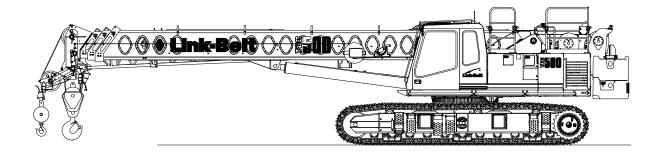
Tel: (888) 337-BIGGE or (510) 638-8100 Web: www.bigge.com

5705 (supercedes 5646)-1114-S5

Technical Data

Specifications & Capacities





CAUTION: This material is supplied for reference use only. Operator must refer to in—cab Crane Rating Manual and Operator's Manual to determine allowable crane lifting capacities and assembly and operating procedures.

Link-Belt Cranes

TCC-500







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Upper Structure

Frame

All welded steel frame with precision machined surfaces for mating parts.

Turntable Bearing

- Inner race is bolted to upper frame
- Outer race with external swing gear is bolted to lower frame

Engine

Engine

Full pressure lubrication, oil filter, air cleaner, hour meter, throttle, and electric control shutdown.

	Cummins QSB		
Specification	Tier 4f (Stage 3B)	Tier 3 (Stage 3A)	
Numbers of Cylinders	6	6	
Cycle	4	4	
Bore & Stroke: inch (mm)	4.21 x 4.88 (107 x 124)	4.21 x 4.88 (107 <i>x 124</i>)	
Piston Displacement: in ³ (L)	409 (6.7)	409 (6.7)	
Max. Brake Horsepower: hp (kW)	215 (<i>160</i>) @ 1,800 rpm	205 (153) @ 1,800 rpm	
Peak Torque: ft lb (Nm)	700 (949) @ 1,500 rpm	689 (929) @ 1,300 rpm	
Alternator: volt – amps	12 — 150	12 — 160	
Crankcase Capacity: qt (L)	19 (<i>18</i>)	19 (<i>18</i>)	

Engine driven variable speed viscus fan clutch and thermostatically controlled

Fuel Tank

One 80 gal (303L) capacity fuel tank.

Hydraulic System

Hydraulic Pumps

The pump arrangement is designed to provide hydraulically powered functions allowing positive, precise control with independent or simultaneous operation of all crane functions.

- · One variable displacement pumps provide independent control for hoist drums, boom hoist, boom extend, and right & left travel.
- Two gear type pumps are used for the swing, retract cylinders & operator's controls and hydraulic oil cooling fan.

Hydraulic Reservoir

133 gal (504L) capacity equipped with sight level gauge. Diffusers built in for deaeration.

Filtration

One 10 micron, full flow return line filter. Accessible for easy filter replace-

Counterbalance Valves

All hoist motors are equipped with counterbalance valves to provide positive load lowering and prevent accidental load drop if the hydraulic pressure is suddenly

Load Hoist Drums

Main and Optional Auxiliary Winches

- Axial piston, full and half displacement (2-speed) motor driven through planetary reduction unit for positive control under all load conditions.
- Grooved lagging
- Power up/down mode of operation
- Hoist drum cable follower optional
- Drum rotation indicator
- Drum diameter: 10.63 in (27cm)
- Rope length:
- Main: 600 ft (182.9m)
- Auxiliary: 450 ft (137.2m) or 600 ft (182.9m)
- Maximum rope storage: 737 ft (224.6m)
- Terminator style socket and wedge

Third wrap indicator - optional - Visually and audibly warns the operator when the wire rope is on the first/bottom layer and when the wire rope is down to the last three wraps

Swing System

Motor/Planetary - Bi-directional hydraulic swing motor mounted to a planetary reducer for 360° continuous smooth swing at 2.0 rpm

Swing Park Brake - 360°, electric over hydraulic, (spring applied/hydraulic released) multi-disc brake mounted on the speed reducer. Operated by a switch in the operator's cab.

Swing Brake - 360°, foot operated, hydraulic applied disc brake mounted to the speed reducer

House Lock – Two-position house lock (boom over front or rear) operated from the operator's cab

Counterweight

Consists of a five piece design.

- · One "A" counterweight, 12,000 lb (5 443kg)
- One "B" counterweight, 13,000 lb (5 897kg)
- Optional one "C" counterweight, 5,000 lb (2 268kg)
- · Optional two "A" carbody counterweights, 3,000 lb (1 361kg) each with tool box built in

Operator's Cab

Fully enclosed modular steel compartment is independently mounted and padded to protect against vibration and noise.

- All tinted/tempered safety glass
- Sliding entry door and front and rear
- Swing up roof window with windshield wiper
- Door and window locks
- Hot water heater
- Air conditioner
- Sun visor
- Cloth seat
- Circulating fan
- Windshield wipers and washer Dry chemical fire extinguisher
- Engine instrumentation panel (tachome-
- ter, voltmeter, engine oil pressure, engine water temperature, fuel level, hydraulic oil temperature, hour meter, and service monitor system)
- Mechanical drum rotation indicators for main (rear) and auxiliary (front) hoist drums
- Six way adjustable seat
- Foot throttle
- Joystick controls
- Optional fully adjustable single axis controls
- Bubble type level
- Ergonomic gauge layout
- · Controls shut off lever
- AM/FM Radio
- Travel levers & pedals
- Camera (winch & rear view)

Rated Capacity Limiter System

Link—Belt Pulse — The Link—Belt in—house designed, total crane operating system that utilizes the display as a readout and operator interface for the following systems:

- · Crane configuration
- · Boom length
- · Boom head height
- · Allowed load and % of allowed load
- Data logging
- Boom angle
- · Radius of load
- Actual load

- · Operator settable alarms (include):
- Maximum and minimum boom angles
- · Maximum tip height
- · Maximum boom length
- Swing left/right positions
- Operator defined area (imaginary plane)

Telematics – Cellular-based data logging and monitoring system that provides:

- · Location and operational settings
- · Routine maintenance
- · Crane and engine monitoring
- · Diagnostic and fault codes

Machinery House

Hinged doors (four on right side) for machinery access.

Catwalks

Standard on right and left sides. Catwalks fold up and pin for reduced travel width.

Optional Vandal Guards

Under design

Lower Structure

Carbody

Lower Frame

All welded box construction frame with precision machined surfaces for turntable bearing and rotating joint.

Side Frames

Side Frames

All welded, precision machined, steel frames can be hydraulically extended and retracted with a hydraulic cylinder mounted in the lower frame.

- 12 ft 6.88 in (3.83m) extended gauge
- 10 ft 10.62 in (3.31m) intermediate gauge
- 8 ft 9.74 in (2.68m) retracted gauge
- 19 ft 6.19 in (5.95m) overall length
- 31 in 6 in (0.80m) wide track shoes
- Sealed (oil filled) idler and drive planetaries
- Compact travel drives
- Hydraulic self adjusting tracks

Track Rollers

- Eleven sealed (oil filled) track rollers per side frame
- Heat treated, mounted on anti-friction bearings

Tracks

Heat treated, self—cleaning grouser shoes and heat treated track pins with dirt seals. 61 track shoes per side.

