

# Improve Your Fuel Economy With Advanced Shifting Technology



***FUELSENSE* 2.0** With DynActive™ Shifting



MAX PERFORMANCE

2.0

MAX ECONOMY

## Now Customize Your Fuel Savings And Performance Even Further

Much of Allison's continued success has come from building transmissions tailored to specific applications rather than a one-size-fits-all approach. FuelSense®, Allison's highly popular package of fuel-saving features, simply refined efficiency even further. Nearly half of all Allison transmissions delivered today are equipped with FuelSense—and this number continues to grow. Now, Allison has taken this customisation to a new level, giving vehicle builders more flexibility to offer the right blend of performance and fuel economy for their specific application.

### Welcome To FuelSense® 2.0 With DynActive™ Shifting

Through a set of proprietary software enhancements, FuelSense® 2.0 provides an infinitely variable combination of shift points. Rather than relying on fixed points on a shift table, FuelSense 2.0 uses a learning algorithm to continuously find the ideal balance of fuel economy and performance for your duty-cycle helping your vehicle operate more efficiently.

# Increase Your Profitability And Your Vehicle's Value

Our original FuelSense® technology helped customers gain a significant increase in fuel economy with its innovative features. The next in a long line of proprietary innovations from Allison, FuelSense® 2.0 improves fuel economy while maintaining the long-established Allison advantages of superior performance, industry-leading reliability and a low total cost of ownership. FuelSense® 2.0 has demonstrated the highest potential fuel savings in demanding duty-cycles of city bus, school bus, refuse, construction and distribution applications because of their heavy start-stop needs.

## Fuel Economy Improvements\* In Fleet Testing



\*Over current production baseline.

**NEARLY**  
**5.000.000** CUSTOMER  
TEST KILOMETERS IN **FLEETS**

# FUELSENSE<sup>®</sup> 2.0

with DynActive™ Shifting

## Features

FuelSense<sup>®</sup> 2.0 presents new and upgraded FuelSense<sup>®</sup> features to provide even more precise balancing of fuel economy and performance:

**DynActive™ Shifting**—This new innovative shift scheduling uses an algorithm to choose the most efficient shift point, based on your specifications, vehicle and environmental parameters. Older shifting technologies use shift schedules with fixed shift points.

**Neutral at Stop**—This feature trims fuel consumption and emissions by reducing or eliminating the load on the engine when the vehicle is stopped. There are two versions of Neutral at Stop:

- **Standard** – Provides partial (first-level) neutral at stop.
- **Premium** – Provides full neutral at stop and a new, low-speed coasting capability.

*Both versions lock the output while stopped to prevent rollback.*

**Acceleration Rate Management**—A feature that mitigates aggressive driving by automatically controlling engine torque. Newly updated, in addition to five levels of control, it provides more precision by limiting vehicle acceleration to a customised calibrated rate.

## FUELSENSE<sup>®</sup>

EcoCal and Dynamic Shift Sensing — EcoCal's low and "super" low speed shift schedules keep the engine speed at its optimum point. Dynamic Shift Sensing automatically selects between EcoCal and higher speed shift schedules based on grade and vehicle weight.

Neutral at Stop

Acceleration Rate Management

## FUELSENSE<sup>®</sup> 2.0

DynActive Shifting — FuelSense<sup>®</sup> 2.0 uses an algorithm to choose the most efficient shift points from an infinite number of combinations based on customer specs and engine fuel map, as well as vehicle and environmental parameters.

Improved Neutral at Stop — Reduces the load on the engine during low-speed coasting and when the vehicle is stopped for additional fuel savings.

Enhanced Acceleration Rate Management — Now with a custom rate for more precise control<sup>1</sup>.



## FuelSense® 2.0 with DynActive™ Shifting

Our standard package of FuelSense features gives you infinitely variable shift scheduling instead of traditional table-based scheduling.

# 3 Packages From Which To Choose

FuelSense® 2.0 allows you to select the appropriate fuel-saving features that are right for your fleet.

## FuelSense® 2.0 Plus with DynActive™ Shifting

Adds an improved Neutral at Stop, which reduces the load on the engine when the vehicle is stopped for additional fuel savings.

## FuelSense® 2.0 Max with DynActive™ Shifting

Includes both Neutral at Stop and enhanced Acceleration Rate Management features. Not only can you save fuel when your vehicle is stopped, you can limit vehicle acceleration to a rate set just for you.



# FUELSENSE<sup>®</sup> 2.0

## Economic Value

	Distribution	Transit	Construction Dump	Refuse
Annual Kilometers	80.467	96.561	80.467	9.656
Fuel Price Per Liter	€1,29	€1,29	€1,29	€1,29
Baseline L Per 100 km	32,8	36,2	34,8	158,9
Baseline Annual Fuel Cost	€34.053	€45.076	€36.172	€19.797
FuelSense 2.0 Savings	6,3%	4,3%	2,0%	6.0%
FuelSense 2.0 L Per 100 km	30,7	34,6	34,1	149,4
FuelSense 2.0 Annual Fuel Cost	€31.906	€43.136	€35.447	€18.608
<b>Annual FuelSense 2.0 Advantage (Per Vehicle)</b>	<b>€2.147</b>	<b>€1.939</b>	<b>€725</b>	<b>€1.189</b>
<b>CO<sub>2</sub> Reduction (Metric Tons)</b>	<b>4,49</b>	<b>4,06</b>	<b>1,52</b>	<b>2,49</b>

Calculations based on U.S. real-world fleet testing results over the current production baseline. Actual results may vary. Contact your Allison Transmission representative for more information.



