

T 780-1

80 USt Lifting Capacity Truck Crane Datasheet Imperial



Features: T 780-1

- 80 USt maximum lifting capacity
- ▶ 126 ft maximum boom length
- ▶ 133 ft maximum tip height
- ▶ Engine configurations up to 500 hp
- Automatic and manual transmission options
- Air-ride suspension
- Travel speeds up to 65 mph

WORKS FOR YOU.

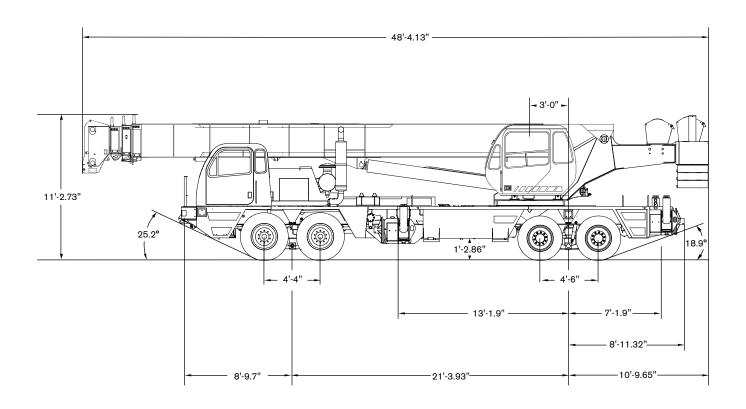
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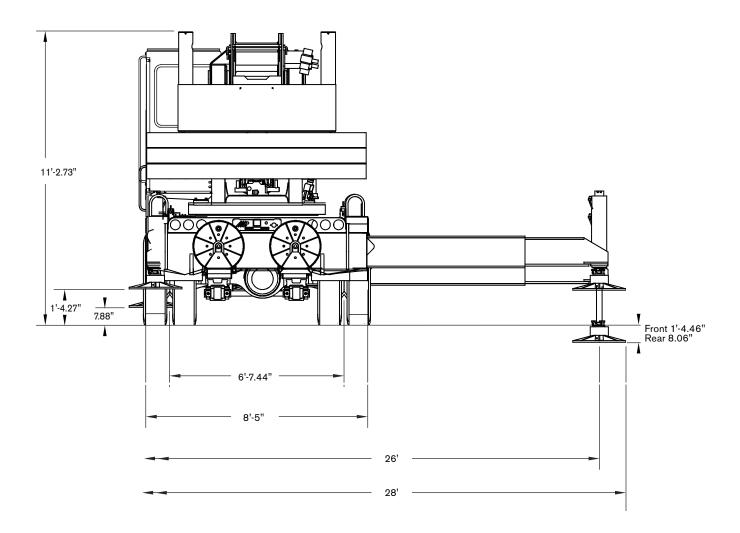


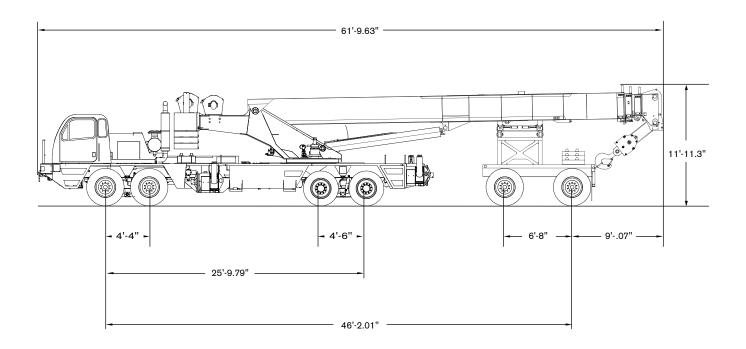


	Boom length		General performance
/	Tip height		Hoist speed
	Boom with extension		Rope - Standard / Optional
WILLIAM TO	Telescoping mode		Rope diameter
	Boom angle	***	Rope length
	Working radius	←	Max. line pull
A CONTRACTOR OF THE CONTRACTOR	Max. boom length with extension	- +	Electrical system
	Main boom with aux head	0	Tires
	Hook and block		Engine
	Hook and ball		Steering
	Gradeability		Speed
	Crane / Crane in standard configuration	(+)	Slewing / Allowable slewing range
↓ GVW	Gross vehicle weight	(+)	Slewing brake
	Weight on front axle	1	Main hoist
	Weight on rear axle	2	Auxiliary hoist
00	Dolly		Cab
	Counterweight		Operator aids / Load limiter / Load indicator
	Outriggers	()	Transmission
\bigcirc	Swing/Rotation	HYDR	Hydraulics
	Over rear	<u> </u>	Heating / Air conditioning



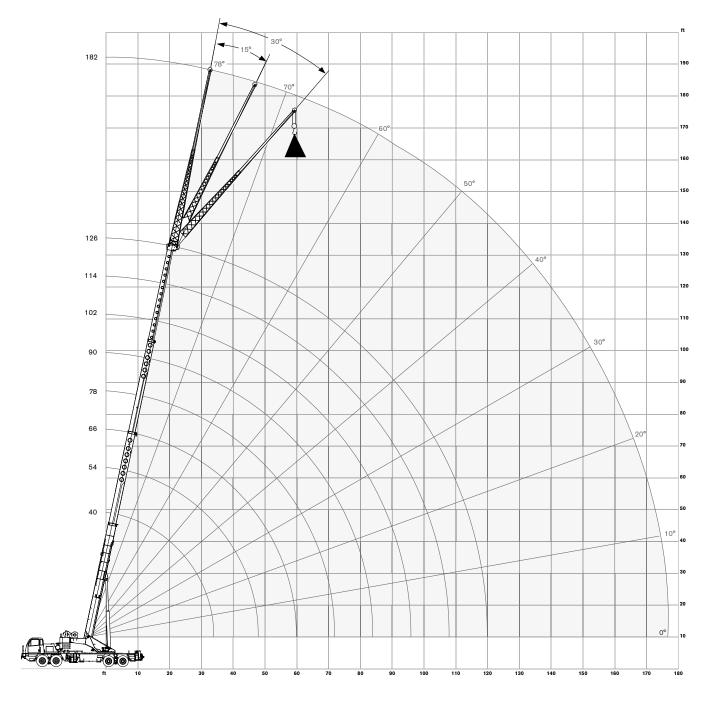






RANGE DIAGRAM - MAIN BOOM

Outriggers Fully Extended (100%)