· Optional flat or "street" pad

Take Up Idlers

Cast steel, heat treated, self-cleaning, mounted on sealed tapered roller bearings

Travel and Steering

Each side frame contains a pilot controlled, bi—directional, axial piston motor and a planetary gear reduction unit to provide positive control under all load conditions.

- 2—speed travel
- Individual control provides smooth, precise maneuverability including full counter—rotation.
- Spring applied, hydraulically released multiple wet—disc type brake controlled automatically
- Maximum travel speed is 2 mph (3.2km/h).
- Designed to 40% gradeability

Tool Boxes

Two heavy duty steel design tool boxes that bolt onto the carbody.



Boom

Design

Four section, box type construction of high tensile steel consisting of one base section and three telescoping sections. The vertical side plates have diamond shaped steel impressions for superior strength to weight ratio. The first telescoping section extends independently by means of one double-acting, single stage hydraulic cylinder with integrated holding valves. The second and third telescoping sections extend proportionally by means of one double-acting, single stage cylinder with integrated holding valves and cables.

Boom

- 35 ft 6 in-110 ft (10.8-33.8m) four section full power boom
- Two mode boom extension: A*max mode provides superior capacities by extending the first telescoping section to 60 ft 4 in (18.4m). Standard mode synchronizes all the telescoping sections proportionally to 110 ft (33.5m). Controlled from the operator's
- Mechanical boom angle indicator
- Maximum tip height for A-max mode is 67 ft (20.4m) and standard mode is 115 ft 6 in (35.2m).

Boom Head

- Four 16.5 in (41.9cm) root diameter sealed bearings nylon sheaves to handle up to eight parts of line
- · Easily removable wire rope guards
- Rope dead end lugs on each side of the boom head
- designed Boom head is quick-reeve of the hook block

Boom Elevation

- · One double acting hydraulic cylinder with integral holding valve
- Boom elevation: -3° to 78°

Optional Equipment

Auxiliary Lifting Sheave

- Single 16.5 in (41.9m) root diameter nylon sheave
- Easily removable wire rope guard
- Does not affect erection of the fly or use of the main head sheaves

Hook Blocks And Balls

- 25 ton (22.3mt) 3 sheave quick-reeve hook block with safety latch
- 40 ton (36.3mt) 4 sheave quick-reeve hook block with safety latch
- 50 ton (44.6mt) 5 sheave quick-reeve hook block with safety latch
- 8.5 ton (7.7mt) swivel and non-swivel hook balls with safety latch

Fly & Attachments

- 28.5 ft (11.7m) one piece lattice flv. stowable, offsettable to 2°, 20°, and 40°. Maximum tip height is 143.5 ft (43.74m).
- 28.5-51 ft (8.7-15.6m) two piece bi-fold lattice fly, stowable, offsettable to 2°, 20°, and 40°. Maximum tip height is 165.5 ft (50.44m).

Work Platform

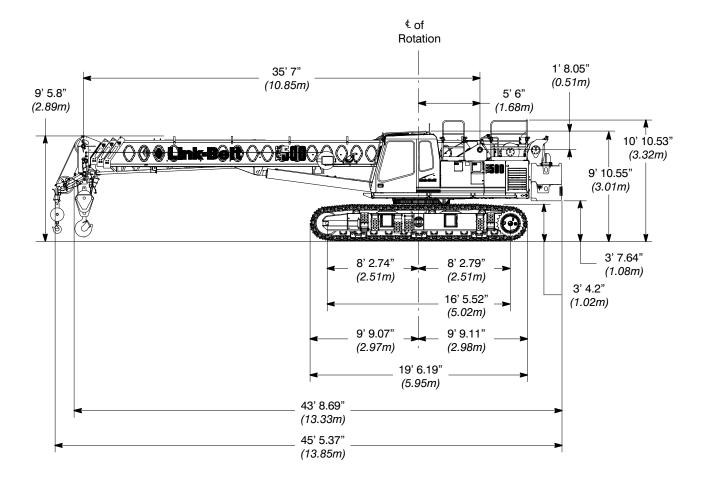
· Boom mounted work platform under design.

Auger Mounting (Under Design)

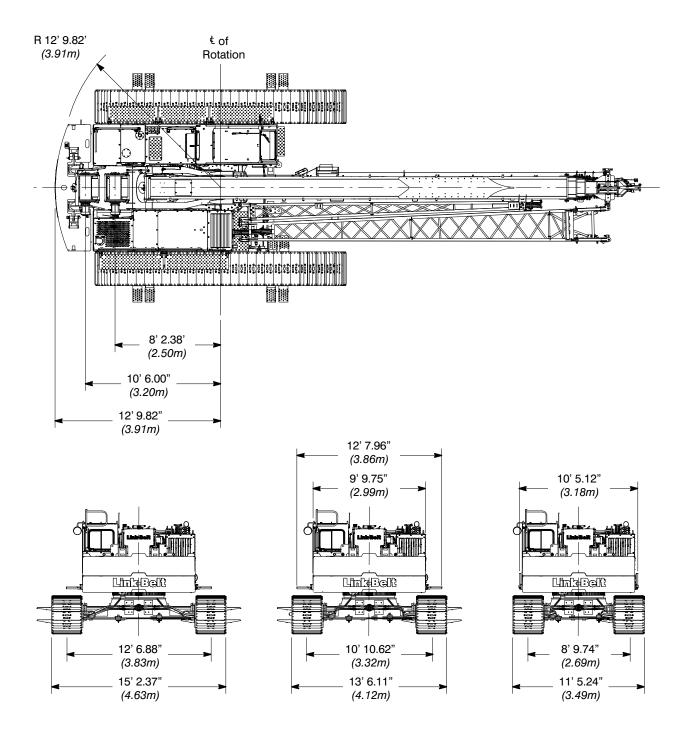
This option provides for all parts required for installation of "Pengo Model DT15 & RT-20 Augers". Included in option are all operator cabin controls, main hydraulic valve, and plumbing. The auger mounts to the boom tip section in operational mode and stores on the base section when not working. Design allows for limited boom extend and retract while drilling, allowing for straight vertical drilling.

