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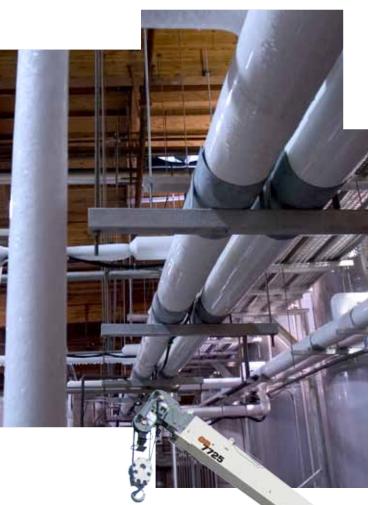
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# Shuttlelift CD7725 **Product Guide**

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ARABIAN CRAN





### **Features**

- 22 t (25 USt) capacity
- 21,6 m (71 ft) four-section full power boom
- 13,6 t (15 USt) deck carrying capacity
- Tilt steering wheel
- Load sensing piston hydraulic pump
- Proportional hydraulic controls

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## Features

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### The reach and capacity to get the job done

A 5,1 m (17 ft) swingaway extension added to the 21,6 m (71 ft) main boom provides an impressive 28,9 m (95 ft) tip height with a capacity of 2268 kg (5000 lb). A galvanized down-haul ball is included with the extension.

### Split door design

The "new" split door design, offered with the optional enclosed cab, allows for the top half to be left open while keeping the bottom half closed for safety.





### Hook block

A galvanized coated hook block is provided as standard to help eliminate rusting of this important crane component.



### **Operator cab**

Hydraulic proportional joystick controls, automotive dash layout, tilt steering wheel, and suspension seat enhances operator comfort and ease of use.

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## Specifications

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#### Superstructure

#### Boom

7,21 m - 21,6 m (23 ft 8 in - 71 ft) full power main boom. Four-section boom with three (3) powered sections.

Maximum tip height: 24,0 m (79 ft).

### \*Offsettable swingaway extension

5,1 m (17 ft) offsettable swingaway extension. Offsets 0°,15°, and 30° via pivoting boom nose. Stows alongside base boom section.

Maximum tip height: 28,9 m (95 ft).

### Boom nose

Two nickel plated steel sheaves mounted on heavy duty tapered roller bearings with removable pin-type rope guards. Quick reeve type boom nose with four-position  $(0^\circ, +30^\circ, +60^\circ, \text{ and } + 80^\circ)$  pivoting to minimize head height requirements. Lowers head height by 0,6 m (2 ft).



#### **Boom elevation**

Two double acting hydraulic cylinders with integral holding valves provides elevation from -0° to +80°.



#### Anti-two block device

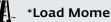
Standard anti-two block device, which, when activated, provides an audible warning to the operator and "locks-out" all functions whose movement can cause two-blocking.



#### Load indicator (LSI)

A simple effective and easy to use load indicating system used in conjunction with the anti-two block system to assist the operator in efficient operation of the unit within the limits of the load chart. The display panel displays the hook load and cuts-out the telescope and boom lift down function when a load limit is exceeded. The warning is by a flashing light on the display panel. In conjunction with the load display panel (receiver) there is a wireless transmitter and load sensing pin attached to the boom head that transmits the hook load to the display panel.

(wireless system)



#### \*Load Moment Indicator (LMI)

"Graphics Display" of boom angle, boom length, boom radius, capacity, and allows for operator input to set the limit parameters based on the load chart. Displays color coded light bar and audible alarm with function cut-out if load exceeds the load chart parameters.

(hardwired system)



Ball bearing swing circle with 360° continuous rotation. Hydraulic motor driven pinion with brake. Maximum speed: 2.5 rpm

### Hydraulic system

One pressure compensated variable displacement axial piston pump with load sensing combined with two (2) gear pumps.

Maximum output of: 238 LPM (79 GPM).

Maximum operating pressure: 248 bars (3600 psi).

Six section valve bank, chassis mounted, operated via dash mounted, pilot pressure hydraulic joysticks. 227 L (60 gal) hydraulic reservoir with sight level gauge and steel side plating to guard against side impacts. 10 micron return line filter with full flow by-pass protection and service indicator.

