

4000 H. P. DIESEL PASSENGER LOCOMOTIVE

Designed and Built for

UNION PACIFIC RAILROAD

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

This 4000 horsepower Diesel passenger locomotive consists of two lead units arranged for control from either cab, thus eliminating turn-arounds at terminals. Each unit is capable of independent operation and is equipped with two 12 cylinder, V-type, 2-cycle General Motors Diesel engines with 8½" bore, 10" stroke and a unit fuel injection system. Each engine is directly coupled to a DC generator. Direct current

is fed through control apparatus to traction motors which are geared directly to drive axles. There are two traction motors per truck, two 6-wheel trucks per unit. The 6-wheel trucks are used in this locomotive for smoother operation in the upper high speed range, middle wheels designed to aid in weight distribution only.

SPECIFICATIONS

DIMENSIONS

Overall length over couplers
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Width over body posts9'-10"
Height over all, above rail14'-11"
Wheel diameter
Rigid wheel base of trucks14'-1"
Roller bearing journals
Distance between bolster centers
Truck swing designed for 21° curve or 274-foot radius

BASE WEIGHTS (approximate)

	loaded	630,000 lbs.
Weight on drivers,	fully loaded	424,620 lbs.

TRACTIVE EFFORT (calculated from base weight)

SUPPLIES

Fuel oil
Sand
Lubricating oil440 gals.
Engine cooling water627 gals.
Boiler water

