



# MODEL U-700ST SERIES

- AMPLE DIESEL POWER
- EXTRA ROOMY CAB INTERIOR
- VERTICAL ENGINE AND TILTING FRONT END FOR EASE OF MAINTENANCE
- QUALITY BUILT COMPONENTS

## STANDARD EQUIPMENT 6-Wheel Tractor (Based on Model U-795ST)

<b>WHEELBASE</b> .....	144" (LP 131"; CA 82")	<b>BOGIE: (MACK)</b> .....	<b>SWS 56C</b>
<b>ENGINE: (V-8 Maxidyne)</b> .....	<b>ENDT 865</b>	Carriers (Dual Reduction) .....	CRDPC 92 & CRD 93
Type .....	Turbocharged open chamber 90°V	Ratios ..	3.86, 4.17, 4.50, 4.76, 5.13, 5.73, 6.34, 7.00, 7.49
Bore and stroke .....	5¼" x 5"	<b>SPRINGS:</b>	Front                      Rear
Piston displacement, cu. in. ....	866	Size .....	54" x 3½"                      50" x 4"
Brake horsepower @ 2100 rpm .....	325	Leaves, no. & thickness	
Max. torque @ 1350 rpm .....	1100 lb. ft.	(Front left) .....	11 @ .360
Lube oil filter .....	Combination full-flow, by-pass	(Front right) .....	12 @ .323                      8 @ 0.625
Air cleaner .....	Dry type	<b>BRAKES:</b> Type .....	Air
Radiator frontal area .....	1,240 sq. in.	Front (Cam type) .....	16¼" x 3" (204 sq. in.)
Fuel pump .....	Multiple plunger	Rear (Cam type) .....	16½" x 7" (868 sq. in.)
<b>FUEL TANK</b> .....	<b>50 gal.</b> , left side, steel, rect., two step	Auxiliary .....	Spring loaded type
<b>ELECTRICAL SYSTEM:</b> Generator .....	<b>12 Volt, 55 Amp.</b>	<b>WHEELS &amp; TIRES:</b> .....	Cast, spoke; <b>10:00-20 (12P)</b>
Starting system .....	12 Volt	<b>STEERING GEAR:</b> Model .....	<b>SG 46</b>
Batteries (group 4H) .....	(2) 6 Volt	Steering wheel diameter .....	22"
Plates per cell 23; Amp hr. @ 20 hr. rate .....	165	Ratio .....	28.14:1
<b>CLUTCH: (MACK)</b> .....	<b>CL 75</b>	<b>FRAME:</b> Size .....	<b>9" x 3¼" x ¼"</b>
Type .....	2 plate, dry, 14" O.D.	Material .....	Heat-treated 110,000 PSI
Area of engagement .....	144 sq. in.	Section Modulus .....	9.76
<b>TRANSMISSION: (MACK)</b> .....	TRL1078 (w/clutch brake)	Resisting bending moment ..	1,070,000 in. lbs. per rail
Type .....	5-spd., direct	<b>CAB: (MACK)</b> .....	<b>CA 361</b> (Incl. rider seat)
<b>DRIVESHAFT:</b>		Type (98" BBC) .....	Off-set, two-man
Make .....	Rockwell—Standard	<b>STANDARD CHASSIS WEIGHT (LBS.) EST.:</b>	
<b>FRONT AXLE: (MACK)</b> .....	<b>FA534C</b>	Front 6,980; Rear 6,906; Total 13,886	

### CHASSIS EQUIPMENT

Air intake system, outside—underhood  
Automatic back-up light switch  
Automatic reset circuit breakers  
Bumper, extended  
Cab heater, 37,500 BTU  
Cab roof vent, two-way  
Combination stop tail & rear turn signal  
Headlights  
Hood and fenders, unitized fiberglass (tilts forward)

Horn, electric, single tone  
I.C.C. and Marker lights  
Low air pressure indicator, buzzer  
Rear view mirrors, two, West Coast type (black enamel finish)  
Seat belts  
Side reflectors  
Steering column, adjustable  
Sun visor left side

