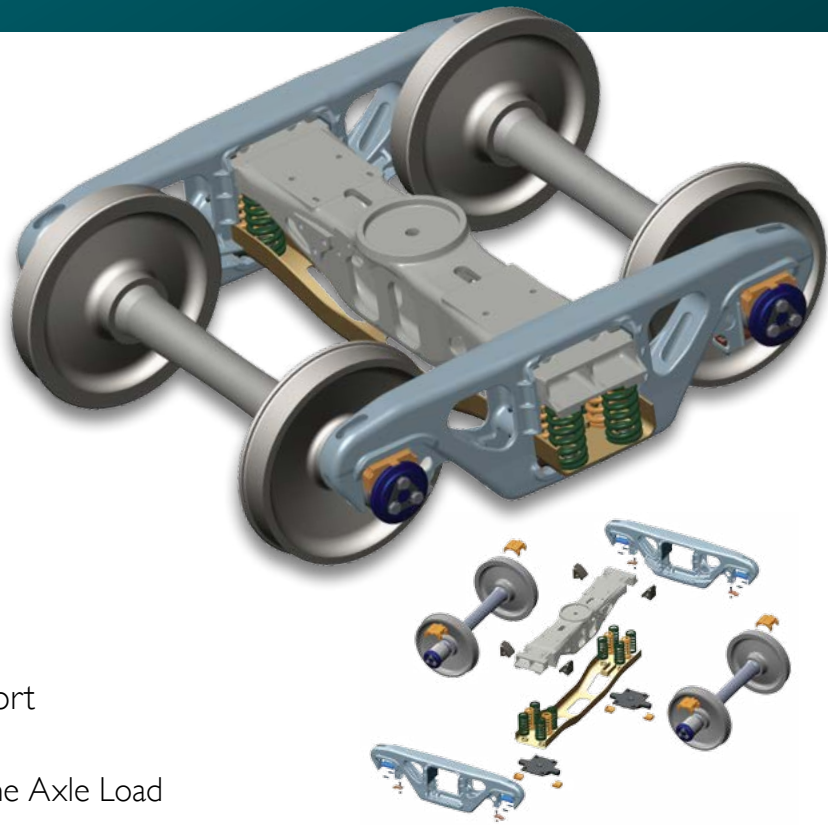


Swing Motion®

Premier suspension design for safety and stability at high speeds



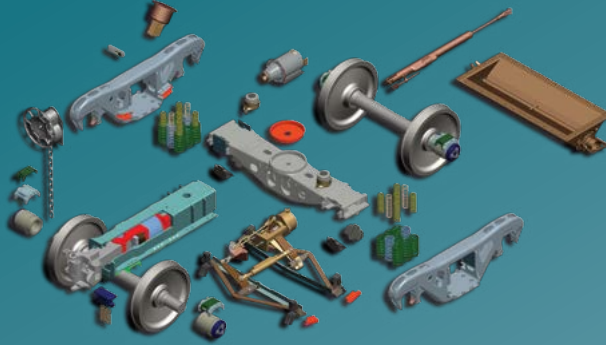
- The ultimate in freight rail bogie performance for lading protection
- Proprietary Swing Motion stabilization system unsurpassed in high-speed stability
- Superior ride quality
 - Improved lading protection
 - Reduced wheel and component wear
 - Lower maintenance and lifecycle costs
- Ideal for automobile and finished goods transport
 - Reduced damage claims
- Up to 286,000 pound Gross Rail Load/32.5 tonne Axle Load

SWING MOTION COMMON CONFIGURATIONS

Designation	Track Gauge	Journal Size	Axle Load	Wheel Diameter	Wheel Base	Center Bowl	Spring Type	Additional Description
N52648-1	1000mm	5 ½ X 10	20t	851mm 33.5"	1753mm 69"	304.8mm 12"	SPECIAL	16t CAPACITY SPRING GROUP
AS-512	1435mm	6 X 11	25t	711mm 28"	1600mm 63"	356mm 14"	AAR	LOW DECK
AS-500	1435mm	6 X 11	25t	840mm 33"	1727mm 68"	356mm 14"	AAR	STANDARD LEVEL
AS-520	1435mm	6 ½ X 12	32.5t	914mm 36"	1829mm 72"	406mm 16"	AAR	SWING MOTION ADAPTER
N52890	1600mm	6 ½ X 12	32.5t	914mm 36"	1829mm 72"	406mm 16"	AAR	SHEAR PAD ADAPTER
AS-531	1676mm	6 ½ X 9	25t	840mm 33"	1880mm 74"	406mm 16"	AAR	SWING MOTION ADAPTER
AS-515	1676mm	7 X 9	32.5t	965mm 38"	1880mm 74"	406mm 16"	AAR	SWING MOTION ADAPTER

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**Amsted Rail, the global leader
in fully integrated freight car systems
for the heavy haul rail market.**



Amsted Rail has been an industry leader in freight railroading for more than 100 years. Our experience, dedication and efficiency in servicing today's demanding heavy haul operations is unequalled as we keep railcars rolling in some of the world's toughest railroad environments. To learn more, visit www.amstedrail.com.

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