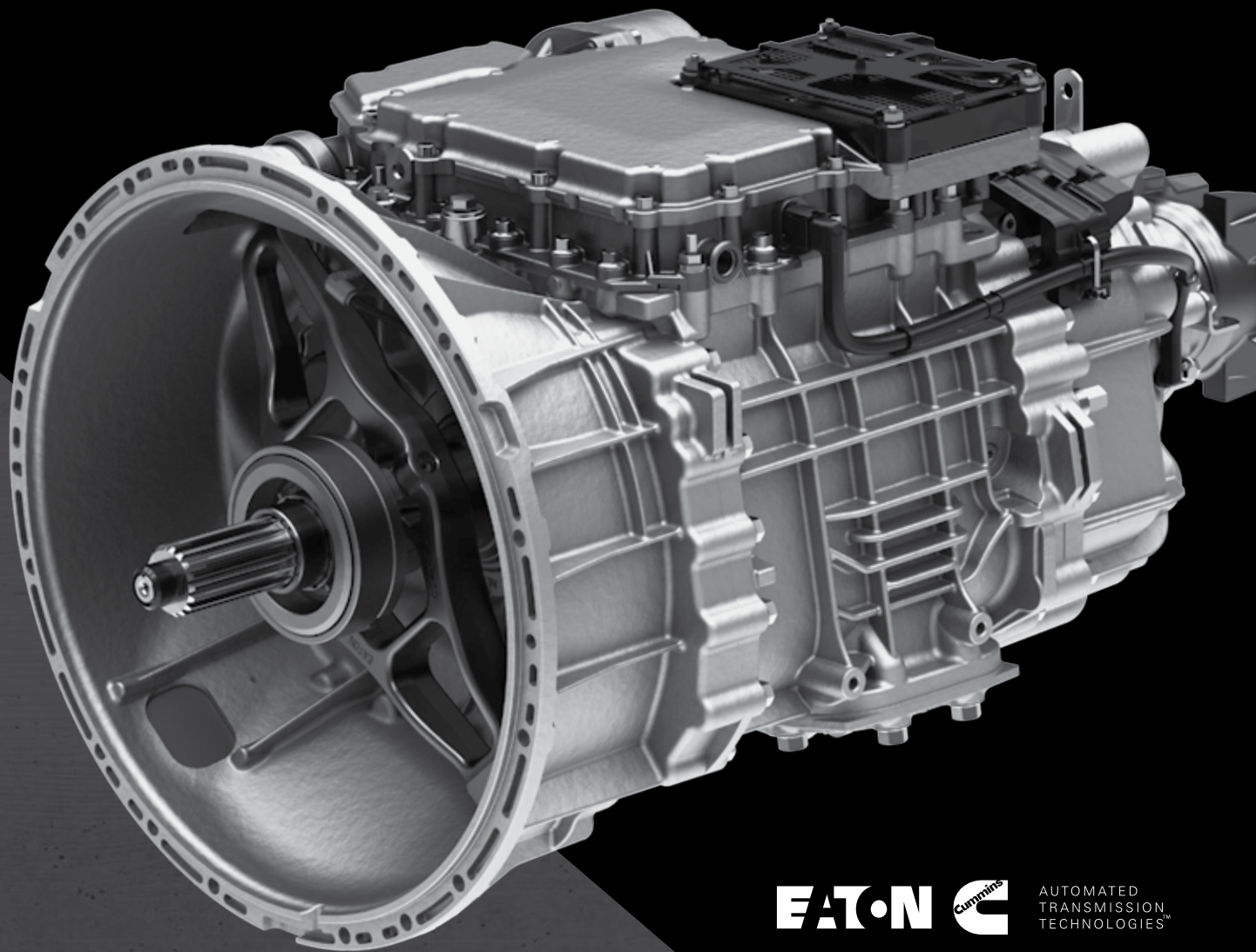


THE ENDURANT HD™

— SERIES TRANSMISSIONS —



EAT•N 

AUTOMATED
TRANSMISSION™
TECHNOLOGIES



**THE MOST WIDELY AVAILABLE AUTOMATED
TRANSMISSION IN NORTH AMERICA.**

INNOVATIONS THAT KEEP YOU AHEAD

The Endurant HD is a lightweight, highly efficient transmission designed for superb drivability in on-highway applications. Sophisticated software allows the engine and transmission to work seamlessly, improving efficiency and performance. Smart features like a transmission fluid pressure sensor helps protect the transmission from damage. In addition, the cooler-less design reduces the risk of cooler leaks and costly repairs. Predictive shifting uses look-ahead technology to execute shift decisions that improve fuel economy and driver comfort. Engineered with a twin-countershaft design for the most efficient delivery of engine torque, it's capable of hauling up to 110,000 pounds (49,895 kg) Gross Vehicle Weight.