# The **Allison Promise**

Provide the most reliable and valued propulsion solutions in the world to enable our customers to work more efficiently.

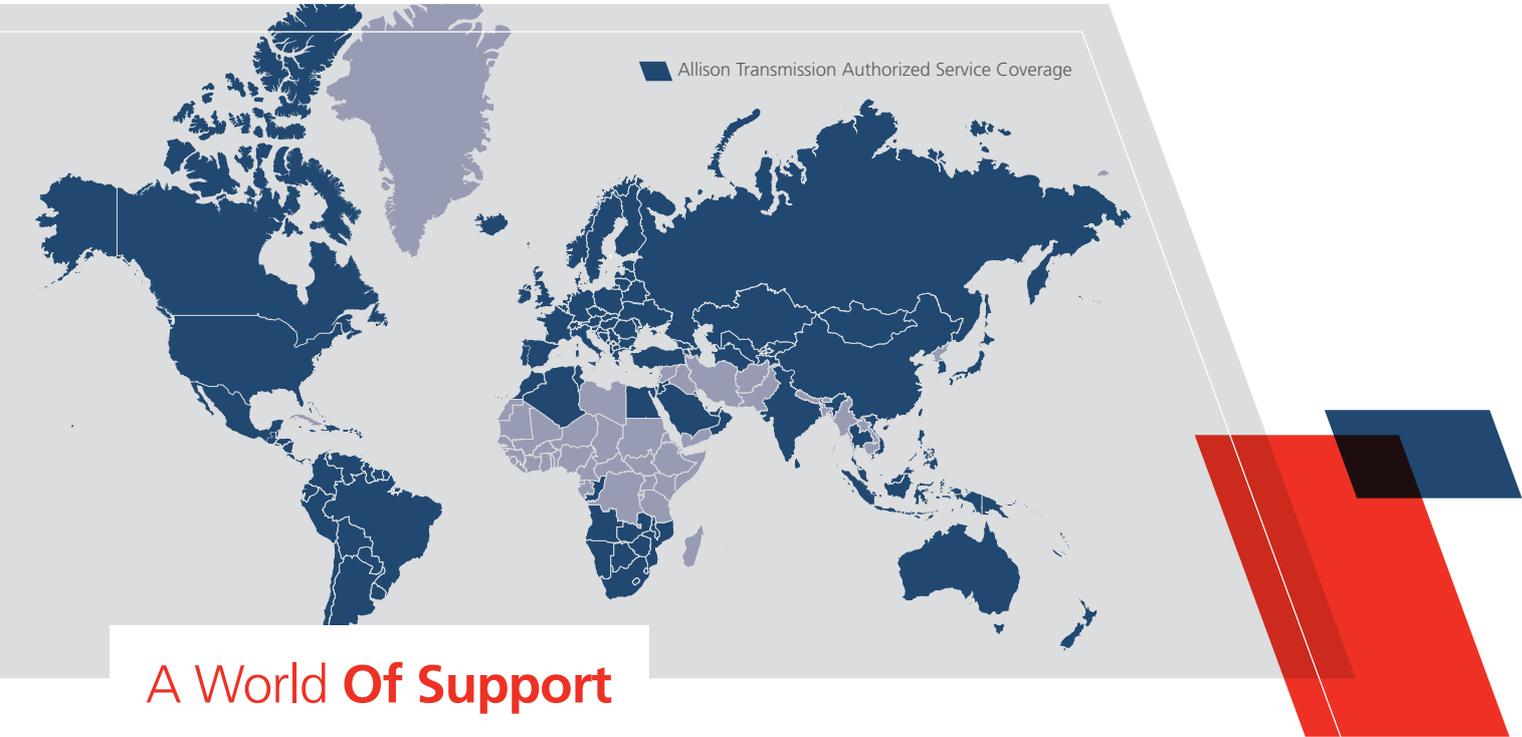
**Quality**

**Customer Focus**

**Integrity**

**Innovation**

**Teamwork**



## A World Of Support

From our headquarters in Indianapolis, Indiana, USA, to our manufacturing plants in Hungary and India, to approximately 1,400 Allison Authorised Distributors and Dealers around the globe, you are never far from the products, training, service and support you demand.

Our support starts from the moment an Allison transmission is specified. We work with you to ensure that the model and ratings fit your engine to create a tailored package of powerful performance and reliable efficiency. When you need parts or service, you can count on global access to factory-trained specialists and Allison Genuine Parts™.

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