



○ One of the rigid stranders from AEI Machines

Technology and quality counts

AEI Machines has been manufacturing various types of rotating cable machines for the stranding, screening, armouring and laying-up of power cables and overhead conductors since its inception.

Over the years the company has become entirely focused on the design and manufacture of highly reliable, high-speed and advanced technology rigid stranders.

Today the company competes primarily on merit of its technology and quality rather than price alone.

AEI's strength lies in the total understanding of customer requirements and offering suitable products ranging from the largest stranders in the world (128 bobbins rigid stranding machine for 500kV cables) to the highest productivity stranders (up to 46km of 600mm² conductor per day).

These machines are suitable for the production of up to 127 wires stranded

conductor (70mm²-2,000mm² in single pass and up to 3,000mm² in Milliken construction) for low, medium and extra high voltage (EHV) power cables:

- Highly compacted round conductor (by dies/rolls)
- Pre-spiralled/straight sector shaped/Milliken conductor
- ACSR/AAAC/AAC overhead conductor
- Pre-shaped wire (TW) overhead conductor
- Copper screening of power cables
- Steel wire/strip armouring

The company's recent development is a new generation of rigid stranders ASRB/E designed for complete flexibility, which have the following features:

- Strand tension is maintained constant from full to empty bobbin through diameter detection and break-force compensation of pneumatic bobbin braking mechanism
- Electronic wire break detection system (EWBDS) on each bobbin

with broken wire display on operator touch panel

- Motorised opening/closing of pintles requiring minimal maintenance
- Fully automatic fast bobbin row loading system dedicated for each cage
- Independent drive to each machine element with electronic shaft synchronisation
- Speed of cages increase automatically to optimum level as the bobbins empty
- Intelligent control logic automatically optimises the line based on lay required to offer maximum speeds
- Recipe storage and configuration
- Production reports and Data feed to Client SCADA/MIS over Ethernet
- RemoteAssist: Tele-service remote diagnostic access of control system by AEI for problem resolution over an Internet link

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