- Transmission fluid pressure sensor alerts driver before system damage occurs
- Standard 8-bolt PTO mounting location improves future resale value
- Best in class lube change interval – up to 750,000 miles depending on vehicle application
- High overall ratio for excellent low-speed maneuverability
- IntelliConnect™ remote diagnostics reduces unplanned downtime and gets you back on the road faster

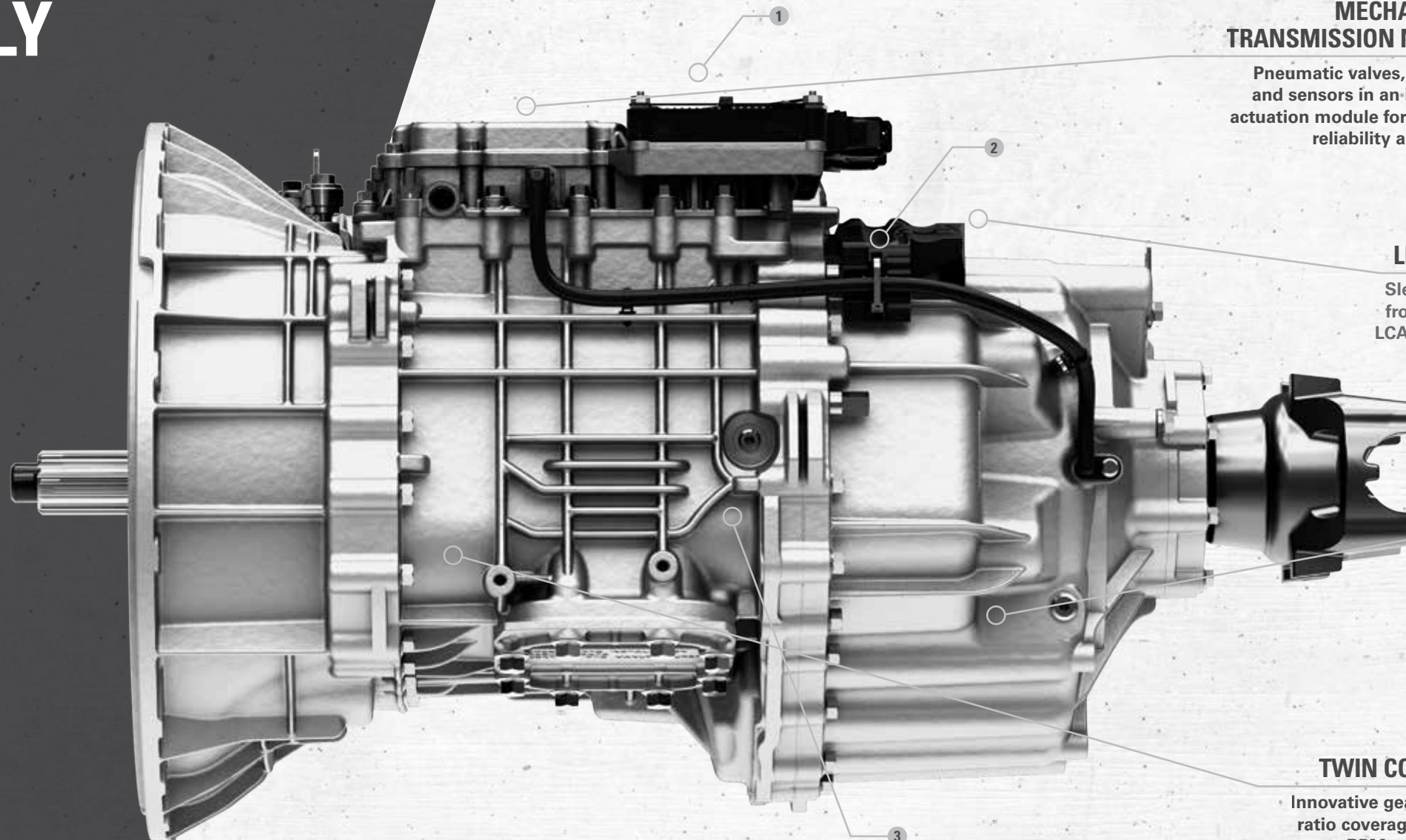
INTELLIGENTLY ENGINEERED. INCREDIBLY EFFICIENT.

The Endurant HD delivers an impressive combination of performance and efficiency.

An all-aluminum housing reduces weight and contributes to thermal optimization.

The maintenance-free, diaphragm spring clutch provides excellent launch and low-speed maneuverability.

A standard 8-bolt PTO opening enhances vehicle flexibility, which potentially improves vehicle resale value.



