



B-42S & B-422S



SIX-WHEEL · GASOLINE POWERED · TRUCKS

MAXIMUM ECONOMY, superior performance and large load capacity are valuable attributes of these six-wheeled, four wheel drive chassis. Power is supplied by either a Mack built 401 cubic inch Magnadyne engine in B-42S or a 438 cubic inch Thermodyne engine in B-422S.

PERFECTLY DESIGNED for conventional loading conditions with dump bodies and concrete mixer machines, these chassis provide planned optional variations which make them ideal for mounting the newly designed load-forward mixers. For this adaptation, higher capacity front axles are available to compensate for heavier front end loading and automatically includes larger steering, brake and spring equipment.

DRIVER COMFORT and convenience is assured by the all-metal De-Luxe cab featuring a fully-adjustable driver's seat, exceptional visibility, adequate ventilation and convenient arrangement of instruments and controls.

THE RUGGEDLY constructed chassis frame has been designed to meet the rigors of on-highway and off-highway operation. Main rails including the inside channel reinforcements are of heat treated alloy steel. The famous Mack bogie suspension with Dual Reduction carriers and Power Divider between the two axles results in outstanding tractive-ability and long trouble-free service.

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MODELS B-42S & B-422S

STANDARD EQUIPMENT

Condensed Specifications

WHEELBASE — 170½", Platform — 144"

ENGINE, (Gasoline):	B-42S	B-422S
Model	EN 402	EN 438
Make	Magnadyne	Thermodyne
Make	Mack	Mack
Number of cylinders	Six	Six
Bore and stroke (inches)	4½ x 5½	4½ x 5
Piston displacement, cu. in.	401	438
Brake horsepower	150	160
@ gov. r.p.m.	2800	2600
Max. torque @ r.p.m.	1400	1400
Pound-feet	330	355
Lube oil cooler	Tube	—
Lube Oil Filter (2 qts.)	By-pass type	—

CLUTCH:	B-42S	B-422S
Model	CL 472	CL 401
Vibrasorb clutch plate	—	Mack
Type	Single-plate, dry	—
Outside dia. facing	13½"	13½"
Area of engagement, sq. in.	202	220

FUEL SYSTEM:	B-42S	B-422S
Carburetor	Zenith, dual downdraft	Zenith, updraft
Governor	Pierce	—
Air cleaner	Donaldson, oil bath	—
Tank capacity & location	22 gal., left apron	—

COOLING SYSTEM:	B-42S	B-422S
Radiator, type	Continuous-finned, flat tube	—
Frontal area, sq. in.	560	—
Thermostat, to open	170°	—
Water capacity of system	34 quarts (B-42S)	46 quarts (B-422S)

ELECTRIC SYSTEM:	B-42S	B-422S
Voltage and capacity	12V., 30 Amp.	—
Generator, make	Delco-Remy	—
Starting motor, make	Delco-Remy	—
Battery, make	Exide, Willard or Auto-Lite	—
Plates per cell	13	—
Amp. hr. @ 20 hr. rate	90	—
Number required	One (12V)	—
Location	Right apron	—

TRANSMISSION: (Mack)	B-42S	B-422S
Model	TR 771	—
Type	Five-speed, direct	—
Ratios, 1st 1.00; 4th 1.51; 3rd 2.05; 2nd 3.83; 1st 7.08; Rev., 7.15.	—	—

DRIVESHAFTS:	B-42S	B-422S
Tube	3½", 0.156" wall	—
Joints	Yoke type	—
Make & size	Spicer, 1600	—

FRONT AXLE: (Mack)	B-42S	B-422S
Model	FA 505	—
Type	Reversed Elliott, I-beam	—

BOGIE: (Mack)	B-42S	B-422S
Model	SWD 57	—
Bogie wheelbase	50"	—
Drive	Four-wheel, straight through	—
Inter-axle differential	Mack concentric cam and plunger type	—
Housing, construction	Pressed steel, fused	—
Trunnion bearing	Rubber bushing	—
Carriers	CRDP 92-CRFS 93	—
*Ratios: B-42S	6.34, 7.00, 7.49, 8.24, 9.15	—
B-422S	5.73, 6.34, 7.00, 7.49, 8.24	—

*Ratios 9.15, 8.24 or 7.49 recommended for Dumpers & Mixers.

