

MATHK

DETAIL SPECIFICATIONS

Rear Axle

MAKE: MACK

Axle Model	
Capacity	52,000 [23 587 kg]
Creep Rating, Pounds	

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

See MackTrag 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 (CRD1501-1511 CRD2021-2031) Interwheel Power Divider Optional. Driver Controlled, Air Assisted Interwheel Differential Lock, available on Front Rear, Rear Rear or Both Rears

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 - 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]
Bev	vel gear compartment, each carrier
(150/151, 1501/1511)	
(202/203, 2021/2031)	8.5 [4.0L]



Inter-Axle Power Divider 1.0 [0.5]	_]
(150/1501) 1.0 [0.5]	_]
(202/2021)	_]
Drain Plugs Magnet	ic
Axle Housing, TypeCast Ductile Iron with Forged Spindle	
Pressed Into Housir	•
Spindle Induction Hardened Inner Journa	al
Diameter Inner Bearing 3.75" [95 mn	ןו
Outer Bearing 3.25" [83 mr	n]
Spindle Bore 2.67" [68 mr	n]
Axle Shafts, Type Integral Flang	е
Material Induction Hardene	
Chromium Molybdenum Ste	el
Body Diameter 1.890" [48 mn	ןו
Diameter over Splines 2.200" [56 mn	ןו
Splines, No. & Type 43-Involut	-

Brakes Type	
Actuation	
Lining Size, Diameter	16.5" [419 mm]
Width	7" [178 mm]
Lining Thickness	0.86" [22 mm]
Lining Area, Total	1,012 in ² [6 529 cm ²]
Chamber Size—Sq. In. Per Wheel	
Slack Adjuster Length	5.5"- 6" [140-152 mm]
Brake Adjustment	Self Adjusting
Parking Emergency Brake	Spring Loaded Chamber

Auxiliary Spring Brake

Туре	Spring Loaded Chambers
	(Double Diaphragm Type)
Spring Release	Mechanical
No. of Units	Four (One Unit per Wheel)

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Mack mRIDE 52

	Product Specification	S	
Weight Rating (Pounds)	52,000		
Load Distribution	50 / 50		
Spring type	Parabolic	Multileaf	
Width of Spring	2.95 in. (75mm)		
Number of Leaves	3	11	
Leaf Thickness	2 @ 1.93 in. (49mm) 1 @ 2.17 in. (55mm)	11 @ 1.02 in. (26mm)	
PID Code	1861630	1861631	
Deflection Rate (lbs./in)	23,500	17,700	
Weight-Conventional Cab ¹	1568	1828	
Weight-Cab-Over ¹	1482	1780	
Creep Rating (Pounds)	60,000	60,000	
Spring height	6.65 in. (169mm)	9.21 in. (234mm)	
Rear Shock Absorber	4 standard		
Available Mack Axles	S522R (PID code 2681030)		
V-Rod Tube (OD x Wall thickness)	2.28 in. (58mm) x 0.20 in. (5mm)		
Lower Torque Rod Tube	1.89 in. (48mm) x 0.20 in. (5mm) –Left - Adjustable		
(OD x Wall thickness)	1.97 in. (50mm) x 0.20 in. (5mm) –Right - Fixed		
Axle Spacing	54 in. (1370)		
Suspension Jounce (metal to metal)	3.94 in. (100mm)		
Available Models	GU7 & GU8, TD, MRU, LEU		

Mack mRIDE 52

Suspension Ride Heights				
	GU7, GU8 & TD *		MRU & LEU **	
# of leaves	3 leaf	11 leaf	3 leaf	11 leaf
Weight ratings (lbs.)	52,000		52,000	
Ride height chassis only***	11.9″	11.9″	12.3″	12.3″
Ride height full load***	10.7″	10.5″	11.1″	10.9″
* GU7, GU8 & TD Ride Heights Based on 11.8in (300mm) frame height				

* 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