Dimensions Base Crane

General Dimensions	English	Metric
Basic Boom	35.5-110 ft	10.8-33.5m
Minimum Load Radius	10 ft	3.05m
Maximum Boom Angle	78°	78°
Track Shoe Width	31.5 in	0.80m



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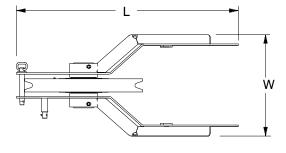


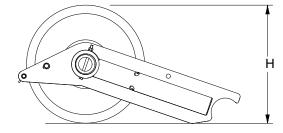
5705 (supercedes 5646)-1114-S5

Auxiliary Lifting Sheave

Auxiliary Lifting Sheave 0

Length	35.31 in	(0.90m)
Width	16.31 in	(0.41m)
Height	19 in	(0.48m)
Weight	92.5 lb	(42kg)

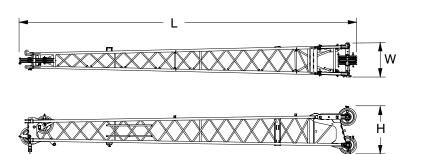




Fly

28.5 ft (8.69m) Offset Fly One Piece Lattice Fly (Base Fly)

Length	28.5 ft	(8.69m)
Width	29 in	(0.74m)
Height	30 in	(0.76m)
Weight	1,188 lb	(539kg)





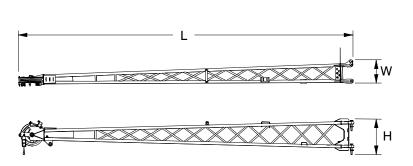
Length	22.5 ft	(6.86m)
Width	13.78 in	(0.35m)
Height	20 in	(0.51m)
Weight	654 lb	(297kg)

Number inside black circle " $m{0}$ " = # of components

0

* - Optional equipment

Bi-fold Fly)

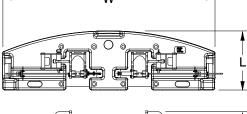


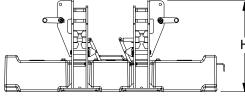
5705 (supercedes 5646)-1114-S5

Counterweights

"A" Counterweight

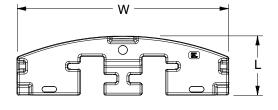
Length	32.90 in	(0.84m)
Width	9 ft 10 in	(3.00m)
Height	4 ft 2.18 in	(1.28m)
Weight	12,000 lb	(5 443kg)

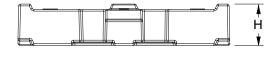




"B" Counterweights

32.90 in	(0.84m)
9 ft 10 in	(3.00m)
23 in	(0.58m)
13,000 lb	(5 897kg)
	9 ft 10 in 23 in





Optional "C"

Counterweights

0

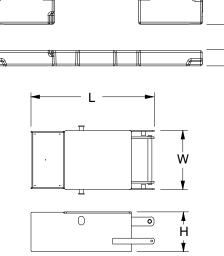
Length	32.90 in	(0.84m)
Width	9 ft 10 in	(3.00m)
Height	8.50 in	(0.22m)
Weight	5,000 lb	(2 268kg)

Optional "A" Carbody Counterweights

0

Length	62.50 in	(1.59m)
Width	30 in	(0.76m)
Height	20.12 in	(0.51m)
Weight	3,000 lb	(1 361kg)

Number inside black circle "0" = # of components



^{* -} Optional equipment

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Hook Balls

8.5 Ton (7.7mt) Swivel Hook Ball*

HOOK E	<u>Jaii</u>		
Width	14.50 in	(0.37m)	
Height	33.75 in	(0.86m)	
Weight	325 lb	(163kg)	

8.5 Ton (7.7mt) Non—Swivel

HOOK E	<u>paii"</u>		
Width	14.50 in	(0.37m)	
Height	33.80 in	(0.86m)	
Weight	360 lb	(163kg)	

Hook Blocks

25 Ton (22.3mt)

3-Sheave Hook Block*

Width1	15.14 in	(0.39m)
Width2	17.88 in	(0.45m)
Height	41.17 in	(1.05m)
Weight	670 lb	(304kg)

40 Ton (36.3mt)

4-Sheave Hook Block*

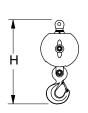
Width1	16.44 in	(0.42m)
Width2	17.88 in	(0.45m)
Height	47.82 in	(1.22m)
Weight	780 lh	(354ka)

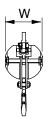
50 Ton (44.6mt)

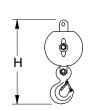
5-Sheave Hook Block*

Width1	18.75 in	(0.48m)
Width2	18.25 in	(0.46m)
Height	52.31 in	(1.33m)
Weiaht	1.090 lb	(494ka)

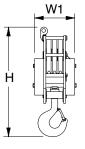
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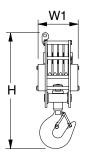


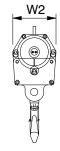


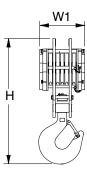


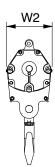












^{* -} Optional equipment

0

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Augers

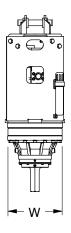
DT-15 Auger*

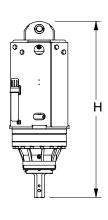
 Width
 16.12 in
 (0.41m)

 Height
 52.12 in
 (1.32m)

 Weight
 710 lb
 (322kg)

 Hex Shaft
 2.5 in
 (6.35cm)





RT-20 Auger*

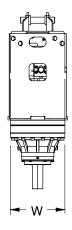
Width

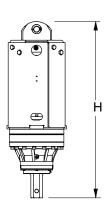
16.12 in (0.41m)

 Height
 52.12 in
 (1.32m)

 Weight
 737 lb
 (334kg)

 Hex Shaft
 3 in
 (7.62cm)





Number inside black circle " $oldsymbol{0}$ " = # of components

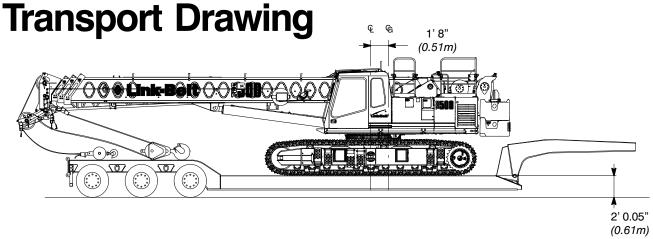
* - Optional equipment

Link-Belt Cranes

TCC-500

Working Weights

Option	Description	Gross Weight lb (kg)	Ground Bearing Pressure (on soft ground) psi (kg/cm²)
1	Base crane, "AB" counterweight, lower toolbox, 600 ft (182.9m) type "ZB" main wire rope, 450 ft (137.2m) type "ZB" auxiliary wire rope, 2—piece fly, 40 ton (36.29mt) 4 sheave hook block, 8.5 ton (7.71mt) hook ball, and a 250 lb (113kg) operator.	100,000 (45 359kg)	8.88 (0.62)
Notes:	Ground bearing pressure is based on the total weight distributed evenly over the track contact area.		