SPECIFICATIONS

Approximate Crane Weights

Boom in fron	t travel position	Gross Vehicle	Front max. 48,000 lb	Rear max. 60,000 lb
Configuration:	1/4 tank fuel 200 lb operator seated in cab Front tires: 445/65 20PR Rear tires: 315/80 22.5 20PR 126 ft boom/no jib 2,850 lb rear counterweight and 1,000 lb front bumper counterweight	82,589	38,267	44,322
Add/subract optic	ons			
	2,000 lb counterweight, removable on rear	+ 2,000	- 904	+ 2,904
	4,000 lb counterweight, removable on rear	+ 4,000	- 1,807	+ 5,807
	2,000 lb counterweight, removable on carrier deck	+ 2,000	+ 1,485	+ 515
	4,000 lb counterweight, removable on carrier deck	+ 4,000	+ 2,969	+ 1,031
	Full tank of fuel	+ 545	+ 244	+ 301
2	Auxiliary hoist with drum roller and 600 ft of 16 x 9 class wire rope	+ 84	- 18	+ 102
	Spin resistant wire rope – main hoist	+ 96	- 31	+ 127
	Spin resistant wire rope – auxiliary hoist	+ 96	- 42	+ 138
- +	Electric remote control	+ 200	+ 100	+ 100
A	32 ft swing-on jib	+ 1,270	+ 1,393	- 123
	32 ft to 57 ft extendable swing-on jib	+ 2,170	+ 2,262	- 92
	Auxiliary boom head	+ 125	+ 227	- 102
$\langle \rangle$	80 USt hook block on bumper 5 sheave, quick reeving	+ 1,608	+ 2,569	- 961
B	12 USt hook block on bumper	+ 419	+ 669	- 250



SPECIFICATIONS

Approximate Crane Weights

Dolly and boo	om over rear	Gross Vehicle	Front max. 48,000 lb	Rear max. 60,000 lb	OO Dolly
Configuration:	1/4 tank fuel 200 lb operator seated in cab Front tires: 445/65 20PR Rear tires: 315/80 22.5 20PR 126 ft boom/no jib 2,850 lb rear counterweight	87,075	29,162	37,299	20,614
Add/subract optio	ns				
	2,000 lb counterweight, removable on rear	+ 2,000	+ 1,485	+ 515	+ 0
	4,000 lb counterweight, removable on rear	+ 4,000	+ 2,970	+ 1,030	+ 0
	2,000 lb counterweight, removable on carrier deck	+ 2,000	+ 1,485	+ 515	+ 0
	4,000 lb counterweight, removable on carrier deck	+ 4,000	+ 2,970	+ 1,030	+ 0
	4,000 lb counterweight, removable on dolly	+ 4,000	+ 0	+ 0	+ 4,000
	Full tank of fuel	+ 545	+ 244	+ 301	+ 0
2	Auxiliary hoist with drum roller and 600 ft of 16 x 9 class wire rope	+ 84	+ 43	+ 41	+ 0
	Spin resistant wire rope – main hoist	+ 96	+ 59	+ 37	+ 0
	Spin resistant wire rope – auxiliary hoist	+ 96	+ 70	+ 26	+ 0
- +	Electric remote control	+ 200	+ 100	+ 100	+ 0
	32 ft swing-on jib	+ 1,270	+ 13	+ 18	+ 1,239
A V	32 ft to 57 ft extendable swing-on jib	+ 2,170	+ 62	+ 86	+ 2,022
	Auxiliary boom head	+ 125	- 43	- 60	+ 228
\Diamond	80 USt hook block on bumper 5 sheave, quick reeving	+ 1,608	- 27	- 37	+ 1,672
A	12 USt hook block on bumper	+ 419	- 7	- 10	+ 436

Outriggers Fully Extended (100%)

15,0	000 lb		100%	(∞)	360°		40-126 ft	Sta B3	indard ASME 0.5
	Boom Length (ft)								
	40	54	66	78	90	102	114	126	
ft	lb	lb	lb	lb	lb	lb	lb	lb	ft
10	160,000	102,500							10
12	125,600	102,500							12
15	108,900	100,500	80,600						15
20	83,800	84,800	71,900	62,200	56,200				20
25	65,500	66,500	64,800	55,700	48,000	41,900			25
30	52,200	53,600	54,000	49,700	41,700	36,400	31,500		30
35		40,900	41,500	41,700	36,600	32,100	29,500	24,700	35
40		32,500	33,100	33,400	32,900	28,600	26,200	24,600	40
45		26,400	27,100	27,400	27,600	25,700	23,500	22,100	45
50		19,000	22,500	22,900	23,100	23,300	21,400	20,000	50
55			19,000	19,400	19,700	19,800	19,500	18,200	55
60				16,600	16,800	17,000	17,100	16,600	60
65				14,200	14,500	14,700	14,800	14,900	65
70					12,600	12,800	12,900	13,000	70
75					11,000	11,100	11,300	11,400	75
80					9,500	9,800	9,900	10,000	80
85						8,500	8,700	8,800	85
90						7,500	7,700	7,700	90
95						6,500	6,700	6,800	95
100							5,800	6,000	100
105							5,000	5,200	105
110								4,500	110
115								3,900	115

Outriggers Fully Extended (100%)

15,0	000 lb		100%		Over Rear		40-126 ft	Sta B30	ndard ASME 0.5
	Boom Length (ft)								
	40	54	66	78	90	102	114	126	
ft	lb	lb	lb	lb	lb	lb	lb	lb	ft
10	160,000	102,500							10
12	125,600	102,500							12
15	108,900	100,500	80,600						15
20	84,500	85,300	71,900	62,200	56,200				20
25	65,500	66,500	64,800	55,700	48,000	41,900			25
30	52,200	53,600	54,000	49,700	41,700	36,400	31,500		30
35		40,900	41,500	41,700	36,600	32,100	29,500	24,700	35
40		32,500	33,100	33,400	32,900	28,600	26,200	24,600	40
45		26,400	27,100	27,400	27,600	25,700	23,500	22,100	45
50			22,500	22,900	23,100	23,300	21,400	20,000	50
55			19,000	19,400	19,700	19,800	19,500	18,200	55
60				16,600	16,800	17,000	17,100	16,600	60
65				14,200	14,500	14,700	14,800	14,900	65
70				12,300	12,600	12,800	12,900	13,000	70
75					11,000	11,100	11,300	11,400	75
80					9,500	9,800	9,900	10,000	80
85						8,500	8,700	8,800	85
90						7,500	7,700	7,700	90
95						6,500	6,700	6,800	95
100							5,800	6,000	100
105							5,100	5,200	105
110								4,600	110
115								3,900	115

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.



