

India Insight

Continuous innovation

ASSOCIATED Engineers & Industrials Ltd (AEI) specialises in the design and manufacture of rigid stranding machines, arguably the most important rotating machines in any power cable plant.

AEI stresses on continuous innovation, based on the latest product requirements and customer feedback, as absolutely essential in keeping its technology ahead of the competition. Eight out of ten renowned EHV, MV and LV cable and large overhead conductor manufacturers in South Asia use the company's rigid stranders.

The company's recent development is a new generation high-speed ASRB/E rigid strander, an integration of quality mechanical craftsmanship with new generation control systems. The intelligent stranders incorporate features such as electronic shaft synchronisation (including during power failure), individual wire break detectors, auto regulated pneumatic bobbin brakes, motorised pintles, remote diagnostics over telecom link and fully automatic floor/trolley loading devices.

AEI's unique use of perfectly balanced fork type cage rotor construction ensures superior energy efficiency whereas use of fully enclosed gearboxes instead of belt systems ensures robust performance for years.

Based on the customer production requirements the machines are configured with suitable forming and closing heads. Prespiral sector heads have been



○ An AEI rigid stranding line

completely redesigned for higher precision Milliken conductor for up to 3,000mm² x 500 kV EHV cables. Likewise, a trapezoidal wire (TW) head has been developed for the manufacture of new generation pre-shaped wire conductor.

Mr L S Jain, managing director and chief designer, said: "With our single focus on rigid stranders, each aspect of the machine gets full undivided attention. An otherwise considered simple sub-assembly like bobbin pintles is the result of thousands of hours of design developments."

Associated Engineers & Industrials Ltd – India
Website: www.aeimachines.com