Transport Weight — 99,750 lb (45 246kg)

Base crane, "AB" Counterweight, 600 ft (182.9m) type "ZB" main wire rope, 450 ft (137.2m) type "ZB" auxiliary wire rope, 2—piece fly, 40 ton (36.29mt) 4 sheave hook block, and 8.5 ton

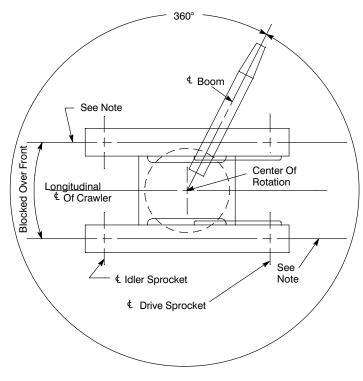
Load Hoist Performance

	Main (Rear) and Auxiliary (Front) Winches — 5/8 in (16mm) Rope												
	Maximum Line Pull		Normal Line Speed		High Line Speed		Layer		Total				
Layer	lb	kN	ft/min	m/min	ft/min	m/min	ft	m	ft	m			
1	17,084	75.99	181	55.2	360	109.6	97	29.6	97	29.6			
2	15,454	68.74	200	61.1	398	121.2	107	32.6	205	62.4			
3	14,107	62.75	219	66.9	436	132.8	118	35.9	322	98.3			
4	12,977	57,72	239	72.7	474	144.3	128	39.0	451	137.3			
5	12,014	53.44	258	78.6	511	155.9	138	42.1	589	179.5			
6	11,184	49.75	277	84.4	549	167.5	149	45.3	737	224.7			

Wire Rope Application		Dian	neter	Туре		Maximum Permissible Load		
		in	mm		lb	kg		
	Standard	5/8	16	34x7 rotation resistant — right regular lay or right lang lay (Type ZB)	11,080	5 025.8		
Main (Rear) Winch	Optional	5/8	16	18x19 rotation resistant - right regular lay or right lang lay (Type RB)	9,080	4 118.6		
	Optional	5/8	16	6x19 IWRC - right regular lay (Type DB)	11,771	5 339.2		
(5	Standard	5/8	16	34x7 rotation resistant — right regular lay (Type ZB)	11,080	5 025.8		
Auxiliary (Front) Winch	Optional	5/8	16	18x19 rotation resistant - right regular lay (Type RB)	9,080	4 118.6		
· · · · · · · · · · · · · · · · · · ·	Optional	5/8	16	6x19 IWRC - right regular lay (Type DB)	11,771	5 339.2		

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Working Areas

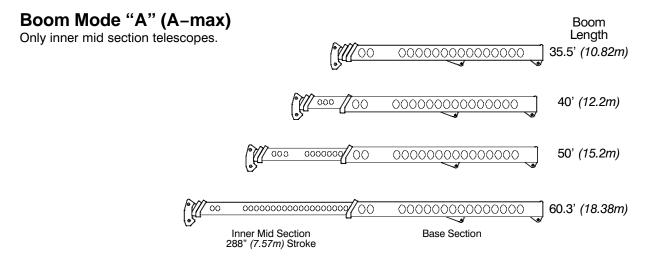


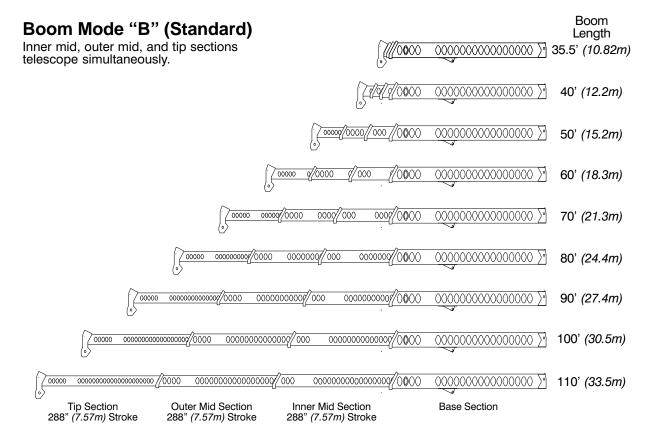
Note: These Lines Determine The Limiting Position Of Any Load For Operation Within Working Areas Indicated.



