

MOTIV POWER SYSTEMS

Proven All-Electric Solutions





All-Electric Specialists with Focus on Medium Duty Applications

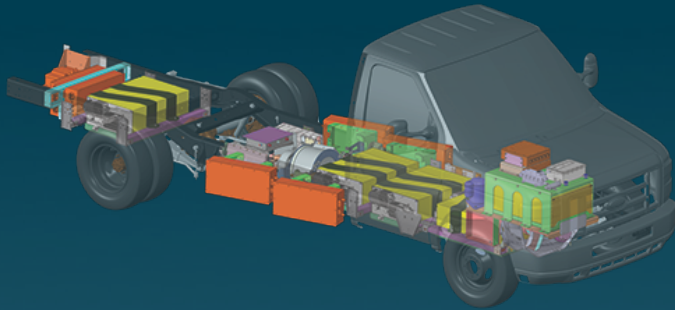
Passenger Cars
High volume/model
Low Configurability



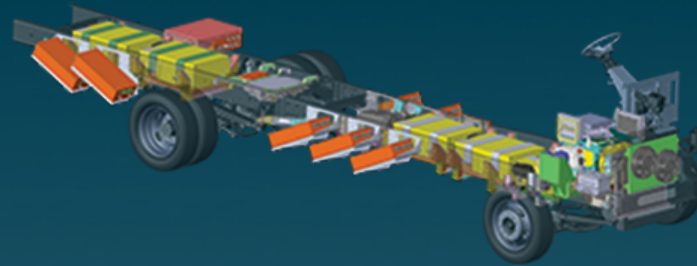
Class 8 Trucks
Medium volume/model
Low Configurability



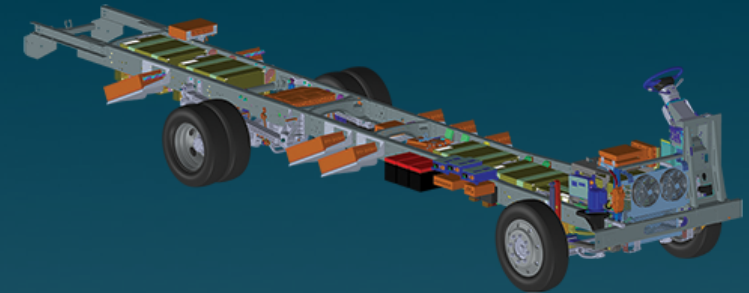
The Motiv EPIC Family of All-Electric Chassis



EPIC 4 Dearborn
Ford E450



EPIC 5 Dearborn
Ford F59



EPIC 6 Dearborn
Ford F59 or F53

Based on popular Ford platforms



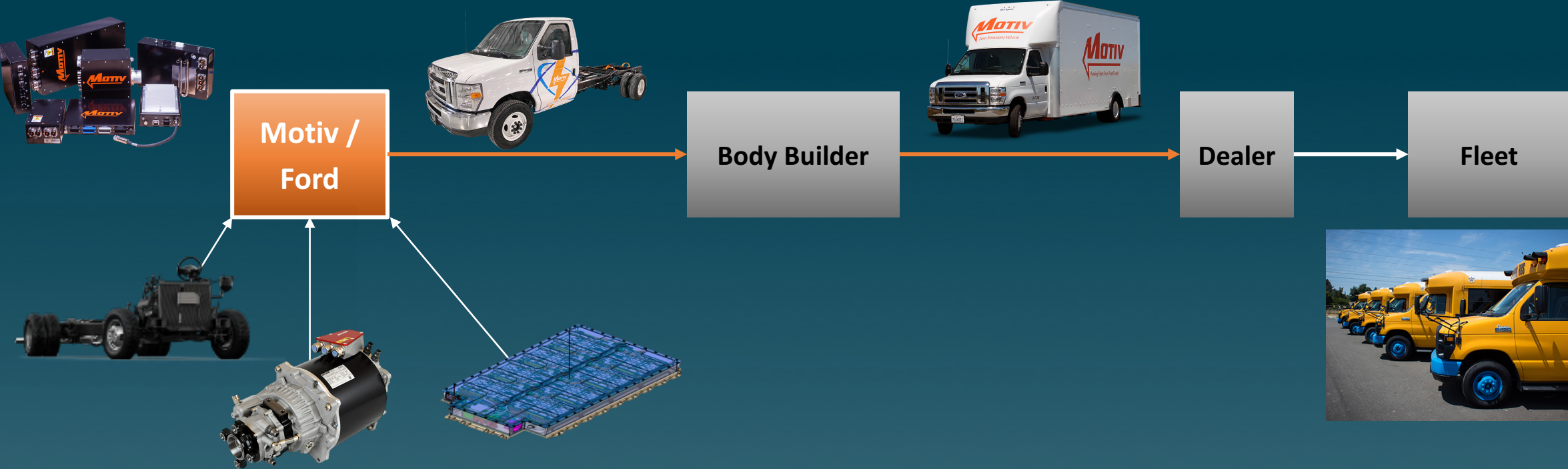
Vehicle Applications and Body Partners

CHASSIS	VEHICLE APPLICATIONS	BODY OPTIONS
EPIC 4 Ford E-450	School Bus, Shuttle Bus, Delivery Van, Box Trucks	Champion, Collins, Trans Tech, Utilimaster, Rockport, and CTEC
EPIC 6 Ford F-59	Delivery Van, School Bus, Shuttle Bus	Utilimaster and Starcraft Bus
EPIC 6 Ford F-53	Electric Trolley, Blood Mobile, Book Mobiles, other Specialty Applications	Winnebago and Hometown Trolley
<i>COMING SOON</i> Ford F-650	Box Trucks and Shuttle Buses	Rockport and Champion



Build Process

Motiv's controls and software are proven:
The commercial EV "operating system"



OEM chassis parts, battery packs, and motors.



Case Study:

AmeriPride Delivery Vans (F-59)

- 10 vehicles deployed in 2017
- 20 Additional vehicles deployed in 2018 at 4 new locations
- >95% uptime
- >64,000 miles
- 100% driver satisfaction
- 85% Operating savings
- 66% Maintenance savings

AmeriPride walk-in vans average 13 hour work days with their 102 kWh of usable energy. The stop and go of delivery duty cycles is ideally suited for regenerative braking, allowing some battery energy.

These routes are also ideal for eliminating fuel consumption while idling during operations.



Case Study: Mountain View/Google Community Shuttles (E-450)

- 6 shuttles deployed
- 13 mile loop, 30 stops
- 5 – 6 loops / day / vehicle
- 65 – 85 miles traveled / day
- >250,000 miles and >17,000 loops
- Passengers carried:
 - 2015: 97,079
 - 2016: 153,925
 - 2017: 189,925
 - 2018: Estimated 200,000

The Community Shuttles provide transportation between residential areas, senior services, offices, parks, medical facilities, shopping/entertainment and more.

The goal of this project is reduce traffic in Mountain View with a clean transportation alternative, while reducing demands on parking downtown.



MOTIV POWERED

All-Electric Specialists for Class 4 - 7 Applications

