

«Turning Parts into Solutions»

- 1 Door Systems, Panels
- 2 HVAC Systems
- 3 Truck Parts/Air Bag/Suspension
- 4 Wheels & Axles
- 5 Windows
- 6 Mechanical & Electrical Coupling
- 7 Thresholds
- 8 APU/Inverter
- 9 Lights



Material Solutions

BOMBARDIER

Material Solutions

Material Solutions supports your entire fleet, ensuring you have the right parts at the right time. Supporting all equipment regardless of manufacturer, we help operators, agencies and sub-contractors keep capital equipment in revenue service while meeting the highest levels of quality and safety.

- Distribution Centers across North America
- Customized inventory management and strategic procurement programs
- Material Supply Agreements (MSA's) for material availability, consignments & safety stock
- Custom kits for scheduled maintenance and overhaul activities
- A global network of suppliers and OEM's supporting every commodity for your equipment

Let the Material Solutions team solve your most challenging parts problems

- We have Account Managers available on-site to work with your purchasing, engineering and maintenance departments
- Engineers and Project Managers source and solution product availability to support scheduled and unscheduled maintenance
- Obsolescence Management team develops solutions to support obsolete parts & systems, while anticipating and resolving future obsolescence risks in your fleet

Sub-system repair and overhaul

- Leverage our network of industry leading repair and overhaul facilities
- Our project management methodology and tools ensure your repairs are on time and to specifications

A recent example of our work

A large customer wanted to replace old and worn sliding conductor windows with new models that were safer and more reliable. Our engineering and project management team in concert with our partner glass supplier came up with a design that exceeded the requirements. Material Solutions assembled kits to retro-fit the cars in the customer's maintenance shop. The customer receives one part number, in one box just as they need it.

Our Suppliers & Partners

5S Components	Lanka Technologies
ABB	Liebherr
Advanced Structure Corp.	MSA (SA)
Amphenol	Oerlikon(Rheinmetal)
Axion	Prelco
Barry Controls/Paulstra/Hutchinson	Pro-Flex
Carbonne Lorraine	PRO-TAC
CEIT (incl.Interballast)	RAYTECH CONTROLS INC.
Cygnus	Rowe Hankins
Dimension Composite	SAS RUBBER CO.
EagleBridge Machine	Schaeffler(FAG)
Enertec Rail Equipment	Schaltbau
Faiveley	SEMEC
FCI Burndy	SKF
Fellfab	STRATO INC.
Firestone	TDG
GALCO	TMD Friction GmbH
General Cable	Transtech Innovations
Guardian Industries	Transtechnik-N.A
HBL	Turbo Power Systems
INPS	VPS Controls
KLW Wheelco	WALCO
KONI - ITT Contitech	ZF Sachs
KYB	

Other Services available through Material Solutions

ast The Bombardier Antimicrobial Surface Treatment (ast™) protects your customers, your employees and your assets. This 30 year old technology is used in places such as hospitals and pro-sports venues to limit the spread of viruses such as flu's and odor causing moulds that deteriorate vehicles and facilities. For more information and a short video on how it works please visit

www.healthytransit.com

Technology Solutions

Bombardier's Technology Solutions team helps you run a better railroad. Improve your workforce development with our eLearning solution. Support track worker safety with our Track Worker Safety technology. Reinforce maintenance efficiency with on-demand access to technical knowledge on the shop floor. Contact us to discuss the solutions we've implemented at Transit agencies throughout North America

For more information on our services please visit

www.smartrailroad.com

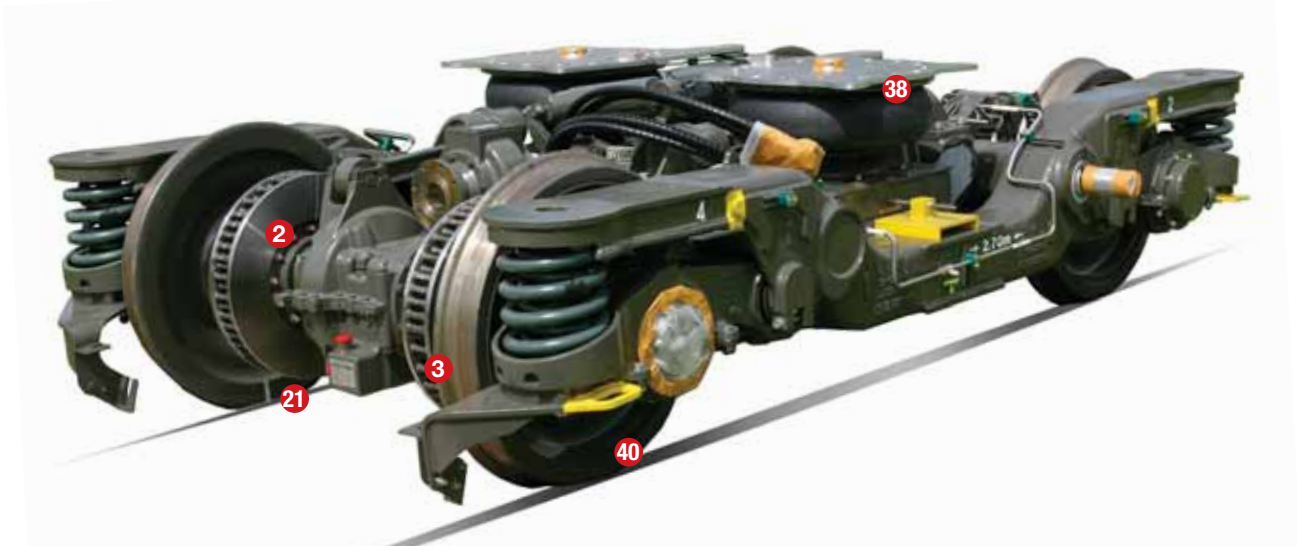
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Some of the Main Commodities we Support

