ULTRA ROD

Applying

New Technology

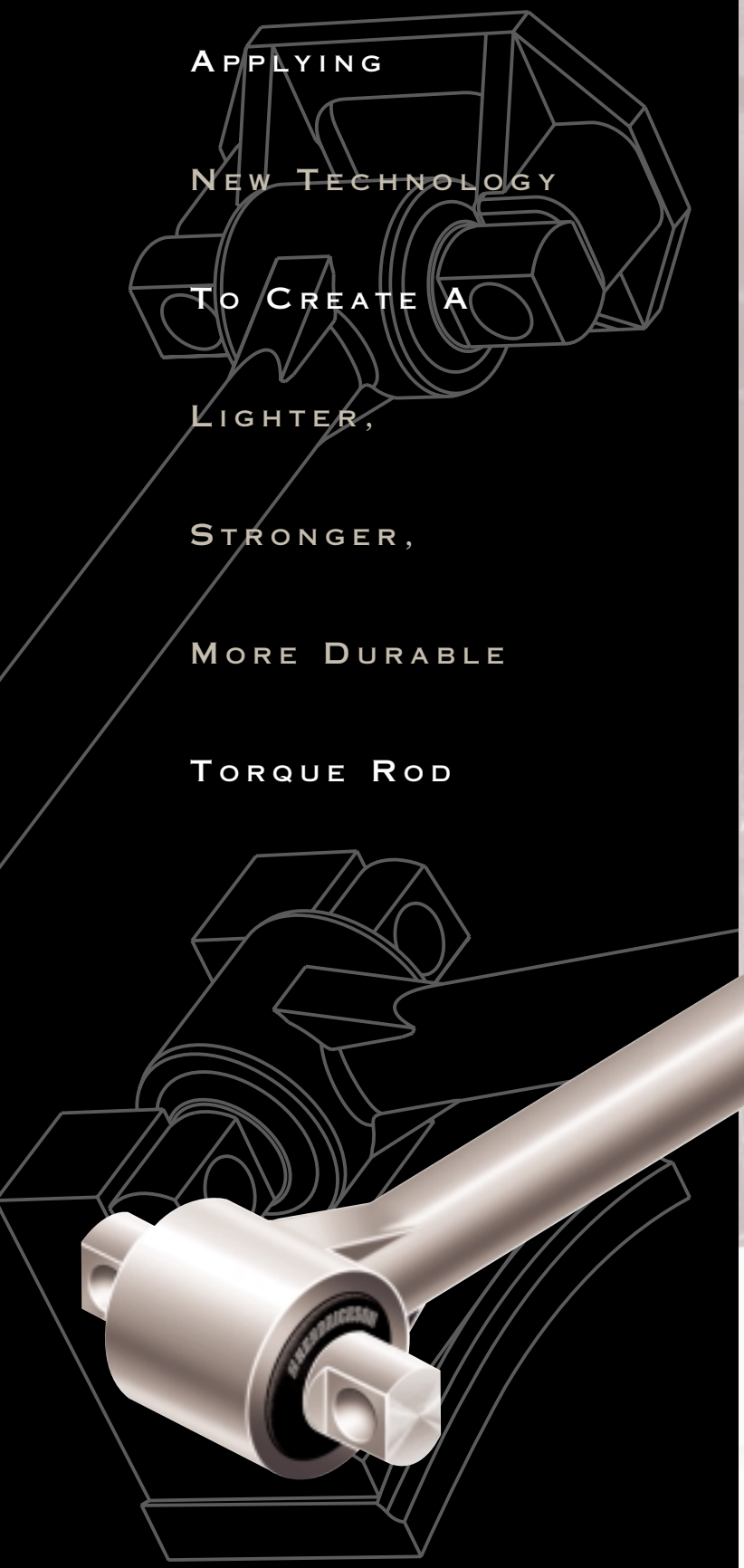
To Create A

Lighter,

Stronger,

More Durable

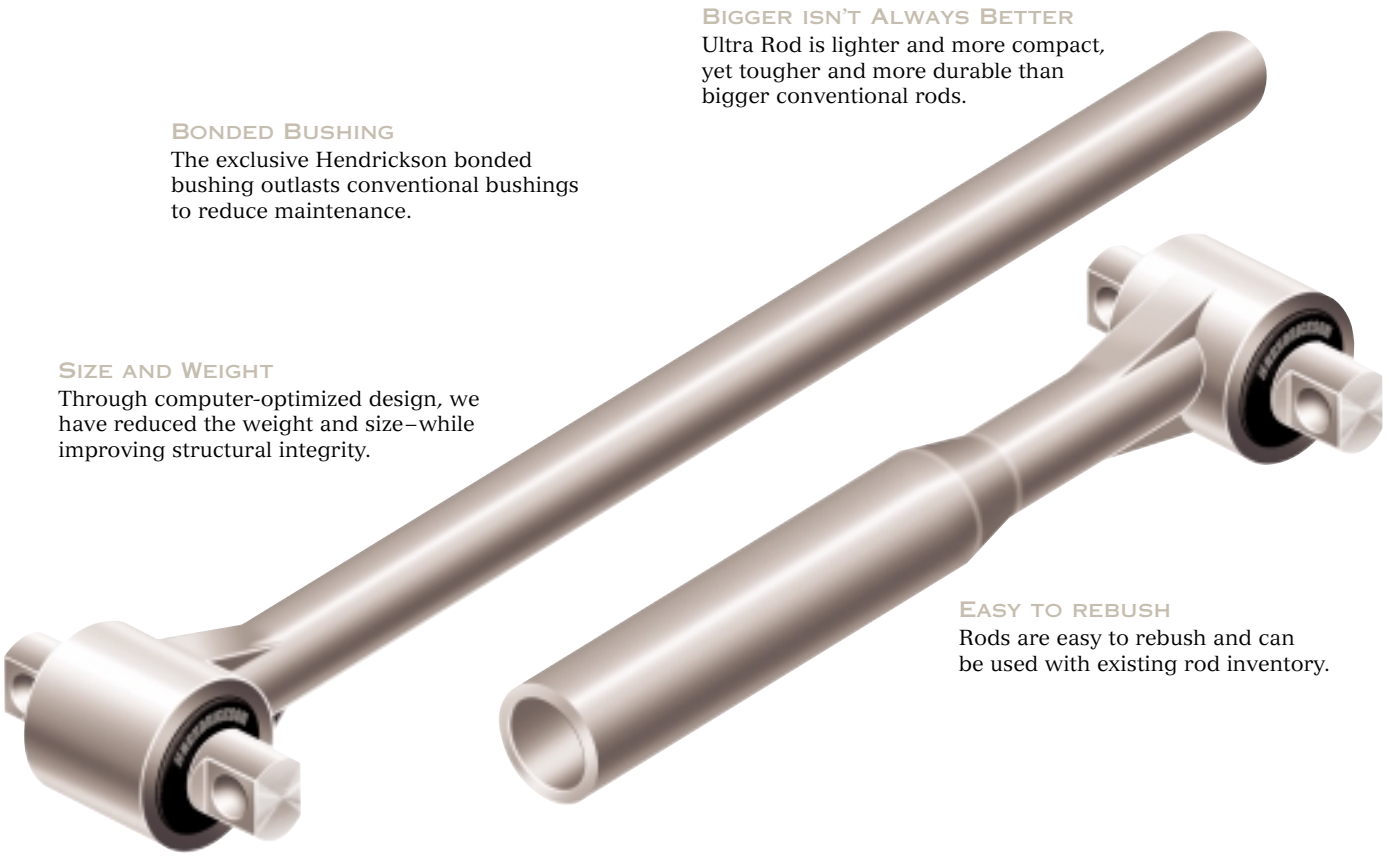
Torque Rod



For The Road Ahead

HENDRICKSON

Ultra Rod.™ A major advance in torque rod technology.



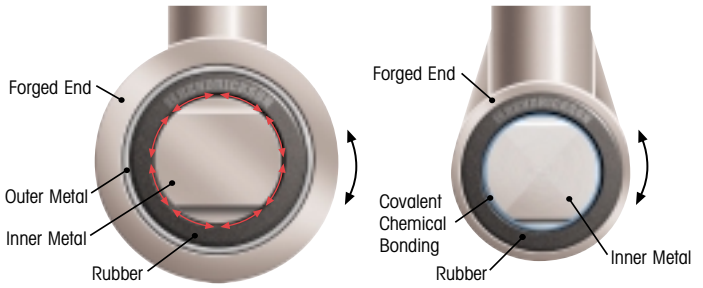
Hendrickson redefines torque rod design.

Hendrickson used the latest technologies to make the biggest torque rod design improvements in decades: the new Ultra Rod.™

Ultra Rod's computer-optimized structural design makes it lighter and more compact than conventional torque rods. Its unique bonded bushing greatly increases service life. And, by eliminating the outer metal sleeve, Hendrickson has made rebushing faster and easier.

