

The JASPER 4-Speed

RACE PROVEN TO WIN.

*The Transmission of 2015 NASCAR®
Sprint Cup Series Champion Kyle Busch!*

Single and Three Rail Versions

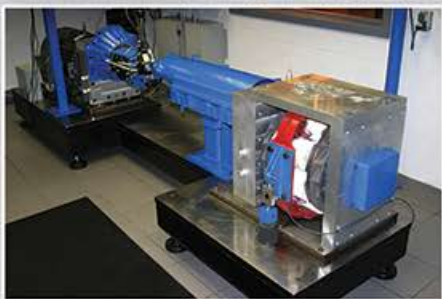
The JASPER 4-Speed (along with the JASPER Differential) from Jasper Engines and Transmissions has garnered 108 NASCAR® Sprint Cup Series wins and 378 Top 5 finishes since 2006. The JASPER 4-Speed has supplied some of the top race teams with wins on all track configurations - Super Speedways, Road Courses and Short Tracks.



RANKIN
ALIGN DESIGN

Gleason®

**Dynamometer
Tested!**



Advantages of the JASPER Single Rail unit include:

- All external shift linkage except for the main shift rail is enclosed
- Less weight than the Three Rail unit
- Neutral anti-lockout mechanism
- Less shifter friction
- Less moving parts in the shifter assembly

Low inertia gear sets available.

JASPER
Transmissions

from

JASPER GO!
ENGINES & TRANSMISSIONS
Racing

NASCAR® is a registered trademark of the National Association for Stock Car Auto Racing, Inc.

Contact Harrah Engineering, Ltd. at 800-476-8270 ext. 101 or via cell phone at 336-253-3963

The JASPER 4-Speed

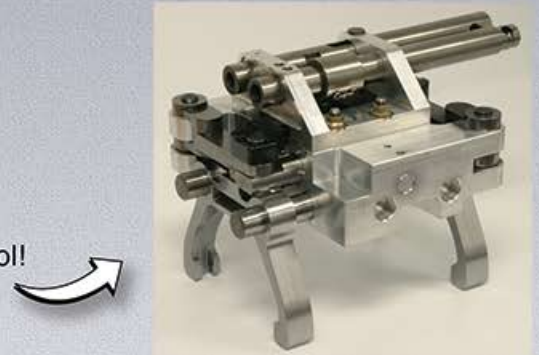
**Built and Supported by the Largest
Drivetrain Company in the World**

Exclusive Patented ARC™ Input Shaft Design

- Complete deflection isolation of spinning transmission parts to clutch/engine components
- Input design allows for up to .98 degrees of dynamic deflection between the engine/clutch and transmission axis
- Entirely independently aligned rotating assembly allows for nearly 99.99% transmission efficiency under dynamic loading
- Input Drive to Output Shaft retains designed axis centerline to within 0.0015" under race conditions
- Sliding Clutches to Shift Control Assembly retains perfect alignment for reduced wear and more precise shifts
- Gear designs require much less "crown", which eliminates gear walk and reduces localized single point heating of gear teeth
- Edge loading of gears is eliminated to improve reliability, performance and longevity
- Center Distance of Gearing is precisely maintained throughout operating conditions
- Frequency transfer from engine to drivetrain and drivetrain to engine are greatly reduced
- The JASPER Transmission is the only transmission in the NASCAR® Series that has a floating shaft.

Exclusive Shift Control

- Design allows for reduced ratio for detent and interlocking components to greatly improve shift reliability and quicker shifting
- Main case rigidity is greatly improved without sacrificing weight
- Shifter housing can be easily disassembled for service with only one tool!
- Exclusive Shift Fork Design results in zero drag of sliding clutches



Other Features

- All gears and shafts manufactured for JASPER by **Gleason®**
- Lowest overall profile for easy installation
- Case designed for stand-alone mounting — no transmission mount needed with proper engine support
- All mating surfaces o-ringed for quick assembly and disassembly
- Completely internal oil recirculation pump system available for road racing
- Clutch tooth design provides the lowest FPM engagement impacting, while retaining the most contact surface
- All parts receive two complete independent CMM Quality Control Inspections
- Complete and serviced units receive an extensive race-loaded dynamometer process with reports

**Contact Harrah Engineering, Ltd. at 800-476-8270 ext. 101
or via cell phone at 336-253-3963**



from

