



E8209RS

MACK TRUCKS  WORLDWIDE, LTD.

# MODEL R-403RS

- MACK THERMODYNE DIESEL FUEL ECONOMY
- EXTRA ROOMY CAB INTERIOR
- RIGHT HAND DRIVE
- STEEL BUTTERFLY HOOD AND FLAT FENDERS
- MACK BUILT COMPONENTS

## STANDARD EQUIPMENT

<b>WHEELBASE</b> .....	171" (LP 144"; CA 96")	<b>BOGIE: (MACK)</b> .....	<b>SWD 73</b>
<b>ENGINE: (MACK Diesel)</b> .....	<b>END 465C, Thermodyne</b>	Carriers (Dual Reduction) .....	CRDPC 92 & CRD 93
Type .....	Naturally aspirated 6 cyl.	Ratios .....	5.13, 5.73, 6.34, 7.00, 7.49
Bore and stroke .....	4 <sup>3</sup> / <sub>16</sub> " x 5"	<b>SPRINGS:</b>	
<b>Piston displacement, cu. in.</b> .....	<b>464</b>	Front .....	54" x 3 <sup>1</sup> / <sub>2</sub> "
<b>Brake horsepower at 2600 rpm</b> .....	<b>155</b>	Rear .....	50" x 4"
<b>Max. torque at 1600 rpm</b> .....	<b>350 lb.-ft.</b>	Leaves, no. & thickness .....	12 @ 0.323"      1 @ 0.788"
Lube oil filter (10 qts.) .....	By-pass	2 @ 0.625"	
Air cleaner .....	Oil bath type	Suspension (Rear) .....	Walking-beam and spring
Radiator, frontal area .....	1000 sq. in.	<b>BRAKES: Type</b> .....	<b>Air</b>
Water capacity, system .....	40 qts.	Front (MACK) .....	16 <sup>1</sup> / <sub>2</sub> " x 3" (204 sq. in.)
Thermostat, to open .....	170°	Rear (ROCKWELL-STANDARD) .....	15" x 6" (754 sq. in.)
Fuel pump (PSM) .....	Single plunger	Parking .....	10" x 3" (102.5 sq. in.)
<b>FUEL TANK</b> .....	<b>55 gal.,</b> right side, steel, rect. step	Air compressor .....	Tu-Flo 500 (12 cu. ft.)
<b>ELECTRICAL SYSTEM: Generator</b> .....	<b>12 Volt, 55 Amp</b>	Air reservoir capacity .....	3015 cu. in. (approx.)
Starting system .....	12 Volt	Rockwell-Standard brakes include automatic brake adjustment, four spring loaded, fail-safe auxiliary brake units per bogie, STANDARD driveshaft brake omitted.	
Batteries (group 4H) .....	(4) 6 Volt	<b>WHEELS &amp; TIRES:</b>	
Plates per cell 23; Amp. hr. @ 20 hr. rate .....	170	Wheels .....	Cast spoke
<b>CLUTCH: Model</b> .....	<b>CL 471</b>	Tires .....	<b>10.00-20 (12P), 7.5 Rims</b>
Type .....	Single-plate, dry, 13 <sup>7</sup> / <sub>8</sub> " O.D.	<b>STEERING GEAR: Model</b> .....	<b>SG 26</b>
Area of engagement .....	220 sq. in.	Steering wheel diameter; ratio .....	22"; 28.4:1
<b>TRANSMISSION: Model</b> .....	<b>TR 103</b>	SG 46 available only with FA 534 or FA 535.	
Type .....	5-spd., direct	<b>FRAME: Size</b> .....	<b>9" x 3<sup>1</sup>/<sub>4</sub>" x 1/4"</b>
<b>DRIVESHAFT:</b>		Material .....	Chrome-manganese steel, heat-treated
Make and size .....	Spicer; 1550; 3 <sup>1</sup> / <sub>2</sub> " O.D.	Section Modulus .....	9.76
<b>FRONT AXLE: (MACK)</b> .....	<b>FA 534</b>	Resisting bending moment .....	878,400 in. lbs. per rail
		<b>CAB: (MACK)</b> .....	<b>CAR 36</b>
		Type (109" BBC) .....	Conventional, two-man, Right hand drive
		<b>STANDARD CHASSIS WEIGHT (LBS.) EST.:</b>	
		Front 5,568; Rear 6,555; Total 12,123	