#### Hoist specifications

Piston motor driven with automatic spring applied / hydraulically released wet brake.

Maximum hoist pull (first layer): 6804 kg (15,000 lb)

Maximum permissible single line pull: 5670 kg (12,500 lb) (3.5:1 design factor)

Maximum single line speed: 61 m/min (200 fpm)

Rope construction: 6X19 XIPS/IWRC

Rope diameter: 16 mm (5/8 in)

Rope length: Main hoist: 119 m (390 ft)

Maximum rope stowage: Main hoist: 151 m (495 ft)



Transmission

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Powershift with four speeds forward and reverse. Stalk mounted direction shifter with rotary gear selection.

**Operators control station** 

Frame mounted, open air style control station with cab shell includes all crane functions, driving controls,

and overhead safety glass. Other standard equipment includes a suspension seat with seat belt, hourmeter,

sight level bubble, and 2.5 lb (1.1 kg) fire extinguisher.

The dash panel includes a multi-cluster gauge showing

voltage. An engine monitoring indicator strip shows engine warning, stop engine, transmission low pressure,

transmission high temperature, and low brake system

Includes the standard cab shell with the addition of

door with sliding glass, front windshield wiper and

front, rear, and right side glass, a split (2 piece) hinged

pressure. The load indicator receiver is mounted to the

\*Operators control station enclosed

fuel, water temperature, oil pressure, and battery

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# **Specifications**

#### Carrier



High strength alloy frame constructed with integral outrigger housings; front and rear lifting, tie-down, and towing lugs. 60 ft<sup>2</sup> carrydeck size with 13 608 kg (30,000 lb) deck only carrying capacity. Deck coated with anti-skid treatment.

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## - Outriggers

Two-stage hydraulic telescoping beam with vertical jack at the four corners provides extended and down and retracted and down lifting capacities. Integral holding valves on both beam and jack cylinders.

Outrigger pad size:

29,2 cm x 29,2 cm (11.5 in x 11.5 in)

Maximum outrigger pad load: 20 321 kg (44,800 lb) / 339 p.s.i.

### Outrigger controls

Independent outrigger control rocker switches for beam or jack selection with separate extend/retract rocker switch. 360° bubble level located inside cab.



### Engine (Tier IV)

Cummins QSB 4.5 L, four cylinders, turbo-charged diesel rated at 974 kW (130 hp) at 2500 rpm. Standard 110V engine block heater and cold weather intake grid heater.

Diesel Oxidation/Catalyst, stainless steel, muffler to meet 2012 EPA emissions, combined with a Cummins direct air flow, 2 stage cyclonic air filter system. Maximum torque: 620 N-m (457 ft lb) at 1500 rpm.

Note: Tier IV engine Required in North American and European Union countries.



#### Engine (Tier III)

Cummins QSB 4.5L, four cylinders / turbo-charged diesel rated at 974 kW (130 bhp) (Gross) at 2500 rpm. Standard 110V engine block heater and cold weather "ether" assist system. Engine hour meter located inside operators compartment.

Maximum torque: 370 N-m (273 ft lb) at 2500 rpm.

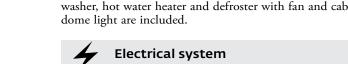
Note: Required for sale outside of North American and European Union countries



Fuel tank capacity

189 L (50 gal)

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### Electrical system

Two 12V maintenance-free batteries, 820CCA at 0°. 63 amp alternator.

Drive **|-**●-|

top of the dash panel.

2 wheel (rear drive) or 4 wheel selection, front and rear axle drive with planetary hubs and limited slip differential.



Standard three steering modes. Front two wheel, four-wheel coordinated, and four-wheel crab steer with electronic self alignment, three-position rocker selector on dash panel.

Outside turning radius: Two-wheel steer: 7,32 m (24 ft) Four-wheel steer: 4,04 m (13 ft 3 in)

#### \*Denotes optional equipment

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## Specifications

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Carrier continued



#### Suspension/axles

Front: Drive/steer with differential and planetary reduction hubs, axle is rigid mounted to frame. Rear: Drive/steer with differential and planetary reduction hubs, axle is pivot mounted to frame allows up to 3.5° of oscillation.



