

MODELS B-61SX & B-613SX

Six-Wheel, Diesel, Truck

STANDARD EQUIPMENT

RATING, GVW: 61,000 lbs. (SWD 68) 27.7T
76,000 lbs. (SWD 592) 34.5T

WHEELBASE — 170½" Platform — 144"

ENGINE, (Mack Diesel):	B-61SX	B-613SX
Model	END 673P	ENDT 673
Type, Thermodyne	Naturally aspirated	Turbocharged
Brake horsepower @ 2100 r.p.m. (gov.)	180	205
Max. torque @ r.p.m.	1400	1400-1600
Pound-feet	505	590
Lube oil filter (14 qts.)	Comb. full-flow/by-pass	
Lube Oil Cooler	—	Am. Std.
Governor	American Bosch, mechanical	
Air cleaner	Donaldson, oil bath	
Radiator, frontal area, sq. in.	560	700
Water capacity of system	48 qts.	52 qts.
Fuel Tank	22 gal., left apron	

CLUTCH (Mack) CL 28
Single-plate, dry 14⅞" Dia.
Area of engagement, sq. in. 253

ELECTRIC SYSTEM 12 Volt, 55 Amp.
24 Volt starting
Battery, number Four (6 Volt)

TRANSMISSION (Mack) TRDX 720 TRQ 7220
Ten-speed, overgear (wide-range), two-lever, Duplex

DRIVESHAFTS:
Make & Size Spicer, 1700
(1600 inter-axle)

FRONT AXLE (Mack) FA 522

BOGIE (Mack) SWD 68
Type Dual Reduction, 4-wheel
Inter-axle differential Mack Power Divider
Carriers CRDP 112 & CRD 113
Ratios 7.00, 7.49, 8.24, 9.15

BRAKES, AIR:
Size—Dia., width, lining thickness & lining area (sq. in.)
Front 16½" x 4" x ¾" (276)
Rear 16½" x 6" x ¾" (828)
Hand 12" x 5" x ⅜" (139)
Compressor Tu-Flo 500 (12 cu. in.)
Reservoir capacity 3030 cu. in. (total)

FRAME: Chrome-manganese steel, heat-treated
Size 9" x 3¼" x ¼"
Reinforcement ¼" Inside Channel
¼" Outside Channel
(10½")
Section modulus 25.80 (with I.C. & O.C.)

SPRINGS, Semi-Elliptic: Front Rear (inverted)
Size 46" x 3" 54" x 5"
Leaves, no. & thickness 14 @ .360" 13 @ .788"
Shock absorbers, front Houdaille, rotary-hydraulic

WHEELS & TIRES (Available on SWD 68 only):
11.00-22 (12P) on 8.0 Rims, Cast Spoke Wheels
Overall width exceed 96"

STEERING GEAR:
Worm and roller SG 26
Steering wheel dia. & ratio 22"; 28.4

CAB (Mack) CA 21
All metal, welded, unified cab and cowl

CHASSIS EQUIPMENT: Painting in synthetic enamel (Mack green, red, yellow, blue, orange or black); extended type front bumper; headlights and parking lights; stop-tail light; electric horn, dual tone; defroster nozzles; sun visor, left side; air-actuated windshield wipers; automatic reset circuit breakers; two I.C.C. lights; three marker lights; low air pressure buzzer; automatic radiator shutters; tow hooks, front; tachometer, single-hand; rim (or disc) wrench.

MAJOR OPTIONAL EQUIPMENT

WHEELBASES: See Chassis Diagram

TRANSMISSION: (Mack)
TR 72, TR 720 5-speed with Aux.
TRD 720 10-speed, two-lever, Duplex
TRQ 7210 18-speed, two-lever, Quadruplex
Add opt.—Right and left side PTO opening in TRQ Compound case.

AUXILIARY TRANSMISSION:
B-L 8031 C or G 3-speed with TR 72, TR 720, TRD 720

Add. opt.—Power Tower for auxiliary with 5-spd. trans only.
194½" WB shortest for 10-spd. transmission and auxiliary.
Note: TRQ 7210, TRDX 720 or a TR and B-L 8031 C auxiliary is recommended for dumpers and mixers.

