

# **Self-Propelled** 50 Ton Hydraulic Crane

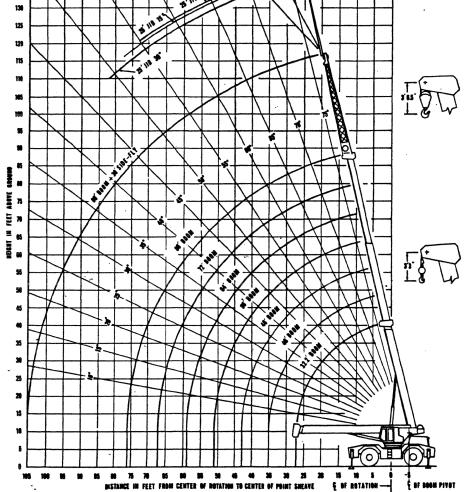
Capacities Specifications Operating Ranges

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CONSTRUCTION EQUIPMENT CO.





#### WARNINGS:

Minimum working main boom angle for the fully extended boom with power pin extended plus 1.

sidefly and jib is 55 degrees. **Tipping** can occur rapidly without advance notice. For other boom configurations, having powered sections not fully extended, but with power pin extended or retracted; with or without sidefly; and with or without the jib, the rated loads are found in the columns headed by the maximum length of their respective boom configurations. The boom angle must be used to determine the particular rated load. For boom angles not provided, use the rating of the next lower boom angle.

#### HYDRAULIC SYSTEM

Two 2-section tandem pumps, 162 gpm (613L/min) at 2470 rpm, mounted on torque converter with disconnect. Steering pump, 18 gpm (68L/min).

12 double-acting cylinders:

2 boom hoist: 9" (228mm) ID 6.0" OD x 5.0" ID (152mm x 127mm) rod

- 2 boom telescoping: 6" (152mm) ID
- 5.0" OD x 4.0" ID (127mm x 102mm) rod
- Outrigger cylinders:

4 telescoping: 2.5" ID, 1.5" rod (64mm x 38mm)

4 jack: 6.5" ID, 4.5" rod (165mm x 114mm)

Vane-type swing motor.

Operating pressure: 2500 psi (176 kg/cm²) max.

Pressurized reservoir.

Oil capacity: reservoir 182 gal (689 L), system 300 gal (1,136 L)

#### **IMPORTANT INSTRUCTIONS**

Radius of the load is the horizontal distance from a projection of the axis of rotation before loading, to the center of vertical hoist line or tackle with load applied.

Boom angles, which represent the unloaded boom angles, are to be used for reference only. These boom angles must be adjusted to maintain the proper load radius while the load is being picked.

Load ratings in shaded areas are based on machine's hydraulic or structural competence and not on the machine's stability.

Tipping capacities do not exceed 85% of tipripping capacities do not exceed 85% of tip-ping loads for "on outrigger" capacities or 75% of tipping loads for "on rubber" capacities as determined by tests in accor-dance with SAE recommended practice — "Crane Load Stability Test Code SAE J-765-a."

Crane load capacities are based on freely suspended loads. They are the maximum covered by the manufacturer's warranty with the machine leveled and standing on a firm supporting surface.

Practical working loads depend upon support-ing surface, wind, and other factors affecting stability, hazardous surroundings, experience of personnel, and proper handling; all of which must be taken into account by the operator.

The weights of all auxiliary handling devices such as boom attachments, hoist block, hooks, and slings, except hoist rope, shall be considered as part of the load ratings.

Powered boom sections are synchronized to be extended equally at all times. Each section extends to a maximum distance of 24 feet. The maximum powered boom load which may be telescoped is limited by hydraulic pressure, boom angle, and boom capacity. It is safe to attempt to telescope any load within the stated conditions of the rating chart.

"'On outriggers", capacities are based on outriggers being fully extended to a distance of 21 feet from centerline to centerline of vertical jack cylinders.

For boom lengths not shown, use load ratings for next longer boom. For load radii not shown, use load rating for next larger rated radius. Positioning or operation at radii and boom lengths beyond the maximums or minimums shown, is not intended or approved.

The boom assembly shall be fully retracted and leveled when crane is out of service.

From main boom capacities, deduct: 650 lbs. when Side-Fly stowed; 1,530 lbs. when Side-Fly erected; 200 lbs. when jib stowed; 1,670 lbs. when jib erected.

Hoist reeving should be based on 10,000 lbs. per part of line.

Filtration unit built into reservoir: 10-micron disposable-element filter with automatic safety relief, built-in magnets, visual indicator on filter housing, indicator lights in engine gauge cluster.