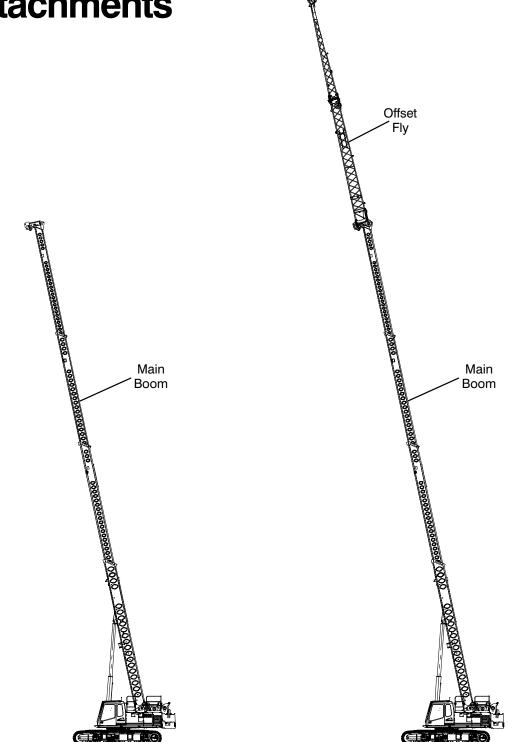
5705 (supercedes 5646)-1114-S5

Boom Extend Modes





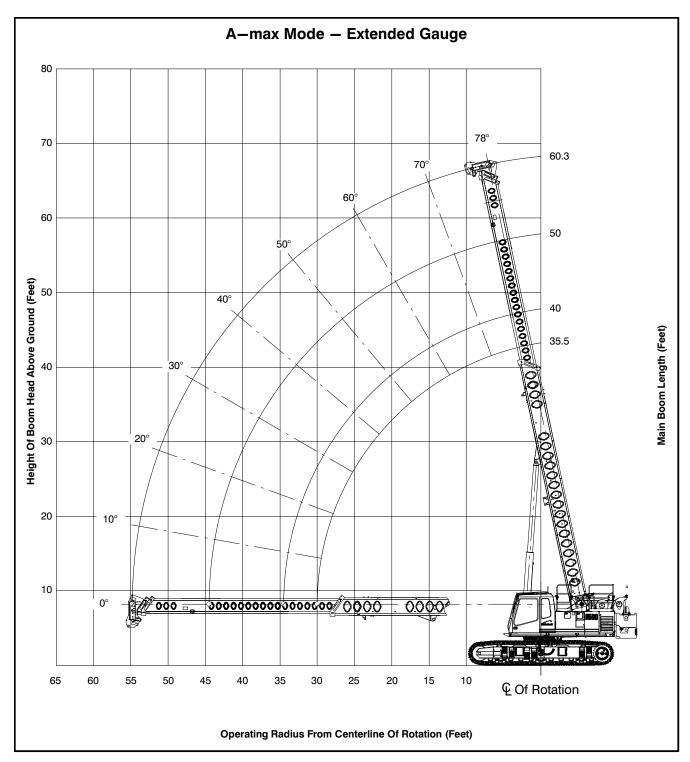
Attachments

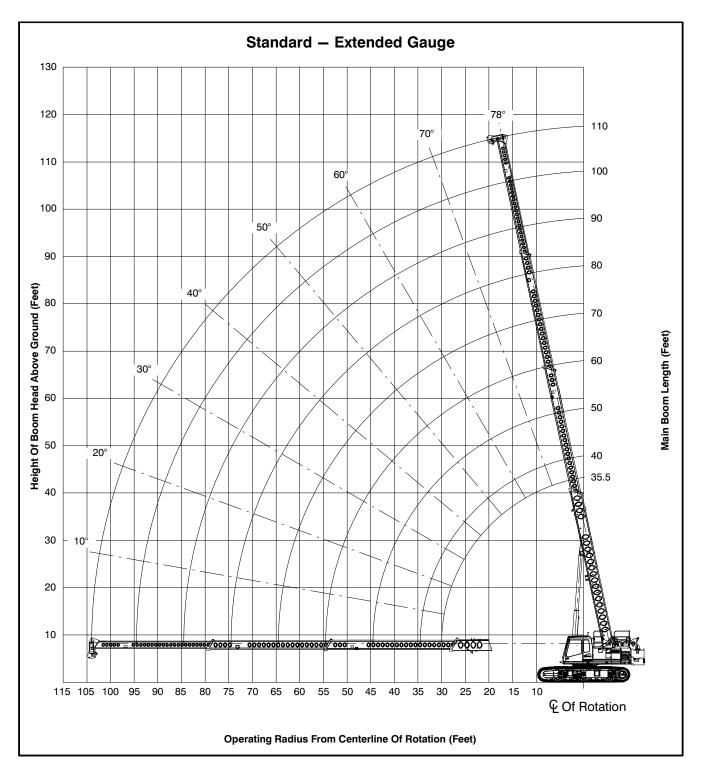


35.5-110 ft (10.82-33.53m) Main Boom

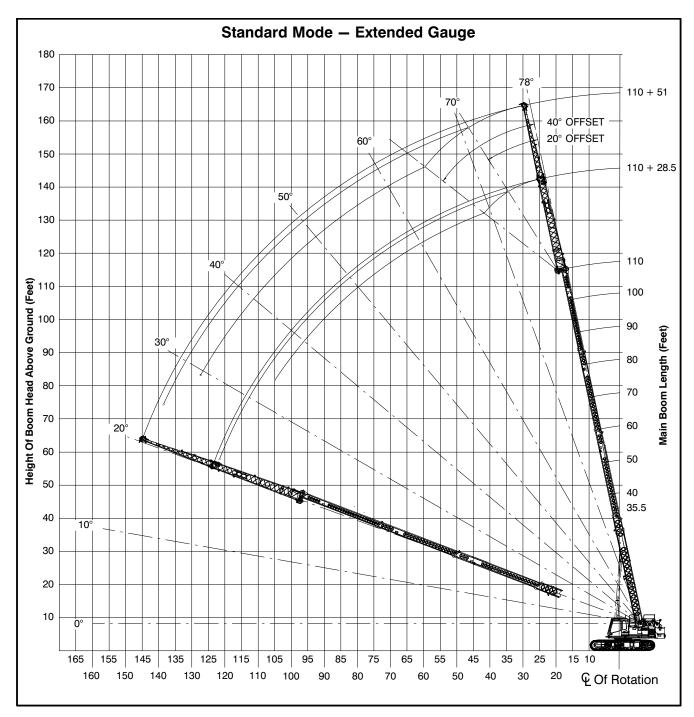
35.5-110 ft (10.82-33.53m) Main Boom With 28.5-51 ft (8.69-15.54m) Offset Fly

Main Boom Working Range Diagrams





Main Boom + Fly Working Range Diagrams



Main Boom Load Charts

		Main Boom	Lift Capacit AB-	-0 [25,000 II	60° Rotatio (11 340kg) ies are listed] Counterwe	ames Extend eight	ded Position				
Load	Boom Length ft (m)											
Radius ft (m)	35.5 (10.8)	40.0 (12.2)	50.0 (15.2)	60.0 (18.3)	70.0 (21.3)	80.0 (24.4)	90.0 (27.4)	100.0 (30.5)	110.0 <i>(</i> 33.5 <i>)</i>	Load Radius ft (m)		
10.0 (3.0)	100.0 <i>(45.4)</i>	84.0 (38.1)	82.1 (37.2)							10.0 (3.0)		
12.0 (3.7)	88.1 <i>(40.0)</i>	84.0 (38.1)	79.0 <i>(</i> 35.8)	53.2 (24.1)	39.0 (17.7)					12.0 (3.7)		
15.0 (4.6)	76.8 (34.8)	74.5 (33.8)	69.1 <i>(31.3)</i>	51.1 (23.2)	39.0 (17.7)	40.0 (18.1)				15.0 (4.6)		
20.0 (6.1)	47.0 (21.3)	46.8 (21.2)	46.2 (21.0)	42.1 (19.1)	39.0 (17.7)	37.8 (17.1)	31.2 (14.2)			20.0 (6.1)		
25.0 (7.6)	32.3 (14.7)	32.7 (14.8)	33.3 (15.1)	33.6 (15.2)	33.7 (15.3)	33.2 (15.1)	27.4 (12.4)	24.7 (11.2)	20.0 (9.1)	25.0 (7.6)		
30.0 (9.1)		24.2 (11.0)	24.8 (11.2)	25.2 (11.4)	25.3 (11.5)	25.4 (11.5)	24.2 (11.0)	21.7 (9.8)	19.9 (9.0)	30.0 (9.1)		
35.0 (10.7)			19.3 (8.8)	19.7 (8.9)	19.9 (9.0)	20.0 (9.1)	20.1 (9.1)	19.4 (8.8)	17.8 (8.1)	35.0 (10.7)		
40.0 (12.2)			15.4 (7.0)	15.8 (7.2)	16.0 (7.3)	16.2 (7.3)	16.3 (7.4)	16.3 (7.4)	16.0 (7.3)	40.0 (12.2)		
45.0 (13.7)				12.9 (5.9)	13.2 (6.0)	13.3 (6.0)	13.4 (6.1)	13.5 (6.1)	13.5 (6.1)	45.0 (13.7)		
50.0 (15.2)				10.7 (4.9)	11.0 (5.0)	11.2 (5.1)	11.2 (5.1)	11.3 (5.1)	11.3 (5.1)	50.0 (15.2)		
55.0 (16.8)					9.2 (4.2)	9.4 (4.3)	9.5 (4.3)	9.6 (4.4)	9.7 (4.4)	55.0 (16.8)		
60.0 (18.3)					7.8 (3.5)	8.0 (3.6)	8.1 (3.7)	8.2 (3.7)	8.3 (3.8)	60.0 (18.3)		
65.0 (19.8)						6.8 (3.1)	6.9 (3.1)	7.0 (3.2)	7.1 (3.2)	65.0 (19.8)		
70.0 (21.3)						5.8 (2.6)	5.9 (2.7)	6.0 (2.7)	6.1 (2.8)	70.0 (21.3)		
75.0 (22.9)							5.1 (2.3)	5.2 (2.4)	5.2 (2.4)	75.0 (22.9)		
80.0 (24.4)							4.3 (2.0)	4.4 (2.0)	4.5 (2.0)	80.0 (24.4)		
85.0 (25.9)								3.8 (1.7)	3.9 (1.8)	85.0 (25.9)		
90.0 (27.4)								3.2 (1.5)	3.3 (1.5)	90.0 (27.4)		
95.0 (29.0)									2.8 (1.3)	95.0 (29.0)		
100.0									2.4	100.0		

