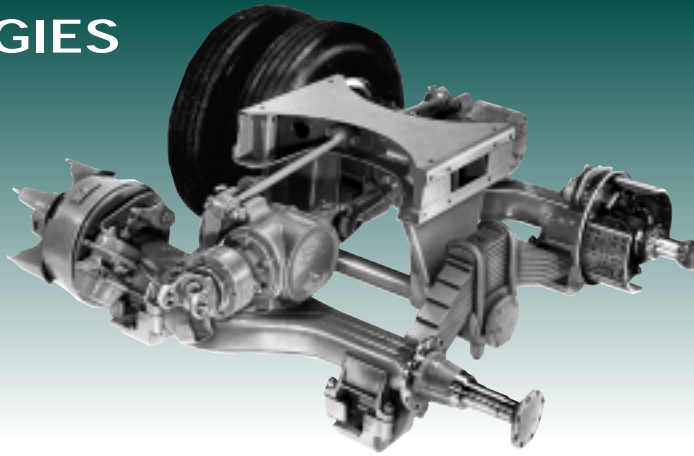


# MACK

## S440

44,000 LBS [20 100 kg]

### BOGIES



### DETAIL SPECIFICATIONS

#### REAR AXLES

**MAKE: MACK**

**Axle Model** ..... **S440**  
 Capacity, Pounds ..... 44,000 [20 000 kg]  
 Creep Rating, Pounds..... 60,000 [27 300 kg]  
 (Max. 5% mileage @ 5 mph)  
 Gross Combination Weight Rating:

	<u>Turnpike</u>	<u>Paved</u>
w/Std. CRDPC92 - CRD93 Up to:	155,000 [70 300 kg]	130,000 [58 900 kg]
w/Opt. CRDP202 - CRD203 Up to:	200,000 [90 700 kg]	170,000 [77 100 kg]

*See MackTraq for specific GVW/GCW ratings per Carrier Application Guidelines. Failure to follow these guidelines may void Mack's Carrier Warranty.*

**Carriers**

Type  
 Standard ..... Dual Reduction Top Mounted with Inter-Axle Power Divider & 4 Pinion Closed Differential  
 Optional . Air Assisted Inter-Axle Power Divider Lockout  
 Optional (CRD921-931, CRD2021-2031) ..... Interwheel Power Divider  
 Standard ..... Iron - CRDPC92 - CRD93  
 Available Ratios:  
 3.86; 4.17; 4.42; 4.64; 5.02; 5.32; 5.55; 5.73;  
 5.88; 6.06; 6.34; 6.56; 7.00; 7.49; 8.27; 9.10

*Due to application variations (engine power/torque, transmission, tire size and duty cycle) some ratios may not be acceptable for GCW/GVW ratings listed.*

Optional ..... Iron - CRDP202 - CRD203  
 Available Ratios:  
 3.63; 3.94; 4.35; 4.73; 5.02;  
 5.46; 5.95; 6.41; 7.08; 8.37

*Due to application variations (engine power/torque, transmission, tire size and duty cycle) some ratios may not be acceptable for GCW/GVW ratings listed.*

**Carriers (Continued)**

Oil Capacity, Pints ..... Carrier Bowl, each 26 [12.3L]  
 Bevel Gear Compartment, Each Carrier  
 (92/93, 921/931) ..... 8 [3.8L]  
 (202/203, 2021/2031) ..... 8.5 [4.0L]  
 Inter-Axle Power Divider  
 (92/921) ..... 1.0 [0.5L]  
 (202/2021) ..... 1.5 [0.7L]  
 Drain Plugs ..... Magnetic

**Axle Housing, Type** ..... Fabricated Steel with Forged Spindle Ends Welded to Housing Shell  
 Spindle, Diameter ..... Inner Bearing 3.75" [95 mm]  
 Outer Bearing 3.25" [83 mm]  
 Spindle Bore 2.52" [64 mm]]

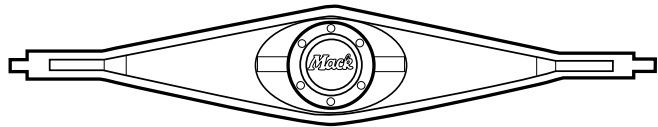
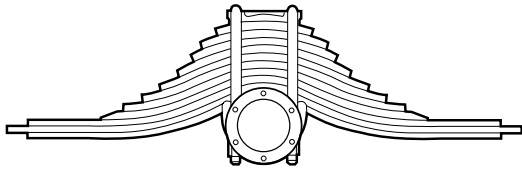
**Axle Shafts, Type** ..... Integral flange  
 Material ..... Induction Hardened Chromium Molybdenum Steel  
 Body Diameter ..... 1.890 " [48 mm]  
 Diameter over Splines ..... 2.200" [56 mm]  
 Splines, Number & Type ..... 43-Involute