#### Fin and tube type oil cooler.

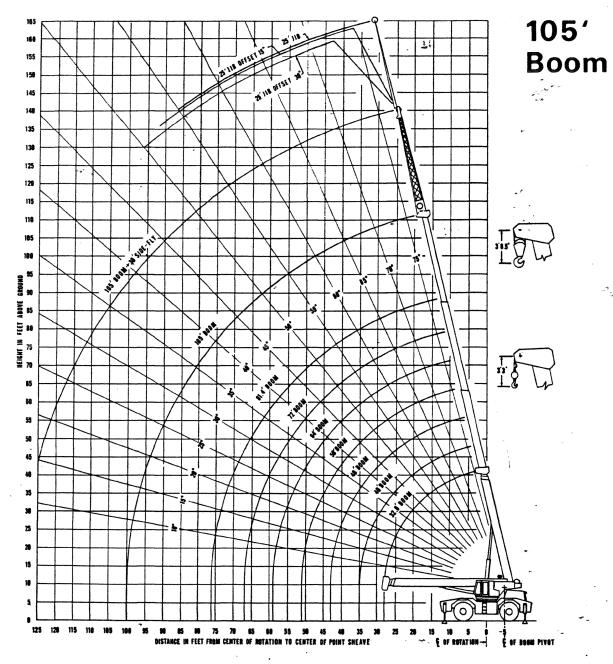
Main relief valves in all circuits. Holding valves on boom hoist, boom telescoping and jack cylinders, thermal relief protection in telescope and hoist circuits.

BOOM

80' Boom - three section. Base section plus two self proportioning hydraulically telescoping sections. Extends to 80' (24.4m), retracts to 32'6"(9.9m): Modified hexagon cross section is selfaligning. Five-sheave head.

105' Boom - Four-section, two self-proportioning hydraulically telescoping sections, manually pinned end section. Extends to 105' (32m), retracts to 32'9" (10m). Modified hexagon crosssection is self-aligning. Five-sheave head.

Side Fly (optional) - 30' (9.1m) self-storing boom section, hinged to boom head.



#### **OPERATING INSTRUCTIONS:**

Radius of the load is the horizontal distance from a projection of the axis of rotation before loading, to the center of vertical hoist line or tackle with load applied.

Boom angles, which represent the unloaded boom angles, are to be used for reference only. These boom angles must be adjusted to maintain the proper load radius while the load is being picked. Load ratings in shaded areas are based on machine's hydraulic or structural competence and not of the machine's stability. Tipping capacities do not exceed 85% of tipping loads for "on outrigger" capacities and 75% of tipping loads for "on rubber" capacities as determined by tests in accordance with SAE recommended practice—"Crane Load Stability Test Code SAE J765a".

Crane load capacities are based on freely suspended loads. They are the maximum covered by the manufacturer's warranty with the machine leveled and standing on a firm supporting surface. Practical working loads depend upon supporting surface, wind, and other factors affecting stability, hazardous surroundings, experience of personnel, and proper handling; all of which must be taken into account by the operator. The weights of all auxiliary handling devices such as boom attachments, hoist block, hooks, and slings, except hoist rope, shall be considered as part of the load ratings.

All powered boom sections are synchronized to be extended equally at all times. Each section extends to a maximum distance of 24.3 feet. The maximum powered boom load which may be telescoped is limited by hydraulic pressure, boom angle, and boom capacity. It is safe to attempt to telescope any load within the stated conditions of the rating chart.

"On outriggers" capacities are based on outriggers being fully extended to a distance of 21 feet from centerline of vertical jack cylinders. "On rubber" capacities are based on the tire as specified in the table. Machine must be on a firm and smooth, level surface.

For boom lengths not shown, use load ratings for next longer boom. Positioning or operation at radii and boom lengths beyond the maximums or minimums shown, is not intended or approved.

The boom assembly shall be fully retracted and leveled when crane is out of service.

WARNINGS:

- 1. Minimum working main boom angle for the fully extended boom plus sidefly and jib is 55 degrees. TIPPING can occur rapidly without advance notice.
- 2. For other boom configurations, having powered sections not fully extended, but with or without sidefly; and with or without the jib, the rated loads are found in the columns headed by the maximum length of their respective boom configurations. The boom angle must be used to determine the particular rated load. For boom angles not provided, use the rating of the next lower boom angle.

