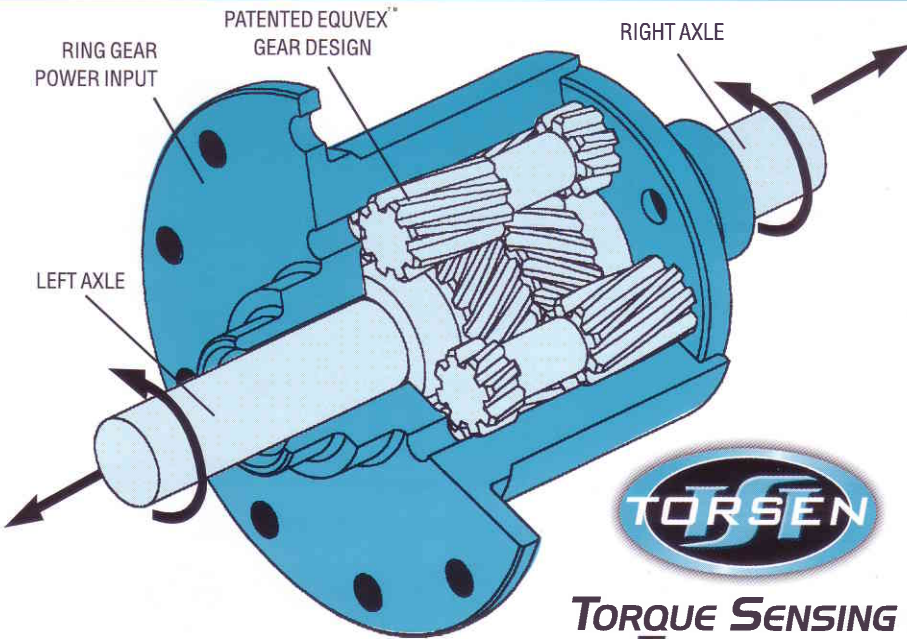


TORSEN

T-2 Torque Sensing DIFFERENTIAL



Type 2 Traction Differential

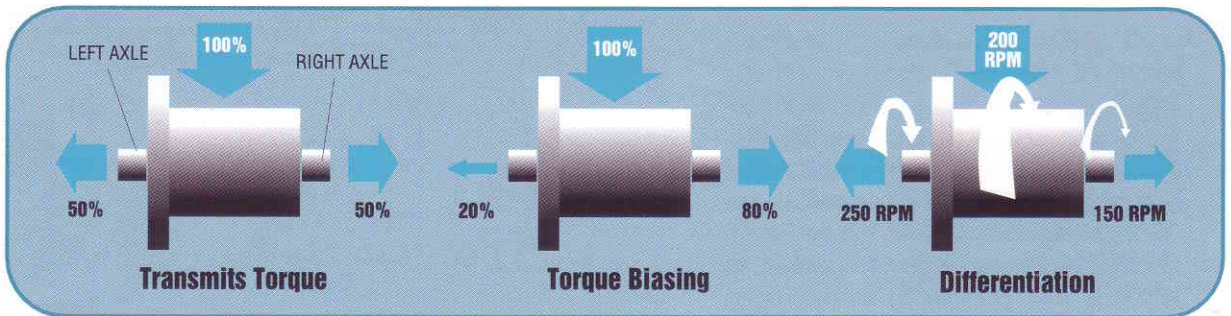
ZEXEL TORSEN's T-2 Traction Differentials are ideally suited for front wheel, center box or C-clip rear axle applications. The patented EQUVEX* parallel axis gear configuration provides better management of gear mesh separation forces, resulting in low backlash and quiet operation. In addition, long side gear lengths permit more flexibility in axle spline positions.

Unlike conventional speed-sensing, limited-slip differentials, TORSEN T-2 is a full time torque-sensing, torque-biasing system. Torque and differentiation are continuously managed between the two axles and biased instantaneously according to variable road conditions. There are no clutches or preload to worry about, in fact, TORSEN T-2's patented parallel gearing system is designed to perform for the life of the vehicle.

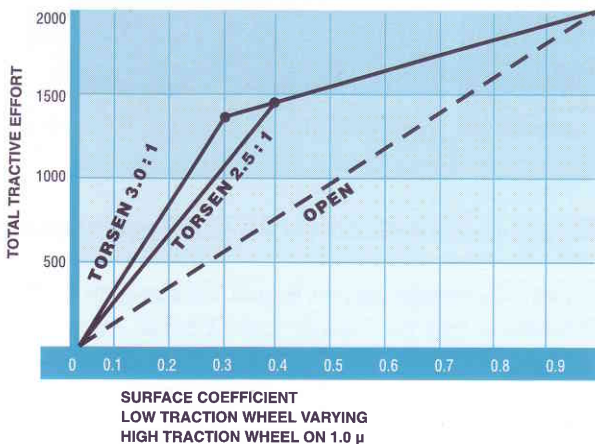
TORSEN T-2 Traction Differentials are available with a biasing capability range of 1.4: 1 to 3.0:1 and can be designed to fit most standard axles with no modifications required. In addition, they are fully compatible with ABS and Traction Control Systems, providing the ultimate in traction management systems.

