



# Electric Vehicle Solutions

The emission norms & global warming is putting the pressure on the automotive industry, so the challenges coming on EV powertrain & bringing new requirements. We are developing flexible solutions to overcome the challenges to fulfill the demands.

## Power Train Challenges

- ✓ Lower losses
- ✓ Lower noise
- ✓ Light weight
- ✓ Higher durability
- ✓ Complex controls

## Bearing Requirements

- ✓ High speed capabilities (19000 rpm)
- ✓ Ultra low friction bearings
- ✓ Lower noise
- ✓ Coatings
- ✓ Power dense - compact
- ✓ Improved lubricants – conductive, low viscosity
- ✓ Insulated solutions
- ✓ Sensor bearing

## Applications





- ✓ Electric motor
- ✓ E-Axle
- ✓ Gearbox

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Two Wheeler	3W / Quadra	Car	LCV / HCV
			
<b>Hub Motor Power:</b> ~1-1.5kW	<b>Motor Power:</b> 8.5kW	<b>Motor Power:</b> 90kW	<b>Motor Power:</b> 90-150kW
<b>Lower Speed:</b> <1000rpm	<b>Motor Speed:</b> ~9000rpm	<b>Motor Speed:</b> 5000rpm - 15000rpm	<b>Motor Speed:</b> 6000rpm - 19000rpm
	<b>Transmission:</b> Two-stage	<b>Transmission:</b> Two-stage	<b>Transmission:</b> Two-stage
	<b>Reduction Ratio:</b> 1:9 - 1:13	<b>Reduction Ratio:</b> 1:8 - 1:18	<b>Reduction Ratio:</b> 1:8 - 1:18



				
<b>Oil Impregnated Bearing</b>	<b>NBC 'EMB' Series Bearing</b>	<b>Compact Solutions - Special HT</b>	<b>'INSUOHM' Bearing</b>	<b>Sensor Bearing</b>