Tachometer, single hand type  
Tow hooks, front  
Turn signals, front (with 4-way flasher)  
Underframe exhaust  
Voltmeter  
Wheel wrench and handle  
Windshield glass, Solex  
Windshield washers  
Windshield wipers, air, dual, single motor

**MACK TRUCKS, INC.**

ONE OF THE SIGNAL COMPANIES 

# OPTIONAL EQUIPMENT

# U-700ST SERIES

<b>ENGINE:</b>	<b>ENDDT 865</b>	<b>ENDT 866</b>
Chassis Model	U-795ST	U-797ST
Bore & Stroke	5 1/4" x 5"	5 1/4" x 5"
No. of Cyl.	8	8
Disp. Cu. In.	866	866
BHP @ RPM	285 @ 1900	375 @ 2200
Max. Torque @ RPM	965 @ 1400	1040 @ 1600

**WHEELBASE** ..... 147"

**CLUTCH: (MACK)**

- CL 721 (U-795ST only) "Dynamax" 4-plate 578 sq. in.
- CL 75 (U-797ST only) 14", 2-plate, 144 sq. in.
- \*CL 74 (U-797ST only) 15 1/2", 2-plate, 118.4 sq. in.
- \*CL 74 required when GCW exceeds 150,000

**FRONT AXLE:**

- Model ..... FA 534W
  - Model ..... FA 535C-W
  - Model ..... FA 532C-W & SG261
  - Model ..... FA 534N (No Brakes)\*
  - Model ..... FA 535N (No Brakes)\*
  - Model ..... FA 532N & SG 261 (No. Brakes)\*
- \*Customer responsibility

**POWER STEERING:**

- FA 534, FA 535 Series ..... SGP 48
- FA 532 Series ..... SGP 48

**TRANSMISSIONS:**

- TRDL 107 (U-797ST only) ..... 10 spd.

Bogie	Carriers	Power Divider	Brake
SWS 56W	CRDPC 92 & CRD 93	Inter-Axle	15" x 7"
SWS 57C	CRDPC 92 & CRD 93	Inter-Axle	16 1/2" x 7"
SWS 57W	CRDPC 92 & CRD 93	Inter-Axle	15" x 7"
SWS 573C	CRDPC 92 & CRD 93	Inter-Axle	16 1/2" x 7"
SWS 573W	CRDPC 92 & CRD 93	Inter-Axle	15" x 7"
SWS 571C	CRDPC 92 & CRD 93	Inter-Axle	16 1/2" x 7"

Wedge brakes include automatic adjustment and four fail-safe auxiliary brake units per bogie.

Cam brakes include four auxiliary brakes per bogie.

Note: Carriers and Ratios for all above bogies are same as standard.

**WHEELS & TIRES:**

- Disc ..... Hi Tensile (7.5 rims); steel (8.0 to 14.0 rims)
- Tires & Rims ..... 10.00 x 22 (12) 7.5, 11.00 x 20 (12) 8.0; 11.00-22 (12) 8.0; 11-22.5, 7.5; 11-24.5, 7.5; 12-22.5, 8.25; 12-24.5, 8.25.

**FRAME:** Partial or Full

- Reinforcement ..... 1/4" Inside channel
- Section Modulus ..... 17.7
- Resisting bending movement ..... 1,590 in. lbs. per rail

**FUEL TANK**

The following in place of STANDARD:

- 50 gal., left side, alum., rect., two step
- 65 gal., left side, alum., rect., two step
- 65 gal., left side, steel, rect., two step
- 80 gal., left side, alum., rect., two step
- 80 gal., left side, steel, rect., two step
- The following in addition to STANDARD or above options.
- 55 gal., right side, steel, rect., step
- 55 gal., right side, alum., rect., step
- \*85 gal., right side, alum., rect., step
- \*85 gal., right side, alum., rect., step
- \*Available with 147" W.B. and 50" Bogie spacing only.

