

*Truck Crane Booming (Typical)*

TM 0000063



## CARRIER DESCRIPTION

### GENERAL

The following paragraphs describe the American Model 8460, 165 ton, 265 inch wheelbase, 8 x 4 carrier.

### Power Train

#### Engine

Two engines are available for use on the carrier:

Detroit Diesel (GM) 8V-71-N Model No. 7087-7040 diesel engine, 8 cylinder, 4-1/4 inch bore by 5 inch stroke, 568 cu. in. displacement, rated 318 HP at 2100 RPM.

Optional engine - Cummings NTC-350 diesel engine, 6 cylinder, 5-1/2 inch bore by 6 inch stroke, 855 cu. in. displacement, rated 350 HP at 2100 RPM.

#### Clutch

Spicer AS 1402, two plate, dry type, angle spring clutch hydraulically actuated.

#### Transmission, Main

Fuller Model T955ALL modified to give 5+1 speeds forward and 1+1 reverse.

#### Ratios:

Low .....	26.54:1	Fourth .....	1.16:1
First .....	6.35:1	Fifth .....	1.00:1
Second .....	3.75:1	Reverse .....	6.48:1
Third .....	2.04:1	Reverse Low .....	27.09:1

#### Transmission, Auxiliary

Spicer Model 1241C, four speed.

#### Ratios:

First .....	2.37:1
Second .....	1.24:1
Third .....	1.00:1
Fourth .....	0.81:1

#### Propel Shaft

Spicer 1710 Series and 1810 Series.

#### Rear Axles

Clark planetary 91000 tandem assembly, non-spin differential on leading axle; ratio 9:00:1.

#### Front Axles

Shuler FTCA-34-L-30 tandem. Highway capacity 48,000 lbs.

#### Running Gear

#### Suspension

Hendrickson solid mount with rubber bushed torque rods front and rear.

#### Service Brakes

Air on all wheels with 14.5 CFM air compressor and two reservoirs; lining area 20" x 7" (1000 sq. in.) rear; 17-1/2" x 4" (495 sq. in.) front; 1495 sq. in. total lining area.

#### Emergency Brakes

Spring set, air release system on both rear axles with operator's control on dash panel; air reservoir for release of spring set chambers.

#### Wheels

Cast spoke front; rear integrally cast with axles; 10.00 x 24 rims.

#### Tires

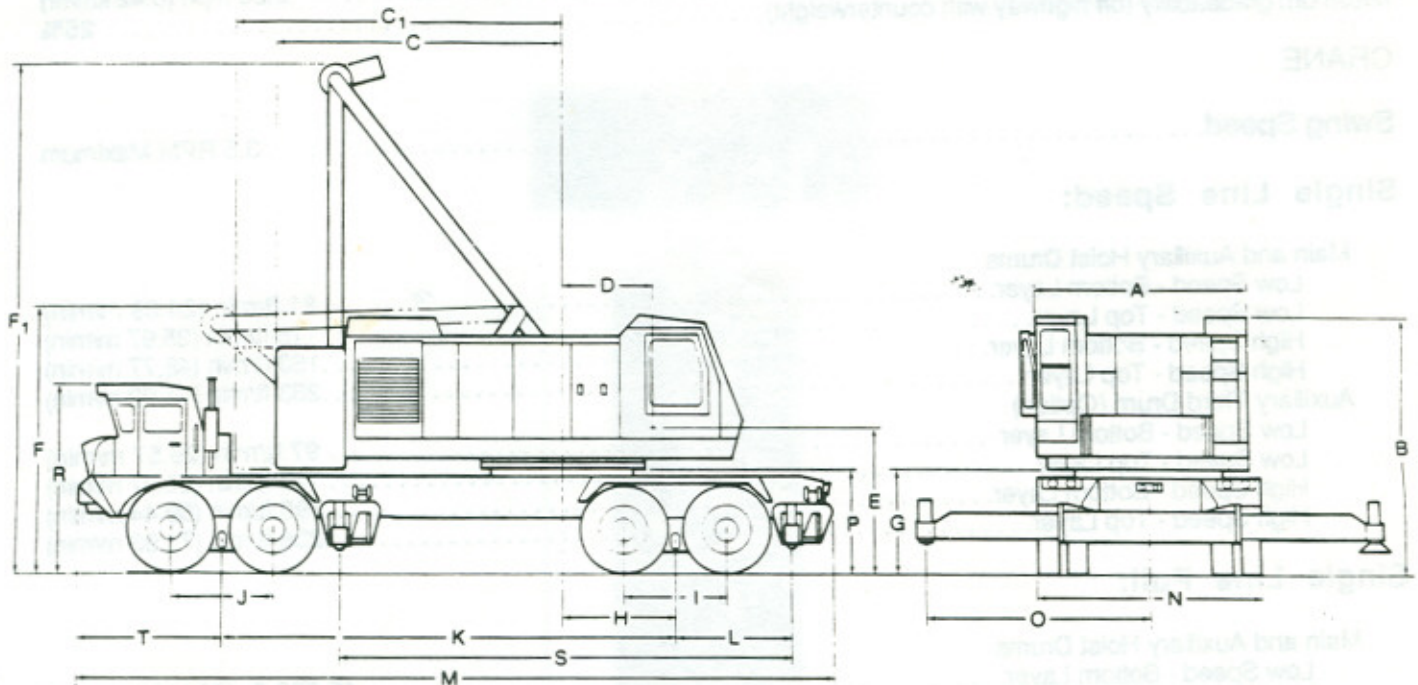
Michelin 14:00 x 24XRB—Three Star.

