

Protection, Performance and Reliability

Progress Rail's EL-286 Group J Draft Gear is designed and manufactured to provide exceptional performance and protection of freight car structures in all Gross Rail Load (GRL) applications, with special emphasis on the current 286,000-lb. GRL requirements. Understanding the need for improved buff and draft protection of freight car structures, the EL-286 is manufactured using only the highest quality materials and heat-treated components, and is uniquely tuned to provide uniform energy absorption throughout its entire range of travel. This benefits the car structure by reducing coupler forces generated during coupling, and train action events. The end result is a draft gear that provides the ultimate service life, and truly defines performance and reliability.

Other Specifications:

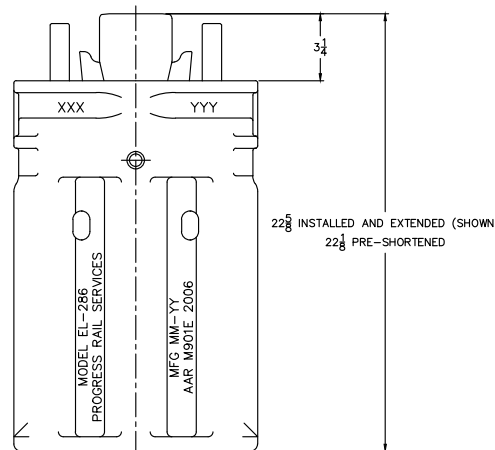
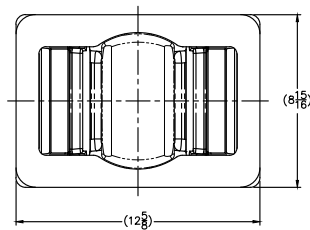
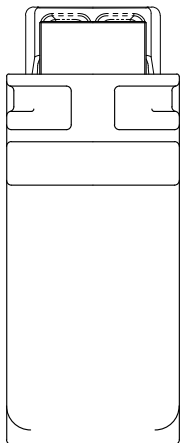
- AAR M901E 2006 - Group J Standard Draft Gear
- Fits standard AAR 24 5/8" draft gear pocket
- Provides 3 1/4" of travel in both the buff and draft directions
- Utilizes AAR standard yoke and follower



EL-286 Standard Draft Gear

Key Features and Benefits

- High performance
- All-steel components – No elastomeric materials used
- All materials and manufacturing processes meet or exceed current AAR, ASTM, AISI and European Standards



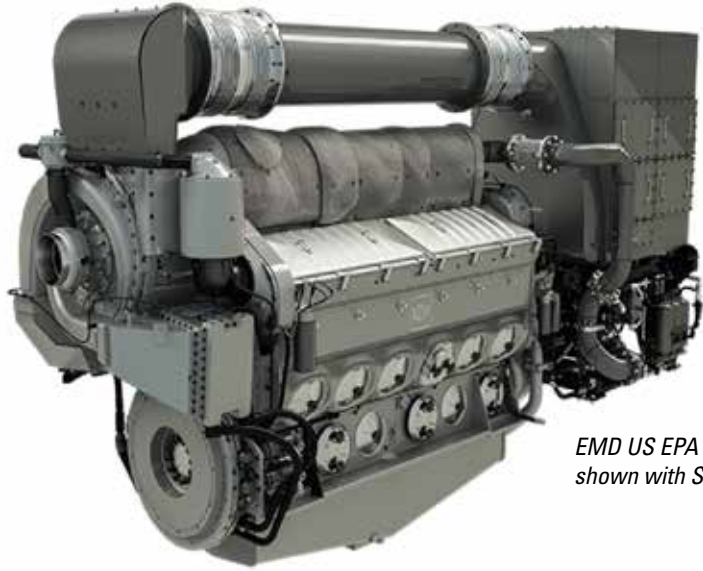
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*EMD US EPA T4 / IMO III engine model
shown with SCR aftertreatment*

EMD 710 SERIES ENGINE SPECIFICATIONS



ENGINE DESIGNATION	8-710	12-710	16-710	20-710
Cylinders, Arrangement	8 cylinders, 45°V	12 cylinders, 45°V	16 cylinders, 45°V	20 cylinders, 45°V
Bore Diameter	230.2 mm (9.1 in)	230.2 mm (9.1 in)	230.2 mm (9.1 in)	230.2 mm (9.1 in)
Piston Stroke	279.4 mm (11 in)	279.4 mm (11 in)	279.4 mm (11 in)	279.4 mm (11 in)
Full-Load Speed	900 rpm	900 rpm	950 rpm	900 rpm
Power Rating	1,491 kW (2,000 BHP)	2,237 kW (3,000 BHP)	2,983 kW (4,000 BHP)	3,729 kW (5,000 BHP)
Length	3,632 mm (143 in)	4,597 mm (181 in)	5,563 mm (219 in)	6,426 mm (253 in)
Width	1.75 m (68 in)	1.75 m (68 in)	1.75 m (68 in)	1.75 m (68 in)
Height	2.75 m (108 in)	2.75 m (108 in)	2.75 m (108 in)	2.75 m (108 in)
Weight	11,300 kg (24,912 lbs)	14,600 kg (32,187 lbs)	18,000 kg (39,683 lbs)	21,000 kg (42,297 lbs)

BENEFITS

- Superior reliability means the 710 engine can operate more than three years without experiencing a road failure, setting the bar for the rail industry
- Lightweight and flexible medium-speed engine
- Custom design and integration for optimized performance across a wide range of operating environments
- Inherently emissions friendly and fuel efficient
- Ease of maintenance and lower overhaul costs
- Low lube oil consumption and no scheduled oil changes
- Rapid response to full power providing superior adhesion control during wheel slip events for AC freight locomotives
- Robust, service-proven design with unmatched durability
- Largest installed fleet and common parts provide reduced material, labor, tooling and training costs
- New EMD engine technologies can be retrofit on existing models to further enhance performance and efficiency

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