This material is supplied for reference use only. Operator must refer to in—cab Crane Rating Manual and Operator's Manual to determine allowable crane lifting capacities and assembly and operating procedures.

Link-Belt Cranes TCC-500

* 51 metric ton base rating obtained @ 2.5 meters

(30.5)

5705 (supercedes 5646)-1114-S5

3.4

(1.5)

100.0

(30.5)

Main Boom Lift Capacity Chart — 360° Rotation — Side Frames Ir ABC+A [36,000 lb (16 329kg)] Counterweight Rotation - Side Frames Intermediate Position [All capacities are listed in kips (mt)] Boom Length ft (m) Load Load Radius 110.0 *(*33.5) Radius 40.0 50.0 60.0 70.0 90.0 100.0 35.5 0.08 ft (m) ft (m) (15.2)(10.8)(18.3)(21.3)(24.4)(27.4)(30.5)(12.2)10.0 100.0 84.0 10.0 (3.0)(45.4)(38.1)(37.2)(3.0)12.0 88.1 84.0 79.0 53.2 39.0 12.0 (3.7)(40.0)(38.1)(35.8)(24.1)(17.7)(3.7)76.8 74.5 69.1 51.1 39.0 40.0 (4.6)(34.8)(33.8)(31.3)(23.2)(17.7) (18.1)(4.6)20.0 54.4 54.2 53.6 42.1 39.0 37.8 31.2 20.0 (6.1)(24.7)(24.6)(24.3)(19.1)(17.7)(17.1)(14.2)(6.1)37.6 38.1 38.5 38.5 39.0 33.2 27.4 24.7 20.0 25.0 (7.6)(17.1)(17.3)(17.5)(17.5)(17.7) (15.1)(12.4)(11.2)(9.1)(7.6)30.0 28.4 29.1 29.4 29.6 29.6 24.2 21.7 19.9 30.0 (9.1)(12.9)(13.4)(9.1)(13.2)(13.3)(13.4)(11.0)(9.8)(9.0)35.0 (10.7) 22.8 23.1 23 4 23 4 35.0 21.4 19.4 17.8 (10.3)(10.6)(10.7)(10.5)(10.6)(9.7)(8.8)(8.1)19.0 19.2 40.0 (12.2) 18.4 18.8 19.2 17.4 40.0 (12.2) 16.0 (8.3)(8.6)(8.7) (8.5)(8.7)(7.9)(7.3)45.0 (13.7) 45.0 (13.7) 15.5 15.8 15.9 16.0 15.7 144 (7.0)(6.5)(7.2)(7.2)(7.3)(7.1)50.0 (15.2) 50.0 (15.2) 13.0 13.2 13.4 13.5 13.6 13.1 (5.9)(6.0)(6.1)(6.1)(5.9)(6.2)55.0 (16.8) 11.3 55.0 (16.8) 114 11.5 116 117 (5.1)(5.2)(5.2)(5.3)(5.3)60.0 9.7 9.8 10.0 10.1 10.1 60.0 (18.3) (18.3) (4.4)(4.4)(4.5)(4.6)(4.6)65.0 8.5 8.6 8.7 8.8 65.0 (19.8) (19.8)(3.9)(3.9)(3.9)(4.0)7.4 7.5 7.6 70.0 70.0 7.7 (21.3) (21.3)(3.4)(3.4)(3.4)(3.5)75.0 6.5 6.6 6.7 75.0 (22.9) (2.9)(3.0)(3.0)(22.9)80.0 5.7 5.8 5.9 80.0 (24.4) (2.6)(24.4)(2.6)(2.7)85.0 5.1 5.1 85.0 (25.9)(2.3)(2.3)(25.9)90.0 4.4 4.5 90.0 (27.4) (2.0)(27.4) (2.0)95.0 3.9 (29.0)(29.0)(1.8)

This material is supplied for reference use only. Operator must refer to in—cab Crane Rating Manual and Operator's Manual to determine allowable crane lifting capacities and assembly and operating procedures.

TCC-500 Link-Belt Cranes

100.0 (30.5)



Main Boom + Fly Load Charts

90 ft (27.4m) Main Boom + Fly - 360° Rotation - Standard Mode - Side Frames Extended Position AB+0 [25,000 lb (11 340kg)] Counterweight

