

# ESYNC L5 INTEGRATED E-AXLE

## TECHNICAL DATASHEET

High-performance, high-efficiency integrated eAxle with in-house gearbox. Engineered for reliable torque, low noise and high durability in real-world duty cycles.



60 Nm  
TORQUE

12.6:1  
GEAR RATIO  
SINGLE SPEED

Up to  
1 TON GVW

<80 dBA  
LOW NOISE

>91%  
EFFICIENCY

120,000 Km  
WARRANTY

### MECHANICAL & PERFORMANCE

Configuration	Integrated Motor + Axle
Gear Type	Single Speed
Gear Ratio	12.6:1
Max Torque	60 Nm
GVW Capacity	Up to 1.8 Ton
Drive Type	Rear Axle Drive
Gradeability	Up to 16°
Axle Length	42"/ 45"/50"
Mounting	Standard 3W Chassis Compatible

### NVH & DURABILITY

Noise Level	<80 dBA
Vibration Profile	Up to 10G
SST (Salt Spray Test)	480 hrs
Thermal Stability	Optimized for Urban Duty Cycle

### INTEGRATION & COMPATIBILITY

- ✓ Compatible with Standard 3W Chassis Platforms
- ✓ Customizable Gearing Based on Application

### MATERIALS & CONSTRUCTION

- ✓ High-strength Steel Axle Tubes
- ✓ Forged Brackets for Structural Integrity
- ✓ Precision Machined Gears (In-house)
- ✓ Sealed Housing for Contamination Protection

### KEY FEATURES

- ✓ In-house made single-speed gear box
- ✓ Integrated Axle + Gear Box Design
- ✓ High efficiency >91%
- ✓ Low Noise Operation <80dBA
- ✓ High Durability for Urban Duty
- ✓ Optimized for Stop-start Traffic
- ✓ Designed & Manufactured in India

### KEY BENEFITS

- ✓ Lower Cost per Km
- ✓ Higher Uptime for Fleet Operators
- ✓ Smooth Torque Delivery in Stop-go Traffic
- ✓ Reduced Maintenance Requirements
- ✓ Designed for High Utilization and Long Life

### PRODUCTION LINE TESTING

- ✓ Resistance & Inductance Testing
- ✓ Hi-Pot Testing
- ✓ Torque Speed Validation
- ✓ Efficiency Testing
- ✓ Noise Testing

### TESTING & VALIDATION



### VALIDATION TESTING

- ✓ Thermal Behaviour
- ✓ Vibration & Durability
- ✓ Endurance Testing
- ✓ Field Lifecycle Testing
- ✓ Water & Dust Resistance Testing

### APPLICATIONS



E-RICKSHAW



CARGO E-LOADER



E-MOBILITY FLEETS

### QUALITY & MANUFACTURING

- ✓ 100% In-house Gear Manufacturing
- ✓ Automated Assembly Lines
- ✓ Robotic Welding & Sealant Application
- ✓ End-of-line Testing
- ✓ Full Traceability Systems

480 hrs  
SALT SPRAY  
TESTED

IP65  
PROTECTION