

## BOOM TRUCK CRANE CROSSOVER 6000

**60T** capacity class

**DATASHEET - IMPERIAL** 

PRELIMINARY

# CROSSOVER 6000



- ▶ 60 tons @ 10 ft capacity at rated distance from center of rotation
- ▶ 110 ft maximum boom length
- ▶ 115 ft maximum tip height
- ▶ 32/57 ft optional jib
- ▶ 170 ft maximum sheave height with 47 ft jib
- Operator cab standard
- Rated capacity indicator with work area definition

**WORKS FOR YOU.** 

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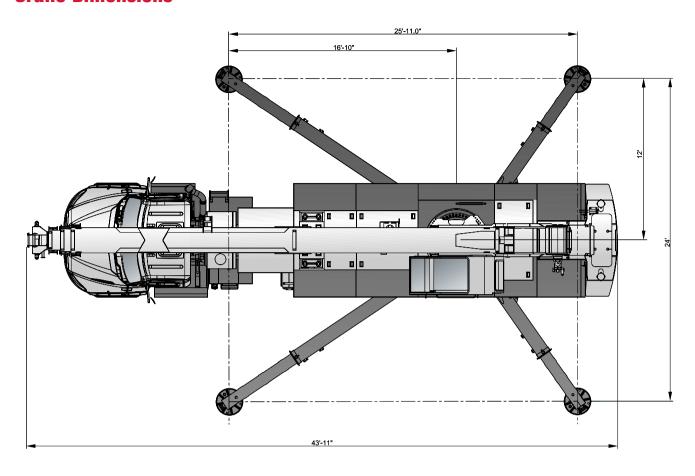
### **KEY**

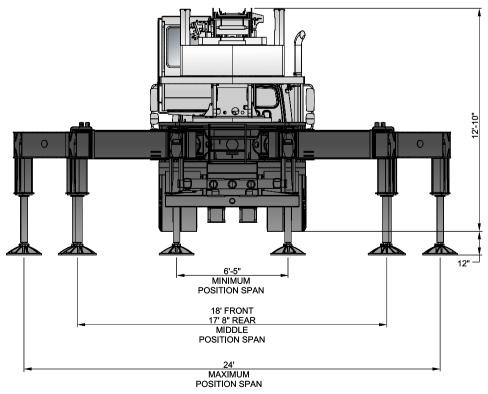
### **CROSSOVER 6000**

	Main boom		Counterweight
	Boom length	1	Main Hoist
<b>1</b>	Tip height	2	Auxiliary hoist
	Boom with jib		Hoist line speed
MILITA DE	Telescoping mode		Cab
	Boom angle		Operator aid
	Working radius		Controls
	Main boom with aux head	HYDR	Hydraulics
	Boom head	<u> </u>	Heating / Air conditioning
	Hook block		Outriggers
	Hook to head sheave pin	1	Rotation / Allowable rotation range
	Rope - Standard / Optional		Slewing brake
	Rope diameter	1	Boom over the rear
	Rope length		Boom over the front
<b>←</b>	Permissible line pull	<b>(</b>	Area of operation
Ib +	Maximum line pull		

### **DIMENSIONS**

#### **Crane Dimensions**

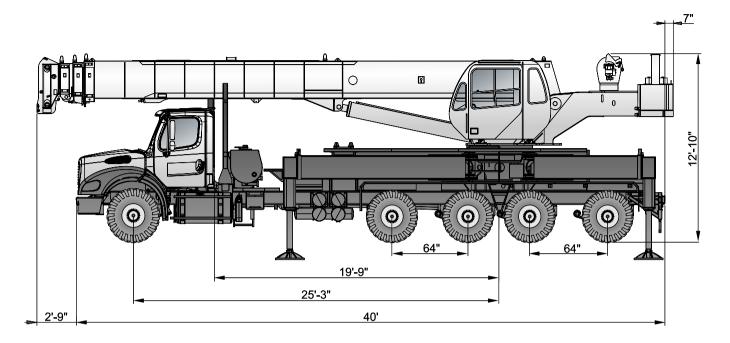




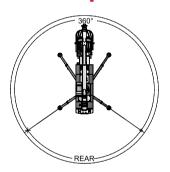


### **DIMENSIONS**

#### **Crane Dimensions**



### **Area of Operation**



### **Mounting Specifications**

Gross Vehicle Weight Rating102,500 lb
Front Axle Weight Rating20,000 lb
Rear Axle Weight Rating40,000 lb
Pusher
Tag
Wheelbase
Cab to Axle
Afterframe
RBM per Frame Rail
Frame Height (Unloaded)

<b>Base machine</b>
Crane fitted with jib and mounted on freightliner
chassis with flatbed.

