Crane Motion Controller ASTAT®

Advanced Crane Motion Control

- For epicyclic gearbox control

- Unique rotor voltage sensing system provides maximum safety and availability

- Smooth control extends life of all components

- Extremely rugged yet compact control equipment for the most arduous conditions

ABB
Long experience with ladle cranes has enabled ABB to develop a system for optimum control of epicyclic drive gears. The keynote is security – for the safety of personnel and the security of operations where the crane is a critical component.

In addition to the normal controls the new ABB system includes the "mismatch" and motor rotor voltage monitoring systems. These systems compare the input and output speeds of all motor shafts and immediately report any deviations; they also monitor the rotor voltage of all two, four or eight motors and report any abnormalities.

The rotor voltage monitoring system prevents unexpected, unexplained stoppages. The mismatch system minimises the consequences of a shaft breakage because it stops the motion more quickly than detection of an over-speed or a speed deviation.

ABB crane control systems provide unrivalled smoothness of operation thus maximising the life of components and significantly extending the periods between stoppages.

The Epicyclic Gearbox Control system can operate with new or existing slip-ring motors and is compatible with most overall crane control systems.

The electrical equipment is from the proven ASTAT range and is highly resistant to vibration, dust, heat and electric supply disturbances.