#### **Oscillation lockouts**

Manual switch to engage and disengage the rear axle lockouts. Engage when lifting on rubber and in crab steer mode, Disengage to allow oscillation when traveling over rough terrain.



Hydraulic actuated internal wet-disc service brake acting on all four wheels. Dash mounted toggle switch with light for activating or release of the dry disc parking brake mounted on the transmission output yoke.

### Tires

Standard: 17.5 x 25 Bias Optional: 17.5R25 radials

Lights

Full lighting including turn indicators, head, tail, brake and hazard warning lights recessed mounted.

### Maximum speed

31,3 km/h (19.5 mph)



#### Gradeability (theoretical)

63%..... (at engine stall) NO LOAD 38%.....(at engine stall) with 13 608 kg (30,000 lb) DECK LOAD

#### Gross vehicle weight (G.V.W.)

**Open cab:** 20 249 kg (44,640 lb) Enclosed cab: 20 354 kg (44,873 lb)

#### Miscellaneous standard equipment

22 t (25 USt) Two sheave "galvanize coated" hook block, with "Quick Reeve". Back-up motion alarm Outrigger motion alarm Dual rear-view mirrors

#### **\*Optional equipment**

- AUXILIARY LIGHTING: includes cab mounted amber flashing light, dual base boom mounted floodlights
- CONVENIENCE PACKAGE: includes front and rear pintle hitch and headlight/taillight grille covers
- ENCLOSED CAB PACKAGE: includes heater and defroster, cab dome light, all window glass, and two piece split door
- 5,2 m (17 ft) fixed extension
- Air conditioner
- Catalytic convertor
- Hoist drum rotation indicator
- Wire rope 3rd wrap indicator with hoist function cut-out
- 3629 kg (8000 lb) below deck mounted tow winch
- Foam filled tires

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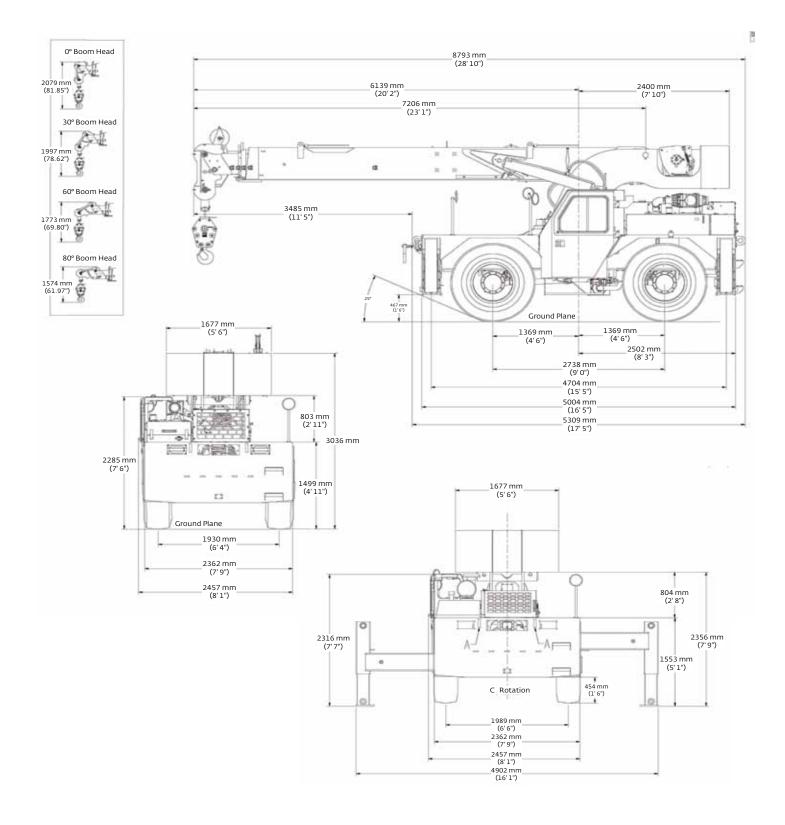
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# Dimensions



