

**A
SAFER
WAY TO
SWITCH**



LEAF® Tier 4 Switching

General Data

Horsepower (gross) per Genset Skid.....	600 HP @ 1800 RPM
Maximum No. of Genset Skids.....	Two (2) Skids
Wheel Arrangement (AAR Symbol).....	B-B (Bo-Bo)
Minimum Track Curvature: Alone.....	39 Degrees
Maximum Governed Speed.....	10 MPH
Programmable Speed up to.....	30 MPH
Clearance	up to Plate C (186 in. high)
AAR, APTA, FRA, Conformance.....	As applicable for service type
FRA Service Type.....	Yard/Switching

GenSet Details

Engine.....	Cummins QSX15 Tier 4 Final
Generator.....	Stamford (500 kw) 480 VAC 3 Phase
Radiator/CAC System	Diesel Radiator Company DR4134-00
Skid Dimensions	167 in. L x 96 in. H x 63 in. W
Coolant	25 US Gallons
Lubricating Oil	22 US Gallons
Engine Start	Four (4) 12 Volt DC batteries in series/parallel
Remote Radiator Refill System.....	Standard

Truck Details

Wheel Diameter.....	New FAT 40"
Gearing.....	62:15
Journal Bearings	NEW as equipped
Gear Case.....	NEW
Brakes.....	Single Shoe
Locomotive Control System.....	American Traction System (ATS)
Traction Motors.....	D77 or better

Cab

Heaters	Two (2) Forced Air 4000 watts/13,600 BTU
Engineer Seat	Standard
Courtesy Outlet.....	One (1) 110 VAC 15 amp Standard
AAR Control Stand.....	Standard
Alerter System.....	Standard
Engine Diagnostic Screen.....	Standard

Air System

Air Compressor...Atlas Copco GAR30
Air Brakes.....26L
Air Piping/Reservoirs.....NEW
Air Brake Valves.....Reconditioned
Horn Type.....Nathan Airchime K3LA
Wiper Motors.....NEW

Fuel System

Fuel Tank.....	New
Fuel Capacity.....	1,200 Gallons
Fuel Gauge.....	Electronic

Technical Specifications

SPECIFICATIONS

GENERAL DATA

Model designation.....SINGLE / DUAL
Locomotive power (gross)...SINGLE 600 HP
Locomotive power (gross)...DUAL 1200 HP
Wheel arrangement..... (AAR)B-B

DIMENSIONS

AAR plate.....Plate C, 186" H
Length over coupler pulling faces.....56'25"
Width over grab irons.....10'25"
Maximum height above rail.....15'6"
Wheel diameter.....FAT 40"

WEIGHT

Fully Serviced (1 Skid approx.)....271,000 lbs
Fully Serviced (2 Skids approx.)..271,000 lbs

SUPPLIES

Fuel.....New Fuel Tank: 1,200 gallon
Fuel Gauge.....Electronic
Sand.....Total Sand: 40ft³
CoolantTotal Coolant: 18 gal
Lubricating oil perTotal Lube Oil: 22 gal

EQUIPMENT

Engine model -T4 Final.....QSX15
Generator model.....Stamford (500KW) 480
VAC 3 Phase
Air compressor model.....GAR30
Air brake model26L Pneumatic
Microprocessor model*.....ATS Traction Control
Drive Modules
Traction motors.....D77 or better

**LEAF Control System uses IFM CAN network components with Railserve proprietary program*

LEAF Options

Cab

Additional 110 VAC Receptacles
Air Conditioning
Awning
Camera System
Fire Extinguisher
First Aid Kit
Fold-Down Table
Padded Sun Visors
Refrigerator

Trucks

Flange Lubricators

Air Brake System

Air Dryer
Air Flow Indicator
Electronic Brakes**
Service Air Line

Electrical

Ditch Lights
Event Recorder
High-Speed Field Weakening
MU System

Miscellaneous

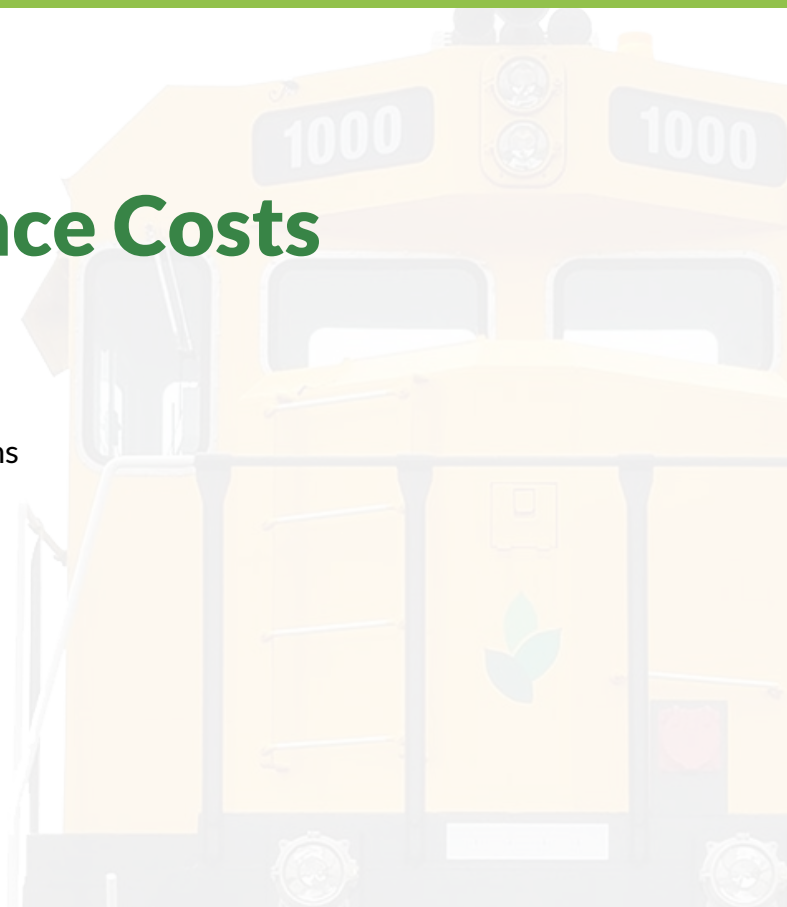
Crash worthy Frame, Cab, Fuel Tank**
Custom Paint Scheme
Locomotive Remote Control
Remote Uncoupling Device

***Indicates that additional engineering charges may apply.*

Reduced Emissions

Reduced Maintenance Costs

- FRA Compliant New Locomotives
- Reduces Fuel Consumption 45-65%, 92% less NOx , and 80% less oil
- Zero stack embers - eliminates ground fire concerns
- Reliable - with 98.5% uptime
- Programmable Automatic Shutdown and Speed Control - 10 mph default
- Proprietary locomotive and traction control minimizes wheel slip and track damage
- 15% lower decibel level than conventional locomotives
- Reduced start-up time, one-button push start
- Easy to maintain - available parts
- Eligible for Diesel Emission Reduction Grants and Emission Credits



45% - 65% less fuel

80% - 85% less lube oil

50% reduction in carbon emissions

92% - 99% reduction in NOx and PM emissions

- Easy to maintain and troubleshoot
- Training for Operations and Maintenance staff provided with purchase
- FULL maintenance support for first year available in most locations
- Full product documentation available in multiple languages
- 1 Year Leaf warranty
- Global support from partners like Cummins, Atlas Copco, and American Traction Systems

Contact your LEAF Locomotive representative today

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See how LEAF can improve your rail operations today!