



ELECTRO.MOTIVE.

F125

FAST • EFFICIENT • SAFE • CLEAN

Impressive Numbers

For more than 90 years, Electro-Motive has designed and manufactured locomotives unmatched in value and innovation. In fact, we've delivered more than 63,000 EMD-powered locomotives to over 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 125mph, it's the fastest diesel-electric locomotive in North America. And, in spite of offering 4,700 horsepower, it weighs only 280,000 pounds – the lightest locomotive of its type.

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

Powered by a Cat® C175 series 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 makes for impressive numbers.

F125 Passenger Locomotive Features

- Modular, low-profile, streamlined styling
- Full-width monocoque carbody
- Integrated Crash Energy Management (CEM) system
- Fuel efficient EPA Tier 4 Cat C175 engine
- Complies with Northeast Corridor clearance and operating conditions
- AC traction with individual axle control
- High speed fabricated trucks
- Inverter-type HEP with dynamic brake energy recovery
- Extended range dynamic brake and blended brake
- Layover capability
- PTC-compatible electronics

Locomotive Capacities and Specifications

GENERAL	
Weight	280,000 lbs.
Length	69 ft.
Height	14 ft 7 in
Clearance Diagram	Amtrak D-05-1355
Fuel	ULSD N0.2-D15
Maximum Speed	125 mph
P2 Forces	< 82,000 lbs
Starting Tractive Effort	71,000 lbs
HEP	600kW rated up to 1000kW
Number of Fabricated Trucks	2
Number of Axles per Truck	2
Fuel Capacity	1800+ 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

F125 Passenger Locomotive Benefits

- 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