### CHASSIS EQUIPMENT

Air intake system, outside—underhood  
Automatic radiator shutters  
Automatic reset circuit breakers  
Bumper, extended  
Cab roof vent, two-way  
Cab step, left side  
Headlights and parking lights  
Horn, electric, single tone

I.C.C. & Marker lights  
Low air pressure indicator, buzzer  
Rear view mirrors, two, West Coast type (black enamel finish)  
Seat belt anchors  
Shock absorbers, front  
Steering column, adjustable  
Stop and tail light

Sun visor, right side  
Tachometer, single hand  
Towing eyes  
Turn signals, front (with 4-way flasher)  
Underframe exhaust  
Vultmeter  
Wheel wrench and handle  
Windshield glass, Solex  
Windshield wipers, air, dual, single motor

**MACK TRUCKS, INC.**

**OPTIONAL EQUIPMENT**

**MODEL R-403RS**

**WHEELBASE** .....177", 183", 200", 223"

**CLUTCH: (MACK)**  
CL 405 ..... Single plate, dry, 13 $\frac{3}{8}$ " O.D. (220 sq. in.)

**TRANSMISSION: (MACK)**  
TRD 77 ..... 10-spd., direct, Duplex  
TRQ 770 ..... 18-spd., overgear, Quadruplex  
TR 103 & BL 7231 A or B ..... 5-spd. trans., 3-spd. Aux.  
TR 771 & BL 7231 A or B ..... w/wo Power Tower  
MT 41 & B/L 7231 D ..... Allison, 6-spd., automatic & 3-spd. Aux.

**FRONT AXLE: (MACK)**  
FA 535 ..... Springs, (11) .360"  
FA 532 ..... Springs, (13) .360"  
FA 600 ..... Springs, (14) .401"  
Springs, optional, FA 534 ..... (10) .323"  
FA 535 ..... (12) .323"  
FA 532 ..... (11) .360"  
FA 600 ..... (14) .360"  
Springs, heavy duty, FA 600 ..... (16) .401"

<b>BOGIE: (MACK)</b>		<b>BRAKES</b>	<b>SUSPENSION</b>
SWD 731		Rockwell-Standard	Walking-beam
SWDL 56, SWDL 561		Mack	Camel-back
SWDL 563, SWDL 564		Rockwell-Standard	Camel-back
SWDL 76, SWDL 761		Mack	Walking-beam
SWD 76, SWD 761		Rockwell-Standard	Walking-beam
SWD 57, SWD 5701		Mack	Camel-back
SWD 571, SWD 5711		Mack	Camel-back
SWD 573, SWD 5731		Mack	Camel-back
SWD 574, SWD 5741		Rockwell-Standard	Camel-back
SWD 575, SWD 5751		Rockwell-Standard	Camel-back

**Carriers and ratios same as standard.**  
**SWDL 76, SWD 76, series max. tire are 10.00-22.**

**SUSPENSION:**  
SWD 57 ..... 10 leaves @ 0.788"; 55" spacing, 11 @ 0.788"  
SWDL 56 ..... 9 leaves @ 0.625"; 55" spacing, 10 @ 0.625"

**BRAKES: (MACK)**  
FA 535, FA 532 ..... 16 $\frac{1}{2}$ " x 4" (276)  
FA 600 ..... 17 $\frac{1}{4}$ " x 5" (355)  
SWD 57, SWD 571, SWD 573, SWDL 56/76 ..... 16 $\frac{1}{2}$ " x 6" (828)  
SWD 5701/5711/5731, SWDL 561/761 ..... 16 $\frac{1}{2}$ " x 7" (952)

**BRAKES: (ROCKWELL-STANDARD, Stopmaster)**  
SWD 574, SWD 575, SWD 76, SWDL 563 ..... 15" x 6" (754)  
SWD 5741, SWD 5751/731/761, SWDL 564 ..... 15" x 7" (880)  
Rockwell-Standard brakes include automatic brake adjustment, four spring loaded, fail-safe auxiliary brake units per bogie, STANDARD driveshaft brake omitted.

