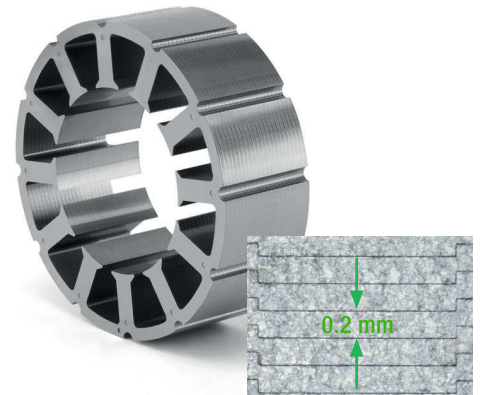


STATOR STACKS FOR COST OPTIMIZED HIGH PERFORMANCE ELECTRIC MOTORS



Industry Standard

VAC Solution

Material

- ASTM A801
- Vanadium-Permendur
- 49% Co - 49% Fe - 2% V
- Produced by company A

- VACOFLUX X1
- Latest cobalt-iron alloy
- Optimized for stamping and interlocking
- Developed and produced by VAC

Stack Production

- Stamping or laser-cutting by company B
- Annealing of single laminations by company C
- Bonding or laser-welding into stacks by company D

- Stamping and stacking in one step
- Annealing of bonded stator/rotor core
- Streamlined production flow

Stack Properties

- Supply chain with up to 4 companies
- Typical strip thickness ≥ 0.15 mm
- Tool and/or fixture required
- Standard Permendur loss level
- Standard tolerance level (stamped parts)

- Entire processes in one place, full process control incl. TS 16949 & EN 9100 certificates
- Strip thickness down to 0.1 mm (stamped) & 0.2 mm (interlocked)
- Tooling required
- Sophisticated electrical insulation
- Superior induction level
- Standard interlocked tolerances
- Certification of each individual core

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