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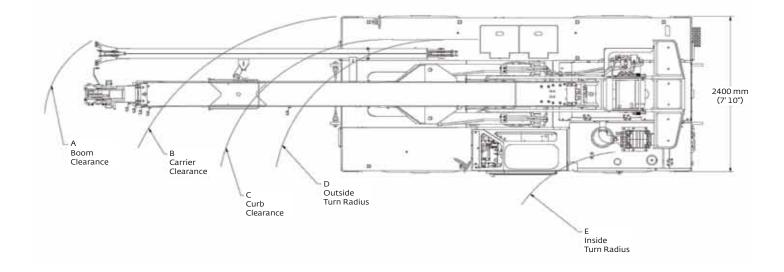
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# Dimensions

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Dimensions									
	Tire size	А	В	с	D	E			
2-wheel	17.5 x 25	19 568 mm	16 093.4 mm	15 240 mm	14 600 mm	9326.9 mm			
steer	17.5 X 25	(770.4 in)	(633.6 in)	(600 in)	(574.8 in)	(367.2 in)			
4-wheel	17.5 x 25	14203.7 mm	9936.5 mm	9083 mm	8168.6 mm	3779.52 mm			
steer	17.5 X 25	(559.2 in)	(391.2 in)	(357.6 in)	(321.6 in)	(149 in)			



Weights						
	G۱	/W	Fro	ont	Rear	
	kg	(Ib)	kg	(Ib)	kg	(Ib)
<b>Basic machine:</b> Including 21,6 m (71 ft) main boom, main hoist with 119 m (390 ft) of wire rope, 22,6 t (25 USt) hookblock, full counterweight, Tier IV engine	20 249	(44,640)	9 904	(21,834)	10 345	(22,806)
Add: 5,1 m (17 ft) fixed swingaway extension and extension carrier brackets and downhaul weight	208	(458)	406	(896)	-199	(-438)
Crane weight	20 456	(45,098)	10 310	(22,730)	10 146	(22,368)
<b>Basic machine:</b> Including 21,6 m (71 ft) main boom, main hoist with 119 m (390 ft) of wire rope, 22,6 t (25 USt) hookblock, full counterweight, Tier IV engine	20 249	(44,640)	9 904	(21,834)	10 345	(22,806)
Add: Enclosed cab with heater and defroster	106	(233)	104	(104)	129	(129)
Crane weight	20 354	(44,873)	9 951	(21,938)	10 403	(22,935)

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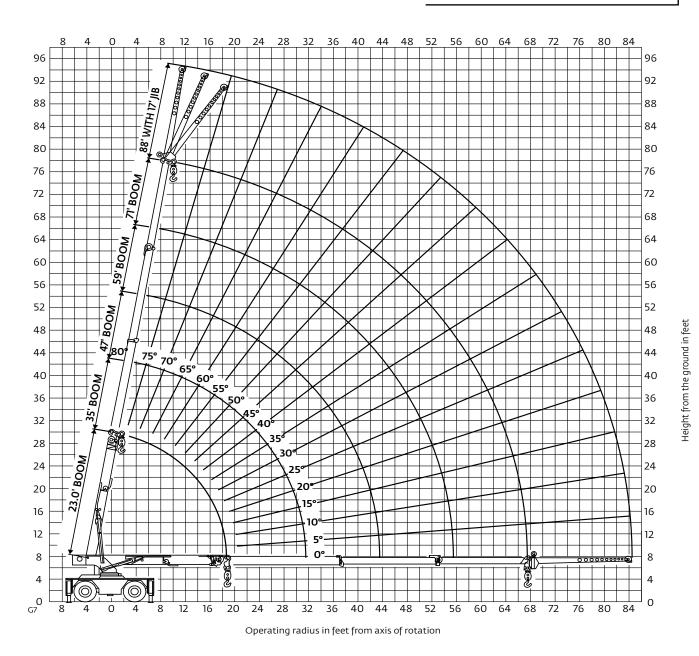
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# Range diagram



