

CASE STUDY – ELECTRICAL STEEL VS. COBALT-IRON

HIGH PERFORMANCE PERMANENT MAGNET MOTOR

AMK
MADE BY Control your Motion.



Formula Student Electric 2014: GreenTeam Stuttgart with 4 wheel drive system.

MAIN FEATURES

- Powered by interlocked stators
- New material VACODUR® 49
- Strip thickness 0.35 mm



Cobalt-Iron Alloys for High Performance Motors: AMK GmbH & Co. KG, Germany

ADVANCED MATERIALS – THE KEY TO PROGRESS

VAC[®]
VACUUMSCHMELZE

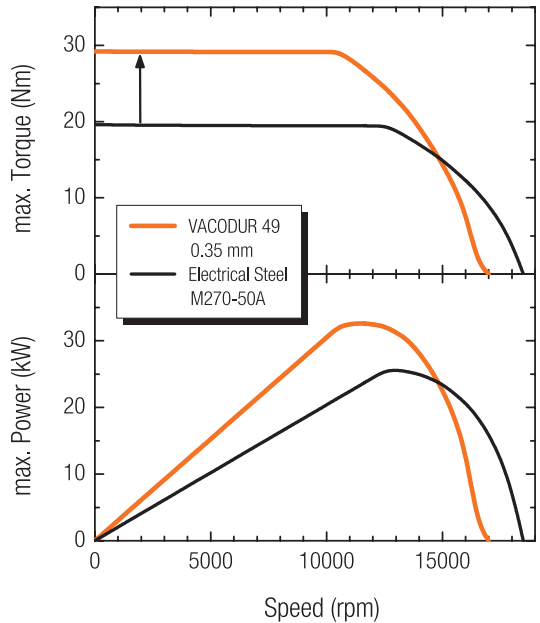
HIGH PERFORMANCE PERMANENT MAGNET MOTOR MADE BY AMK

MOTOR DATA

- Max. Power 31 kW
- Max. Torque 29 Nm
- Nominal Speed 11,500 rpm
- Weight 3.67 kg
- Power Density 8.4 kW/kg
- Torque Density 7.9 Nm/kg



+ 53 % Torque



Cobalt-Iron Alloys for High Performance Motors: AMK GmbH & Co. KG, Germany

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