

Dana® Spicer® DS404 Tandem Axle

# Dare to Compare 40,000 lb. Tandem Axles:

*Dana® Spicer® vs. Meritor®*



**SPICER®**

Drivetrain Products



Dana® Spicer® DS404 vs. Meritor® MT40-14x

# Dana® Spicer® DS404 Tandem Axle

Dependable and durable, Spicer 40,000 lb. tandem axles have billions of miles of proven performance and give you what you want -- *More time on the road.*

Provides consistent protection against impact and spin-out events

Industry proven performance & reliability

Tandem Axle Features	Dana® Spicer® DS404	Meritor® *MT40-14x	Comments
"Hypoid" Gearing	✓ Strong 15.4" [391mm] Diameter "Hypoid" Gearing	15.3" [389mm] Diameter with Mixed Amboid & Hypoid Design Depending on Ratio	DS404 Provides Same Fit-up for Brackets and Inter-axle for ALL Ratios.
Preferred Ratio Offering	✓ 18 Ratios from 2.64-6.50 Including New 3.42	18 Ratios from 2.47-7.17	Most Popular Ratios Available
Patented No-Maintenance Axle Housing Breather	✓ Unrestricted Air-flow Design Eliminates Clogging	New Vertical Mount Hose and Internal Spring	Dana Patented Breather Proven in Over 4 Million Axles
Lightweight Iron Carrier Design (Includes Axle Shafts)	✓ Light Weight Tandem at 1239 lbs.	Weight Not Published but Estimated at 1259 lbs.	DS404 is Estimated to be 20 Pounds Lighter
Thick & Robust Carrier to Housing Joint	✓ Premium Attachment System for Better Retention Under Load	Standard Bolted Joint	DS404 Design Protects Against Leaks Better Than Thin Flange Bolted Designs
Exclusive Micro-Lip™ Seal and Slinger System	✓ Keeps Lube In and Contamination Out in Forward and Reverse Operation	Uni-directional, Unitised and Loose Sleeve Seal Designs	DS404 uses Bi-directional Seal Design to Improve Performance
16 Bolt Rigid Ring Gear Mounting (16 mm diameter)	✓ High Clamp Load for Reliable Performance	12 Bolts (16mm)	DS404 has High Clampload with 25% More Fasteners
"Straddle-Mount" 3 Bearing Pinion Support System	✓ Less Deflection - Increased Pinion Gear and Bearing System Life	2 Bearings "Overhung" Design	DS404 uses Premium Bearings and 33% More Bearings Per Pinion
Wide Helical Gear with 2 Bronze Shaft Bushings	✓ Increased Strength with Less Wear for Longer Life	Uses Needle Rollers in Helical Gear	DS404 Bushings Have Greater Surface Contact Area Under Load
Patented "Wheel-Diff" Lube System	✓ Protects Against Wheel Spin-Out	Splash Only	DS404 has Forced Lube Flow to the Wheel Differential
Patented Power Divider Unit "Flow-Thru" Lube System	✓ Forced Lube System (Std.) That Protects Against IAD Spin-out	Splash Only with Lube Reservoir	DS404 has Forced Lube Flow to the Inter-axle Differential
Dana Spicer Service and Support	✓ An Experienced and Professional Team Dedicated to Keeping Your Business Moving Forward	No	Dana Spicer Provides Broad Professional Customer Support Before, During and After the Sale
Fast Ratio Offering for Low RPM Engine Operation at Higher Speeds	2.64:1 Ratio	✓ 2.47:1 Ratio	2.64 Ratio is Not Fully Proven to Achieve Long-term Drivetrain Reliability & Performance
Minimize Joint Working Angles in Problematic Suspensions	Standard Configuration for Most Air-Ride Suspensions	✓ Amboid Design can Reduce Inter-Axle Driveline Angularity for Certain Ratios Only	Dana Offers Optional DST40 Tandem to Reduce Driveline Angles

\* Based on May 2010 Available Information per SP-0907 10-08 & SP-1084 3-10

Learn more about Dana® Spicer® 40,000 lb. tandem axle solutions at [www.dana.com](http://www.dana.com).

# Dana® Spicer® DS404 Tandem Axle

The Dana® Spicer® DS404 tandem axle offers the best value available. In addition to the quality construction and rugged durability you've come to expect from Dana, the DS404 offers many additional value-added benefits.

Offers premium Carrier to Housing attachment system for improved robustness under load

Increased strength for less wear and longer life

Premium road-tested features for trusted long haul reliability

Tandem Axle Features	Dana® Spicer® DS404	Meritor®*MT40-14x	Comments
Available Options:			
500,000 Miles - No Initial Drain	✓ First with Spicer Lube Approval	With Roadranger Lube	DS404 was Developed with Spicer Approved Lubes
High Efficiency Lube Pump	✓ Patented On-Demand Pump Saves Fuel	Old Pump Design - Always Pumping	DS404 Avoids Additional Heat or Horsepower Loss by Running Continuously
Wheel Differential Lock With Large Clutch & Curvic Teeth	✓ Maximum Traction & Durability in Adverse Driving Conditions	Forward Axle Only	DS404 Diff-Lock Option is Available for Both Axles
LMS Hub System	✓ Eliminates Bearing Adjustment & Extends Wheel-end Life	Not Published	Dana LMS Hubs are Designed to Work with Standard 'R' - Series Spindles
Housings	Wide-Track Axles and Various Wall Thicknesses Available	Wide-Track Axles and Various Wall Thicknesses Available	
Lightweight Aluminum Carrier	Not Available - Light-Weight Iron Carrier Only	Not Available - Standard Iron Carrier Only	Use Dana S23-170D & S21-060B for 400 Pound Savings in 6x2 Vehicle Configuration.

\* Based on May 2010 Available Information per SP-0907 10-08 & SP-1084 3-10

The DS404 is backed by an experienced industry team.  
**Dana® Spicer® Service & Support**



## Dana Service and Support

For superior drivetrain solutions and technical support, you can depend on Dana. Through a unique combination of under-the-vehicle knowledge and advanced electronic tools, our experts can respond to customer sales and service requests quickly and help you make the most efficient use of your vehicles.

Find out about warranty coverage, parts and vehicle specifications, repair strategies, and more from an experienced team dedicated to keeping your business moving forward. For more information and assistance, contact the Dana Call Center at 1-877-777-5360.

Dana Commercial Vehicle Products Group  
3939 Technology Drive  
Maumee, Ohio, USA 43537

[www.dana.com](http://www.dana.com)



**SPICER**<sup>®</sup>  
Drivetrain Products