

Synchronous Motor Starting Hubs

The Rosenberry Hub - a modern, state of the art hub offering trouble-free starting

Fixed speed synchronous motors that are required to start asynchronously require extra switching devices on the rotor to allow the induced field currents to flow safely without damaging any of the components.

Our experts have designed the Rosenberry Starter Hub which can be installed on new equipment or retrofitted to existing machines, with bespoke variants of the hub, dependent upon the design of your motor:

- Rosenberry Hub for Shaft End Mounting
- Split Rosenberry Hub for Mid-Shaft Mounting where there is insufficient space for conventional solutions

Over 30 years of experience have ensured improvements have continually been made, developing upon the Optimum Angle and Rotosyn starting hubs. We now offer a designed solution offering increased reliability and ATEX/IECEx Zone 2 certification.

Key Benefits

- Conservatively rated devices able to withstand high dv/dt
- Fail-safe circuits, devices and field protected during fault conditions
- Encapsulated control circuit
- All maintainable components readily accessible & easily replaced
- Improves starting torque through the 75-100% speed range
- Reduces oscillating torques
- Uses standard silicon devices readily available from major suppliers
- All components specifically selected for rotating duties
- Custom designed/specified to suit requirements

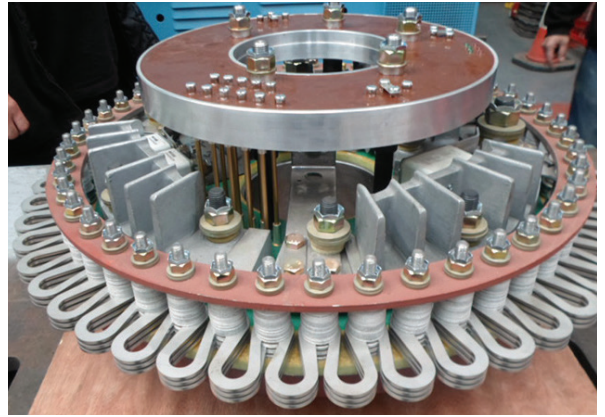
Rosenberry Hub | shaft-end mounted

Machine Suitability

Machine Rating: Currently installed on machines rated from 550kW to 35,137kW

Speed: from 333rpm to 1800rpm

Classification: ATEX & IECEx Zone 2 certification
Ex ec IIC Gc – IECEx CML 15.0021U



Specification

- Minimal connections and wiring; only 5 bolted electrical connections
- High current rated device (600 A DC)
- High voltage withstand (750 V DC 1500 V PIV)
- More than 10,000 starts and 1,000,000 running hours
- Diagnostic LED's fitted as standard
- Cone clamp mounting eliminates alignment checks
- Starting resistor switched out of circuit once motor synchronised to minimise losses

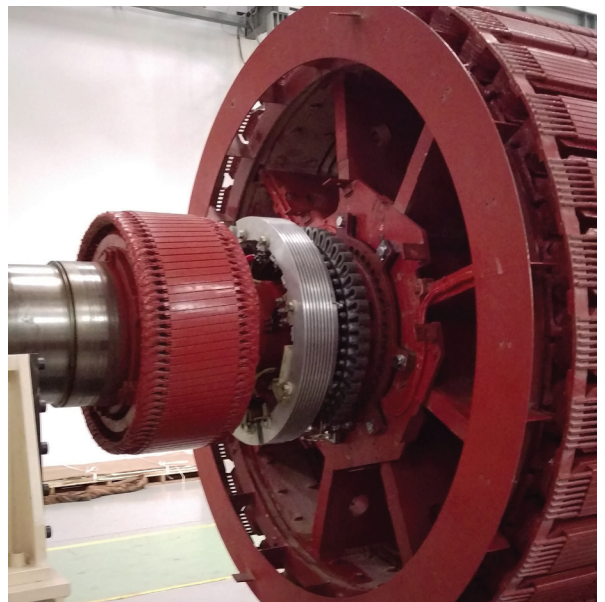
Split Rosenberry Hub | mid-shaft mounting

Machine Suitability

Rotor Diameter: motors up to Ø425

Speed: to 1500rpm

Classification: Currently not Ex certified



Specification

- Minimal connections and wires
- High current rated devices with the following de-rated mean forward current ratings:
 - Diodes: 700Adc, Thyristors: 940Adc & 605Adc
- High voltage withstand – nominal repetitive peak reverse voltage:
 - Diodes: 1500V, Thyristors: 1800V

Key Contact Information

To request a quotation or further information please contact

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