

MACK

DETAIL SPECIFICATIONS

Rear Axle

MAKE: MACK

Axle Model	S402R
Capacity, Pounds	40,000 [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 D	Differential Lock, available on Front Rear, Rear Rear or
Both Re	ars is only available on CRD125/126 and CRD150/151
Standard	Iron - CRDPC150 - CRD151
Available	Ratios:
0 1 1 * 0 0	

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
	ations (engine power/torque, transmis- cvcle) 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)	
(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 withForged 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 Ha	ardened Chromium Molybdenum Steel
	1.890 " [48 mm]
	2.200" [56 mm]
Splines, Number & Type	43-Involute

Brakes	Service Brake
Туре	"S" Cam
Actuation	Air
Lining Size, Diameter	16.5" [419 mm]
Width	
Lining Thickness	0.86" [22 mm]
Lining Area, Total	
Chamber Size-Sq. In. Per Wheel	
Slack Adjuster Length	5.5" to 6" [140 to 152 mm]
Brake Adjustment	Self Adjusting
Parking Emergency Brake	Spring Loaded Chamber

Auxiliary Spring Brake

Туре	Spring Loaded Chambers
	Double Diaphragm Type)

Spring Release I	Mechanical
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No. of Units:

The information in this brochure was accurate representative of current product. Mack Trucks

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

ate as known as of the date of the public

icks, Inc. reserves the right to make changes in specifications, equipment or design, or to discontinue models or options without notice at any time

12,000 lbs. [5 400 kg] • Truck-Cam Brakes

Mack mRIDE 40

	Produ	uct Specificatio	ns		
Weight Rating (Pounds)	40,000				
Load Distribution		50	/ 50		
Spring type		Para	abolic		
Width of Spring		2.95 in	. (75mm)		
Number of Leaves ¹	5-Tractor Normal Ride	2-Tractor Stiffer Than Normal Ride	2-Truck Normal Ride	3- Truck Stiffer Than Normal Ride	
Leaf Thickness	5 @ 1.25 in. (31.8mm)	1 @ 2.01 in. (51mm) 1 @ 2.46 in. (63mm)	1 @ 2.01 in. (51mm) 1 @ 2.46 in. (63mm)	2 @ 1.61 in. (41mm) 1 @ 2.17 in. (55mm)	
PID Code	1861601	1861602	1861603	1861604	
Deflection Rate (lbs./in)	8,550	19,500	19,500	21,700	
Weight-Conventional Cab ²	1424	1297	1297	1441	
Weight-Cab-Over ²	1424	1267	1267	1441	
Creep Rating (Pounds)	55,000	55,000	55,000	60,000	
Spring height	6.65 in. (169mm)	4.64 in. (118mm)	4.64 in. (118mm)	5.63 in. (143mm)	
Rear Shock Absorber	4 standard	4 standard	4 standard	4 standard	
Available Mack Axles	S402R (PID code 2681031)				
V-Rod Tube (OD x Wall thickness)	1.89 in. (48mm) x 0.20 in. (5mm)				
Lower Torque Rod	1.89 in. (48mm) x 0.20 in. (5mm) –Left - Adjustable				
Tube (OD x Wall thickness)	1.89 in. (48mm) x 0.20 in. (5mm) –Right - Fixed				
Axle Spacing		54	4 in.		
Suspension Jounce (metal to metal)	3.94 in. (100mm)				
Available Models	CHU, GU7 & GU8, TD, MRU ³ , LEU ³				

Includes torque rods, brackets but no crossmembers

Includes torque rods, brackets but no crossmenses
Cab Over Models Get 2 Leaf or 3 Leaf as a Truck Only

Mack mRIDE 40

Suspension Ride Heights								
		CHU, GU7, GU8 & TD *				MRU & LEU **		
# of Leaves	5 Leaf Tractor	2 Leaf Tractor	2 Leaf Truck	3 Leaf Truck	2 Leaf Truck	3 Leaf Truck		
Weight Ratings (lbs.)		40,000			40,000			
Ride Height Chassis Only***	11.9″	10.9″	10.9″	11.1″	11.3″	11.5″		
Ride Height Full Load***	10.0″	10.0″	10.0″	9.9″	10.4″	10.3″		
* CHU, GU7, GU8 & TD Ride Heights Based on 11.8in (300mm) frame height ** MRU & LEU Ride Heights Based on 13.37in (340mm) frame height *** Centerline of Rear Axle to Bottom of Frame								