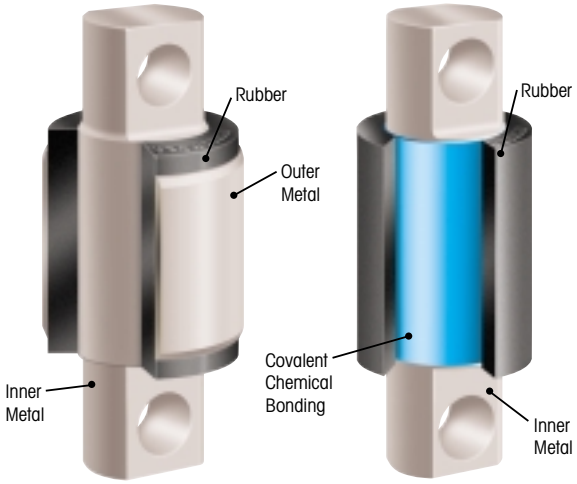
Because Ultra Rod is from Hendrickson, it's a design you can trust. With more than 70 years of suspension experience, and our advanced core design competencies, we have all the tools it takes to bring a better torque rod to market.

Bonding makes a better bushing. In a conventional torque rod bushing, suspension stresses cause the rubber bushing to rotate against the inner metal, creating friction and heat that contribute to the rubber deterioration. This impacts vehicle stability and ride, puts strains on other suspension components, and can create misalignment.



On conventional bushings shear forces cause the unsecured rubber to slip against the inner metal, generating friction and heat that degrades the rubber.

With the bonded bushing the molecular bond is stronger than the rubber itself–so there's no chance of slippage, friction, heat or premature deterioration.



Conventional bushings (left) use outer metal sleeves to compress rubber bushings onto the inner metal. Ultra Rod's bonded bushing molecularly bonds rubber bushing to metal shaft–eliminating the outer metal.

Hendrickson's new bonded bushing uses chemical bonding to interlink the molecules of the inner metal and the rubber bushing to eliminate movement. By eliminating friction-generated heat, the bonded bushing stays intact longer and suspension integrity is maximized. And because the bonded bushing has no outer metal collar, rebushing is faster and easier, with no special tools required.

Hendrickson engineers used computerized finite element analysis to reduce material in low stress areas, while strengthening critical high stress areas. The result is a torque rod that's lighter and more compact than the bigger, heavier rods it replaces.

Structural integrity is also improved. With Ultra Rod, rod ends are integrally forged with the shaft. On the two piece coupling ends, the connection tube is forged out of the shaft, eliminating the assembly weld.

Available in both fixed lengths and two piece versions, Ultra Rod shaft diameters are the same as the previous two piece rods, allowing existing rod inventory to be used with the new design.

FOR EVERY APPLICATION AND EVERY LOAD.

ULTRA ROD TWO PIECE COMBINATIONS

TUBE END	**SPACER END 27"	35"	
66610-000H	66661-000H	66660-000H	Straddle
66610-000H	66691-000H	66690-000H	Straddle— Taper Stud (Length $1^{7}/_{8}$"–Mack Only)
66610-000H	66671-000H	66670-000H	Straddle— Taper Stud (Length 2")
66620-000H	66671-000H	66670-000H	Taper Stud— (Length 2") Can Install In Up Or Down Position
66769-000H	66691-000H	66690-000H	(Length $1^{7}/_{8}$") Mack Only
*66640-000H	66701-000H	66700-000H	For Navistar Only: Navistar Straddle—Inner Sleeve
66610-000H	66701-000H	66700-000H	Standard Straddle—Inner Sleeve
66650-000H	66701-000H	66700-000H	Inner Sleeve—Inner Sleeve

NOTE: * 66640-000H has offset holes and is not interchangeable with 66610-000H.
** Spacer Ends required for assemblies up to 27" and 35" centers.

REPLACEMENT CARTRIDGES FOR ULTRA ROD TWO PIECE TORQUE RODS

STRADDLE	TAPER	THRU BOLT
47691-000	*2" Stud: 64809-000H	Inside Dimension $1^{1}/_{8}$" — Navistar Inner Sleeve: 65477-000H
Navistar Straddle: 66734-000H (Offset Pin)	*$1^{7}/_{8}$" Mack Stud: 66735-000H	

*Taper Stud Length

HENDRICKSON®

800 South Frontage Road
Woodridge, IL 60517-4904 USA
630.910.2800 Fax 630.910.2899
www.hendrickson-intl.com

No. 45745-146 10M-10-99 Printed in United States of America.