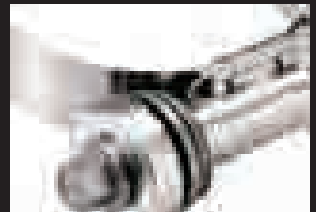
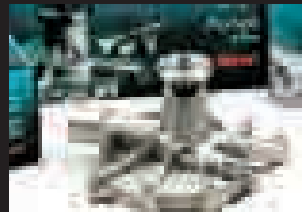
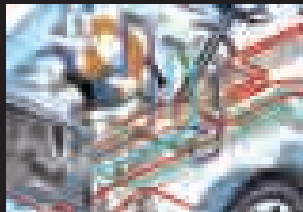




Gates Heavy-Duty Products



A **Tomkins** Company

The World's Most Trusted Name in Belts, Hose and Hydraulics.

Gates has the
PRODUCTS
to fit your
FLEET needs



Green Stripe® Fleet and Heavy-Duty Replacement Products

Gates Green Stripe® and heavy-duty products are preferred by four out of five fleets simply because they cannot afford costly downtimes. Green Stripe® products are your customers' assurance of maximum performance under the most demanding conditions, and at low cost-per mile operation.

Gates continually researches and tests new products to solve problems that arise as changes are made to enhance engine performance, creating a more hostile operating environment for belts.



Belts

EPDM Micro-V® Belts

- The quietest and most durable PK belt on the market.
- Optimum load-carrying capacity at higher tensions.
- Low stretch.
- Optimum high/low temperature resistance.
- Optimum wear and pilling resistance.
- Very high ozone resistance.
- Minimal belt slip.
- Excellent flexibility and belt stability.



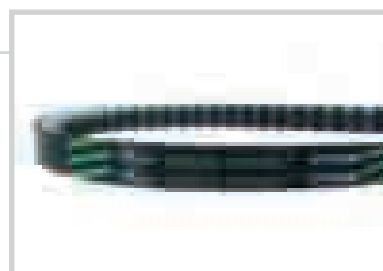
Tru-Power™ V10 & V13 Belts

- Improved stability and flexibility – suitable for smaller pulleys with small wrapping angles.
- Low stretch, maintenance-free performance.
- High precision forming/grinding.
- Made of high modulus, thermally active tensile cords.
- Molded regular notch design.
- Higher shock load resistance.
- Belt runs cooler and quieter.
- Assures exact size, precise top width, dimensional control and angle.
- Meets or exceeds JASO E108 specification.



Green Stripe® V17 Belts

- Special tensile cords which give high stretch resistance.
- Special notch design which resists cracking while providing tensile member support during operation.
- Deep notch pattern that allows greater flexibility over small diameter pulleys and helps keep the belt cool.
- Oil and heat-resistant construction throughout.



Ex-Power™ Belts

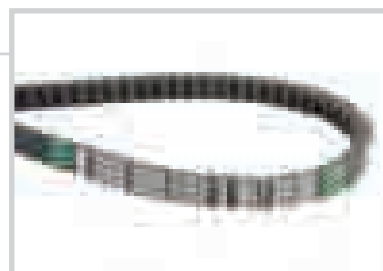
- Use EPDM rubber compound.
- Optimum high temperature resistance.
- Increase power transmission.
- Suitable for higher load / severe applications.



Green Stripe® Truck and Bus Series V-Belts

Specially designed for heavy-duty truck, bus and off-road equipment applications. Absorbs normal shock loads without damage to belt.

- Special tensile cords give high stretch resistance.
- Special notch design resists cracking while providing tensile member support during operation.
- Oil and heat-resistant construction throughout.
- Meets SAE J636b and SAE J637 specifications.



Green Stripe® Powerband® Belts

Designed for problem, heavy-duty, heavily vibrating automotive applications requiring belt sets. Tie-band feature joining belts together ensures stability lacking in ordinary belt sets.