#### Estimated minimum chassis weight:

Front axle	1,000 lb*
Tandem axles1	3,000 lb*
Total weight24	4,000 lb

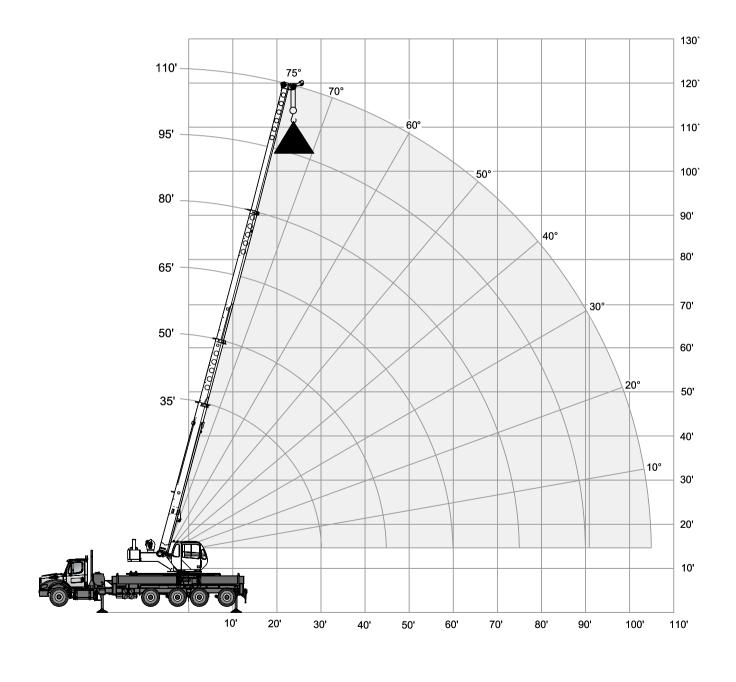
<sup>\*</sup> Minimum bare chassis weight requirements. Must ballast to minimum if required.

### **RANGE DIAGRAM**

### **CROSSOVER 6000**

**Outriggers Fully Extended (100%)** 







#### **CROSSOVER 6000**

#### **Outriggers Fully Extended (100%)**

16,500 lbs

100%)

over rear

35 to 110 ft

Standard ASME B30.5

						Boom	Length						
	35	5 ft	50	ft	65	65 ft		80 ft 95		ft	110 ft		
								<b>(X)</b>					
ft	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	ft
10	120,000	120,000	80,000	80,000									10
12	107,000	100,700	80,000	80,000									12
15	87,100	87,100	78,400	78,400	61,900	61,900							15
20	62,900	62,900	64,200	64,200	54,800	54,800	46,200	46,200					20
25	48,300	48,300	49,600	49,600	49,100	49,100	40,700	40,700	35,300	35,300			25
30	36,800	36,800	39,800	39,800	40,500	40,500	36,000	36,000	31,100	31,100	27,500	27,500	30
35			32,800	32,800	33,500	33,500	32,200	32,200	27,900	27,900	24,800	24,800	35
40			27,500	27,500	28,200	28,200	28,600	28,600	25,200	25,200	22,500	22,500	40
45			22,200	22,200	23,400	24,100	23,900	24,600	23,100	32,100	20,500	20,500	45
50					19,600	20,100	20,100	20,600	20,400	20,900	18,800	18,800	50
55					16,700	16,900	17,100	17,400	17,400	17,700	17,400	17,400	55
60					14,200	14,200	14,800	14,800	15,000	15,100	15,200	15,300	60
65							12,800	12,700	13,100	13,000	13,300	13,200	65
70							11,100	11,000	11,400	11,300	11,600	11,500	70
75							9,700	9,500	10,100	9,900	10,300	10,100	75
80									8,800	8,600	9,100	8,800	80
85									7,800	7,500	8,000	7,800	85
90									6,800	6,600	7,100	6,800	90
95											6,300	6,000	95
100											5,600	5,300	100
105											4,900	4,600	105

#### **Notes to lifting capacity**

Lifting capacities do not exceed 85% of tipping load. Weight of hook blocks and slings is part of the load, and is to be deducted from the capacity ratings. Consult operation manual for further details.