#### Hydraulic Outriggers

Two independent housings fabricated from 100,000 PSI yield steel; outrigger beams with horizontal and vertical hydraulic movements; automatic check and manual shutoff valves in hydraulic jacks to assure maximum safety for all lifts; hardened chromed plated rams, fitted with 42" dia. spun high strength steel floats, pin connected and removable; maximum stroke of vertical jacks is 12 inches; maximum lift under floats is 7 inches; outrigger controls for RH outriggers on RH side of carrier and controls for LH outriggers on LH side.



## GENERAL DIMENSIONS (8460)



A.	Width of cab	10' 4" (3.15 m)	K.	Centerline of rear bogie to centerline of front bogie	22' 0" (6.71 m)
B.	Height to top of cab	13' 0" (3.96 m)	L.	Centerline of rear bogie to centerline of rear outrigger	6' 3-3/4" (1.92 m)
C.	Tailswing—ctwt. Retracted	14' 0" (4.26 m)	M.	Overall length	37' 1-3/4" (11.32 m)
C <sub>1</sub>	Tailswing—ctwt. Extended	16' 0" (4.88 m)	N.	Overall width	11' 0" (3.35 m)
D.	Centerline of rotation to centerline of boom foot	4' 6" (1.37 m)	O.	Outriggers extended	11' 0" (3.35 m)
E.	Ground to centerline boom foot	7' 2-3/4" (2.20 m)	P.	Height over mounting plate	5' 0-1/2" (1.54 m)
F.	Height over A-Frame (lowered)	13' 2" (4.01 m)	R.	Height over carrier cab	9' 4" (2.84 m)
F <sub>1</sub>	Height over A-Frame (raised)	25' 2" (7.68 m)	S.	Centerline of rear outrigger to centerline of front outrigger	22' 0" (6.71 m)
G.	Ground to bottom of counterweight	5' 3-1/2" (1.61 m)	T.	Distance from front bogie to front bumper	7' 2-1/2" (2.20 m)
H.	Centerline of rotation to centerline of rear bogie	5' 6-1/4" (1.68 m)		Turning radius	65' 0" (19.81 m)
I.	Distance between rear axles	5' 0" (1.52 m)		Clearance (under rear equalizing beam)	7-1/2" (2.15 m)
J.	Distance between front axles	5' 0" (1.52 m)		Clearance (under rear differential)	12" (3.66 m)

General Dimensions (8460)

TM 0000105



**PERFORMANCE**

**CARRIER**

Maximum governed speed..... 45 mph (72.4 km/hr)  
 Minimum speed (1000 RPM)..... 0.26 mph (0.42 km/hr)  
 Maximum gradeability (off highway with counterweight)..... 25%

**CRANE**

**Swing Speed**..... 3.5 RPM Maximum

**Single Line Speed:**

Main and Auxiliary Hoist Drums  
 Low Speed - Bottom Layer..... 81 ft/min (24.69 m/min)  
 Low Speed - Top Layer..... 118 ft/min (35.97 m/min)  
 High Speed - Bottom Layer..... 160 ft/min (48.77 m/min)  
 High Speed - Top Layer..... 233 ft/min (71.02 m/min)  
 Auxiliary Third Drum (Option)  
 Low Speed - Bottom Layer..... 97 ft/min (29.57 m/min)  
 Low Speed - Top Layer..... 119 ft/min (36.27 m/min)  
 High Speed - Bottom Layer..... 195 ft/min (59.44 m/min)  
 High Speed - Top Layer..... 236 ft/min (71.93 m/min)

**Single Line Pull:**

Main and Auxiliary Hoist Drums  
 Low Speed - Bottom Layer..... 45,000 lb (20412 kg) SLP  
 Low Speed - Top Layer..... 30,000 lb (13608 kg) SLP  
 High Speed - Bottom Layer..... 22,500 lb (10206 kg) SLP  
 High Speed - Top Layer..... 15,000 lb ( 6804 kg) SLP  
 Auxiliary Third Drum (Option)  
 Low Speed - Bottom Layer..... 37,300 lb (16919 kg) SLP  
 Low Speed - Top Layer..... 29,600 lb (13426 kg) SLP  
 High Speed - Bottom Layer..... 18,650 lb ( 8460 kg) SLP  
 High Speed - Top Layer..... 14,800 lb ( 6713 kg) SLP

**Boom Speed:**

Time to raise 50' (15.24m) boom from ground to minimum radius..... 1.9 minutes  
 Time to lower 50' (15.24m) boom from minimum radius to ground..... 1.67 minutes

**NOTE**

*In accordance with varying material situations, and the Company's policy of constant product improvement, these specifications subject to change without notice and without incurring responsibility to units previously sold.*