- | | | |
|--------------------------------------|---------------------------------|---|
| 1 Batteries | 15 Dampers | 29 Rubber Parts |
| 2 Bearings & Bushings | 16 Decals/Signage | 30 Seats |
| 3 Brake Systems/Parts | 17 Doors Systems/Panels | 31 Semi Conductors |
| 4 Buss Bars | 18 Fabricated Parts | 32 Speed Sensors |
| 5 Cables | 19 Formed Parts | 33 Switches & Controls |
| 6 Casting | 20 Gaskets | 34 Terminals & Splices |
| 7 Circuit Breakers | 21 Gear Boxes | 35 Thresholds |
| 8 Communication-Signs Systems | 22 Harnesses | 36 Toilet Systems/Modules |
| 9 Composite Materials | 23 Hoses | 37 Traction Motors |
| 10 Connectors | 24 HVAC | 38 Truck Parts/Air Bag/Suspension/Chevrons |
| 11 Contactors | 25 Lighting | 39 Valves, Leveling Valves |
| 12 Control Boxes | 26 Luminescent Strips | 40 Wheels/Axles |
| 13 Converters/Inverters | 27 Motor Parts | 41 Windows |
| 14 Cooling Fans | 28 Propulsion Components | 42 Wraps |

Bombardier & Barry Controls...

BOMBARDIER

Teaming up for Comfort and Safety.

1 Primary Suspensions

- Conical Springs
- Chevrons
- Swing arm Bushings

2 Secondary Suspensions

- Airspring assemblies
- Bumpers

3 Traction Bar Rod Pads & Bushings

4 Equipment Suspension

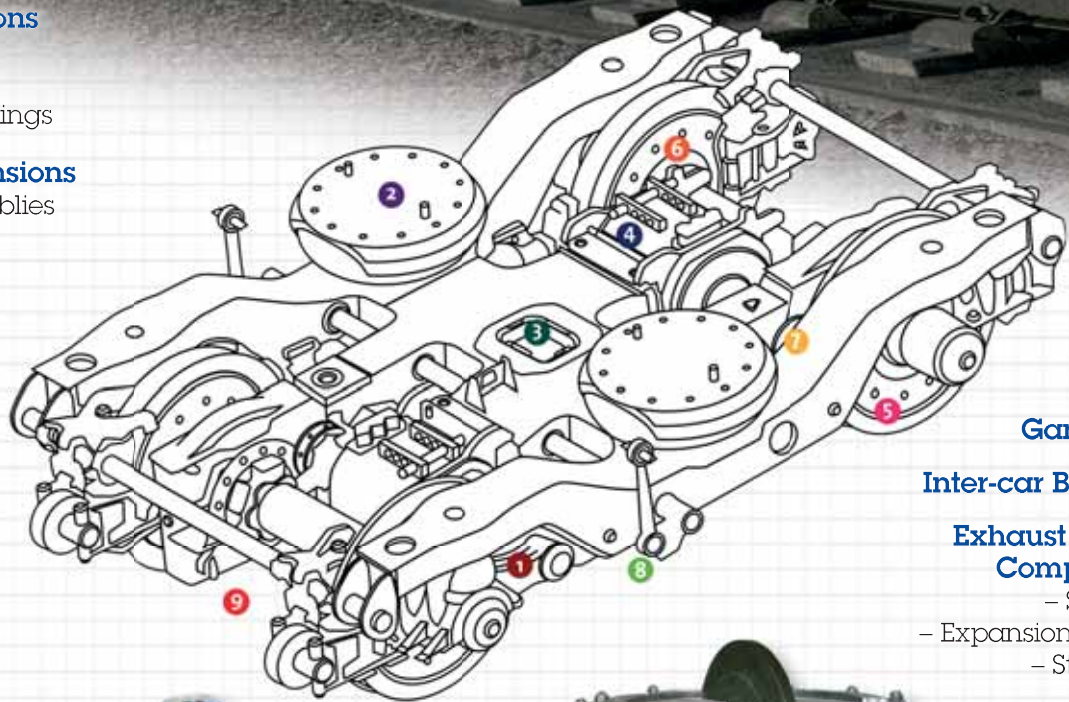
5 Elastic Wheels

6 Couplings

7 Stops

8 Anti-Roll Bar Pivots & Bushings

9 Guidance Systems



Gangways

Inter-car Bearings

Exhaust System
Components

- Silencers
- Expansion Bellows
- Stabilizers



Air Spring Assembly



Conical Spring



Guiding Rod



Guide
Wheel



Gangway

**BARRY
CONTROLS**



- Testing and Analytical Services.
- Engineering and Technical Support.
- FEA and Computerized Design Services.
- Multiple manufacturing locations in the USA.
- 60 years serving the rail industry with products used on light rail vehicles, metro transport, intercity, regional and high speed rail systems worldwide.

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