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## Load chart

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	MAIN BOOM LOAD RATINGS ON OUTRIGGERS						MAIN BOOM LOAD RATINGS ON OUTRIGGERS														
	Ext	Extended and Down 360° or Retracted and Down Front/Rear Retracted and Down 360°																			
	23.0 ft	t Boom	35.0 f	t Boom	47.0 f	t Boom	59.0 f	t Boom	71.0 f	t Boom		23.0 f	t Boom	35.0 f	t Boom	47.0 f	t Boom	59.0 f	t Boom	71.0 ft	Boom
	Boom	Rated	Boom	Rated	Boom	Rated	Boom	Rated	Boom	Rated		Boom	Rated	Boom	Rated	Boom	Rated	Boom	Rated	Boom	Rated
Radius	Angle		Angle	Load	Angle		Angle		Angle		Radius	Anale	Load	Angle		Angle		Angle	Load	Angle	
(ft)	(deg)	(Ib)	(deg)	(Ib)	(deg)	(Ib)	(deg)	(Ib)	(deg)	(Ib)	(ft)	(deg)	(Ib)	(deg)	(Ib)	(deg)	(Ib)	(deg)	(Ib)	(deg)	(Ib)
8.5	64.2	50,000	73.2	34,300	78.1	33,600					8.5	63.5	26,350	73	24,000	78	21,900				
10	59.8	38,793	70.6	34,500	76.2	33,017	79.7	27,800			10	59	20,800	70.5	19,300	76	17,900	79.5	16,650		
12	53.6	34,893	66.9	31,426	73.6	29,285	77.8	25,900			12	52.5	16,000	67	15,100	73.5	14,200	77.5	13,350		
14	46.8	31,256	63.2	28,464 26.076	71 68.3	26,357	75.8	24,100	78.7	18,200	14	45.5	12,300	63	12,250	71	11,600	75.5	11,000	79	10,500
16 18	38.8 28.7	26,699 23,186	59.2 55.1	26,076 23,496	68.3 65.6	24,016 22.096	73.7 71.7	22,400 20,792	77.1 75.4	16,750 15,500	16 18	37 26	9850 8070	59.5 55.5	10,150 8370	68.5 65.5	9710 8230	73.5 71.5	9280 7910	77	8870 7590
19.5	28.7	23,186	51.9	21.379	63.5	20,902	70.1	19,582	74.2	14,650	19.5	20	7090	52	7300	63.5	7330	70	7060	74	6810
22	_	21,044	46	18,471	59.9	18,629	67.4	17,872		13,400	22	_	/050	46.5	5900	60	6050	67.5	5900	72	5720
24	-	_	40.8	16,592	56.9	16,747	65	16.300	70.3	12,500	24	-	-	41.5	5040	57	5170	65	5150	70	5000
26	-	_	36	14,600	54	14,850	63	14,200	68.5	11,750	26	-	-	36	4330	54	4450	63	4520	68.5	4400
28	-	-	29	12,750	51	13,050	60.5	13,150	66.7	11,050	28	-	-	29	3740	51	3850	60.5	3930	66.5	3880
30	-	-	20	11,250	47.5	11,600	58.5	11,700	65.2	9800	30	-	-	20	3250	47.5	3340	58.5	3410	65	3420
31.5	-	-	0	10,300	45	10,650	56.5	10,750	63.9	9400	31.5	-	-	0	2910	45	3010	56.5	3080	63.5	3120
34	-	_	-	-	40	9350	53.5	9480	61.5	8850	34	-	-	-	-	40	2530	53.5	2590	61	2640
36 38	-	_	_	_	36 31	8460 7680	51 48.5	8590 7830	59.6 57	8400 7940	36	_	_	_	_	36	2200 1910	51 48.5	2260 1960	59 57	2310 2010
40		_	_		25	7000	46.5	7150	55	7940	40	_			_	25	1660	45.5	1700	55	1750
42	_	_	_	_	17.5	6400	42.5	6550	53	6680	42	_	_	_	_	17.5	1410	42.5	1470	53	1510
43.5		_	_	_	0	6000	40.5	6000	51.5	6270	43.5	_	_	_	_	0	1230	40.5	1310	51.5	1350
46	-	-	-	-	-	-	36	5440	48.5	5680	46	-	-	-	-	-	-	36	1070	48.5	1110
48	-	-	-	-	-	-	32.5	5040	46.5	5250	48	-	-	-	-	-	-	32.5	890	46.5	930
50	-	-	-	-	-	-	28	4680	44	4860	50	-	-	-	-	-	-	28	720	44	780
52	-	-	-	-	-	-	23	4350	41.5	4510	52	-	-	-	-	-	-	23	570	41.5	630
54 55.5	_	_	_	_	-	-	16	4040	38.5	4190	54	_	-	_	_	-	-	16 0	430	38.5	500
55.5	_	_	_	-	_	-	0	3820	36.5 32.5	3960 3620	55.5 58	_	_	_	_		-	0	330	36.5 32.5	410 270
60	_	_	_	_	_	_	_	_	29	3620	60	_	_	_	_			_	_	22.5	2/0
62		_	_	-	_	-	-	_	25	3130	62	_	_	_	_	-	_	-	_	-	_
64	-	-	-	-	-	-	-	-	20	2920	64	-	-	-	-	-	-	-	-	-	-
66	-	-	-	-	-	-	-	-	13	2720	66	-	-	-	-	-	-	-	-	-	-
67	-	-	-	-	-	-	-	-	0	2620	67				-	-	-	-	-	-	-