	[All capacities are listed in kips (mt)]										
Load	28	3.25 ft Manual Offset I	Fly		51 ft Manual Offset Fly						
Radius ft (m)	2°	20°	40°	2°	20°	40°	Radius ft (m)				
30 (9.1)	16.7 <i>(7.6)</i>						30 (9.1)				
35 (10.7)	15.5 (7.0)			9.7 (4.4)			35 (10.7)				
40 (12.2)	14.5 (6.6)	10.5 (4.8)		8.6 (3.9)			40 (12.2)				
45 (13.7)	13.5 (6.1)	9.9 <i>(4.5)</i>	7.9 (3.6)	8.1 (3.7)			45 (13.7)				
50 (15.2)	12.0 <i>(5.4)</i>	9.4 (4.3)	7.6 (3.4)	7.5 (3.4)	5.4 (2.4)		50 (15.2)				
55 (16.8)	10.4 <i>(4.7)</i>	8.9 (4.0)	7.4 (3.4)	7.0 (3.2)	5.1 (2.3)		55 (16.8)				
60 (18.3)	8.9 <i>(4.0)</i>	8.7 (3.9)	7.2 (3.3)	6.5 (2.9)	4.9 (2.2)		60 (18.3)				
65 (19.8)	7.7 (3.5)	8.2 (3.7)	7.0 (3.2)	6.1 (2.8)	4.6 (2.1)	3.7 (1.7)	65 (19.8)				
70 (21.3)	6.7 (3.0)	7.2 (3.3)	6.8 (3.1)	5.7 (2.6)	4.4 (2.0)	3.5 (1.6)	70 (21.3)				
75 (22.9)	5.9 (2.7)	6.2 (2.8)	6.5 (2.9)	5.4 (2.4)	4.2 (1.9)	3.4 (1.5)	75 (22.9)				
80 (24.4)	5.1 (2.3)	5.5 (2.5)	5.7 (2.6)	5.1 (2.3)	4.0 (1.8)	3.3 (1.5)	80 (24.4)				
85 (25.9)	4.5 (2.0)	4.8 (2.2)	4.9 (2.2)	4.8 (2.2)	3.9 (1.8)	3.3 (1.5)	85 <i>(</i> 25.9)				
90 (27.4)	3.9 (1.8)	4.1 (1.9)	4.3 (2.0)	4.4 (2.0)	3.7 (1.7)	3.2 (1.5)	90 (27.4)				
95 (29.0)	3.4 (1.5)	3.6 (1.6)	3.7 (1.7)	3.9 (1.8)	3.6 (1.6)	3.1 (1.4)	95 (29.0)				
100 (30.5)	2.9 (1.3)	3.1 <i>(1.4)</i>		3.4 (1.5)	3.5 (1.6)	3.1 (1.4)	100 <i>(30.5)</i>				
105 (32.0)	2.5 (1.1)	2.6 (1.2)		3.0 (1.4)	3.4 (1.5)	3.1 (1.4)	105 (32.0)				
110 (33.5)	2.2 (1.0)			2.7 (1.2)	3.0 <i>(1.4)</i>	3.0 (1.4)	110 <i>(</i> 33.5)				
115 (35.1)				2.3 (1.0)	2.6 (1.2)	2.7 (1.2)	115 <i>(</i> 35.1)				
120 <i>(36.6)</i>				2.0 (0.9)	2.2 (1.0)		120 <i>(36.6)</i>				
125 (38.1)				1.8 (0.8)	1.9 (0.9)		125 (38.1)				
130 (39.6)				1.5 (0.7)	1.6 (0.7)		130 <i>(</i> 39. <i>6)</i>				
135 (41.1)				1.3 (0.6)			135 <i>(41.1)</i>				

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5705 (supercedes 5646)-1114-S5

110 ft (33.5m) Main Boom + Fly - 360° Rotation - Standard Mode - Side Frames Extended Position AB+0 [25,000 lb (11 340kg)] Counterweight [All capacities are listed in kips (mt)]

Load	28	3.25 ft Manual Offset I	Fly		Load		
Radius ft (m)	2°	20°	40°	2°	20°	40°	Radius ft (m)
35 (10.7)	11.5 (5.2)						35 (10.7)
40 (12.2)	11.5 (5.2)						40 (12.2)
45 (13.7)	10.9 (4.9)	9.8 (4.4)		6.6 (3.0)			45 (13.7)
50 (15.2)	10.0 (4.5)	9.0 (4.1)	7.5 (3.4)	6.6 (3.0)			50 (15.2)
55 (16.8)	9.2 (4.2)	8.4 (3.8)	7.4 (3.4)	6.6 (3.0)			55 (16.8)
60	8.5	7.8	7.2	6.4	4.9		60
(18.3)	(3.9)	(3.5)	(3.3)	(2.9)	(2.2)		(18.3)
65	7.6	7.3	6.9	6.1	4.7		65
(19.8)	(3.4)	(3.3)	(3.1)	(2.8)	(2.1)		(19.8)
70	6.6	6.8	6.5	5.6	4.5		70
(21.3)	(3.0)	(3.1)	(2.9)	(2.5)	(2.0)		(21.3)
75	5.7	6.1	6.1	5.3	4.3	3.5	75
(22.9)	(2.6)	(2.8)	(2.8)	(2.4)	(2.0)	(1.6)	(22.9)
80	5.0	5.4	5.7	4.9	4.1	3.4	80
(24.4)	(2.3)	(2.4)	(2.6)	(2.2)	(1.9)	(1.5)	(24.4)
85	4.3	4.7	4.9	4.6	4.0	3.3	85
(25.9)	(2.0)	(2.1)	(2.2)	(2.1)	(1.8)	(1.5)	(25.9)
90	3.8	4.1	4.3	4.2	3.9	3.2	90
(27.4)	(1.7)	(1.9)	(2.0)	(1.9)	(1.8)	(1.5)	(27.4)
95	3.3	3.5	3.7	3.7	3.7	3.2	95
(29.0)	(1.5)	(1.6)	(1.7)	(1.7)	(1.7)	(1.5)	(29.0)
100	2.8	3.0	3.2	3.2	3.6	3.1	100
(30.5)	(1.3)	(1.4)	(1.5)	(1.5)	(1.6)	(1.4)	(30.5)
105	2.4	2.6	2.7	2.8	3.2	3.1	105
(32.0)	(1.1)	(1.2)	(1.2)	(1.3)	(1.5)	(1.4)	(32.0)
110	2.0	2.2	2.3	2.4	2.8	3.0	110
(33.5)	(0.9)	(1.0)	(1.0)	(1.1)	(1.3)	(1.4)	(33.5)
115	1.7	1.8		2.1	2.5	2.7	115
(35.1)	(0.8)	(0.8)		(1.0)	(1.1)	(1.2)	(35.1)
120 (36.6)	1.4 (0.6)	1.5 (0.7)		1.8 (0.8)	2.1 (1.0)	2.3 (1.0)	120 (36.6)
125 (38.1)	1.1 (0.5)	1.2 (0.5)		1.5 (0.7)	1.8 (0.8)	2.0 (0.9)	125 (38.1)
130 (39.6)				1.3 (0.6)	1.5 (0.7)	1.6 (0.7)	130 (39.6)
135				1.0	1.2	1.3	135

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21

90 ft (27.4m) Main Boom + Fly - 360° Rotation - Standard Mode - Side Frames Extended Position ABC+A [36,000 lb (16 329kg)] Counterweight [All capacities are listed in kips (mt)]