With Offset Jibs

15,000 lb		100%	$(\!$	Standard ASME B30.5	
		33 ft Offs	ettable Jib		
0° 0	ffset	15°	Offset	₹ 30° C	Offset
∠/ ← ft	lb	∠/ ⇔ ft	lb	∠/ ⇔ ft	lb
40	12,500	51	8,500	56	6,400
47	12,000	56	8,100	61	6,200
53	11,500	62	7,800	67	6,100
59	10,900	67	7,500	72	5,900
68	9,900	75	7,100	79	5,900
76	9,200	82	6,700	86	5,600
83	8,900	89	6,400	93	5,400
90	7,900	96	6,200 5,900	99	5,300
99	6,800	104	5,900	107	5,200
106	5,700 4,700	111	5,300 4,500	114	5,100
113	4,700	118	4,500	121	4,500
120	3,900 3,100	125	3,800 3,100	126	3,700
127	3,100	132	3,100	132	3,000
135	2,400	139	2,400	138	2,400
143	1,800	145	1,700		
150	1,300	150	1,300		
152	1,100				
		57 ft Offs	ettable Jib		
<i>∕</i> ∌ 0° 0	ffset	/15° (Offset	√ 30° C	Offset
∠/ ← ft	lb	Z/← ft	lb	Z/←→ ft	lb
49	6,500	65	4,500	76	3,300
56	6,400	71	4.300	81	3,200
63	6,200	77	4,100	87	3,100
70	6,000	83	3.900	92	3,000
80	5,400	92	3,900 3,700	100	2,900
89	4,900	100	3,500	107	2,800
98	4,900 4,500	108	3,300	114	2,700
106	4,200	115	3,100	121	2,600
116	3,800	124	2 900	129	2,500
126	3,500	132	2,800 2,700	136	2,500
134	3,300	140	2,700	143	2,400
142	3,100	147	2,600	149	2,400
150	2,500	154	2,300	156	2,300
159	1,900	162	1,800	162	1,800
167	1,400	169	1,400		
173	1,000	174	1,000		
177	800				

On Tires

15,000 lb	o c	On tires	Over Rear	Standard ASME B30.5				
Во	om	Trave	Travel Speed: Boom straight over rear					
		0 mph	Сгеер	2.5 mph				
∠/← ft	// °ft	lb	lb	lb				
10	40	53,700	38,700	31,200				
12	40	49,300	35,300	28,400				
15	40	43,800	31,100	24,700				
20	40	33,000	25,500	19,900				
25	54	23,400	21,100	16,300				
30	54	17,700	17,700	13,300				
35	54	13,700	13,700	10,900				
40	66	11,100	11,100	9,300				
45	66	8,900	8,900	7,900				
50	66	7,200	7,200	6,700				
55	78	5,800	5,800	5,700				
60	78	4,600	4,600	4,600				
65	78	3,700	3,700	3,700				
70	90	3,000	3,000	3,000				
75	90	2,400	2,400	2,400				
80	90	1,800	1,800	1,800				

Notes to lifting capacity

Lifting capacities do not exceed 85% of tipping load, (75% of tipping load on tires). 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.

Outriggers Fully Extended (100%)

11,0	00 lb		100%	(w)	360°		40-126 ft	Sta B3	ndard ASME 0.5
	Boom Length (ft)								
	40	54	66	78	90	102	114	126	
ft	lb	lb	lb	lb	lb	lb	lb	lb	ft
10	160,000	102,500							10
12	125,600	102,500							12
15	108,900	100,500	80,600						15
20	82,000	83,100	71,900	62,200	56,200				20
25	63,400	64,500	64,800	55,700	48,000	41,900			25
30	49,000	50,400	50,800	49,700	41,700	36,400	31,500		30
35		38,400	38,900	39,200	36,600	32,100	29,500	24,700	35
40		30,300	30,900	31,200	31,400	28,600	26,200	24,600	40
45		24,600	25,200	25,600	25,700	25,700	23,500	22,100	45
50			20,900	21,300	21,500	21,600	21,400	20,000	50
55			17,500	17,900	18,100	18,200	18,300	18,200	55
60				15,100	15,400	15,500	15,600	15,700	60
65				12,800	13,100	13,300	13,400	13,400	65
70				11,000	11,300	11,400	11,500	11,600	70
75					9,700	9,900	10,000	10,100	75
80					8,300	8,500	8,700	8,800	80
85						7,400	7,500	7,600	85
90						6,400	6,500	6,600	90
95						5,500	5,600	5,800	95
100							4,900	5,000	100
105							4,100	4,300	105
110								3,600	110
115								3,100	115

Outriggers Fully Extended (100%)

11,0	00 lb		100%		Over Rear		40-126 ft	Sta B3	ndard ASME 0.5
	Boom Length (ft)								
	40	54	66	78	90	102	114	126	
ft	lb	lb	lb	lb	lb	lb	lb	lb	ft
10	160,000	102,500							10
12	125,600	102,500							12
15	108,900	100,500	80,600						15
20	82,000	83,100	71,900	62,200	56,200				20
25	63,400	64,500	64,800	55,700	48,000	41,900			25
30	49,000	50,400	50,800	49,700	41,700	36,400	31,500		30
35		38,400	38,900	39,200	36,600	32,100	29,500	24,700	35
40		30,300	30,900	31,200	31,400	28,600	26,200	24,600	40
45		24,600	25,200	25,600	25,700	25,700	23,500	22,100	45
50			20,900	21,300	21,500	21,600	21,400	20,000	50
55			17,500	17,900	18,200	18,300	18,400	18,200	55
60				15,200	15,500	15,700	15,800	15,800	60
65				13,000	13,300	13,500	13,600	13,700	65
70				11,200	11,500	11,700	11,800	11,900	70
75					9,900	10,100	10,200	10,300	75
80					8,600	8,800	8,900	9,000	80
85						7,600	7,800	7,900	85
90						6,600	6,700	6,900	90
95						5,700	5,900	6,000	95
100							5,100	5,200	100
105							4,300	4,500	105
110								3,800	110
115								3,200	115

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.



On Tires

11,000 lb		On tires	Over Rear	Standard ASME B30.5
Во	om	Trave	l Speed: Boom straight ove	er rear
	17	0 mph	Creep	2.5 mph
∠/← ft	¶// °ft	lb	lb	lb
10	40	56,000	41,000	33,500
12	40	51,500	37,500	30,500
15	40	45,500	33,000	26,700
20	40	29,500	27,200	21,700
25	54	21,100	21,100	17,800
30	54	16,000	16,000	14,700
35	54	12,600	12,600	12,100
40	66	9,700	9,700	9,700
45	66	7,500	7,500	7,500
50	66	5,900	5,900	5,900
55	78	4,800	4,800	4,800
60	78	4,000	4,000	4,000
65	78	3,300	3,300	3,300
70	90	2,800	2,800	2,800
75	90	2,100	2,100	2,100

Notes to lifting capacity

Lifting capacities do not exceed 85% of tipping load, (75% of tipping load on tires). 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.

