

4000 H.P. DIESEL PASSENGER LOCOMOTIVE . . DESIGNED AND BUILT BY ELECTRO-MOTIVE DIVISION . . GENERAL MOTORS . . LA GRANGE, ILLINOIS, U. S. A.

# 4000 H. P. DIESEL PASSENGER LOCOMOTIVE

Designed and Built for

### LOUISVILLE & NASHVILLE 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  $8\frac{1}{2}$ " 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	
Maximum width over grab irons	
Width over body posts9'-10"	
Height over all, above rail	
Wheel diameter36"	
Rigid wheel base of trucks	
Roller bearing journals	
Distance between bolster centers	
Truck swing designed for 21° curve or 274-foot radius	

## BASE WEIGHTS (approximate)

## TRACTIVE EFFORT

(calculated from base weight)

#### SUPPLIES

Fuel oil	ls.
Sand32 cu.	ft.
Lubricating oil440 ga	ls.
Engine cooling water627 ga	ls.
Boiler water	ls.