**Brakes** Service Brake  
 Type ..... "S" Cam  
 Manufacturer ..... Meritor  
 Actuation ..... Air  
 Lining Size, Diameter ..... 16.5" [419 mm]  
 Width ..... 7" [178 mm]  
 Lining Thickness ..... 0.75" [19 mm]  
 Lining Area, Total ..... .880 in<sup>2</sup> [5 677 cm<sup>2</sup>]  
 Chamber Size—Sq. In. Per Wheel ..... 1 @ 30 [194 cm<sup>2</sup>]  
 Slack Adjuster Length ..... 5.5" to 6" [140 to 152 mm]  
 Brake Adjustment ..... Self Adjusting  
 Parking Emergency Brake ..... Spring Loaded Chamber

**Auxiliary Spring Brake**  
 Type ..... Spring Loaded Chambers (Double Diaphragm Type)  
 Spring Release ..... Mechanical  
 No. of Units: ..... Four (One Unit per Wheel)



**SUSPENSIONS**



**MULTILEAF CAMEL-BACK SPRING**

<b>MACK Unit Symbol</b> .....	<b>SS440</b>
Capacity (Ground Load Rating) .....	44,000 [20 000 kg]
Load Centers .....	50" [1 270 mm] Std. 55" [1 397 mm] Opt.
Spring Centers (Chassis Width) .....	39" [991 mm]
Spring Width .....	4" [102 mm]
No. of Leaves & Thickness:	
Load Centers .....	50" [1 270 mm] .....
Std. Spring .....	10 @ .788" [20 mm] .....
Anti-Sway .....	3 @ .788" [20 mm] .....
.....	7 @ .999" [25 mm] .....
Axle Retention .....	Upper Rubber Shock Insulator in Axle Housing, Lower Rubber Shock Insulator in Cast Iron Caps
Trunnion Bracket & Crossmember .....	One Piece Fabricated Steel with Integral Spindle & Collar Assembly
Spindle .....	Solid
Bushing .....	Standard—Bronze Optional—Urethane
Torque & Propulsion .....	Horizontal Torque Rods and Springs One Transverse Torque Rod on Rear-Most Axle

**WALKING BEAM**

<b>MACK Unit Symbol</b> .....	<b>SW440</b>
Capacity (Ground Load Rating) .....	44,000 [20 000 kg]
Load Centers .....	50" [1 270 mm] Std. 55" [1 397 mm] Opt.
Beam Centers (Chassis Width) .....	39" [991 mm]
Beam, Type .....	I-Section
Material .....	Fabricated Steel.
Width .....	4" [102 mm] @ ends
Axle Retention .....	Upper Rubber Shock Insulator in Axle Housing, Lower Rubber Shock Insulator in Cast Iron Cap
Trunnion Bracket & Crossmember .....	One Piece Fabricated Steel with Integral Spindle & Collar Assembly
Spindle .....	Solid
Bushing .....	Bronze
Torque & Propulsion .....	Horizontal Torque Rods and Walking Beams One Transverse Torque Rod on Rear-Most Axle

**AIR SUSPENSION**

<b>MACK Unit Symbol</b> .....	<b>AL461</b>
	Axle Capacity 44,000 lb. [20 000 kg]
Suspension Model .....	AL461
Susp. Capacity (Ground Load Rating) .....	46,000 [20 800 kg]
Load Centers .....	52" [1 321 mm] Standard 54" [1 372 mm] Optional 60" [1 524 mm] Optiona
Cross Tube .....	Walking Beam Design
Main Support Member (Thickness) .....	2.375" [60 mm]
Frame Hangers .....	Nodular Iron
Torque Rods .....	Rubber Bushed
Adjustable .....	Drop-In Shims
Retention .....	Bar Pin Connections
Shock absorbers .....	Four, two per axle
Air Springs .....	Four, Two per Axle
Torque & Propulsion .....	Two Horizontal & Two Transverse Torque Rods

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