LOAD CHART - MAIN BOOM

Outriggers Fully Extended (100%)

7,00	0 lb		100%	(w)	360°		40-126 ft		andard ASME 0.5
	Boom Length (ft)								
	40	54	66	78	90	102	114	126	
ft	lb	lb	lb	lb	lb	lb	lb	lb	ft
10	149,300	102,500							10
12	125,600	102,500							12
15	106,300	100,500	80,600						15
20	79,600	80,600	71,900	62,200	56,200				20
25	61,500	62,500	63,100	55,700	48,000	41,900			25
30	44,600	46,000	46,400	46,700	41,700	36,400	31,500		30
35		34,900	35,400	35,600	35,800	32,100	29,500	24,700	35
40		27,400	28,000	28,300	28,500	28,600	26,200	24,600	40
45		22,000	22,700	23,000	23,200	23,300	23,400	22,100	45
50			18,700	19,100	19,300	19,400	19,500	19,600	50
55			15,500	15,900	16,100	16,300	16,300	16,400	55
60				13,200	13,500	13,900	13,700	13,800	60
65				11,100	11,400	11,900	11,600	11,700	65
70				9,300	9,600	10,200	9,900	10,000	70
75					8,100	8,700	8,400	8,500	75
80					6,900	7,500	7,200	7,300	80
85						6,400	6,100	6,200	85
90						5,500	5,200	5,300	90
95						4,600	4,400	4,500	95
100							3,600	3,700	100
105							2,900	3,100	105
110								2,500	110
115								2,000	115

Outriggers Fully Extended (100%)

7,00	0 lb		100%		Over Rear		40-126 ft	Sta B3	indard ASME 0.5
				Boom Le	ngth (ft)				
	40	54	66	78	90	102	114	126	
ft	lb	lb	lb	lb	lb	lb	lb	lb	ft
10	160,000	102,500							10
12	125,600	102,500							12
15	108,900	100,500	80,600						15
20	79,600	80,600	71,900	62,200	56,200				20
25	61,500	62,500	63,100	55,700	48,000	41,900			25
30	44,600	46,000	46,400	46,700	41,700	36,400	31,500		30
35		34,900	35,400	35,600	35,800	32,100	29,500	24,700	35
40		27,400	28,000	28,300	28,500	28,600	26,200	24,600	40
45		22,000	22,700	23,000	23,200	23,300	23,400	22,100	45
50			18,700	19,100	19,300	19,400	19,500	19,600	50
55			15,500	15,900	16,200	16,300	16,400	16,500	55
60				13,400	13,700	13,900	14,000	14,100	60
65				11,400	11,700	11,900	12,000	12,100	65
70				9,700	10,000	10,200	10,300	10,400	70
75					8,500	8,700	8,900	9,000	75
80					7,300	7,500	7,600	7,800	80
85						6,400	6,600	6,700	85
90						5,500	5,600	5,700	90
95						4,600	4,800	4,900	95
100							4,000	4,200	100
105							3,400	3,500	105
110								2,900	110
115								2,400	115

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.



LOAD CHART - MAIN BOOM

With Offset Jibs

7,000 lb		100%	<u>(</u> ∞	360°	Standard ASME B30.5
		33 ft Offs	ettable Jib		
<i>∕</i> 0° 0	ffset	/h 15° C	Offset	∕⁄a 30° C	Offset
∫ tt	lb	Z∕⊷ ft	lb	J ← ft	lb
39	12,500	49	8,500	57	6,400
46	12,000	55	8,100	62	6,200
53	11,500	60	7,800	67	6,100
59	10,900	66	7,500	72	5,900
67	9,900	73	7,100	79	5,900
75	9,200	81	6,700	86	5,600
82	8,000	87	6,400	93	5,400
88	6,800	94	6,000	99	5,300
97	5,400	102	4,900	106	4,500
104	4,200	110	3,900	113	3,600
111	3,300	117	3,100	120	2,900
117	2,600	123	2,400	126	2,200
125	1,800	130	1,600	132	1,600
135	1,200	137	1,000	138	1,100
		57 ft Offs	ettable Jib		
<i>></i>	ffset		Offset	<i>></i> 30° €	Offset
4/ Q		// ()		//0	
∠/ ⇔ ft	lb	∠/ ← ft	lb	ft	lb
49	6,500	66	4,500	75	3,300
57	6,400	72	4,300	81	3,200
64	6,200	78	4,100	86	3,100
71	6,000	84	3,900	92	3,000
81	5,400	92	3,700	99	2,900
90	4,900	100	3,500	107	2,800
98	4,500	108	3,300	114	2,700
106	4,200	115	3,100	120	2,600
116	3,800	124	2,900	128	2,500
124	3,200	132	2,800	136	2,500
132	2,400	140	2,200	143	2,200
139	1,800	146	1,700	149	1,700
147	1,200	154	1,200	155	1,200

On Tires

7,000 lb	o c	On tires	Over Rear	Standard ASME B30.5
Во	om	Trave	el Speed: Boom straight ove	er rear
		0 mph	Creep	2.5 mph
∠ ft	ft	lb	lb	lb
10	40	56,000	41,000	33,500
12	40	51,500	37,500	30,500
15	40	45,500	33,000	26,700
20	40	29,500	27,200	21,700
25	54	21,100	21,100	17,800
30	54	16,000	16,000	14,700
35	54	12,600	12,600	12,100
40	66	9,700	9,700	9,700
45	66	7,500	7,500	7,500
50	66	5,900	5,900	5,900
55	78	4,800	4,800	4,800
60	78	4,000	4,000	4,000
65	78	3,300	3,300	3,300
70	90	2,800	2,800	2,800

Notes to lifting capacity

Lifting capacities do not exceed 85% of tipping load, (75% of tipping load on tires). 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.

