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

ATCHISON, TOPEKA & SANTA FE RAILWAY SYSTEM

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

This 4000 horsepower Diesel passenger locomotive consists of two units. Each unit is equipped with two 12 cylinder, V-type, 2-cycle General Motors Diesel engines with 8½" bore, 10" stroke and 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	141'-6¾"
Maximum width over grab irons	10'-6⅞"
Width over body posts	9'-10"
Height over all, above rail	14'-11"
Wheel diameter	36"
Rigid wheel base of trucks	14'-1"
Roller bearing journals	6½" x 12"
Distance between bolster centers	43'-0"

Truck swing designed for 21° curve or 274-foot radius

BASE WEIGHTS (approximate)

Total weight, fully loaded	600,000 lbs.
Weight on drivers, fully loaded	404,400 lbs.

TRACTIVE EFFORT
(calculated from base weight)

Maximum tractive effort at rim of driving wheels at 25% adhesion	101,100 lbs.

SUPPLIES

Fuel oil	2400 gals.
Sand	16 cu. ft.
Lubricating oil	440 gals.
Engine cooling water	556 gals.
Boiler water	2200 gals.

GENERAL MOTORS LOCOMOTIVES