

MACK

DETAIL SPECIFICATIONS

Rear Axle

MAKE: MACK

Axle Model	S40
Capacity, Pounds	[18 100 kg]
Axle Creep Rating Pounds.60,000	[27 200 kg]

NOTE: Axle creep rating does not take into account the suspension creep rating which may be different. Check with the suspension supplier to be sure the suspension creep rating meets your application needs.

Gross Combination Weight Rating:

w/Opt. CRDPC125 - CRD126 Up to:	125,000 lbs. [56 818 kg]
w/Std. CRDPC150 - CRD151 Up to:	150,000 lbs. [68 182 kg]
w/Opt. CRDP202 - CRD203 Up to:	180,000 lbs. [81 818 kg]

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

Carriers

Туре

 Standard Dual Reduction Top Mounted with Inter-Axle Power Divider & 4 Pinion Closed Differential
 Optional Air assisted Inter-Axle Power Divider Lockout
 Optional (CRD1501-1511, CRD2021-2031) Interwheel Power Divider
 Optional. Driver Controlled, Air Assisted Interwheel Differential Lock, available on Front Rear, Rear Rear or Both Rears is only available on CRD125/126 and CRD150/151

Standard Iron - CRDPC150 - CRD151 Available Ratios:

3.11*; 3.25*; 3.40*; 3.56*; 3.79; 3.98; 4.19; 4.50*; 4.80; 5.04; ... 5.31; 5.66; (* are not available with Inter-Wheel Power Divider)

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 - CRDPC125 - CRD126
Available Ratios:	
2.54; 2.66; 2.83	

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
(125/126)
(150/151, 1501/1511) 8 [3.8L]
(202/203, 2021/2031)



40,000 LBS [18 100 kg]

Inter-Axle Power Divider

(125)	1.0 [0.5L]
(150/1501)	1.0 [0.5L]
(202/2021)	1.5 [0.7L]
Drain Plugs	Magnetic
Axle Housing, Type Fabricated Steel with Forged Spi	ndle Ends
Welded to Hou	using Shell

SpindleInduction Hardened Inner Journal
Diameter
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
Diameter over Splines 2.200" [56 mm]
Splines, Number & Type 43-Involute
Brakes Service Brake
Brakes
Type"S" Cam
Type"S" Cam Actuation Air
Type
Type "S" Cam Actuation Air Lining Size, Diameter 16.5" [419 mm] Width 7" [178 mm]
Type
Type

Auxiliary Spring Brake

Туре	Spring Loaded Chambers
	Double Diaphragm Type)
Spring Release	Mechanical

Parking Emergency Brake Spring Loaded Chamber

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
Mack Suspension Creep Rating	62,000 lbs.
NOTE:	
If you are choosing a supplier other than Mack for you with the suspension supplier to be sure the suspensi your application needs.	,
Capacity (Ground Load Rating)	40,000 [18 100 kg]
Load Centers 50	" [1 270 mm] Standard
55	5" [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]
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 & CrossmemberOne Piece Fabricated Steel
with Integral Spindle & Collar Assembly
SpindleTubular
Bushing Bronze
Optional—Urethane
Shock Absorbers Two - Mounted on Forward Axle
Torque & Propulsion Horizontal Torque Rods and Springs

WALKING BEAM

MACK Unit SymbolSW40		
Mack Suspension Creep Rating		
NOTE:		
If you are choosing a supplier other than Mack for your susupension, check with the suspension supplier to be sure the suspension creep rat- ing meets your application needs.		
Capacity (Ground Load Rating)		
Beam Centers (Chassis Width)		
Beam, Type I-Section		
Material		
Steel casting		

Steel casting
 Fabricated Steel (all models)
Width
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
Bushing Bronze
Torque & Propulsion Horizontal Torque Rods
and Walking Beams

AIR SUSPENSION

MACK Unit Symbol	AL401
Mack AL Suspension Creep Rating	
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	Valking 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 Tra	nsverse Torque Rods
Air Dump Valve	Dash Mounted

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