

High-Torque Direct-Drive Motors

Compact Permanent Magnet Machines
with Water cooling



SynchroTorq™

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Modern applications increasingly demand increased productivity, precision and energy efficiency, along with cost reduction from machine designs.

Direct-drive technology offers numerous benefits, and enables these objectives to be achieved. It allows mechanical transmissions to be eliminated in the drive train or hydraulic system, and removes the mechanical losses from gear units or belt transmissions.

Water cooling is a very effective method of transferring heat away from the motor. Cooling efficiency is maintained even at lower speeds.

Benefits



Higher efficiency



Compact and space saving design



Significant power saving



Simple installation



Practically maintenance free



No oil spillage and cleaning issues

Features

- Gearbox free system
- No oil-lubrication required
- Water cooling provided
- High power to weight ratio
- Different shaft options available:
 - Straight shaft with keyway
 - Hobbed shaft
 - Tapered shaft
- Custom shaft height
- Encoder: Absolute / Incremental / Resolver
- Protection: Ip21

Technical Specifications

- Torque range = 200 - 2000 Nm
- Speed range = 80 - 240 rpm
- Power range = 1.5-50 kW
- Controlled by dedicated PMSM drive

Applications

- Extruders
- Injection molding
- Foil-drawing machines
- Rotary tables
- CNC
- Centrifuges
- Drying cylinder
- Oil separator
- Hybrid electric vehicle
- Mixers
- Tablet presses
- Blenders
- Presses
- Roll drives



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