

4000 H. P. DIESEL PASSENGER LOCOMOTIVE

Designed and Built for

TEXAS & PACIFIC RAILWAY

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

This Diesel Passenger Locomotive consists of two cab units arranged for double end control from either cab, thus eliminating turn-arounds. Each unit is equipped with two 12 cylinder, V-type, 2-cycle General Motors 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 1000 horsepower each at 800 RPM, providing a

total of 4000 horsepower for the locomotive. Each engine is directly coupled to a DC generator. Current from these generators is fed through control apparatus to eight traction motors—two per truck—geared directly to the driving axles. Two six-wheel trucks per unit 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
Maximum width over grab irons $10'$ - $6\frac{7}{8}''$
Width over body posts9'-10"
Height over all, above rail
Wheel diameter
Rigid wheel base of trucks
Roller bearing journals
Distance between bolster centers 43'-0"
Truck swing designed for 21° curve or 274-foot radius

SPECIFICATIONS

BASE WEIGHTS (approximate)

TRACTIVE EFFORT

(calculated from base weight)

SUPPLIES

30112123
Fuel oil
Sand32 cu. f
Lubricating oil
Engine cooling water
Boiler water 2400 gals