# BADGER MODEL 4450AC CRANE LOAD CHART PSCA CLASS 10-179 105' BOOM \$

#### 50 TON CAPACITY FULLY HYDRAULIC SELF-PROPELLED CRANE 700%/

ON OUTRIGGERS FULLY EXTENDED - 360°(a)																					
RADIUS IN FEET						B	JON	LENG	ГН							ower pin Section Tended (d)		E-FLY PLUS 4 FT BOOM		E-FLY PLUS 5 FT. BOOM	RADIÚS IN FEET
	3													1.45 FEET		05 FEET	11	0.66 FEET		4.31 FEET	
	4	LBS.	4	LBS.	4	LBS.	4	LBS.	4	LBS.	4	LBS.	4	LBS.	4	LBS.	4	LBS.	4	LBS.	
10 12 15		100 800 60 900 60 900		75 200		73 300 73 300 63 700	77.73	72 700# 67 880 59 500	7	53 700	75	48 300									10 12 15
20 25 30		53 BOOS 40 900	52 62 29	62 800 62 100 31 100	4	51 200 42 300 31 600	64 58 52	48 709 39 800 31 900	67 82 57	45 300 38 000 31 800	285	40 800 34 200 28 900	72 59 65	35 200 30 700 26 700		21 100 19 900	3	18 500 18 300			20 25 30
35 40 45				1.00	34 21	23 400 17 900	45 37 27	23 700 18 200 14 300	52 46 39	23 900 18 400 14 500	57 52 46	24 200 18 600 14 700	<b>61</b> 57 52	22 900 18 900 14 900	68 65 82	17 208	<b>9</b> 92	14 600 13 200 12 100	72 70 88	10 000 - 9 550 - 8 860 -	35 40 45
50 55 60							11	11 300	31 21	11 600 9 300	40 34 26	11 800 9 490 7 650	48 43 37	11 900 9 650 7 810	59 35 52	12 300 10 800 s 9 500	85753	11 100 10 300 9 230	63 63 61	7 850 7 260 6 720	50 55 60
65 70 75					•						14	6 100	31 23 11	6 300 5 040 3 920	48 45 41	7 990 6 720 5 660	<b>50</b> 47 43	7 150 6 030	58 53	6 110 5 590 5 240	65 70 75
80 85 90															36 31 25	4 740 3 940 3 230	39 35 30	5 070 4 230 3 500	50 47 45	4 830 4 530 4 200	80 85 90
95 100 105															18 2	2 600 1 970	25 18 6	2 850 2 260 1 710	41 38 35	3 570 3 010 2 510	95 100 105
110 115 120																			31 26 21	2 050 1 640 1 261	110 115 120

ON OUTRIGGERS FULLY EXTENDED - OVER FRONT (a)																					
RADIUS IN FEET	BOOM LENGTH SIDE-FLY PLUS SIDE-FLY SIDE SIDE SIDE SIDE SIDE SIDE SIDE SIDE														RADIUS IN FEET						
		32.85 FEET 40 FEET 48 FEET 56 FEET 64 FEET 72 FEET 81.45 FEET										05 FEET		0.66 FEET		4.31 FEET					
	4	LBS.	4	LBS.	4	LBS.	4	LBS.	4	LBS.	4	LBS.	4	LBS.	4	LBS.	4	LBS.	4.	LBS.	
10 12 15	383	408 000 80 000 58 300	65 65	75 200 75 200 66 000	72 70 55	73 300 73 300 63 700	75 73 89	72 200 67 600 59 600	75	60 000 - 53 700	75	48 300									10 12 15
20 25 30	41         53,900         52         52,900         56         51,200         64         48,700         67         45,300         70         46,800         72         35,206         74           25         40,900         42         42,100         52         42,300         56         39,900         62         36,000         66         34,200         69         30,700         74         21,100         74         16,500           29         31,400         44         31,900         52         32,200         57         31,800         91         26,526,700         74         21,900         74         16,300															20 25 30					
35 40 45			減繁	17.300	34 21	23 600 18 100	45 37 27	23 900 18 400 14 600	52 46 39	24 100 18 600 14 800	57 52 46	24 300 18 800 15 000	57 52	22 900 19 000 15 100	68 65 62	17 800 15 700 13 900	68 65 63	14 600 13 200 12 100	72 70 68	10 000 9 550 8 880	35 .40 45
50 55 60			-	•	* * 10		11	11 600	31 21	11 900 9 680	40 34 26	12 100 9 860 8 070	48 43 37	12 200 10 000 8 230	59 55 52	12 300 10 800 9 600	60 57 53	11 100 10 300 9 230	65 63 61	7 850 7 260 6 720	50 55 60
65 70 75				· · · · · ·			•				14	6 580	31 23 11	6 770 5 550 4 480	48 45 41	6 500 7 340 6 270	50 47 43	8 240 7 480 6 430	553	6 110 5 590 5 240	65 70 75
80 85 90						-									36 31 25	5 340 4 540 3 830	39 35 30	5 500 4 690 3 980	50 47 45	+ 830 + 530 + 220	80 85 90
95 100 105															18 2	3 200 2 570	25 18 6	3 350 2 780 2 240	41 38 35	3 920 3 3 480 2 990	95 100 105
110 115 120																			31 26 21	2 540 2 130 1 760	110 115 120
125												•							14	1 410	125

