## Industry Standard

**Material**
- ASTM A801
- Vanadium-Permanendur
- 49% Co - 49% Fe - 2% V
- Produced by company A

**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

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

## VAC Solution

**Material**
- VACOFUX X1
- Latest cobalt-iron alloy
- Optimized for stamping and interlocking
- Developed and produced by VAC

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

**Stack Properties**
- 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

## STATOR STACKS
**FOR COST OPTIMIZED HIGH PERFORMANCE ELECTRIC MOTORS**

0.2 mm