#### **CROSSOVER 6000**

#### **Outriggers Fully Extended (100%)**

11,500 lbs

100%)

360°

35 to 110 ft

Standard ASME B30.5

						Boom	Length						
	35	ft	50	ft	65	ft	80	ft	95	ft	110	) ft	
ft	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	ft
10	120,000	120,000	80,000	80,000									10
12	106,800	106,800	80,000	80,000									12
15	83,700	83,700	78,400	78,400	61,900	61,900							15
20	60,400	60,400	61,600	61,600	54,800	54,800	46,200	46,200					20
25	46,200	46,200	47,600	47,600	48,200	48,200	40,700	40,700	35,300	35,300			25
30	36,600	36,600	38,100	38,100	38,800	38,800	36,000	36,000	31,100	31,100	27,500	27,500	30
35			31,300	31,400	32,000	32,000	32,200	32,200	27,900	27,900	24,800	24,800	35
40			24,900	25,700	25,700	26,500	26,200	27,000	25,200	25,200	22,500	22,500	40
45			20,200	20,400	21,100	21,400	21,600	21,900	21,900	22,200	20,500	20,500	45
50					17,600	17,600	18,100	18,100	18,400	18,400	18,600	18,600	50
55					14,900	14,600	15,300	15,100	15,600	15,400	15,800	15,700	55
60					12,600	12,200	13,100	12,800	13,400	13,100	13,600	13,300	60
65							11,300	10,900	11,600	11,200	11,800	11,400	65
70							9,800	9,300	10,100	9,700	10,300	9,900	70
75							8,400	8,000	8,800	8,400	9,000	8,600	75
80									7,700	7,200	7,900	7,400	80
85									6,700	6,200	6,900	6,500	85
90									5,800	5,300	6,100	5,600	90
95											5,300	4,900	95
100											4,600	4,200	100
105											4,000	3,600	105

#### **Notes to lifting capacity**

Lifting capacities do not exceed 85% of tipping load. Weight of hook blocks and slings is part of the load, and is to be deducted from the capacity ratings. Consult operation manual for further details.



#### **CROSSOVER 6000**

#### **Outriggers Fully Extended (100%)**

7,500 lbs

(100%)

over rear

360°

35 to 110 ft

Standard ASME B30.5

						Boom	Length						
	35	ft	50	ft	65	ft	80 ft		95	95 ft		110 ft	
ft	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	ft
10	120,000	120,000	80,000	80,000									10
12	103,400	103,400	80,000	80,000									12
15	81,000	81,000	78,400	78,400	61,900	61,900							15
20	58,300	58,300	59,600	59,600	54,800	54,800	46,200	46,200					20
25	44,600	44,600	45,900	45,900	46,600	46,600	40,700	40,700	35,300	35,300			25
30	35,300	35,300	36,800	36,800	37,400	37,400	36,000	36,000	31,100	31,100	27,500	27,500	30
35			28,800	29,700	29,600	30,600	30,000	31,100	27,900	27,900	24,800	24,800	35
40			22,800	22,900	23,600	23,800	24,000	24,300	24,300	24,600	22,500	22,500	40
45			18,400	18,100	19,300	19,100	19,700	19,600	20,000	19,900	20,200	20,100	45
50					16,000	15,600	16,500	16,100	16,700	16,400	16,900	16,600	50
55					13,400	12,900	13,900	13,400	14,200	13,700	14,400	13,900	55
60					11,300	10,700	11,800	11,200	12,100	11,500	12,300	11,700	60
65							10,100	9,500	10,400	9,800	10,600	10,000	65
70							8,700	8,000	9,000	8,400	9,200	8,600	70
75							7,400	6,800	7,800	7,100	8,000	7,400	75
80									6,700	6,100	7,000	6,300	80
85									5,800	5,200	6,100	5,400	85
90									5,000	4,400	5,300	4,600	90
95											4,600	3,900	95
100											3,900	3,300	100
105											3,300	2,700	105

#### **Notes to lifting capacity**

Lifting capacities do not exceed 85% of tipping load. Weight of hook blocks and slings is part of the load, and is to be deducted from the capacity ratings. Consult operation manual for further details.

