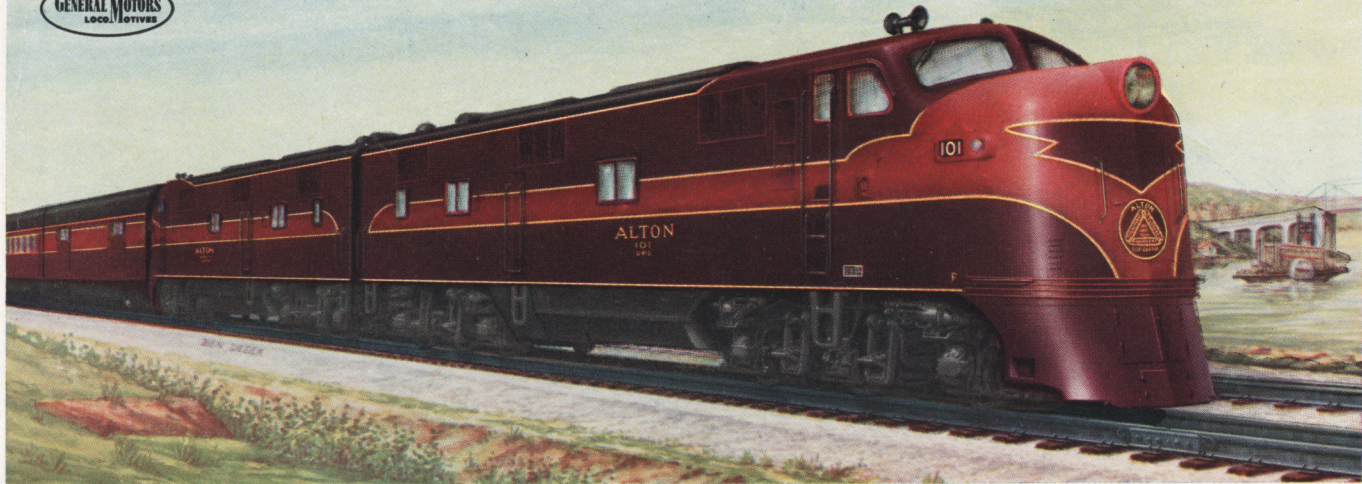


GENERAL MOTORS
LOCOMOTIVES



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

4000 H. P. DIESEL PASSENGER LOCOMOTIVE

Designed and Built For

THE ALTON RAILROAD COMPANY

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

This Diesel Passenger Locomotive consists of two units arranged for double end control from either cab, each unit being equipped with two General Motors 12-cylinder, V-type, 2-cycle Diesel engines having a bore of $8\frac{1}{2}$ " , stroke 10" , with unit injection system. These engines are rated at 1000 H.P. each at 800 R.P.M., providing a total of 4000 H.P. for the locomotive. Each engine is direct connected to a D.C. gen-

erator, the current of which is distributed to the traction motors mounted on the trucks which, in turn, are geared to the axles. There are two 6-wheel trucks under each unit, with the motors supplying power to the front and rear axles of each truck. The center axle is a load bearing axle only and is not powered. The total of eight traction motors are geared to the axles for a maximum speed of 98 M.P.H.

SPECIFICATIONS

DIMENSIONS

Overall length over couplers.....	142'-2 $\frac{1}{2}$ "
Maximum width over grab irons.....	10'-6 $\frac{7}{8}$ "
Width over body posts.....	9'-10"
Height over all, above rails.....	14'-10"
Wheel diameter.....	36"
Rigid wheel base of trucks.....	14'-1"
Roller bearing journals.....	6 $\frac{1}{2}$ "x12"
Truck swing designed for 21° curve or 274-foot radius	
Distance between truck centers (each unit).....	43'-0"

SUPPLIES

Fuel oil.....	2400 gals.
Sand.....	32 cu. ft.
Lubricating oil.....	560 gals.
Engine cooling water.....	600 gals.
Boiler water.....	2400 gals.

WEIGHTS

Total weight fully loaded.....	634,240 lbs.
Weight with one-half of variable supplies.....	613,500 lbs.
Maximum tractive effort at rim of driving wheels at 25% adhesion.....	103,380 lbs.