FRONT AXLE: (Mack)
* FA 601 Springs, 17 leaves (.360")
brakes 17¼" x 5" x ¾" (355)
* Required with SWD 592 bogie

BOGIE: (Mack)
SWD 592 Dual Reduction
Bogie wheelbase 58"
CRDP 95 & CRD 96
Carrier ratios 8.27, 9.10, 10.11
Springs (58" x 5") 10 leaves (1")
Brakes 17¼" x 6" x ¾" (852)
Requires FA 601 front axle.

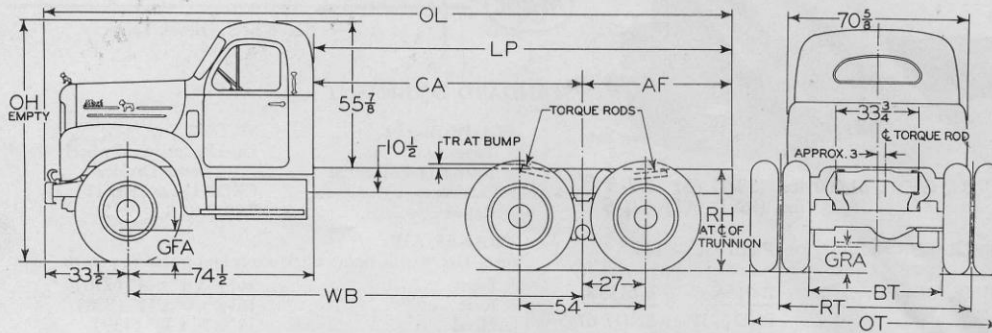
WHEELS & TIRES:
(Overall width exceeds 96")
Tires & rim 11.00-24 (12P); 8.0

Wheels Steel Disc

AUXILIARY EQUIPMENT: See chassis price page for regular optional extra auxiliary equipment.

COMPONENT DETAIL SPECIFICATIONS: Refer to sections at rear of this book.

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WB	LP	CA	AF	OL	Turning Circle Approx. (Outer edge of Tire)	
					Left	Right
170 1/2	144	96	48	252	67 ft.	65 ft.
170 1/2	168	96	72	276	67 ft.	65 ft.
182 1/2	168	108	60	276	71 ft.	69 ft.
194 1/2	194	120	74	302	75 ft.	73 ft.
222 1/2	240	148	92	348	84 ft.	82 ft.

TIRE SIZE	OH Approx.	GFA	Bogie	TR	GRA	RH		OT	RT	BT
						Loaded	Empty			
11.00-22	97 1/2	11	SWD68	2 1/8	9	40%	41 1/2	99 1/4	73 3/4	48 1/8
			SWD68	2 1/8	10	41%	42%	99 1/4	73 3/4	48 1/8
11.00-24	98 1/2	12	SWD592	3 3/8	10%	42%	44 1/8	99 1/4	73 3/4	48 1/8

Frame heights are subject to variations: 1/2" loaded; 1" empty.
Bogie wheelbase shown for SWD68; SWD592 wheelbase is 58".

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

GEARED MILES PER HOUR (Max. Speed Shift)

Gov. Speed, 2100 rpm

Bogie SWD 68

Tire Size	11.00-22	11.00-24	11.00-22	11.00-24	11.00-22	11.00-24
Axle Ratio	TRD 720, TRDX 720		TRQ 7210		TR 720 or TRD 720 & B-L 8031 C	
7.00	49	52	55	59	65	68
7.49	46	49	52	55	61	64
8.24	42	44	48	49	56	58
9.15	37	40	42	45	49	53
Axle Ratio	TR 720 or TRD 720 & B-L 8031 G		TR 72 & B-L 8031 C		TR 72 & B-L 8031 G	
7.00	59	62	51	54	46	48
7.49	55	58	48	51	43	45
8.24	50	52	44	45	39	40
9.15	44	47	39	41	35	37

Bogie SWD 592

Tire Size	— 11.00-24 —					
Axle Ratios	TRD 720, TRDX 720	TRQ 7210	TR 720 & B-L 8031 C	TR 720 & B-L 8031 G	TR 72 & B-L 8031 C	TR 72 & B-L 8031 G
8.27	44	49	58	52	45	40
9.10	40	45	53	47	41	37
10.11	36	41	47	42	37	33

To determine if a geared speed is actually attainable (loaded to rated capacity) refer to the GRADE ABILITY chart in the PERFORMANCE section at the rear of this book. Complete Geared Miles Per Hour data is located in the PERFORMANCE section.