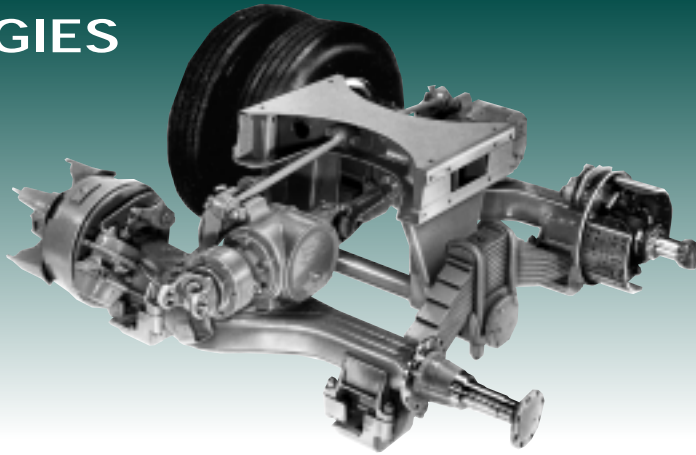


# MACK

## BOGIES



# S40

40,000 LBS [18 100 kg]

### DETAIL SPECIFICATIONS

#### REAR AXLES

#### MAKE: MACK

<b>Axle Model</b> .....	<b>S40</b>
Capacity, Pounds .....	40,000 [18 100 kg]
Creep Rating, Pounds .....	50,000 [22 700 kg]
(Max. 5% mileage @ 5 mph)	
Gross Combination Weight Rating:	

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

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

<b>Axle Housing, Type</b> .....	Fabricated Steel with Forged Spindle Ends Welded to Housing Shell
Spindle Induction Hardened Inner Journal	
Diameter .....	Inner Bearing 3.75" [95 mm]
	Outer Bearing 3.25" [83 mm]
	Spindle Bore Spindle Bore 2.52" [64 mm]
<b>Axle Shafts, Type</b> .....	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

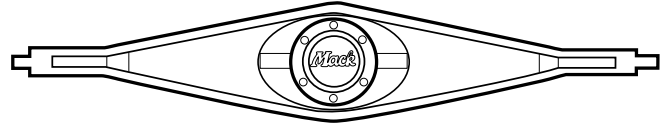
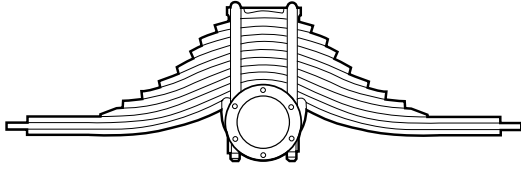
<b>Brakes</b> .....	Service Brake
Type .....	"S" Cam Q+
Manufacturer .....	Meritor
Actuation .....	Air
Lining Size, Diameter .....	16.5" [419 mm]
Width .....	7" [178 mm]
Lining Thickness .....	0.75" [19 mm]
Lining Area, Total .....	.880 in <sup>2</sup> [5 677 cm <sup>2</sup> ]
Chamber Size—Sq. In. Per 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:	
<b>Two</b> (one unit per wheel on forward axle), four units available	
• Tractor—Cam Brakes w/front axle rating of 12,000 lbs. [5 400 kg] or less	
<b>Four</b> (one unit per wheel)	
• Tractor—Cam Brakes w/front axle rating greater than 12,000 lbs. [5 400 kg]	
• Truck—Cam Brakes	



**SUSPENSIONS**



**MULTILEAF CAMEL-BACK SPRING**

<b>MACK Unit Symbol</b> .....	<b>SS40</b>
Capacity (Ground Load Rating) .....	40,000 [18 100 kg]
Load Centers .....	50" [1 270 mm] Standard
	55" [1 397 mm] Optional
Spring Centers (Chassis Width) .....	39" [991 mm]
Spring Width .....	4" [102 mm]
Number of Leaves & Thickness:	
Load Centers .....	50" [1 270 mm] .....
Standard Spring .....	4 @ .788" [20 mm] .....
	6 @ .625" [16 mm] .....
Anti-Sway .....	10 @ .788" [20 mm] .....
Axle Retention .....	Upper & Lower Rubber Shock Insulators, Cast Steel Spring Brackets, Cast Iron Caps
Trunnion Bracket & Crossmember .....	One Piece Fabricated Steel with Integral Spindle & Collar Assembly
Spindle .....	Tubular
Bushing .....	Standard—Bronze
	Optional—Urethane
Shock Absorbers .....	Two - Mounted on Forward Axle
Torque & Propulsion .....	Horizontal Torque Rods and Springs

**WALKING BEAM**

<b>MACK Unit Symbol</b> .....	<b>SW40</b>
Capacity (Ground Load Rating) .....	40,000 [18 100 kg]
Load Centers .....	50" [1 270 mm] Standard
	55" [1 397 mm] Optional
Beam Centers (Chassis Width) .....	39" [991 mm]
Beam, Type .....	I-Section
Material .....	w/50" [1 270 mm] load centers
	• Steel casting
	• Fabricated Steel (all models)
Width .....	4" [102 mm] @ ends
Axle Retention .....	Upper & Lower Rubber Shock Insulators, Cast Steel Spring Brackets Cast Iron Caps
Trunnion Bracket & Crossmember .....	One Piece Fabricated Steel with Integral Spindle & Collar Assembly
Spindle .....	Solid
Bushing .....	Bronze
Torque & Propulsion .....	Horizontal Torque Rods and Walking Beams

**AIR SUSPENSION**

<b>MACK Unit Symbol</b> .....	<b>AL401</b>
	Axle cap. 40,000 [18 100 kg]
Suspension Model .....	AL401
Susp. Capacity (Ground Load Rating) .....	40,000 [18 100 kg]
Load Centers .....	52" [1 321 mm] Std.
	54" [1 372 mm] Opt.
	60" [1 524 mm] Opt.
Cross Tube .....	Walking Beam Design
Main Support Member (Thickness) .....	1.88" [48 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
Air Dump Valve .....	Dash Mounted

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