BRAKES, Air:	B-42S	B-422S
Size—Dia., width, lining thickness & lining area (sq. in.)	—	—
Front	16¼" x 5" x ¼" (204)	—
Rear	16¼" x 6" x ¼" (828)	—
Hand	10" x 3" x ¼" (85)	—
Compressor	Tu-Flo 400 (7¼ cu. ft.)	—
Reservoir capacity	3090 cu. in. (total)	—

FRAME:	B-42S	B-422S
Material	Chrome-manganese steel, heat-treated	—
Side-members, size	9" x 3¼" x ¼"	—
Section modulus	9.76	—
No. of cross-members & type	One I-beam, two channel	—

SPRINGS:	B-42S	B-422S
Front, type	Semi-elliptic	—
Size, length	46"	—
width	3"	—
Leaf thickness	0.360" (10 leaves)	—
Rear, type	Semi-elliptic (inverted)	—
Size, length	50½"	—
width	4"	—
Leaf thickness	0.788" (10 leaves)	—
Shot-peening	Tension side of main; 2nd & 3rd leaves	—
Suspension, Front	Rubber Shock	—
	Insulators, front end; fixed pin, rear end	—
Rear	Rubber Shock	—
	Insulators	—

SHOCK ABSORBERS FRONT:	B-42S	B-422S
Type	Houdaille, rotary-hydraulic	—

TIRES:	B-42S	B-422S
Size	10.00-20 (12P)	—
Rims	7.5	—

WHEELS:	B-42S	B-422S
Type	Cast, spoke	—

STEERING GEAR:	B-42S	B-422S
Model	SG 23	—
Type	Worm and roller	—
Ratio	24.4 to 1	—
Steering wheel, diameter	22"	—

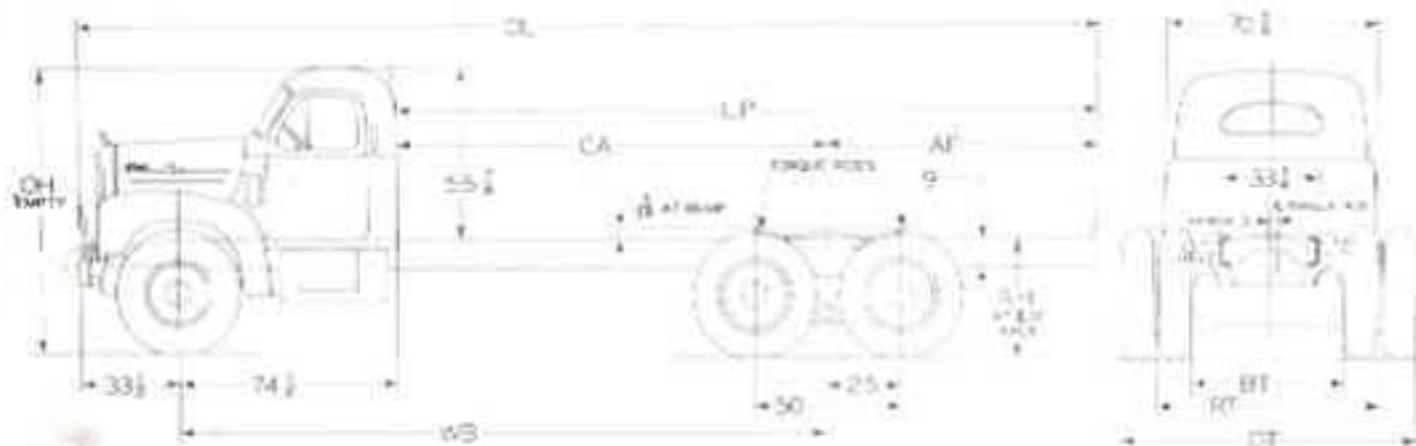
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CHASSIS DIAGRAM



WB	LP	CA	AF	OL	Turning Circle Dia 10 in. edge of front axle	
					Left	Right
170 1/2	144	95	48	252	59 ft.	55 ft.
170 1/2	166	95	72	276	59 ft.	55 ft.
182 1/2	168	108	60	276	63 ft.	59 ft.
194 1/2	168	120	48	276	67 ft.	63 ft.
194 1/2	194	120	74	302	67 ft.	63 ft.
222 1/2	240	148	92	348	77 ft.	72 ft.

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

TIRE SIZE	OH	Axle Clearance			BT	OT	RT	BT
		Front	Rear (bowf)	Empty				
10.00-20	94 1/2	10	8 1/2	40 1/2	39 1/2	95 1/2	71 1/2	47 1/2
10.00-22	95 1/2	10 1/2	9 1/2	41 1/2	40 1/2	95 1/2	71 1/2	47 1/2
11.00-20	95 1/2	10 1/2	8 1/2	41 1/2	39 1/2	96	71 1/2	46 1/2
11.00-22	99 1/2	11 1/2	Available Front Only (FA 601)					
12.00-20	99 1/2	11	Available Front Only (FA 601)					

Frame heights are at rear axle and subject to variations: 2" empty, 1/2" loaded.

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