**ELECTRICAL SYSTEM:**  
Alternator ..... 12 Volt, 50 Amp. (low cut-in)  
Alternator ..... 12 Volt, 60 Amp. (heavy duty)

**WHEELS AND TIRES:**  
Disc ..... \*Hi-tensile (7.5 rims); Steel (8.0 rims)  
Tires and Rims ..... 10.00-22 (12P), 7.5  
11.00-20 (12P), 8.0; (Front only) 12.00-20 (14P), 8.0  
\*Specify Budd or Firestone.

**FRAME:**  
(Inside channel required for dumper and mixers).  
Reinforcement .....  $\frac{1}{4}$ " Fishplate  $\frac{1}{4}$ " Inside Channel  
Section Modulus (comb.) ..... 15.4 17.72  
RBM (in lbs. per rail) ..... 1,594,800  
Section Modulus (IC and FP) ..... 28.77

**FUEL TANK: (gallons)**  
Steel, Rect., Step ..... 55, left side or 70, left side  
Cab step right side; steel rect.,  
step tank ..... 70, left side

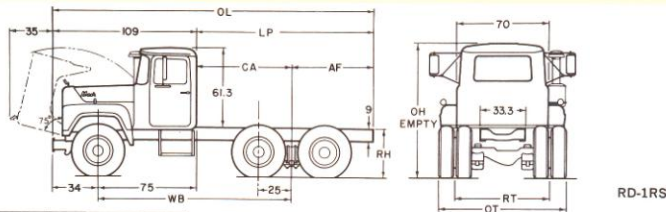
**CHASSIS EQUIPMENT**

Air reservoir, isolated for spring-loaded brakes  
Automatic drain valve  
Bogie spacing 55"  
Brake, alcohol evaporator  
Cab air conditioning  
Cab heater, fresh air, 37,500 btu  
Chrome plated turn signals  
Chrome plated W.C. rear view mirrors  
Driver's seat—Bostrom, Viking T-bar or West  
Coaster; General, #107;  
American Metal, Unison Action

Engine water filter, Perry  
Front wheel brake limiting valve  
Hand control valve  
Horn, electric, dual tone  
Horn, air, twin or single  
Hubodometer  
Hydraulic jack, 8- or 12-ton  
Power divider lock-out  
Power steering  
Radiator guard, plate type  
Reflectors, one each side, cab rear

Seat belts  
Spring loaded parking brake, incl. warning light (with or w/o std. driveshaft brake)  
Stop and tail light, extra  
Sun visor, left side  
Tire carrier (223" WB only)  
Turn signals, rear (loose)  
Vertical exhaust  
Wig-wag low air pressure indicator  
Window power lift, left side  
Windshield washers

Specifications subject to change without notice. Illustrations are not necessarily a representation of standard specifications.



WB	LP	CA	AF	OL	Turning Circle Dia. (outer edge of tire) Approx.	
					Left	Right
171	144	96	48	253	62 ft.	62 ft.
177	156	102	54	265	64 ft.	64 ft.
183	168	108	60	277	66 ft.	66 ft.
200	196	125	71	305	70 ft.	70 ft.
223	240	148	92	349	76 ft.	76 ft.

Tire Size	OH Approx.	RH				Front Tread	OT Spoke	RT Wheels
		Empty		Loaded				
		SWDL 56	SWD 57	SWDL 56	SWD 57			
10.00-20	98.8	40.6	41.8	37.8	39.2	76.9	95.3	71.4
10.00-22	99.7	41.4	42.7	38.8	40.1	76.9	95.3	71.4
11.00-20	99.2	40.0	42.4	37.2	39.6	78.4	96	71.1

Frame heights are subject to variations: 1" empty, 1/2" loaded.

Chassis dimensions are in inches and are for standard chassis unless otherwise denoted.

**MACK TRUCKS WORLDWIDE LIMITED**

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ALLENTOWN, PA. "THE TRUCK CAPITAL OF THE WORLD"