LOAD CHART - MAIN BOOM

Outriggers Fully Extended (100%)

5,00	00 lb		100%	(w)	360°		40-126 ft	Sta B3	indard ASME 0.5
				Boom Le	ngth (ft)				
	40	54	66	78	90	102	114	126	
ft	lb	lb	lb	lb	lb	lb	lb	lb	ft
10	148,200	102,500							10
12	125,600	102,500							12
15	108,900	100,500	80,600						15
20	82,000	83,100	71,900	62,200	56,200				20
25	63,400	64,500	64,800	55,700	48,000	41,900			25
30	49,000	50,400	50,800	49,700	41,700	36,400	31,500		30
35		38,400	38,900	39,200	36,600	32,100	29,500	24,700	35
40		30,300	30,900	31,200	31,400	28,600	26,200	24,600	40
45		24,600	25,200	25,600	25,700	25,700	23,500	22,100	45
50			20,900	21,300	21,500	21,600	21,400	20,000	50
55			17,500	17,900	18,100	18,200	18,300	18,200	55
60				15,100	15,400	15,500	15,600	15,700	60
65				12,800	13,100	13,300	13,400	13,400	65
70				11,000	11,300	11,400	11,500	11,600	70
75					9,700	9,900	10,000	10,100	75
80					8,300	8,500	8,700	8,800	80
85						7,400	7,500	7,600	85
90						6,400	6,500	6,600	90
95						5,500	5,600	5,800	95
100							4,900	5,000	100
105							4,100	4,300	105
110								3,600	110
115								3,100	115

Outriggers Fully Extended (100%)

5,00			100%		Over Rear		40-126 ft	Sta B30	ndard ASME 0.5
				Boom Le	ngth (ft)				
	40	54	66	78	90	102	114	126	
ft	lb	lb	lb	lb	lb	lb	lb	lb	ft
10	160,000	102,500							10
12	125,600	102,500							12
15	108,900	100,500	80,600						15
20	82,000	83,100	71,900	62,200	56,200				20
25	63,400	64,500	64,800	55,700	48,000	41,900			25
30	49,000	50,400	50,800	49,700	41,700	36,400	31,500		30
35		38,400	38,900	39,200	36,600	32,100	29,500	24,700	35
40		30,300	30,900	31,200	31,400	28,600	26,200	24,600	40
45		24,600	25,200	25,600	25,700	25,700	23,500	22,100	45
50			20,900	21,300	21,500	21,600	21,400	20,000	50
55			17,500	17,900	18,200	18,300	18,400	18,200	55
60				15,200	15,500	15,700	15,800	15,800	60
65				13,000	13,300	13,500	13,600	13,700	65
70				11,200	11,500	11,700	11,800	11,900	70
75					9,900	10,100	10,200	10,300	75
80					8,600	8,800	8,900	9,000	80
85						7,600	7,800	7,900	85
90						6,600	6,700	6,900	90
95						5,700	5,900	6,000	95
100							5,100	5,200	100
105							4,300	4,500	105
110								3,800	110
115								3,200	115

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.



On Tires

5,000 lb	0	On tires	Over Rear	Standard ASME B30.5
Во	om	Trave	l Speed: Boom straight ove	er rear
		0 mph	Creep	2.5 mph
∠/← ft	// °ft	lb	lb	lb
10	40	55,600	40,600	33,200
12	40	49,100	37,200	30,200
15	40	40,000	32,700	26,400
20	40	27,500	26,900	21,400
25	54	18,200	18,200	17,500
30	54	12,400	12,400	12,400
35	54	9,900	9,900	9,900
40	66	7,700	7,700	7,700
45	66	5,600	5,600	5,600
50	66	4,700	4,700	4,700
55	78	3,600	3,600	3,600
60	78	2,700	2,700	2,700
65	78	1,800	1,800	1,800

Notes to lifting capacity

Lifting capacities do not exceed 85% of tipping load, (75% of tipping load on tires). 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.

TECHNICAL DESCRIPTION

Boom

3 8	Standard configuration:	
WILLIAM S	Full power extension via foot pedal control	4 sections
	Minimum / Maximum	40 ft / 126 ft
1	Maximum tip height	133 ft
	Boom elevation angle range (min. / max.)	-4° / 78°
	Optional configuration:	
	32 ft swing-on jib, fixed length Angular offsets Maximum tip height with fixed jib	0°, 15°, 30° 164 ft
<i>\frac{\frac{1}{3}}</i>	33–57 ft swing-on jib with 25 ft extension Angular offsets Maximum tip height with extended jib	0°, 15°, 30° 189 ft
	Boom Dolly	
	5 or 6 metallic load sheaves 2 nylon Idler sheaves Quick reeving design	
	Single nylon sheave Installs only on main boom head, compatible with extendable and fixed swing-on jibs	
	Quick reeving with 5 metal sheeves Quick reeving with 5 metal sheeves	80 USt 60 USt
	Top swivel ball with hook and latch	12 USt

Hoist, Rope and Hook

	Standard configuration:	
	Two speed ratios 1st layer without load (low range / high range) 5th layer without load (low range / high range)	200 ft/min / 320 ft/min 287 ft/min / 460 ft/min
+	Maximum line pull 1st layer (low range / high range) 5th layer (low range / high range) Permissible line pull	18,450 lb /10,002 lb 12,845 lb / 6,963 lb 13,800 lb
	6 x 19 IWRC XIPS	
	Rope diameter	3/4 in
	Maximum usable	561 ft



TECHNICAL DESCRIPTION

Hoist, Rope and Hook

Optional configuration: Two speed ratios 200 ft/min / 320 ft/min 1st layer without load (low range / high range 287 ft/min / 460 ft/min 5th layer without load (low range / high range) Maximum line pull 1st layer (low range / high range) 18,450 / 10,002 lb 5th layer (low range / high range) 12,845 / 6,963 lb Permissible line pull 13,800 lb 34 x 7 Grade 960 Rope diameter 3/4 in

Cab, Controls, Operator aids and Load limiter / Load indicator

Standard configuration:



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

Lower cab:

Hinged door on left side with roll-down window

Sliding window on the right side

Six-way adjustable seat with seatbelt

Cruise control

Two speed windshield wiper with washer



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

Optional configuration:



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

Upper cab remote carrier control

AM/FM radio with cassette

Superstructure



Standard configuration:

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

360°



Hydraulic driven double planetary reduction gear drive

2.5 rpm

Counterweight



Four counterweight packages available

5,000 lb / 7,000 lb / 11,000 lb / 15,000 lb

Tires



Standard configuration:

Aluminium wheels with stainless hub covers Front Tires Rear Tires

445/65 R22.5-20 PR 315/80 R22.5-20 PR

Vehicle performance



Standard configuration:

Theoretical maximum

Manual transmission

Automatic transmission

100+%

100+ %



Manual transmission
Automatic transmission

67 mph 65 mph

Hydraulic system



Standard configuration:

Tandem pump - Main and auxiliary winch; boom hoist and telescope

Single pump - Main and auxiliary winch; boom hoist

21.2 gal/min @ 3,500 psi 8 gal/min @ 1,900 psi

Simultaneous operation of hydraulic functions

Two-speed boom extension

Three-pump system:

Full Flow with bypass protection:

