

US EPA ARCHIVE DOCUMENT

# CoGeneration™ Locomotives

A new generation of motive-power for your fleet

**CoGeneration™** - A process where power is generated by two or more sources simultaneously or individually to achieve maximum efficiency and minimum emissions.

**Pictured Left:**  
Model BL14CG →



**Pictured Below:**  
Model BL20CG →



**Regenerative Dynamic Braking** BEC's regen braking allows the use of the DB brakes (down to 0.6 mph) to generate energy that is recycled for use in auxiliary functions like cab heating, fans, air conditioning, lights, radios, refrigerator, and air compressor.

**Smokeless Start** - Each engine is started by the generator to a high speed before fuel is introduced. This configuration also eliminates the maintenance from normal wear on starters and ring & pinion gears.

**Power on Demand** - Feature utilizes engine shut-down that can reduce fuel consumption by 25% and limit excess noise when power demand is low. As Power Demand increases, additional engine(s) comes on-line to provide up to 2100hp (total). Optional power source options may also include battery third rail or catenary input sources.

**Cleanest Emissions** - Through a combination of clean-burning MOH Tier 3 engines and optional self-cleaning ceramic particulate filters, Hydrocarbon emissions are reduced 97%, NOx reduced by 65%, CO reduced 75%, and Particulate Matter reduced by 93%.

MODEL	BL20CG	BL14CG	BL20CGC
Wheel arrangement:	B-B	B-B	C-C
Engine(s) *:	(3) Cummins QSK19C 19L*	(2) Cummins QSK19C 19L*	(3) Cummins QSK19C 19L*
Traction Motors:	4 x D78	4 x D78	6 x D78
Traction Horsepower:	2000	1300	2000
Maximum Speed:	66	66	66
Starting Tractive effort:	86,400 Lbs	83,200 Lbs	100,000 Lbs
Adhesion:	32%	32%	32%
Weight (fully serviced):	270,000 Lbs	260,000 Lbs	320,000 lbs
Fuel Capacity:	2500 gal	gal	3000 gal
Regenerative Braking	50,000 Lbs	50,000 Lbs	75,000 lbs
Exhaust Treatment	Optional DPF / DOC	Optional DPF / DOC	Optional DPF / DOC
Head End Power	Optional	Optional	Optional
Zero fuel consumption during regen braking	yes	yes	yes

\* This engine standard, other engines available



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# Brookville-built Locomotives

Customized to meet tomorrow's transportation needs

MODEL	BL20G
Wheel arrangement:	B-B
Engine(s) * :	(1) MTU 12v4000 57.3 L*
Traction Motors:	4 x D78
Traction Horsepower:	2000
Maximum Speed:	80
Starting Tractive effort:	81000 Lbs
Adhesion:	30%
Weight (fully serviced):	270,000 Lbs
Fuel Capacity:	2500 gal
Regenerative Braking	40,000 lbs
Exhaust Treatment	Optional DOC
Head End Power	Optional
Zero fuel consumption during regen braking	no

Model BL20GH  
(with HEP) →



← Model BL20GH  
(with HEP)



Brookville's line of locomotives feature new "FRA Compliant" welded frames.

**Highest Rail Adhesion** - Using the Traction & Engine Control Unit provides a cab-mounted touch screen display that accesses engine controls and diagnostics. Also controls wheel slip/slide in Power and DB modes based on axle speed sensors. Each traction motor is individually controlled for maximum adhesion.

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