#### **CROSSOVER 6000**

#### **Outriggers Fully Extended (100%)**

4,500 lbs

100%)

over rear



35 to 110 ft

Standard ASME B30.5

						Boom	Length						
	35	ft	50	ft	65	ft	80	ft	95 ft		110 ft		
ft	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	ft
10	120,000	120,000	80,000	80,000									10
12	100,900	100,900	80,000	80,000									12
15	78,900	78,900	78,400	78,400	61,900	61,900							15
20	56,800	56,800	58,100	58,100	54,800	54,800	46,200	46,200					20
25	43,400	43,400	44,700	44,700	45,300	45,300	40,700	40,700	35,300	35,300			25
30	33,300	34,200	35,200	35,700	36,000	36,400	36,000	36,000	31,100	31,100	27,500	27,500	30
35			26,900	27,200	27,600	28,100	28,100	28,600	27,900	27,900	24,800	24,800	35
40			21,200	20,900	22,000	21,800	22,400	22,300	22,700	22,600	22,500	22,500	40
45			17,000	16,400	17,900	17,300	18,300	17,800	18,600	18,100	18,800	18,300	45
50					14,800	14,100	15,200	14,500	15,500	14,900	15,700	15,100	50
55					12,300	11,500	12,800	12,000	13,100	12,300	13,300	12,500	55
60					10,300	9,500	10,900	10,000	11,100	10,300	11,300	10,500	60
65							9,200	8,400	9,500	8,700	9,700	8,900	65
70							7,900	7,000	8,200	7,400	8,400	7,600	70
75							6,700	5,800	7,000	6,200	7,200	6,400	75
80									6,000	5,200	6,300	5,500	80
85									5,200	4,400	5,400	4,600	85
90									4,400	3,600	4,600	3,900	90
95											4,000	3,200	95
100											3,400	2,700	100
105											2,800	2,100	105

#### **Notes to lifting capacity**

Lifting capacities do not exceed 85% of tipping load. Weight of hook blocks and slings is part of the load, and is to be deducted from the capacity ratings. Consult operation manual for further details.

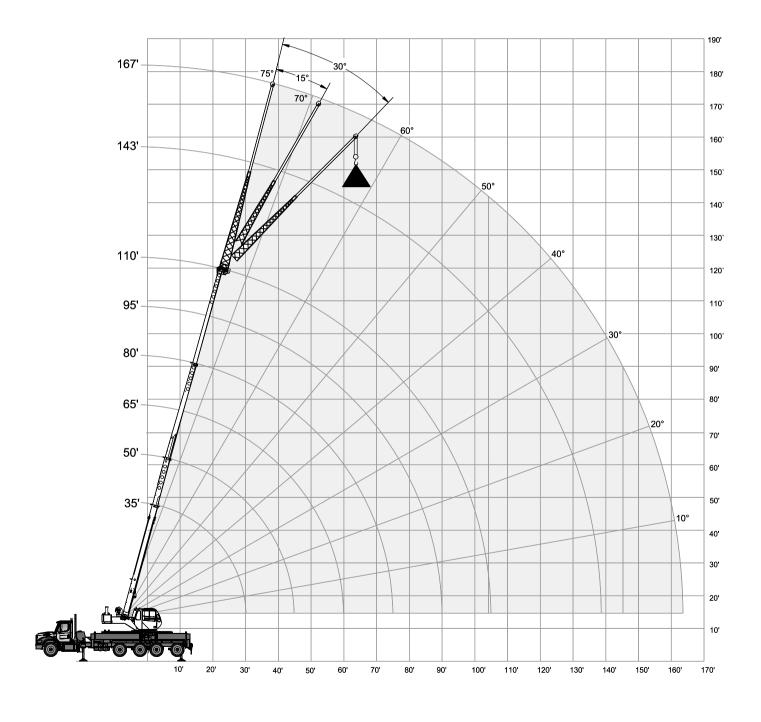


### **RANGE DIAGRAM**

**CROSSOVER 6000** 

with Jib





#### **CROSSOVER 6000**

#### With Jib, Extended

16,500 lbs

(100%)

