

Associated Engineers & Industrials Limited: Maintaining Leadership in Rigid Stranding Machines



One of the leading manufacturers of customised rotating machines for stranding, screening and armouring of cables and conductors, Associated Engineers & Industrials Limited (AEI) specialises in reliable, productive and advanced-technology Rigid Stranding Machines suitable for the production of superior quality stranded conductor for low, medium and extra high voltage (EHV) power cables.

Needless to say, innovative concepts, strict quality control, high commitment level and personalised service support have enabled the Company to gain excellent reputation in India and abroad.

At AEI, all machined parts are manufactured in-house at its fully-equipped

state-of-the-art engineering and manufacturing unit with the vision to create user-friendly and smart machines that require minimal maintenance and deliver decades of trouble-free operation.

The Company has been maintaining its leadership in rigid stranding machines with 8 out of every 10 prime HV/EHV cable manufacturers and large overhead conductor manufacturers in South Asia using AEI Stranders.

AEI's recent development is a new generation high speed ASRB/E Rigid Strander, an integration of top quality mechanical craftsmanship with new generation control systems. The intelligent stranders incorporate features such as electronic shaft synchronisation, individual wire break detectors, auto regulated pneumatic bobbin brakes, motorised pintles, remote diagnostics over telecom link and fully automatic floor or trolley loading devices. Besides, AEI's unique use of perfectly balanced fork type cage rotor construction ensures superior energy efficiency and use of fully enclosed gearboxes instead of belt systems ensures robust performance for years.

Based on the requirements of customers, AEI's machines are configured with suitable heads. >>

Prespiral Sector Heads have been completely redesigned for higher precision Milliken conductor for up to 3000 mm² x 500 kV EHV cables. Similarly, a Trapezoidal Wire (TW) Head has been developed for the manufacture of new-generation, pre-shaped wire conductor.

Speaking about design developments at AEI, Mr L.S. Jain, Managing Director and Chief Designer, said, "With our single focus on Rigid Strandings, 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."

For the last 40 years, AEI has been focusing on the design and manufacture of Rigid Stranding Machines.

“

Undoubtedly, the reliability of a machine depends on its parts. Therefore, whether it is the biggest bearing or the smallest fastener, the Company follows a "No Compromise" policy.

”

Starting with assisting in selection of the right solution, the Company designs and manufactures the

machines according to the exact requirement of the customer. It offers suitable products ranging from the largest stranders in the world (128 Bobbins Rigid Stranding Machine for 500 kV cables) to the highest productivity ones.

Undoubtedly, the reliability of a machine depends on its parts. Therefore, whether it is the biggest bearing or the smallest fastener, the Company follows a "No Compromise" policy to source only the best available materials from around the world. AEI's supplying partners include companies such as SKF, Siemens, Festo, Bonfiglioli, Sumitomo, Gates and Unbrako. ■