



2250 H.P. DIESEL PASSENGER LOCOMOTIVE . . DESIGNED AND BUILT BY ELECTRO-MOTIVE DIVISION . . GENERAL MOTORS . . LA GRANGE, ILLINOIS, U. S. A.

# 2250 H. P. DIESEL PASSENGER LOCOMOTIVE

*Designed and Built for*

## CHICAGO, ROCK ISLAND & PACIFIC RAILWAY

BY ELECTRO-MOTIVE DIVISION • GENERAL MOTORS • LA GRANGE, ILLINOIS

This Diesel Passenger Locomotive is equipped with two General Motors 12 cylinder, V-type, 2 cycle Diesel engines having a bore of  $8\frac{1}{2}$ " , stroke 10" and a unit fuel injection system. These engines, capable of independent operation, are rated at 1125 horsepower each at 800 RPM, providing a total of 2250 horsepower for the locomotive. Each engine is directly coupled to a

DC-AC generator. Alternating current powers auxiliary equipment. Direct current is fed through control apparatus to four traction motors—two per truck—geared directly to the driving axles. Two six-wheel trucks are used in this locomotive for smoother operation in the upper high speed range, middle wheels being designed to aid in weight distribution only.

### DIMENSIONS

Overall length over couplers .....	70'-3"
Maximum width over grab irons.....	10'-8"
Width over body posts.....	9'-10"
Height over all, above rail.....	14'-10 $\frac{1}{2}$ "
Wheel diameter.....	36"
Rigid wheel base of trucks.....	14'-1"
Roller bearing journals.....	6 $\frac{1}{2}$ " x 12"
Distance between bolster centers.....	43'-0"
Truck swing designed for 21° curve or 274-foot radius	

### SPECIFICATIONS

#### BASE WEIGHTS (approximate)

Total weight, fully loaded.....	316,500 lbs.
Weight on drivers, fully loaded.....	210,750 lbs.

#### TRACTIVE EFFORT

*(calculated from base weight)*

Maximum tractive effort at rim of driving wheels at 25% adhesion.....	52,688 lbs.
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#### SUPPLIES

Fuel oil.....	1200 gals.
Sand.....	16 cu. ft.
Lubricating oil (2 Engines) .....	330 gals.
Engine cooling water (2 Engines) .....	400 gals.
Boiler water.....	1350 gals.

