

In partnership with



SENSOR BEARING SOLUTIONS

For E-Drive motors

Contact us!

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NTN SNR With You



SENSOR BEARING SOLUTIONS

FOR E-DRIVE MOTORS

A compact and flexible alternative to resolvers

NTN SNR

www.ntn-snr.com



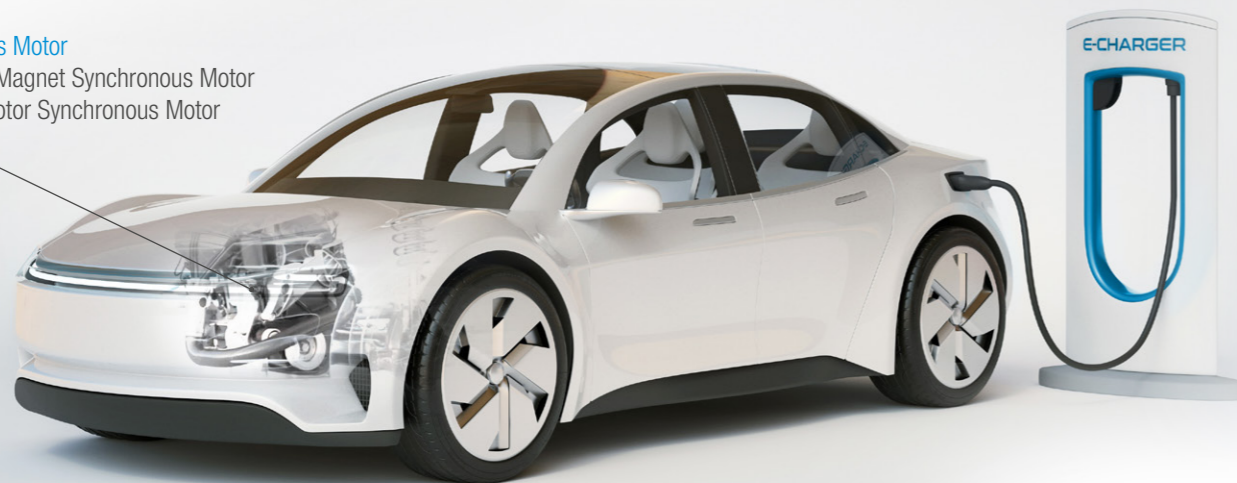
With You

SENSOR BEARING SOLUTIONS FOR E-DRIVE MOTORS



The partnership between a sensor specialist and a precision bearing expert provides you with state of the art measurement of the motor shaft angle, with perfect and flexible integration of the position sensing solution, all within your electric motor.

Synchronous Motor
Permanent Magnet Synchronous Motor
or Wound Rotor Synchronous Motor

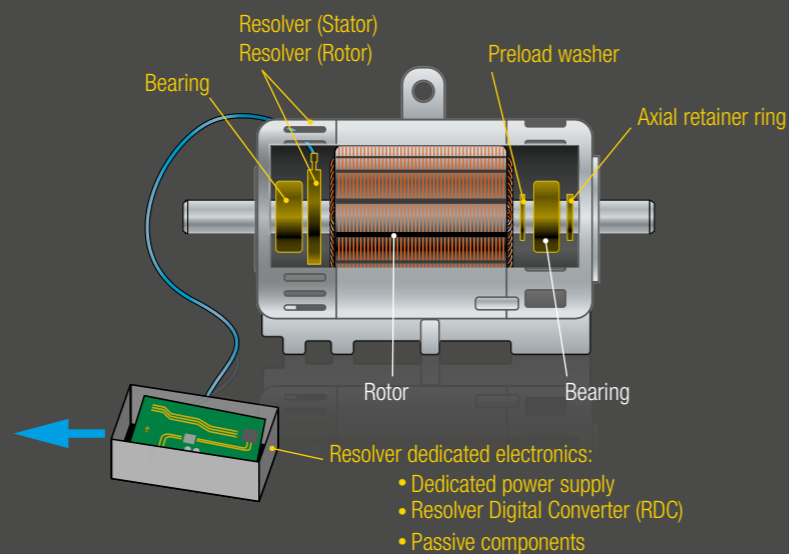


**Battery Electric Vehicles
& Hybrid Electric Vehicles**
P0 to P4 architecture

EXISTING SOLUTION THE RESOLVER

DRAWBACKS

- Not flexible integration
- Bulky and heavy solution
- Tight assembly of resolver parts to secure a correct measurement
- Complex signal processing
- Lower accuracy during acceleration and braking phases
- Sensitive to motor EM field



Total:
**6 DIFFERENT
PARTS TO ASSEMBLE**

OUR SOLUTION

**ALL-IN-ONE
COMPACT
1-STEP ASSEMBLY
SENSOR BEARING**

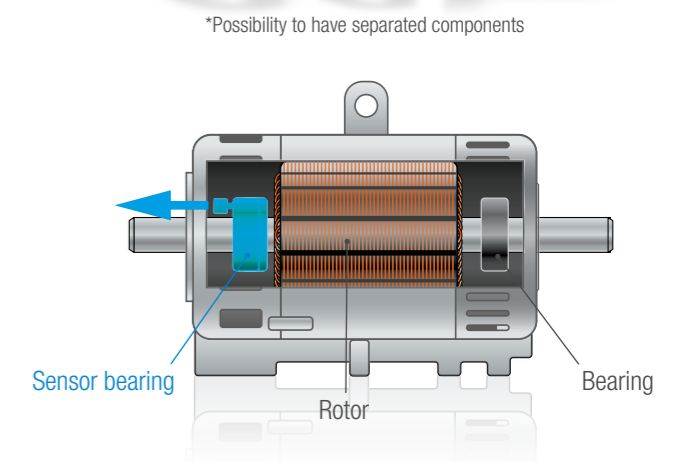


INCLUDES FUNCTIONS*

- Bearing
- Absolute angle sensor giving SIN/COS outputs (Ring magnet + Hall effect sensor)
- Optional: Pre-load and Axial stop

ADVANTAGES OF THE SOLUTION

- Adaptable to every customer application
- More compact and lighter than Resolver + Bearing
- Easy mounting
- New patented magnetic pattern
- State of the art accuracy, not dependent on assembly
- Lowest overall cost
- ISO26262 compliant
- High speed capability



TAILOR-MADE TO FIT ALL E-MOTORS TYPES



AXIAL CONFIGURATION

RADIAL CONFIGURATION

THROUGH-SHAFT

END OF SHAFT