FULL ELECTRIC AIRPLANE
POWERED BY VAC TECHNOLOGIES

VAC’s most innovative materials realize motors with highest power density.

**MOTOR DATA**

- **Motor evo220**
  - approx. + 25% (typical)

- **Power**: 180 kW - 220 kW
  - up to 260 kW (peak)
- **Torque**: 950 Nm (10:1)¹
  - to 1,150 Nm (12:1)¹
- **Weight**: 45 kg with gearbox
- **Speed**: 24,000 rpm
- **Power density**: 4.88 kW/kg

¹ gear transmission
STATOR MADE OF VACOFLUX 48 AND VACSTACK TECHNOLOGY

MAIN ADVANTAGES

- 2.3 T Saturation polarization
- +50 % Induction level compared to electrical steel
- Tightest tolerances due to VACSTACK technology
- Lowest losses because of 50 μm lamination thickness
Rotors system using Vacomax 262 HR and Halbach configuration

Main Advantages

- Highest remanence above 150 °C
- Potential in future for highest remanence above 130 °C
- Very low thermal coefficient
- Applicable even at 300 °C
- An optimal Halbach design can achieve further air gap flux induction of more than 20%