- Even load distribution between strands provides better shock load absorption.
- Belt can't turn over or slip off drive.
- Unique tensile cord design gives belt extra strength, added flexibility and shock-load resistance.
- Molded notches reduce bending stress, especially on small diameter pulleys. Also helps dissipate heat.
- Meets or exceeds SAE J1459 specifications.



Hoses

Heavy-Duty Green Stripe® Air Brake Hose*

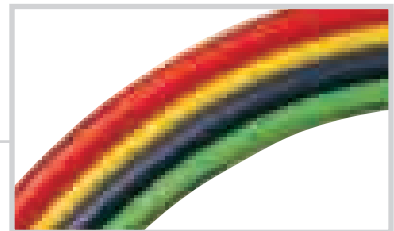
Can be used as flexible connector between frame and axle.

- Compatible with standard air brake couplings.
- Neoprene construction is oil resistant.
- Two-braid reinforced construction with smooth cover.
- Exceeds SAE J1402 and Bendix specifications. Complies with DOT FMVSS 106 requirements.



Nylon Air Brake Tubing

Recommended for truck, bus and mobile air brake, and service lines where heat and battery acids are not present. Conforms to SAE J844 specifications. Meets DOT FMVSS 106 requirements.



Air Brake Hose Assemblies*

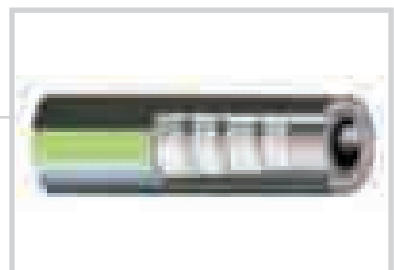
- Meet the rigorous demands of the fleet and heavy-duty market.
- Extremely flexible and kink resistant.
- Two spiral construction meets SAE J1402 specifications.
- Complies with DOT FMVSS 106 requirements.
- Couplings meet SAE and DOT minimum pull-off requirements.
- High quality brass male pipe fitting on one end, female air brake swivel with male pipe adapter on other end.



Green Stripe® Vacuum Brake Hose 69W

Extra heavy-duty hose designed to fit most air brake systems on trucks, trailers and other heavy equipment.

- Wrapped hose construction with multiple plies of rubber-impregnated fabric.
- Resists collapsing or deforming even under high vacuum at elevated temperatures.
- Rated at 30 In./Hg.
- Exceeds SAE J1403, Type H. Complies with DOT FMVSS 106VH.



Green Stripe® Straight Coolant Hose

Designed for demanding heavy-duty coolant/air applications.

- Two-ply bias fabric construction to maximize flexibility and strength.
- Resists “cold water leaks” thanks to advanced EPDM tube and cover that stay soft and pliable, even under adverse operating conditions.
- Engineered to resist electrochemical degradation – the leading cause of hose failure.
- Exceeds SAE 20R1 Type EC (Class D-1 Tube, and cover, Standard Wall).

Note: Green Stripe® 4-Ply Coolant Hose is also available



Green Stripe® Heater Hose

Heavy-duty construction assures dependable operation in truck, bus and off-road equipment heater systems.

- Advanced EPDM tube, cover and reinforcement withstand high under-hood and coolant temperatures. Designed for extended use without cracking or hardening.
- Engineered to resist electrochemical degradation – the leading cause of hose failure.
- Cover is abrasion resistant.
- Green Stripe construction provides best cost-per-mile economics.
- Exceeds SAE 20R1 Type EC, Standard Wall Class D-7.



Safety Stripe® II Fuel Line/PCV/Evaporative Emission Control Hose

Multi-purpose hose for use on fuel lines, PCV and EEC systems, and for fuel return hose connections on diesel fuel injections systems. Approved for use with leaded and unleaded gasoline, diesel and gasoline blends of ethanol (E85), methanol and ethers.

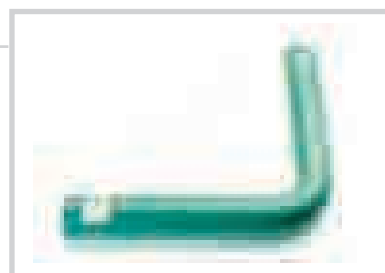
- Spiral reinforced construction.
- Nitrile tube and hypalon cover.
- Oil resistant cover resists the effects of high heat and ozone found in engine compartments.
- Meets SAE 30R6 and 30R7.