360

Standard ASME B30.5

	33 ft Offsettable Jib										
(	)°	1:	5°	30°							
ft ft	lbs	ft ft	lbs	ft ft	lbs						
36	12,500	47	8,500	53	6,400						
42	11,800	52	8,100	58	6,200						
47	11,200	57	7,800	62	6,100						
55	10,300	64	7,500	69	5,900						
63	9,500	71	7,100	75	5,900						
70	8,800	77	6,700	81	5,600						
77	8,200	83	6,400	87	5,400						
85	7,600	91	6,200	94	5,300						
93	7,100	98	5,900	101	5,200						
100	6,700	105	5,600	107	5,100						
107	6,000	111	5,400	113	5,000						
114	5,100	117	5,000	119	4,900						
122	4,300	124	4,200	125	4,200						
128	3,700	129	3,600								
134	3,200	134	3,100								
137	400										

57 ft Offsettable Jib									
(	)°	1:	5°	30°					
ft ft	lbs	Æ ft	lbs	Æ #	lbs				
48	6,500	63	4,500	73	3,300				
54	6,400	69	4,300	78	3,200				
60	6,200	74	4,100	83	3,100				
69	6,000	82	3,900	90	3,000				
78	5,400	90	3,700	97	2,900				
86	4,900	97	3,500	103	2,800				
94	4,500	104	3,300	109	2,700				
103	4,200	112	3,100	117	2,600				
112	3,800	120	2,900	124	2,500				
120	3,500	127	2,800	130	2,500				
128	3,300	134	2,700	136	2,400				
136	3,100	141	2,600	142	2,400				
145	2,800	148	2,500	149	2,400				
153	2,300	155	2,300						
159	1,900	160	1,900						
164	300								

#### **Notes to lifting capacity**

Lifting capacities do not exceed 85% of tipping load. Weight of hook blocks and slings is part of the load, and is to be deducted from the capacity ratings. Consult operation manual for further details.



#### **CROSSOVER 6000**

#### With Jib, Extended

11,500 lbs

(100%)



Standard ASME B30.5

	33 ft Offsettable Jib										
(	)°	1:	5°	30°							
ft	lbs	ft ft	lbs	ft ft	lbs						
38	12,500	47	8,500	53	6,400						
43	12,000	52	8,100	58	6,200						
48	11,500	57	7,800	62	6,100						
56	10,900	64	7,500	69	5,900						
63	9,900	70	7,100	76	5,900						
70	9,200	77	6,700	82	5,600						
77	8,900	83	6,400	87	5,400						
85	7,900	91	6,200	95	5,300						
93	7,200	98	5,900	101	5,200						
100	6,200	104	5,600	107	5,100						
106	5,300	110	5,100	113	4,800						
113	4,400	117	4,300	118	4,100						
121	3,600	124	3,600	124	3,400						
127	3,000	129	2,900								
133	2,600	134	2,500								
139	400										

57 ft Offsettable Jib					
(	)°	1:	5°	30°	
ft ft	lbs	ft ft	lbs	Æ ft	lbs
47	6,500	64	4,500	73	3,300
54	6,400	69	4,300	78	3,200
60	6,100	75	4,100	83	3,100
69	5,700	83	3,900	90	3,000
78	5,400	90	3,700	97	2,900
86	4,900	97	3,500	103	2,800
94	4,500	104	3,300	109	2,700
104	4,200	113	3,100	117	2,600
113	3,800	120	2,900	124	2,500
121	3,500	128	2,800	130	2,500
128	3,200	134	2,700	136	2,400
136	2,800	141	2,600	142	2,400
144	2,300	148	2,200	149	2,100
152	1,800	155	1,800		
159	1,400	160	1,400		
164	300				

#### **Notes to lifting capacity**

Lifting capacities do not exceed 85% of tipping load. Weight of hook blocks and slings is part of the load, and is to be deducted from the capacity ratings. Consult operation manual for further details.