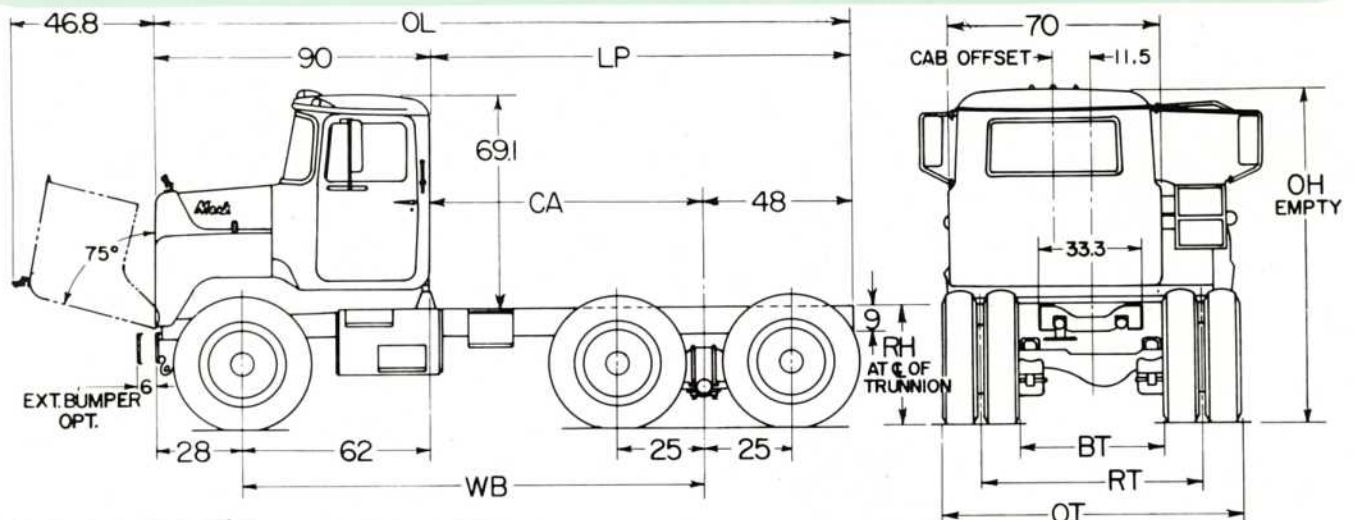
## CHASSIS EQUIPMENT

- Air reservoir, isolated for spring-loaded brakes
- Automatic drain valve
- Automatic radiator shutters
- Bogie spacing 55"
- Brake, alcohol evaporator
- Break-away safety valve
- Bumper—flush Alum. (unitized front end)
- Cab air conditioning
- Chrome plated turn signals
- Chrome plated W.C. rear view mirrors
- Crank shaft adaptor for front end mixer drive

- Driver's seat—Bostrom, Viking T-bar or West Coaster; General #107; American Metal, Unison Action
- Electric window lift, right side
- Flywheel power take-off
- Front wheel brake limiting valve
- Hand control valve
- Hood—steel butterfly and flat fenders
- Horn, air, twin or single
- Horn, electric, dual tone
- Hubodometer

- Hydraulic jack, 8- or 12-ton
- Power steering
- Radiator guard, plate type
- Reflectors, one each side, cab rear
- Riders seat (cab step right side incl.)
- Shock absorbers, front
- Sun visor, right side
- Tow shackles, flush bumper only
- Trailer conn.—full
- Turn signals, rear (loose)
- Wig-wag low air pressure indicator

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



WB	LP	CA	OL	Turning circle (Outer edge of Tire) Est.	
				Right	Left
144	131	82	220	50 ft.	50 ft.
147	134	85	223	56 ft.	56 ft.

U-795ST-U-795LST							
Tire Size	OH	RH		Front Tread	OT	RT	BT
	Approx.	Empty	Loaded		Spoke Wheels		
10.00-20	108.2	39.8	37.9	76.9	95.3	71.4	47.5
10.00-22	109.2	40.7	38.8	76.9	95.3	71.4	47.5