MECHATRONIC TRANSMISSION MODULE

Pneumatic valves, shift rails, and sensors in an integrated actuation module for improved reliability and service

LINEAR CLUTCH ACTUATOR

Sleek design protects components from wear and tear. Easy access to LCA provides superior serviceability compared to competitors

COOLER-LESS PRECISION LUBRICATION SYSTEM

Allows gears and bearings to get lubricant exactly where and when they need it for enhanced durability and efficiency.

TWIN COUNTERSHAFT DESIGN

Innovative gear design provides excellent ratio coverage and enables lowest cruise RPM and highest gear efficiency to maximize fuel economy.

TRANSMISSION CONTROLLER ①
INTERNAL WIRING & SENSORS ②
TRANSMISSION FLUID PRESSURE SENSOR ③

THE ENDURANT HD™


THE RIGHT TRANSMISSION

The Endurant HD Series offers choices, so you choose what’s right for your fleet – direct drive and overdrive models, single and dual PTO mounts, diesel and natural gas engine compatibility, and unique software settings. Visit <https://selector.eatoncummins.com/> to select the ideal transmission that best fits your needs.

OVERDRIVE & DIRECT DRIVE

Available in both 12-speed overdrive and 11-speed direct drive, the Endurant HD gives your fleet the power of choice.





DUAL PTO OPTION

Optional dual PTO mounts are available on Endurant HD 12-speed models, making them perfect for bulk haulers.

ENDURANT HD N AUTOMATED TRANSMISSION

Looking to lower your carbon footprint? The new Endurant HD N is deeply integrated with the Cummins ISX12N natural gas engine.



PERFORMANCE GOALS

New for the Endurant HD are Performance Goals which combine transmission shift points and clutch calibrations with unique software. This ensures that the transmission is well matched to the demands of the job.

GOALS:	DESCRIPTIONS:	WHO NEEDS IT:	ENDURANT HD	ENDURANT HD N
ECONOMY	Distinct on-highway shift points designed to maximize fuel economy with some performance (i.e., route time) trade-offs.	Trucks that want to maximize fuel economy.	✓	
STANDARD	Basic on-highway shift points for regular driving and blend of performance and fuel economy.	For those looking for a balance of economy and performance.	✓	✓
PERFORMANCE (LINE HAUL)	On-highway shift points tuned to realize higher performance (i.e., quicker route times) from the engine rating at all vehicle weights.	Performance-minded line haul or regional haul trucks where route time or performance on grades is more important than fuel economy.	✓	
TANKER	Fast shifts for unbaffled tankers to minimize tanker load sloshing resulting in smoother drivability performance.	For unbaffled tank haulers; could also be an improvement for baffled tankers.	✓	

BACKED BY THE BEST. SO YOU CAN DELIVER YOUR BEST.

The Endurant HD is backed by the support, solutions, and expertise of the Roadranger network — the most experienced and accessible drivetrain consultants in the business. With their knowledge, and IntelliConnect* remote diagnostics monitoring vehicle fault codes, you can count on the Endurant HD to keep you rolling mile after mile while reducing unplanned downtime.

BACKED BY

Roadranger

SUPPORT

INTELLICONNECT™



*IntelliConnect availability is dependent on compatibility of vehicles telematics provider and system

SPECIFICATIONS

THE ENDURANT HD™

510 MAX HORSEPOWER

(DIRECT DRIVE)
1,750 LB.-FT
MAX TORQUE
CAPACITY

OR

(OVERDRIVE)
1,850 LB.-FT
MAX TORQUE
CAPACITY

(DIRECT DRIVE)
80,000 LBS.
MAX. OPERATING WEIGHT GCVW

OR

(OVERDRIVE)
110,000 LBS.
MAX. OPERATING WEIGHT GCVW

(SINGLE PTO)
657 LB. SYSTEM
WEIGHT
(TRANSMISSION,
CLUTCH & OIL)

OR

(DUAL PTO)
660 LB. SYSTEM
WEIGHT
(TRANSMISSION,
CLUTCH & OIL)

16 PINT OIL CAPACITY

95 HP COMBINED MAX PTO CAPABILITY

750,000 MILES LINEHAUL LUBRICATION INTERVALS

250,000 MILES CONSTRUCTION/REFUSE LUBRICATION INTERVALS

GEAR RATIOS

GEAR	OVERDRIVE	DIRECT DRIVE
1 ST	14.43	14.43
2 ND	11.05	11.05
3 RD	8.44	8.44
4 TH	6.46	6.46
5 TH	4.95	4.95
6 TH	3.79	3.79
7 TH	2.91	2.91
8 TH	2.23	2.23
9 TH	1.70	1.70
10 TH	1.30	1.30
11 TH	1.00	1.00
12 TH	0.77	--
R1	16.92	16.92
R2	12.95	12.95
OVERALL	18.85	14.43



AUTOMATED
TRANSMISSION
TECHNOLOGIES™

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