Extra Service 90° Curved Silicone Hose

Designed for heavy-duty range of cooling system components. This high temperature resistant curved hose functions perfectly as radiator, heater or other coolant transfer hose in poorly ventilated conditions.

- Outstanding performance in high-temperature environments.
- High durability and low maintenance.
- Made of a soft and flexible material, which exhibits excellent resistance to compression set.
- Easy to cut to size.
- Meets SAE 20R3 HT, Class A, and SAE 20R4 HT, Class A.



Green Stripe® Ring Retained Turbocharger Hose

Made for turbocharged Class 8 and heavy-duty diesel engines. Multi-hump design isolates vibration and absorbs rotational shock. Depending on applications, hose is engineered with three or four rings to maintain design integrity.

- Four-layer silicone construction with aramid fiber reinforcement for maximum durability.
- Meets or exceeds OEM specifications.



Defroster/Air Intake Hose

For defrosters, air ducts, air intakes, under-hood applications and other low pressure, low suction applications.

- Flexible, heat-resistant materials and helical steel wire reinforced.
- Easily cut and formed to desired shape and length.
- Tear, abrasion and ozone resistant.
- Complies with DOT FMVSS 302.



Clamps

Ideal® Flex Gear® Clamps

Flex-Gear clamps adjust with the hose and fitting to maintain constant tension on the connection, eliminating leak paths. Excellent choice for fluctuating temperature application and thermal compensation. The larger, heavier-gauge, precision-formed springs provide higher rates of band tension and adjustment for a more dependable seal. Inner liner protects against shearing of the hose surfaces. Provides a uniform 360° seal. Reusable.



Ideal® Standard T-Bolt Clamps

Heavy duty T-bolt clamps provide uniform sealing pressure for a positive, reliable seal. Specifically designed for use in high vibration and large diameter applications. Typical applications include truck air intake systems, cold side charge air systems, off-road equipment and industrial machinery.



Tensioners

DriveAlign™ Heavy-Duty Automatic Belt Tensioners

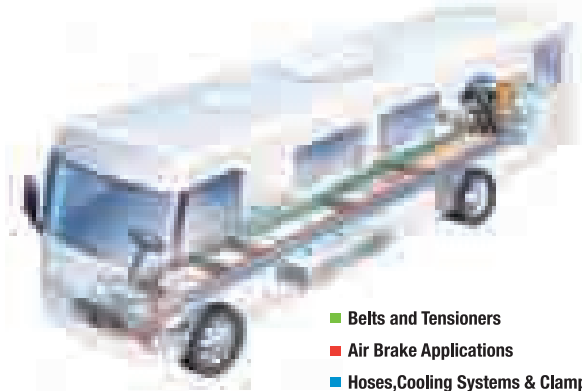
The longest lasting belt tensioners in the industry. Engineered to exceed demanding OEM requirements. In laboratory tests, under extreme peak-to-peak vibration and contamination tests, DriveAlign heavy-duty tensioners lasted up to three times longer than competitive aftermarket tensioners.



Water Pumps

- Original Equipment Manufacturer materials and design.
- Pump cavity and impeller match OEM performance for proper coolant flow.
- Unitized bearings and seals give long service life.
- Precision ground surfaces for proper fit and sealing.
- New premium components.
- Limited lifetime warranty.





- Belts and Tensioners
- Air Brake Applications
- Hoses, Cooling Systems & Clamps
- Air Intake and Turbocharger Hoses
- Fuel Line Applications (Diesel/Bio-Diesel)

Gates offers maximum coverage for both popular and problem heavy-duty applications.

