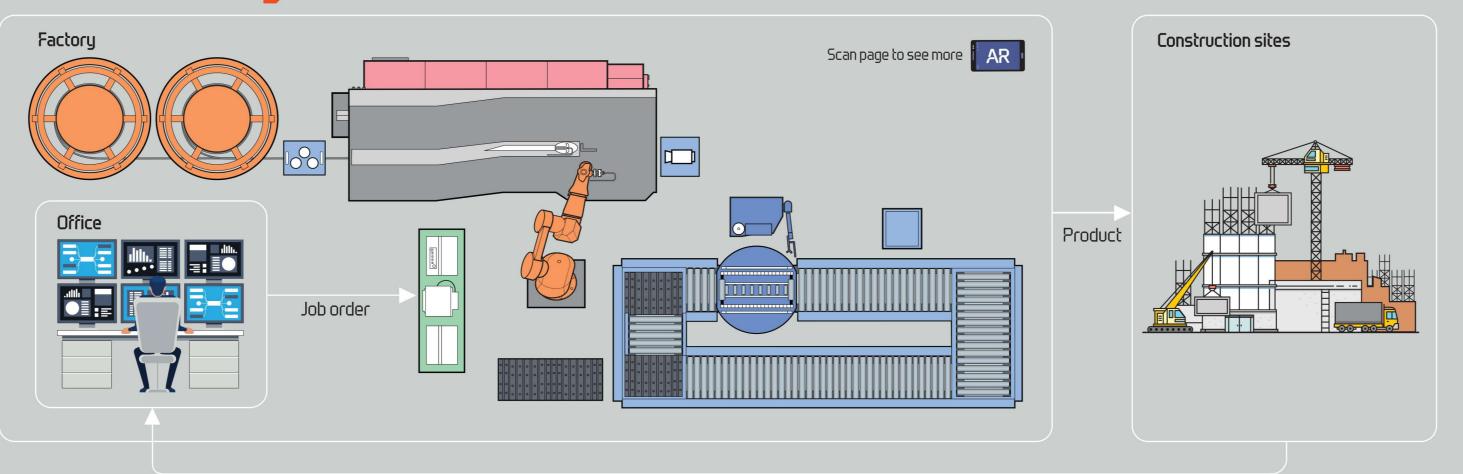
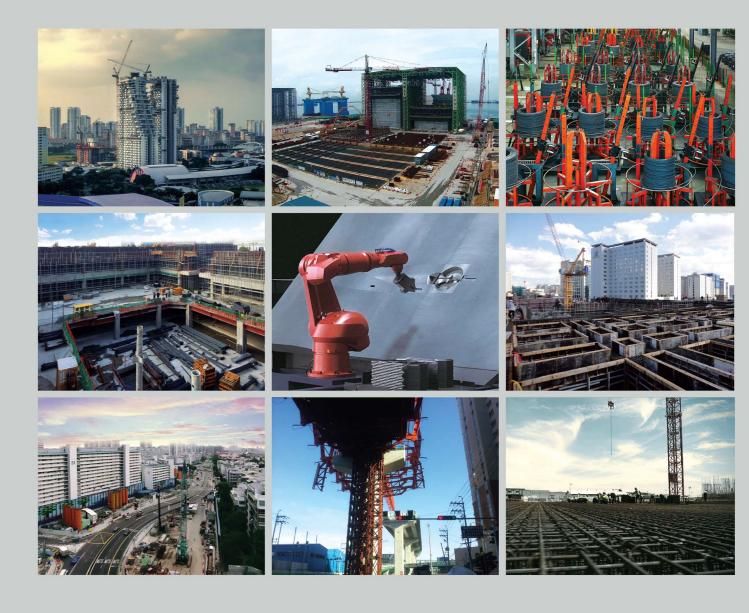


Schematic Diagram of ARON





Drawing

Productivity

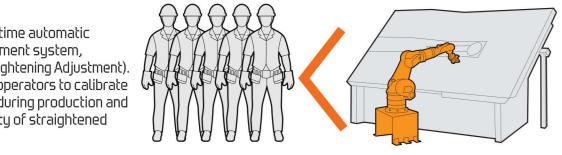
ARON can operate constantly and continuously due to the automatic robot controlled system. It leads to the drastic reduction of non-valuable time in non-automated system and therefore not only increases productivity but also minimizes labor and equipment cost.

Safety

Because ARON is a robot controlled system, it can minimize labor and ensures greater safety due to no operator on the cut & bend machine.

Quality

ARON uses the real-time automatic straightening adjustment system, GSA(Grid-vision Straightening Adjustment).
There's no need for operators to calibrate rebar straightening during production and it ensures high quality of straightened processing rebar.





MES(Manufacturing Execution System)

- Work order instructions and management at the office (w/o barcode tagging)
- Work order optimization to minimize losses of processed rebar
- Web-based real-time monitoring of production and logistics status



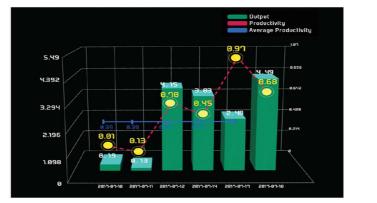
GSA(Grid-vision Straightening Adjustment)system

- Automatic calibration system of rebar straightening in a cut & bend machine
- Real-time adjustment in conjunction with production of processed rebar
- Patented calibration working algorithm



Automated picking and stacking

- Automatic robot able to pick and stack straight bars or stirrups of variable shape and size (up to about 30,000) directly from the cut & bend machine
- Patented special gripper applied
- Able to stack in various forms, i.e. guided carrier, cages, ton bag, etc.



Production data analysis & monitoring system

- APM (Automation Processed-rebar Manager) S/W
- Reporting and analyzing production and performance
- Monitoring real-time status of automation equipment including robot at the office

ARON can be installed in any places



Factory





Construction site