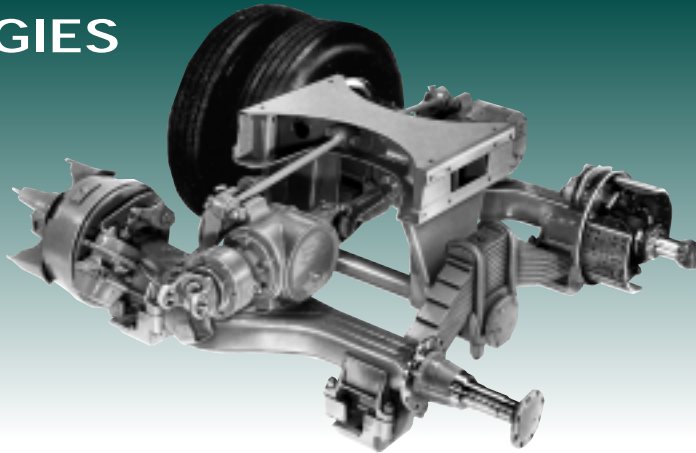


MACK

BOGIES



S40

40,000 LBS [18 100 kg]

DETAIL SPECIFICATIONS

REAR AXLES

MAKE: MACK

Axle Model	S40
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

Axle Housing, Type	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]
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

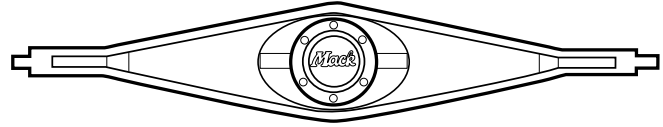
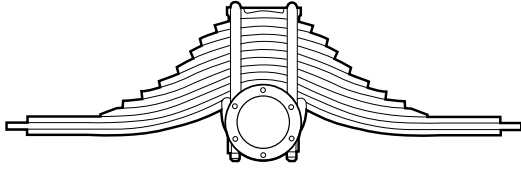
Brakes	Service Brake
Type	"S" Cam Q+
Manufacturer	Meritor
Actuation	Air
Lining Size, Diameter	16.5" [419 mm]
Width	7" [178 mm]
Lining Thickness	0.75" [19 mm]
Lining Area, Total	.880 in ² [5 677 cm ²]
Chamber Size—Sq. In. Per Wheel	1 @ 30 [194 cm ²]
Slack Adjuster Length	5.5" to 6" [140 to 152 mm]
Brake 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:	
Two (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	
Four (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

MACK Unit Symbol	SS40
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] 55" [1 397 mm]
Standard Spring	4 @ .788" [20 mm] 9 @ .788" [20 mm] 6 @ .625" [16 mm]
Anti-Sway	10 @ .788" [20 mm] 11 @ .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

MACK Unit Symbol	SW40
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

MACK Unit Symbol	AL401
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
Retention	Drop-In Shims 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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