Multifunction Capabilities

The TORSEN T-2, is an advanced multi-function traction system providing continuous, uninterrupted torque output, torque biasing and differentiation in one integral unit. It is always active, responding instantly to torque feedback from variable driving conditions.



Typical Split Coefficient Performance Curve

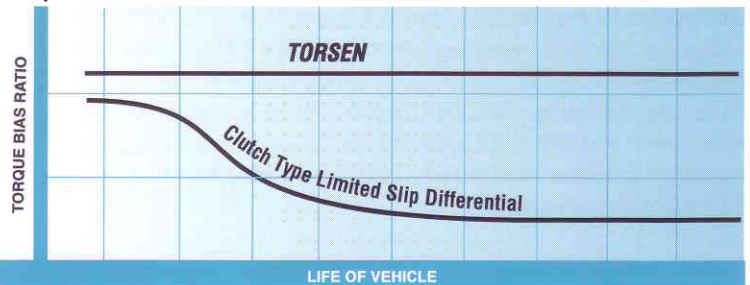


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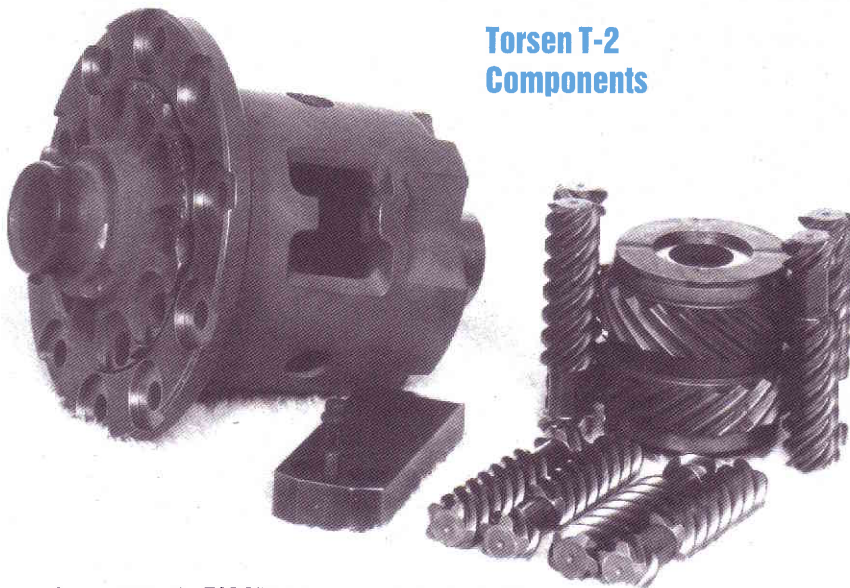
Enhanced Performance

The TORSEN T-2's capability to immediately respond to variable driving conditions not only provides better traction, it also enhances the general performance of a vehicle. There is a marked improvement in total tractive effort as compared to open or conventional limited-slip differential equipped vehicles. In addition, the exceptional efficiency of the T-2 allows the engine's torque output to be used more effectively, delivering more horsepower to the road. The combined improvement in traction and the augmented power results in a nimble yet sure-footed vehicle that provides better handling, increased acceleration and an improved margin of safety.

TORSEN Durability and Torque Bias Stability Compared to Standard Differentials

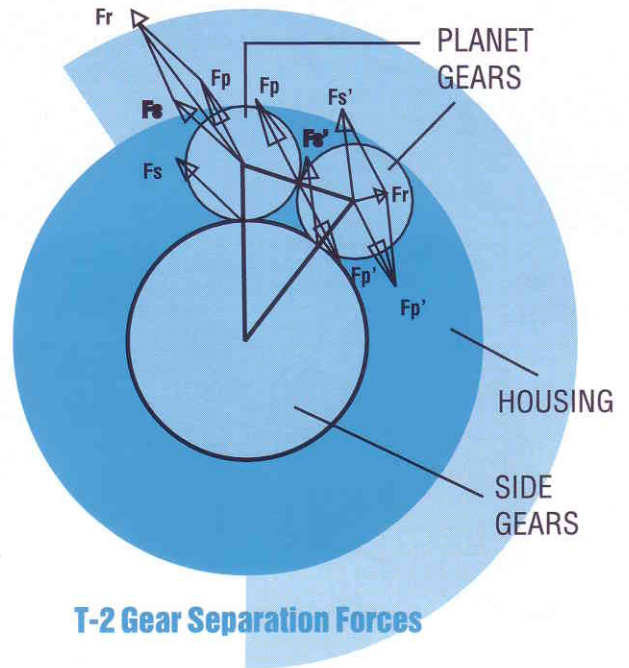


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Torsen T-2 Components

An example of a TORSEN T-2, compatible with C-Clip rear axle.