Single pump - Power steering

Suction Return 250 micron screen 5 micron filter

57.3 / 42.6 gal/min @ 4,500 psi

Pressurized tank with sight level gauge

202 gal



TECHNICAL DESCRIPTION

Carrier, Engine and Drive-line

Hydraulic assist; Turn radius to centerline of tires As 4 drive As de drive system As 2 drive As 2 drive As 2 drive As brakes with ABS, air release / spring set Front axle — maximum capacity Tubular boarn with oqualizor air suspension mounting Rear axle — maximum capacity Interaise differential with lock out Equalizer beam air suspension mounting Engine and transmission, EPA 2010 compliant Cummins ISX Intake: Tuthocharged and intercooled Rated power Eaton Fuller 10 speed manual transmission Fuel type Engine brake Fuel tank capacity 100 gallon Fuel tank capacity 100 gallon Optional configuration: Cummins ISX Intake: Tuthocharged and intercooled Alternator Optional configuration: Cummins ISX Intake: Tuthocharged and intercooled Rated power Allison 7-speed automatic transmission with lock-up torque converter Fuel type Engine brake Engine and transmission, Non-EPA 2010 compliant Cummins ISX Intake: Tuthocharged and intercooled Rated power Allison 7-speed automatic transmission with lock-up torque converter Fuel type Engine brake Engine and transmission, Non-EPA 2010 compliant. Expert only, not for use in U.S. or Canada Detroit Dissal 60 Series Intake: Tuthocharged and aftercooled Rated power Eaton Fuller 10 -speed manual transmission - Standard Allison 7-speed automatic transmission with lock-up torque converter - Optional Fuel type Engine brake Diesel Alloson 7-speed automatic transmission with lock-up torque converter - Optional Fuel type Engine brake Diesel Alloson 7-speed automatic transmission with lock-up torque converter - Optional Fuel type Engine brake Diesel Alloson 7-speed automatic transmission with lock-up torque converter - Optional Fuel type Engine brake Diesel Alloson 7-speed automatic transmission with lock-up torque converter - Optional		Standard configuration:	
Air brakes with ABS, air release / spring set Front axle - maximum capacity Tubular beam with equalizer air suspension mounting Rear axle - maximum capacity Intoraxle differential with lock-out Equalizer boam air suspension mounting Engine and transmission, EPA 2010 compliant Cummins ISX Intake: Turbocharged and intercooled Rated power Eaton Fuller 10-speed manual transmission Fuel tank capacity Tubular beam air suspension mounting Optional configuration: Engine and transmission, EPA 2010 compliant Cummins ISX Intake: Turbocharged and intercooled Rated power Allison 7-speed automatic transmission with lock-up torque converter Fuel type Engine and transmission, Non-EPA 2010 compliant Cummins ISX Intake: Turbocharged and intercooled Rated power Allison 7-speed automatic transmission with lock-up torque converter Fuel type Engine brake Engine and transmission, Non-EPA 2010 compliant. Export only, not for use in U.S. or Canada Detroit Diesel 80 Series Intake: Turbocharged and aftercoooled Rated power Eaton Fuller 10-speed manual transmission · Standard Allison 7-speed automatic transmission with lock-up torque converter · Optional Fuel type Engine brake Diesel Diesel Diesel Diesel	1-1	Hydraulic assist; Turn radius to centerline of tires	33 ft - 4 in
Front asle – maximum capacity Tubular beam with equalizer air suspension mounting Rear asle – maximum capacity Interaske differential with lock-out Equalizer beam air suspension mounting Engine and transmission, EPA 2010 compliant Curminis ISX Intake: Turbocharged and intercooled Rated power Eaton Fuller 10-speed manual transmission Fuel type Engine brake Diesel Engine brake Optional configuration: Curminis ISX Intake: Turbocharged and intercooled Rated power Eaton Fuller 10-speed manual transmission Fuel type Engine brake Optional configuration: Optional configuration: Engine and transmission, EPA 2010 compliant Curminis ISX Intake: Turbocharged and intercooled Rated power Allison 7-speed automatic transmission with lock-up torque converter Fuel type Engine brake Intake: Turbocharged and aftercooled Rated power Ean fuller 10-speed manual transmission · Standard Allison 7-speed automatic transmission · Standard Allison 7-speed automatic transmission · Standard Allison 7-speed automatic transmission with lock-up torque converter · Optional Fuel To-speed automatic transmission · Standard Allison 7-speed automatic transmission with lock-up torque converter · Optional Fuel To-speed automatic transmission · Standard Allison 7-speed automatic transmission with lock-up torque converter · Optional Fuel To-speed automatic transmission with lock-up torque converter · Optional Fuel To-speed automatic transmission with lock-up torque converter · Optional Fuel To-speed automatic transmission with lock-up torque converter · Optional Fuel To-speed automatic transmission with lock-up torque converter · Optional Fuel To-speed automatic transmission with lock-up torque converter · Optional Fuel To-speed automatic transmission with lock-up torque converter · Optional Fuel To-speed automatic transmission with lock-up torque converter · Optional	~1.~~	Axle drive system	8 x 4 drive
Tubular beam with equalizer air suspension mounting Rear allo — maximum capacity Internate differential with lock-out Equalizer beam air suspension mounting Engine and transmission, EPA 2010 compliant Cummins ISX Intake: Turbocharged and intercooled Rated power Eator Fuller 10-speed manual transmission Fuel type Engine brake Optional configuration: Puel tank capacity Total quality Optional configuration: Cummins ISX Intake: Turbocharged and intercooled Rated power Fuel tank capacity Optional configuration: 12 VDC 1,000 CCA each Alternator Optional configuration: 14,9 L / 500 hp @ 1,600 rpm Fuel type Engine and transmission, EPA 2010 compliant Cummins ISX Intake: Turbocharged and intercooled Rated power Fuel type Engine and transmission with lock-up torque converter Fuel type Engine and transmission, Non-EPA 2010 compliant. Export only, not for use in U.S. or Canada Detroit Diesel 60 Series Intake: Turbocharged and aftercooled Rated power Eator Fuller 10-speed manual transmission - Standard Allison 7-speed automatic transmission in Standard Allison 7-speed automatic transmission on Standard Allison 7-speed automatic transmission on Standard Allison 7-speed automatic transmission on Standard Allison 7-speed automatic transmission with lock-up torque converter - Optional Fuel type Diesel	(O)(O)	Air brakes with ABS, air release / spring set	