#### **CROSSOVER 6000**

#### With Jib, Extended

7,500 lbs

(100%)

360

Standard ASME B30.5

33 ft Offsettable Jib					
	)°	1:	15°		0°
ft	lbs	ft ft	lbs	ft ft	lbs
38	12,500	47	8,500	53	6,400
43	11,800	52	8,100	58	6,200
49	11,200	57	7,800	63	6,100
56	10,300	64	7,500	69	5,900
64	9,500	71	7,100	75	5,900
71	8,800	77	6,700	82	5,600
77	8,200	83	6,400	87	5,400
85	7,500	91	6,200	94	5,300
93	6,300	98	5,800	101	5,200
100	5,400	105	5,000	107	4,900
106	4,500	110	4,300	113	4,200
113	3,700	117	3,500	119	3,500
121	2,900	124	2,800	125	2,800
127	2,400	129	2,300		
133	1,900	134	1,900		
140	400				

57 ft Offsettable Jib					
(	)°	1:	j°		0°
ft ft	lbs	Æ ft	lbs	Æ ft	lbs
47	6,500	63	4,500	73	3,300
54	6,400	69	4,300	79	3,200
60	6,200	74	4,100	84	3,100
69	6,000	82	3,900	91	3,000
78	5,400	90	3,700	98	2,900
86	4,900	97	3,500	105	2,800
94	4,500	104	3,300	111	2,700
104	4,200	112	3,100	118	2,600
112	3,800	120	2,900	126	2,500
120	3,400	127	2,800	132	2,500
128	2,900	134	2,700	137	2,400
136	2,300	141	2,200	143	2,100
144	1,800	148	1,700	149	1,600
152	1,200	155	1,200		
158	800	160	800		
165	300				

#### **Notes to lifting capacity**

Lifting capacities do not exceed 85% of tipping load. Weight of hook blocks and slings is part of the load, and is to be deducted from the capacity ratings. Consult operation manual for further details.



#### **CROSSOVER 6000**

#### With Jib, Extended

4,500 lbs

(100%)



Standard ASME B30.5

33 ft Offsettable Jib					
(	)°	1:	15°		0°
ft	lbs	ft ft	lbs	ft ft	lbs
37	12,500	47	8,500	53	6,400
43	11,800	52	8,100	57	6,200
48	11,200	57	7,800	62	6,100
56	10,300	64	7,500	69	5,900
63	9,500	70	7,100	75	5,900
70	8,800	77	6,700	81	5,600
77	8,200	83	6,400	88	5,400
85	6,800	90	6,200	94	5,300
92	5,600	97	5,200	101	5,000
99	4,700	104	4,400	107	4,200
105	3,900	110	3,700	112	3,500
112	3,200	116	3,000	118	2,900
120	2,500	123	2,400	124	2,300
126	1,900	129	1,800		
133	1,300	134	1,300		
140	400				

57 ft Offsettable Jib					
(	)°	1:	5° 30°		0°
ft ft	lbs	Æ ft	lbs	ft ft	lbs
46	6,500	63	4,500	73	3,300
53	6,400	69	4,300	79	3,200
60	6,200	74	4,100	84	3,100
69	6,000	82	3,900	91	3,000
78	5,400	90	3,700	98	2,900
86	4,900	97	3,500	104	2,800
94	4,500	104	3,300	110	2,700
103	4,200	112	3,100	118	2,600
112	3,700	120	2,900	126	2,500
120	3,000	127	2,700	131	2,500
127	2,400	133	2,300	137	2,200
135	1,800	141	1,800	143	1,700
143	1,300	148	1,300	149	1,200
151	900	155	800		

#### **Notes to lifting capacity**

Lifting capacities do not exceed 85% of tipping load. Weight of hook blocks and slings is part of the load, and is to be deducted from the capacity ratings. Consult operation manual for further details.