MAIN BOOM
ON RUBBER

NOTES:

	Any Boom Length						
Radius (ft)	Front Rating (Ib)	360° Rating (lb)					
$\begin{array}{c} & & & \\$	30,000 24,950 21,000 18,000 15,650 13,300 10,900 9460 8060 6960 6960 6960 6950 5300 4670 4130 3260 2900 2590 2300 2590 2300 2590 2300 2590 2300 2590 1840 1650 1480 1650 1480 1320 1840 1650 1840 1650 1840 1650 1840 1650 1840 1650 1840 1650 1950 2570	21,000 17,900 15,000 13,000 7920 6410 5780 4880 4140 3520 2990 2540 2160 1820 1530 1270 1040 830 720 610 500 390 280 - - - - - -					

JIB CAPACITY IS LIMITED BY BOTH STRUCTURAL CAPACITY CHART AND MAIN CAPACITY CHART.

SHADED AREAS ARE GOVERNED BY STRUCTURAL STRENGTH, DO NOT RELY ON TIPPING.

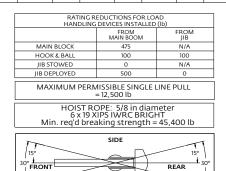
OPERATION OF THIS EQUIPMENT IN EXCESS OF RATING CHARTS AND DISREGARD OF INSTRUCTIONS IS DANGER-OUS AND VOIDS WARRANTY.

 The rated loads are the maximum lift capacities as determined by operating radius, boom length and boom angle. The operating radius is the horizontal distance from a projection of the axis of rotation to the supporting surface, before loading, to the center of vertical hoist line or tackle with load applied.

2) Rated load columns for discrete boom lengths apply when actual boom length is within +/- 1.0 ft of discrete length. When boom length or radius or both are between points listed on capacity chart, the smallest load shown at either the next larger radius or boom length shall be used.

3) For operating radius not shown, use load rating of next larger radius.

4) The rated loads shown on outriggers do not exceed 85% of actual tipping. The rated loads shown on rubber do not exceed 75% of actual tipping. These ratings are based on freely suspended loads with the crane leveled, standing on a firm, uniform supporting surface. Practical working loads depend on supporting surface, operating radius and other factors affecting stability. Hazardous surroundings, climatic conditions, experience of personnel and proper training must all be taken into account by the operator.



5) The weights of all load handling devices such as hooks, hook blocks, slings, etc., except the hoist rope, shall be considered part of the load. See reduction chart.

SIDE

6) Ratings on outriggers are for either outriggers fully extended and down or fully retracted and down. Ratings for outriggers fully retracted and down will apply for any intermediate outrigger setting.

7) Ratings on rubber depend on tire capacity, condition of tires and proper inflation pressure (110 psi). When replacing tires, contact Manitowoc for proper specifications. Loads on rubber may be transported at a maximum seed of 2.5 mph on a smooth, hard, level surface with boom retracted to the shortest length possible and centered over front. For 360° ratings on rubber, rear axle oscillation locks must be in place. Do not use jib with crane on rubber.

8) The maximum combined total boom and deck load is 20,000 lb. The maximum deck load only is 30,000 lb.

9) Do not induce any external side loads to boom or jib.

