

4500 H.P. DIESEL PASSENGER LOCOMOTIVE . DESIGNED AND BUILT BY ELECTRO-MOTIVE DIVISION . . GENERAL MOTORS . . LA GRANGE, ILLINOIS, U. S. A

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Designed and Built for

ST. LOUIS - SAN FRANCISCO RAILWAY

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

This 4500 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-AC generator. Alternating current powers auxiliary equipment. Direct current is fed through control apparatus to the eight traction motors—two per truck—geared directly to the driving axles. There are two six-wheel trucks per unit.

SPECIFICATIONS

DIMENSIONS (per unit)

Overall length over couplers, lead unit	70'-3
Maximum width over grab irons	10'-8'
Width over body posts	9'-10'
Height over all, above rail	14'-11
Wheel diameter	36
Rigid wheel base of trucks	14'-1"
Distance between bolster centers	43'-0
Truck swing designed for 21° curve or 274-foot ra	dius.

BASE WEIGHTS (per unit-approx.)

Total weight, fully Weight on drivers,	fully loaded	 	210,750 lbs.
Trucks (2)		 	102,900 lbs.

TRACTIVE EFFORT (calculated from base weight)

Maximum tractive effort at rim of driving		
wheels at 25% adhesion	52,687 lbs.	

SUPPLIES (per unit)

SOLL TITO (bei our										
Fuel oil										.1200 gals
Sand	 						 			16 CU. II
Lubricating oil										
Engine cooling water										. 400 gals
Boiler water										1950 gals

