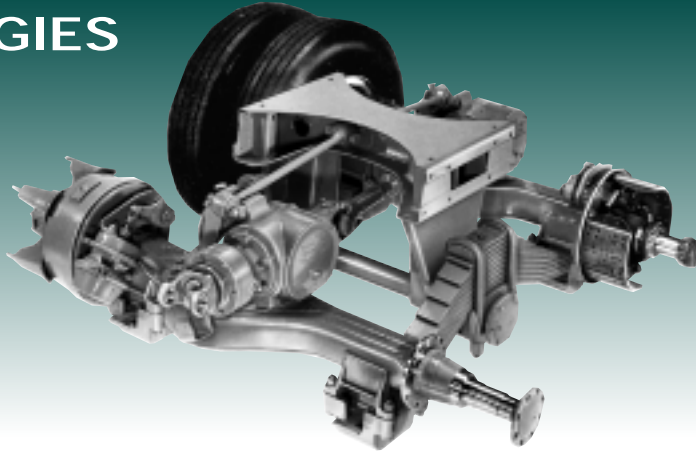


MACK

BOGIES



S38R

38,000 LBS [17 200 kg]

DETAIL SPECIFICATIONS

REAR AXLES

MAKE: MACK

Axle Model **S38R**

Capacity, Pounds 38,000 [15 400 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 P.D.	
(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 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, No. & 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, Total880 in² [5 677 cm²]

Chamber Size—Sq. In. Per Wheel 1 @ 30 [194 cm²]
Slack Adjuster Length 6" [152 mm]
Brake Adjustment Self Adj.

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

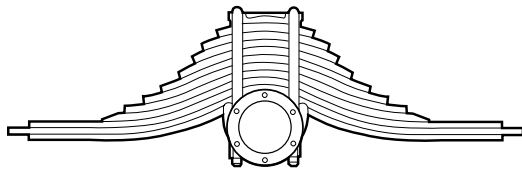
- Tractor—Cam Brakes w/front axle rating of 12,000 lbs. [5 400 kg] or less

Four (one unit per wheel)

- Tractor—Cam Brakes w/front axle rating greater than 12,000 lbs. [5 400 kg]
- Truck—Cam Brakes

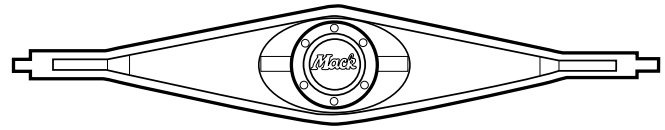


SUSPENSIONS



MULTILEAF CAMEL-BACK SPRING

MACK Unit Symbol	SS38
Capacity (Ground Load Rating)	38,000 [17 200 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]
Number of Leaves & Thickness:	
Load Centers	50" [1 270 mm]
Standard Spring	4 @ .788" [20 mm]
Anti-Sway	6 @ .625" [16 mm]
Axle Retention	10 @ .788" [20 mm]
Axle Retention	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 - Urethane Optional - Bronze
Shock Absorbers	Two (2) - Mounted on Forward Axle
Standard	Tractor Chassis
Optional	All Except Tractor Chassis
Torque & Propulsion	Horizontal Torque Rods and Springs



WALKING BEAM

MACK Unit Symbol	SW38
Capacity (Ground Load Rating)	38,000 [17 200 kg]
Load Centers	50" [1 270 mm] Standard 55" [1 397 mm] Optional
Beam Centers (Chassis Width)	39" [991 mm]
Beam, Type	I-Section
Materialw/50" [1 270 mm] Load Senters
	• 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. 38,000 lb. [17 200 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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