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THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

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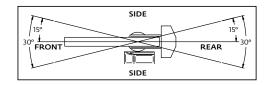
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## Load chart

17 ft JIB CAPACITY ON EXTENDED OUTRIGGERS (Ib)											
Main	Main Jib Offset Angle										
Boom	(	)°	1	15°							
Angle (deg)	To 55 ft Main Boom	Any Boom Length									
80	-	-	5000	5000	3500						
75	7500	-	4400	4400	3100						
70	6100		3900	3900	2800						
65	5000	4600	3500	3500	2550						
60	4300	3800	3150	3150	2350						
55	3800	3300	2850	2850	2200						
50	3400	2900	2600	2600	2100						
45	3050	2600	2400	2400	2000						
40	2800	2400	2250	2250	1950						
35	2600	2150	2150	2050	1900						
30	2400	1930	2080	1850	1830						
25	2300	1750	2050	1720	—						
20	2200	1600	2000	1590	-						
15	2100	1500	1950	1520	-						
10	2050	1460	_	-	-						
5	2020	1450	-	_	-						
0	2000	1440	_	-	-						



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2) Rated load columns for discrete boom lengths apply when actual boom length is within +/- 1.0 ft of discrete length. When boom length or radius or both are between points listed on capacity chart, the smallest load shown at either the next larger radius or boom length shall be used.

3) For operating radius not shown, use load rating of next larger radius.

4) The rated loads shown on outriggers do not exceed 85% of actual tipping. The rated loads shown on rubber do not exceed 75% of actual tipping. These ratings are based on freely suspended loads with the crane leveled, standing on a firm, uniform supporting surface. Practical working loads depend on supporting surface, operating radius and other factors affecting stability. Hazardous surroundings, climatic conditions, experience of personnel and proper training must all be taken into account by the operator.

5) The weights of all load handling devices such as hooks, hook blocks, slings, etc., except the hoist rope, shall be considered part of the load. See reduction chart.

6) Ratings on outriggers are for either outriggers fully extended and down or fully retracted and down. Ratings for outriggers fully retracted and down will apply for any intermediate outrigger setting.

7) Ratings on rubber depend on tire capacity, condition of tires and proper inflation pressure (110 psi). When replacing tires, contact Manitowoc for proper specifications. Loads on rubber may be transported at a maximum seed of 2.5 mph on a smooth, hard, level surface with boom retracted to the shortest length possible and centered over front. For 360° ratings on rubber, rear axle oscillation locks must be in place. Do not use jib with crane on rubber.

8) The maximum combined total boom and deck load is 20,000 lb. The maximum deck load only is 30,000 lb.

9) Do not induce any external side loads to boom or jib.

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THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE.
Shuttlelift CD7725 The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

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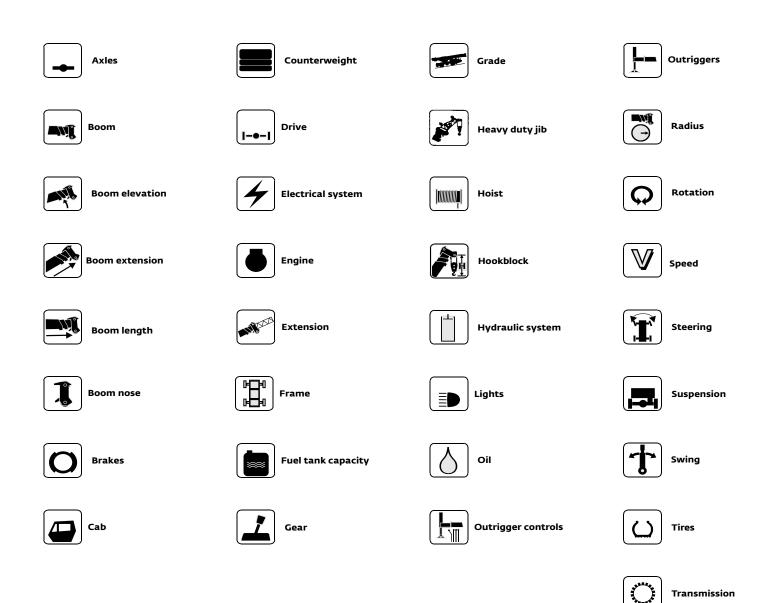
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## Notes

## Notes

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