Our current line of heavy-duty products:

Belts and Tensioners

EPDM Micro-V® Belts
 Tru-Power™ V10 & V13 Belts
 Green Stripe® V17 Belts
 Ex-Power™ Belts
 Green Stripe® Truck & Bus Series V-Belts
 Green Stripe® Powerband® Belts
 DriveAlign™ Heavy Duty Automatic Belt Tensioners

Air Brake Applications

Nylon Air Brake Tubing
 Heavy-Duty Green Stripe® Air Brake Hose*
 Air Brake Hose Assemblies*
 Green Stripe® Vacuum Brake Hose 69W

Hoses, Cooling Systems & Clamps

Coolant Hose
 Green Stripe® Hose (molded and straight)
 Extra Service 90° Curved Silicone Hose
 Heater Hose
 Green Stripe® Heater Hose
 Cooling Systems Components
 Water Pumps
 Hose Clamps
 Heavy Duty Ideal® Flex Gear® Constant Tension Clamps
 Ideal® Standard T-Bolt Clamps

Air Intake and Turbocharger Hose

Defroster/Air Intake Hose
 Green Stripe® Ring Retained Turbocharger Hose

Fuel Line Applications (Diesel/Bio-Diesel)

Safety Stripe® II Fuel Line/PCV/Evaporative Emission Control Hose

Gates Unitta Asia Company (Osaka Headquarters)

9F, 4-26-4, Sakuragawa 4-Chome, Naniwa-ku,
 Osaka 556-0022, Japan
 Tel: +81-6-6563-1266 Fax: +81-6-6563-1267

Gates Unitta Asia Trading Company Pte Ltd (Singapore)

No.1 Changi South Street 3
 Singapore 486477
 Tel: +65-6347-1881 Fax: +65-6545-8832

Gates Unitta Asia Trading Company Pte Ltd (Taiwan)

Chia Hsin Building, 10th FL, Room no.1005,
 96, Chung Shan North Road, Section 2, Taipei, Taiwan
 Tel: +886-2-2581-6296 Fax: +886-2-2563-4900

Gates Unitta Asia Trading Company Pte Ltd (Hong Kong)

1201 Chinachem Hollywood Center,
 1-13 Hollywood Road, Central, Hong Kong
 Tel: +852-2525-1306 Fax: +852-2810-4289

Gates Unitta Asia Trading Company Pte Ltd (Malaysia)

Level 36, Menara Citibank, 165 Jalan Ampang,
 50450 Kuala Lumpur, Malaysia
 Tel: +603-2169-7701 Fax: +603-2169-7703

Gates Unitta Korea Co., Ltd

1006-71, Doksan-dong, Geumchon-gu, Seoul, 153-829, Korea
 Tel : 82-2-2107-2355 Fax : 82-2-802-1730

Gates Unitta (Thailand) Company Ltd (Bangkok Office)

36th Flr, CRC Tower, All Seasons Place,
 87/2 Wireless Road, Lumpini,
 Phatumwan Bangkok 10330, Thailand.
 Tel: +66-2625-3049 to 51 Fax: +66-2625-3145

Gates Unitta (Thailand) Company Ltd (Rayong)

Eastern Seaboard Ind. Estate,
 64/86 Moo 4, T.Pluakdang, A.Pluakdang
 Rayong 21140, Thailand.
 Tel: +66-38-954-361 Fax: +66-38-954-362

Gates Unitta Asia Trading Company Pte Ltd (Indonesia)

Ariobimo Sentral 4th Floor, JL. H.R. Rasuna Said Kav. X-2
 No.5, Jakarta 12950, Indonesia
 Tel: +62-21-527-0709 Fax: +62-21-252-5760

Gates Unitta India Company Pvt Ltd

F-19, SIPCOT Industrial Area, Pondur-A,
 Sriprembudur, Kanchipuram District,
 Tamil Nadu, India 602-105
 Tel: +91-44-4711-5100 Fax: +91-44-4711-5200

Gates Unitta Asia Power Transmission (Suzhou) Ltd

No.15, Hai Tang Street,
 China-Singapore Suzhou Industrial Park
 Suzhou 215021, China
 Tel: +86-512-6761-9633 Fax: +86-512-6761-7184