Load	28	3.25 ft Manual Offset F	Fly	p. (9,1	51 ft Manual Offset Fly				
Radius ft (m)	2°	20°	40°	2°	20°	40°	Radius ft (m)		
30 (9.1)	16.7 (7.6)						30 (9.1)		
35 (10.7)	15.5 (7.0)			9.7 (4.4)			35 (10.7)		
40 (12.2)	14.5 (6.6)	10.5 (4.8)		8.6 (3.9)			40 (12.2)		
45 (13.7)	13.5 (6.1)	9.9 (4.5)	7.9 (3.6)	8.1 <i>(</i> 3.7 <i>)</i>			45 (13.7)		
50	12.4	9.4	7.6	7.5	5.4		50		
(15.2)	<i>(</i> 5.6)	(4.3)	(3.4)	(3.4)	(2.4)		(15.2)		
55	11.4	8.9	7.4	7.0	5.1		55		
(16.8)	<i>(</i> 5.2)	(4.0)	(3.4)	(3.2)	(2.3)		(16.8)		
60	10.5	8.7	7.2	6.5	4.9		60		
(18.3)	<i>(4.8)</i>	(3.9)	(3.3)	(2.9)	(2.2)		(18.3)		
65	9.4	8.3	7.0	6.1	4.6	3.7	65		
(19.8)	(4.3)	(3.8)	(3.2)	<i>(</i> 2.8 <i>)</i>	(2.1)	(1.7)	(19.8)		
70	8.3	8.0	6.8	5.7	4.4	3.5	70		
(21.3)	(3.8)	(3.6)	(3.1)	(2.6)	(2.0)	(1.6)	(21.3)		
75	7.3	7.7	6.7	5.4	4.2	3.4	75		
(22.9)	(3.3)	(3.5)	(3.0)	(2.4)	(1.9)	(1.5)	(22.9)		
80	6.5	6.8	6.6	5.1	4.0	3.3	80		
(24.4)	(2.9)	(3.1)	(3.0)	(2.3)	(1.8)	(1.5)	(24.4)		
85	5.7	6.0	6.2	4.8	3.9	3.3	85		
(25.9)	(2.6)	(2.7)	(2.8)	(2.2)	(1.8)	(1.5)	(25.9)		
90	5.1	5.3	5.5	4.5	3.7	3.2	90		
(27.4)	(2.3)	(2.4)	(2.5)	(2.0)	(1.7)	(1.5)	<i>(</i> 27. <i>4</i>)		
95	4.5	4.7	4.8	4.3	3.6	3.1	95		
(29.0)	(2.0)	(2.1)	(2.2)	(2.0)	(1.6)	(1.4)	(29.0)		
100	4.0	4.2		4.1	3.5	3.1	100		
(30.5)	(1.8)	(1.9)		(1.9)	(1.6)	(1.4)	(30.5)		
105	3.5	3.7		3.9	3.4	3.1	105		
(32.0)	(1.6)	(1.7)		(1.8)	(1.5)	(1.4)	<i>(</i> 32. <i>0</i>)		
110 (33.5)	3.1 <i>(1.4)</i>			3.6 (1.6)	3.3 (1.5)	3.0 (1.4)	110 (33.5)		
115 <i>(35.1)</i>				3.3 (1.5)	3.2 (1.5)	3.0 (1.4)	115 (35.1)		
120 (36.6)				2.9 (1.3)	3.1 (1.4)	3.0 (1.4)	120 (36.6)		
125 (38.1)				2.6 (1.2)	2.8 (1.3)		125 (38.1)		
130 (39.6)				2.3 (1.0)	2.4 (1.1)		130 (39.6)		
135 (41.1)				2.0 (0.9)			135 (41.1)		

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Link-Belt Cranes

TCC-500

5705 (supercedes 5646)-1114-S5

110 ft (33.5m) Main Boom + Fly - 360° Rotation - Standard Mode - Side Frames Extended Position ABC+A [36,000 lb (16 329kg)] Counterweight [All capacities are listed in kips (mt)]

Load	28	3.25 ft Manual Offset	Fly		Load		
Radius ft (m)	2°	20°	40°	2°	20°	40°	Radius ft (m)
35 (10.7)	11.5 <i>(</i> 5.2)						35 (10.7)
40 (12.2)	11.5 (5.2)						40 (12.2)
45 (13.7)	10.9 <i>(4</i> .9)	9.8 (4.4)		6.6 (3.0)			45 (13.7)
50 (15.2)	10.0 (4.5)	9.0 (4.1)	7.5 (3.4)	6.6 (3.0)			50 (15.2)
55 (16.8)	9.2 (4.2)	8.4 (3.8)	7.4 (3.4)	6.6 (3.0)			55 (16.8)
60	8.5	7.8	7.2	6.4	4.9		60
(18.3)	(3.9)	(3.5)	(3.3)	(2.9)	(2.2)		(18.3)
65	7.8	7.3	6.9	6.1	4.7		65
(19.8)	(3.5)	(3.3)	(3.1)	(2.8)	(2.1)		(19.8)
70	7.3	6.8	6.5	5.6	4.5		70
(21.3)	(3.3)	(3.1)	(2.9)	(2.5)	(2.0)		(21.3)
75	6.8	6.4	6.1	5.3	4.3	3.5	75
(22.9)	(3.1)	(2.9)	(2.8)	(2.4)	(2.0)	(1.6)	(22.9)
80	6.3	6.0	5.8	4.9	4.1	3.4	80
(24.4)	(2.9)	(2.7)	(2.6)	(2.2)	(1.9)	(1.5)	(24.4)
85	5.6	5.7	5.5	4.6	4.0	3.3	85
(25.9)	(2.5)	(2.6)	(2.5)	(2.1)	(1.8)	(1.5)	(25.9)
90	4.9	5.3	5.2	4.3	3.9	3.2	90
(27.4)	(2.2)	(2.4)	(2.4)	(2.0)	(1.8)	(1.5)	(27.4)
95	4.4	4.7	4.8	4.1	3.7	3.2	95
(29.0)	(2.0)	(2.1)	(2.2)	(1.9)	(1.7)	(1.5)	(29.0)
100	3.9	4.1	4.3	3.8	3.6	3.1	100
(30.5)	(1.8)	(1.9)	(2.0)	(1.7)	(1.6)	(1.4)	(30.5)
105	3.4	3.6	3.7	3.5	3.4	3.1	105
(32.0)	(1.5)	(1.6)	(1.7)	(1.6)	(1.5)	(1.4)	(32.0)
110	3.0	3.2	3.2	3.2	3.2	3.0	110
(33.5)	(1.4)	(1.5)	(1.5)	(1.5)	(1.5)	(1.4)	(33.5)
115	2.6	2.8		2.9	3.0	2.9	115
(35.1)	(1.2)	(1.3)		(1.3)	(1.4)	(1.3)	(35.1)
120	2.3	2.4		2.6	2.8	2.8	120
(36.6)	(1.0)	(1.1)		(1.2)	(1.3)	(1.3)	(36.6)
125	2.0	2.0		2.3	2.5	2.6	125
(38.1)	(0.9)	(0.9)		(1.0)	(1.1)	(1.2)	(38.1)
130 (39.6)				2.1 (1.0)	2.3 (1.0)	2.4 (1.1)	130 (39.6)
135 (41.1)				1.8 (0.8)	2.0 (0.9)	2.1 (1.0)	135 (41.1)

This material is supplied for reference use only. Operator must refer to in—cab Crane Rating Manual and Operator's Manual to determine allowable crane lifting capacities and assembly and operating procedures.



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