### **Boom, Jib and Rotation**

	Four-section full power fully synchronized telelscopic boom	
	Boom length	110 ft
1	Boom maximum tip height	115 ft
A	Boom elevation angle range (min. / max.)	-4° / 76°
	Boom head	quick reeving
	Tip height: Optional lattice jibs 32' or 33' / 57' Angular offsets	170 ft 0°, 15°, 30°
	360° continuous rotation	

### **Hoists and Rope**

1	Two speeds First layer (no load speed) Fifth layer (no load speed)		Low Speed: 184 ft/min 266 ft/min	High Speed: 369 ft/min 533 ft/min
	First layer Fifth layer		Low Speed: 15,639 lb 10,827 lb	High Speed: 10,827 lb 5,052 lb
+	Permissible line pull			9,000 lb
			6 x	19 IWRC IPS
	Maximum useable			561 ft
				0.625 in
2	Two speeds Fifth layer (no load speed)			High Speed: 533 ft/min
	First layer			Low Speed: 15,639 lb
<b>←</b>	Permissible line pull			9,000 lb
		Optional		
		0.625 in rotation resis	stant, compacted	strand 18 x 19
				0.625 in



### **TECHNICAL DESCRIPTION**

#### **CROSSOVER 6000**

#### **Hydraulics**



Three pump system
Main boom hoist and telescope tandem pump
Outrigger and swing
Simultaneous operation of hydraulic functions
Two-speed hoist

Full flow with bypass protection
Suction
Return

56.8 / 47.0 gal/min @ 3,500 psi
21 gal/min 2,500 psi
21 gal/min 2,500 psi
250 micron screen
5 micron filter

Pressurized tank with sight level gauge

117 gal

#### **Upper Operator Cab**



Upper cab
Sliding door on left side
Sliding window on the right side
Tilting, tinted glass skylight
Removable front windshield
Six-way adjustable seat with armrest dual-axis electro-proportional joysticks
Joystick control for hoist(s), swing and boom elevation

Foot pedals for swing brake, boom telescope and engine rpm

Hand control for engine rpm



Optional features for upper cab Air conditioning – hydraulically powered Heater and air conditioning package – hydraulically powered Liquid propane (LP) cab heater Single-axis armrest mounted controls Work lights



Rated capacity indicator with pictograph display of boom radius, boom angle, boom length, allowable load, actual load and % of allowable load
Settable alarms for swing angle, boom length, boom angle, tip height and work area exclusion zone

#### **Boom Rotation**



Foot pedal actuated multi-disc brake and air actuated 360° house lock



Hydraulic driven double planetary reduction gear drive

2.8 rev/min

#### **Counterweight**

Main counterweight with integrated hydraulic removal system is bolted to upper crane structure  Hydraulic system allows weights to be removed and attached without additional lifting equipment for placement on carrier deck	4,500 lb counterweight package
0.000 lb	Optional additional counterweight
3,000 lb - 3,000 lb	7,500 lb total counterweight
3,000 lb	11,500 lb total counterweight
3,000 lb 4,000 lb - 12,000 lb 5,000 lb	16,500 lb total counterweight

#### **Boom and Components**

	Full power extension via foot pedal control	Four Section
	Retracted boom length Extended boom length Maximum tip height	35 ft 110 ft 114 ft
	Raised – maximum Lower – minimum	+76° -4°
	Optional	
	Swing-On Jib – fixed length – can be offset to 0°, 15° or 30° Maximum tip height with fixed jib Swing-On Jib – adjustable length – can be offset to 0°, 15° or 30° Maximum tip height with extended jib	32 ft 145 ft 33 ft / 57 ft 170 ft
	Idler sheaves Quick reeving design	
	Installs only on main boom head Compatible with extendable and fixed swing-on jibs	Single nylon sheave
	5 metallic sheaves Quick reeving design	60 T
1.1	Optional	
	5 metallic design	40 T
	Top swivel ball with hook and latch	7 T
111	Independent outrigger controls	
	Load moment / Rated capacity indicator with work area definition ATB system	

### Outriggers

X-patte MAX	ern Front: Swing, Out and Down To outer edge of pad Rear: Swing, Out and Down To outer edge of pad	26 ft 26 ft
MID	Front: Swing, Out and Down Rear: Swing, Out and Down	20 ft 19.5 ft



### **Optional Features**

Two-stage jibs
Rotation resistant rope
Multi-part load blocks
Hoist drum tensioner
Tool box

### **NOTES**

#### www.terexcranes.com

Effective Date: March 2011.

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