Interable differential with look-out Equalizer beam air suspension mounting Engine and transmission, EPA 2010 compliant Cummins ISX Intake: Turbocharged and intercooled Rated power Eaton Fuller 10-speed manual transmission Fuel type Engine brake Italy 100 gallon Fuel tank capacity Voltage 3 Batteries Alternator Optional configuration: Engine and transmission, EPA 2010 compliant Cummins ISX Intake: Turbocharged and intercooled Rated power Allison 7-speed automatic transmission with lock-up torque converter Fuel type Engine and transmission, Non-EPA 2010 compliant. Export only, not for use in U.S. or Canada Detroit Diesel 60 Series Intake: Turbocharged and aftercooled Rated power Eaton Fuller 10-speed manual transmission - Standard Allison 7-speed automatic transmission in Standard Allison 7-speed automatic transmission in Standard Allison 7-speed automatic transmission on the lock-up torque converter - Optional Fuller 10-speed manual transmission in Standard Allison 7-speed automatic transmission with lock-up torque converter - Optional Fuller 10-speed manual transmission in Standard Allison 7-speed automatic transmission with lock-up torque converter - Optional Fuller 10-speed manual transmission in Standard Allison 7-speed automatic transmission with lock-up torque converter - Optional Fuller 10-speed manual transmission in Standard Allison 7-speed automatic transmission with lock-up torque converter - Optional Fuller 10-speed manual transmission with lock-up torque converter - Optional Fuller 10-speed manual transmission with lock-up torque converter - Optional			48,000 lb
Equalizer beam air suspension mounting Engine and transmission, EPA 2010 compliant Cummins ISX Intake: Turbocharged and intercooled Rated power Eaton Fuller 10-speed manual transmission Fuel type Engine brake Fuel tank capacity Tuel tank capacity Optional configuration: Cummins ISX Intake: Turbocharged and intercooled Rated power Allison 7-speed automatic transmission with lock-up torque converter - Optional Engine and transmission, Non-EPA 2010 compliant Cummins ISX Intake: Turbocharged and intercooled Rated power Allison 7-speed automatic transmission with lock-up torque converter Fuel type Engine and transmission, Non-EPA 2010 compliant. Export only, not for use in U.S. or Canada Detroit Diesel 60 Series Intake: Turbocharged and aftercooled Rated power Eaton Fuller 10-speed manual transmission - Standard Allison 7-speed automatic transmission in the lock-up torque converter - Optional Fuel type Diesel Diesel Diesel Diesel Diesel			60,000 lb
Cummins ISX Intake: Turbocharged and intercooled Rated power Eaton Fuller 10-speed manual transmission Fuel type Engine brake Puel tank capacity Coptional configuration: Cummins ISX Intake: Turbocharged and intercooled Rated power Allison 7-speed automatic transmission with lock-up torque converter Fuel type Engine and transmission, Non-EPA 2010 compliant Cummins ISX Intake: Turbocharged and intercooled Rated power Engine and transmission, Non-EPA 2010 compliant Cummins ISX Intake: Turbocharged and intercooled Rated power Allison 7-speed automatic transmission with lock-up torque converter Fuel type Engine and transmission, Non-EPA 2010 compliant. Export only, not for use in U.S. or Canada Detroit Diesel 60 Series Intake: Turbocharged and aftercoooled Rated power Eaton Fuller 10-speed manual transmission - Standard Allison 7-speed automatic transmission with lock-up torque converter - Optional Fuel type Engine and transmission, Non-EPA 2010 compliant. Export only, not for use in U.S. or Canada Detroit Diesel 60 Series Intake: Turbocharged and aftercoooled Rated power Eaton Fuller 10-speed manual transmission - Standard Allison 7-speed automatic transmission with lock-up torque converter - Optional Fuel type Diesel			
Intake: Turbocharged and intercooled Rated power Eaton Fuller 10-speed manual transmission Fuel type Engine brake Fuel tank capacity Toltage Sature Full tank capacity Optional configuration: Engine and transmission, EPA 2010 compliant Cummins ISX Intake: Turbocharged and intercooled Rated power Allison 7-speed automatic transmission with lock-up torque converter Fuel type Engine and transmission, Non-EPA 2010 compliant Cummins ISX Intake: Turbocharged and intercooled Rated power Allison 7-speed automatic transmission with lock-up torque converter Fuel type Engine and transmission, Non-EPA 2010 compliant. Export only, not for use in U.S. or Canada Detroit Diesel 60 Series Intake: Turbocharged and aftercoooled Rated power Eaton Fuller 10-speed manual transmission · Standard Allison 7-speed automatic transmission · Standard Diesel			
Eaton Fuller 10-speed manual transmission Fuel type Engine brake Fuel tank capacity Tologallon Fuel tank capacity Fuel tank capacity Tologallon Fuel tank capacity Tologallon 12 VDC 3 Batteries 1,000 CCA each Alternator Optional configuration: Engine and transmission, EPA 2010 compliant Curmins ISX Intake: Turbocharged and intercooled Rated power Allison 7-speed automatic transmission with lock-up torque converter Fuel type Engine brake Fuel type Engine and transmission, Non-EPA 2010 compliant. Export only, not for use in U.S. or Canada Detroit Diesel 60 Series Intake: Turbocharged and aftercooled Rated power Eaton Fuller 10-speed manual transmission - Standard Allison 7-speed automatic transmission with lock-up torque converter - Optional Fuel type Diesel	'	Intake: Turbocharged and intercooled	
Fuel tank capacity Fuel tank capacity 100 gallon Voltage 3 Batteries Alternator Optional configuration: Engine and transmission, EPA 2010 compliant Cummins ISX Intake: Turbocharged and intercooled Rated power Allison 7-speed automatic transmission with lock-up torque converter Fuel type Engine brake Engine and transmission, Non-EPA 2010 compliant. Export only, not for use in U.S. or Canada Detroit Diesel 60 Series Intake: Turbocharged and aftercooled Rated power Eaton Fuller 10-speed manual transmission - Standard Allison 7-speed automatic transmission in with lock-up torque converter - Optional Fuel type Diesel Diesel Diesel Diesel Diesel			14.9 L / 455 hp @ 1,800 rpm
Fuel tank capacity Voltage 3 Batteries 3 Batteries 4 Iternator Optional configuration: Engine and transmission, EPA 2010 compliant Cummins ISX Intake: Turbocharged and intercooled Rated power Allison 7-speed automatic transmission with lock-up torque converter Fuel type Engine brake Engine and transmission, Non-EPA 2010 compliant. Export only, not for use in U.S. or Canada Detroit Diesel 60 Series Intake: Turbocharged and aftercooled Rated power Eaton Fuller 10-speed manual transmission - Standard Allison 7-speed automatic transmission with lock-up torque converter - Optional Fuel type Diesel 14 L / 455 hp @ 1,800 rpm 14 L / 455 hp @ 1,800 rpm Engine and transmission - Standard Allison 7-speed automatic transmission or Standard Fuel type Diesel		5.	