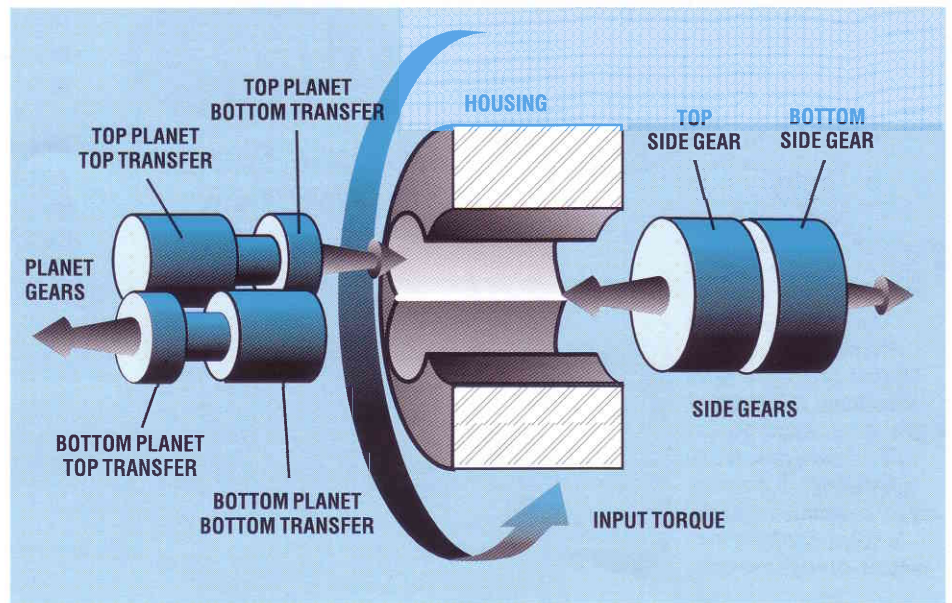


T-2 Gear Separation Forces

Torque Bias (Friction Interface Surfaces)

- Side Gear Thrust to Housing
- Planet Gear Separation to Housing
- Planet Gear Thrust to Housing Helical Tooth Mesh
- Side Gear to Side Gear

Designed for today's modern front wheel drive vehicles, the TORSEN T-2 Traction Differential is also suitable for C-clip rear axles. It features lower backlash for quiet operation and longer durability. Other TORSEN T-2 advantages include straddle transfer gear design allowing better management of gear mesh separation forces and long side gear lengths for flexibility in axle spline positions. In addition, the number of planet gears can be increased or decreased, based on system strength requirements.



TORSEN T-2 Features

ANTILOCK BRAKE SYSTEM COMPATIBLE	TRACTION CONTROL SYSTEMS COMPATIBLE	CONSTANT TORQUE BIAS STABILITY	LIFETIME BIAS RETENTION	C-CLIP REAR AXLE COMPATIBLE	AUTOMATIC TRANSMISSION FLUID COMPATIBLE	NO MAINTENANCE
				WORKS AT ALL VEHICLE SPEEDS		MINI TIRE COMPATIBLE

TORSEN T-2 Bias Ratio

DRIVE TYPE	FRONT WHEEL	CENTER BOX	REAR WHEEL
TBR	1.4:1 -- 2.5:1	1.5:1 -- 2.5:1	1.0:1 -- 3.0:1

Designed for Front, Center Drives and C-Clip Axles

The TORSEN T-2 Traction Differential provides efficient torque biasing and differentiation for improved performance. It is specifically designed for front wheel drive applications and C-clip type rear axles. The TORSEN T-2 is compatible with automatic transmission fluids and especially well suited for front wheel drive applications where the final drive is an integral part of the transmission. With the TORSEN T-2, center drive designs can provide optimal traction control and deliver more power to the wheels, resulting in improved vehicle handling and performance.

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TORSEN T-2 is Available for All TBR Requirements

ZEXEL TORSEN will custom design, engineer, test and manufacture the TORSEN T-2 Traction Differential to meet your specific torque bias ratio requirements. TORSEN T-2 technology is a perfect match for applications with ABS or Traction Control Systems providing the ultimate in traction control platform for your vehicle.

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ZEXEL TORSEN INC.
2 Jetview Drive
Rochester, New York 14624
(716) 464-5000
Fax: (716) 328-5477