



# LOCOMOTIVES



## F125 Passenger Locomotive

For more than 90 years, we have designed and manufactured locomotives unmatched in value and innovation. In fact, we have delivered 65,000 EMD-powered locomotives to more than 75 countries around the globe.

While these are impressive, our new F125 high speed passenger locomotive offers impressive numbers of its own.

It's the first new EPA Tier 4 passenger locomotive to be sold in the world. At 125 mph, it's the highest performing diesel-electric locomotive in North America. And, while offering 4,700 horsepower, it still weighs only 280,000 pounds.

We've packaged important safety features into this powerhouse including Crash Energy Management (CEM), using advanced world class engineering techniques from Stadler Rail—our partner in the design and manufacture of this high speed locomotive.

Powered by a Caterpillar C175 engine, our new F125 passenger locomotive is fast, clean, and efficient. It also complies with "Buy America" regulations.

Our long and diverse manufacturing history, the breadth and depth of our combined engineering experience and the unique way they come together make for an impressive story. And also make for impressive numbers.

# F125 Passenger Locomotive Features and Benefits

- ▶ **Low-profile, streamlined styling**
- ▶ **Full-width monocoque carbody**
- ▶ **Fuel efficient with EPA Tier 4 Caterpillar C175 engine**
- ▶ **Complies with Northeast Corridor clearance and operating conditions**
- ▶ **AC traction with individual axle control**
- ▶ **High speed fabricated trucks**
- ▶ **Inverter-type HEP**
- ▶ **Extended range dynamic brake energy recovery**
- ▶ **Layover capability**
- ▶ **PTC-compatible electronics**
- ▶ **Optimized fuel efficiency for transit and intercity applications**
- ▶ **Reduced cost of ownership**
- ▶ **Modular design for enhanced maintainability**
- ▶ **Advanced technologies for improved performance and reliability**
- ▶ **Proven design components for optimal service life**
- ▶ **Complies with "Buy America" requirements**

## F125 Passenger Locomotive Technical Details

GENERAL	
Weight	280,000 lbs
Length	69 ft
Height	14 ft, 7 in
Clearance Diagrams	Amtrak D-05-1355
Fuel	ULSD No. 2-D15
Maximum Speed	125 mph
P2 Forces	< 82,000 lbs
Starting Tractive Effort	71,000 lbs
HEP	600 kw rated up to 1,000 kw
Number of Fabricated Trucks	2
Number of Axles per Truck	2
Fuel Capacity	1,800+ gallons
Sand Box	4 @ 6.25 cu. ft per sand box
Diesel Exhaust Fluid	265 gallons
Retention Tank	100 gallons
ENGINE	
Model	Caterpillar C175-20
EPA Rating	Tier 4
Type	Turbocharged, 4 Stroke 20 Cylinders
BHP	4700 @ 1800 rpm