Voltage 3 Batteries Alternator Optional configuration: Engine and transmission, EPA 2010 compliant Cummins ISX Intake: Turbocharged and intercooled Rated power Allison 7-speed automatic transmission with lock-up torque converter Fuel type Engine and transmission, Non-EPA 2010 compliant. Export only, not for use in U.S. or Canada Detroit Diesel 60 Series Intake: Turbocharged and aftercooled Rated power Eaton Fuller 10-speed manual transmission - Standard Allison 7-speed automatic transmission with lock-up torque converter - Optional Fuel type Diesel		Engine blake	Success type
Alternator Optional configuration: Engine and transmission, EPA 2010 compliant Cummins ISX Intake: Turbocharged and intercooled Rated power Allison 7-speed automatic transmission with lock-up torque converter Fuel type Engine and transmission, Non-EPA 2010 compliant. Export only, not for use in U.S. or Canada Detroit Diesel 60 Series Intake: Turbocharged and aftercooled Rated power Eaton Fuller 10-speed manual transmission - Standard Allison 7-speed automatic transmission with lock-up torque converter - Optional Fuel type Diesel Diesel		Fuel tank capacity	100 gallon
Alternator Optional configuration: Engine and transmission, EPA 2010 compliant Cummins ISX Intake: Turbocharged and intercooled Rated power Allison 7-speed automatic transmission with lock-up torque converter Fuel type Engine brake Engine and transmission, Non-EPA 2010 compliant. Export only, not for use in U.S. or Canada Detroit Diesel 60 Series Intake: Turbocharged and aftercooled Rated power Eaton Fuller 10-speed manual transmission - Standard Allison 7-speed automatic transmission with lock-up torque converter - Optional Fuel type Diesel Diesel	, ,	Voltage	12 VDC
Engine and transmission, EPA 2010 compliant Cummins ISX Intake: Turbocharged and intercooled Rated power Allison 7-speed automatic transmission with lock-up torque converter Fuel type Engine brake Engine and transmission, Non-EPA 2010 compliant. Export only, not for use in U.S. or Canada Detroit Diesel 60 Series Intake: Turbocharged and aftercooled Rated power Eaton Fuller 10-speed manual transmission - Standard Allison 7-speed automatic transmission with lock-up torque converter - Optional Fuel type Diesel 14 L / 455 hp @ 1,800 rpm 14 L / 455 hp @ 1,800 rpm Diesel			
Engine and transmission, EPA 2010 compliant Cummins ISX Intake: Turbocharged and intercooled Rated power Allison 7-speed automatic transmission with lock-up torque converter Fuel type Engine brake Engine and transmission, Non-EPA 2010 compliant. Export only, not for use in U.S. or Canada Detroit Diesel 60 Series Intake: Turbocharged and aftercooled Rated power Eaton Fuller 10-speed manual transmission - Standard Allison 7-speed automatic transmission with lock-up torque converter - Optional Fuel type Diesel 14 L / 455 hp @ 1,800 rpm 14 L / 455 hp @ 1,800 rpm Diesel			
Cummins ISX Intake: Turbocharged and intercooled Rated power Allison 7-speed automatic transmission with lock-up torque converter Fuel type Engine brake Engine and transmission, Non-EPA 2010 compliant. Export only, not for use in U.S. or Canada Detroit Diesel 60 Series Intake: Turbocharged and aftercooled Rated power Eaton Fuller 10-speed manual transmission - Standard Allison 7-speed automatic transmission with lock-up torque converter - Optional Fuel type 14.9 L / 500 hp @ 1,600 rpm Diesel		Optional configuration:	
Intake: Turbocharged and intercooled Rated power Allison 7-speed automatic transmission with lock-up torque converter Fuel type Engine brake Engine and transmission, Non-EPA 2010 compliant. Export only, not for use in U.S. or Canada Detroit Diesel 60 Series Intake: Turbocharged and aftercoooled Rated power Eaton Fuller 10-speed manual transmission - Standard Allison 7-speed automatic transmission with lock-up torque converter - Optional Fuel type 14.9 L / 500 hp @ 1,600 rpm Diesel		· · · · · · · · · · · · · · · · · · ·	
Allison 7-speed automatic transmission with lock-up torque converter Fuel type Engine brake Engine and transmission, Non-EPA 2010 compliant. Export only, not for use in U.S. or Canada Detroit Diesel 60 Series Intake: Turbocharged and aftercoooled Rated power Eaton Fuller 10-speed manual transmission - Standard Allison 7-speed automatic transmission with lock-up torque converter - Optional Fuel type Diesel		Intake: Turbocharged and intercooled	
Engine brake Engine and transmission, Non-EPA 2010 compliant. Export only, not for use in U.S. or Canada Detroit Diesel 60 Series Intake: Turbocharged and aftercoooled Rated power Eaton Fuller 10-speed manual transmission - Standard Allison 7-speed automatic transmission with lock-up torque converter - Optional Fuel type Diesel		·	14.9 L / 500 hp @ 1,600 rpm
Engine and transmission, Non-EPA 2010 compliant. Export only, not for use in U.S. or Canada Detroit Diesel 60 Series Intake: Turbocharged and aftercoooled Rated power Eaton Fuller 10-speed manual transmission - Standard Allison 7-speed automatic transmission with lock-up torque converter - Optional Fuel type Engine and transmission, Non-EPA 2010 compliant. Export only, not for use in U.S. or Canada 14 L / 455 hp @ 1,800 rpm Diesel		Fuel type	
Detroit Diesel 60 Series Intake: Turbocharged and aftercoooled Rated power Eaton Fuller 10-speed manual transmission - Standard Allison 7-speed automatic transmission with lock-up torque converter - Optional Fuel type Diesel		Ligito blake	Success type
Intake: Turbocharged and aftercoooled Rated power Eaton Fuller 10-speed manual transmission - Standard Allison 7-speed automatic transmission with lock-up torque converter - Optional Fuel type Diesel			
Eaton Fuller 10-speed manual transmission - Standard Allison 7-speed automatic transmission with lock-up torque converter - Optional Fuel type Diesel	'	Intake: Turbocharged and aftercoooled	441 /4551 04 202
Fuel type Diesel			14 L / 455 hp @ 1,800 rpm
••		Allison 7-speed automatic transmission with lock-up torque converter - Optional	Diesel
		Engine brake	Jacobs type



T 780-1

Effective Date: September 2012. Product specifications and prices are subject to change without notice or obligation. The photographs and/or drawings in this document are for illustrative purposes only. Refer to the appropriate Operator's Manual for instructions on the proper use of this equipment. Failure to follow the appropriate Operator's Manual when using our equipment or to otherwise act irresponsibly may result in serious injury or death. The only warranty applicable to our equipment is the standard written warranty applicable to the particular product and sale and Terex makes no other warranty, express or implied. Products and services listed may be trademarks, service marks or trade-names of Terex Corporation and/or its subsidiaries in the USA and other countries. All rights are reserved. Terex® is a registered trademark of Terex Corporation in the USA and many other countries. Copyright 2012 Terex Corporation.

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