

# STATOR STACKS FOR MAXIMUM PERFORMANCE ELECTRIC MOTORS



## Industry Standard

## VAC Solution

### Material

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

- VACOFLUX 48
- Best in class ASTM A801 alloy
- Maximum induction, lowest losses
- 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

- Annealing of ultra-thin strip material down to 50 μm
- Proprietary bonding technology, ≥ 98% stacking factor
- Precision wire EDM, no post processing required

### 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 certificate
- Strip thickness down to 0.05 mm
- No tooling required
- Highest power density & efficiency
- Tightest tolerances
- Certification of each individual core

ADVANCED MATERIALS – THE KEY TO PROGRESS

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