ON RUBBER CAPACITIES (a)												
FOR 26.5 x 25 - 20 PR TIRES (f)												
RADIUS STATIONARY PICK & CARRY N CAPACITY CAPACITY (b)												
FEET OVER 360 ° CREEP FRONT ROTATION SPEED (C) 2.5 M.P.H. 5 M.P.H.												
10 12 15	12 30 000 28 500 37 000 25 000 19 20											
20 25 30	25 000 18 700 13 500	13 300 8 450 5 780	22 400 17 100 13 500	14 200 10 200 7 500	10 200 5 770 4 590							
35 40 45	35 9 630 3 600 9 630 5 120 2 56 40 7 480 2 480 7 480 3 740 3 460											
50         4 220         4 220         3 210         3 210												
MAXIMUM ALLOWABLE BOOM LENGTH - 64 FEET												

1.

	JIB CA	PACITY	
S	IDE-FLY I COMBINA		В
MAIN BOOM ANGLE	0° JIB OFFSET	15° JIB OFFSET	30° JIB OFFSET
77* 70* 65*	6 000 4 670 4 900	5 300 4 070 3 610	8 260 3 660 3 360
60° 55°	3 580 3 270	3 310 3 080	3 130 2 950

	14	1 410	125
WEIGHT RE BOOM I		CTIONS ENSION	
30 FT. SIDE-FLY BI (e) STORED - 65 (e) ERECTED - 1	O LB	S.	
25 FT. JIB (e) STORED - 20 (e) ERECTED - 1			
(a) REFER TO ARE	A OF	OPERATIO	ON CHART

FOR DEFINED WORKING ARC.

FOR DEFINED WORKING ARC. (b) MECHANICAL HOUSE LOCK PIN MUST BE FULLY ENGAGED. (c) TRAVEL RESULTING IN NOT MORE THAN 200 FT. COVERED IN A 30 MINUTE PERIOD. (d) BOOM MUST BE FULLY EXTENDED WHEN LIFTING WITH EXTENDED POWER PIN SECTION OR WITH 30 FT. SIDE-FLY. (e) REDUCTION IN MAIN BOOM CAPACITIES. (f) REFER TO TIRE INFLATION CHART. (g) DEDUCT 100 LBS. FROM RATED CAPACITIES FOR MACHINES EQUIPPED WITH AUXILIARY BOOM HEAD.

HEAD.

WARNING:

1. MINIMUM WORKING MAIN BOOM ANGLE FOR THE FULLY EXTENDED BOOM WITH POWER PIN EXTENDED PLUS SIDE-FLY AND JIB IS 55 DEGREES.

2. FOR OTHER BOOM CONFIGURATIONS, HAVING POWERED SECTIONS NOT FULLY EXTENDED, BUT WITH POWER PIN EXTENDED OR RETRACTED; WITH OR WITHOUT SIDE-FLY; AND WITH OR WITHOUT JIB, THE RATED LOADS ARE FOUND IN THE COLUMNS HEADED BY THE MAXIMUM LENGTH OF THEIR RESPECTIVE BOOM CONFIGURATIONS.

THE BOOM ANGLE MUST BE USED TO DETERMINE THE PARTICULAR RATED LOAD. FOR BOOM ANGLES NOT PROVIDED, USE THE RATING OF THE NEXT LOWER BOOM ANGLE. -

TACKLE RE MAIN WI	
NO. OF PARTS OF HOIST TACKLE	MAX. HOOK LOAD LBS.
1 2 3	10 000 20 000 30 000
4 5 6	40 000 50 000 60 000
7 8 9	70 000 80 000 90 000
10	100 000

13

# BADGER MODEL 4450AC CRANE I.OAD CHART PSCA CLASS 10-186 80.8' BOOM 4

50 TON CAPACITY FULLY HYDRAULIC SELF-PROPELLED CRANE

					ON	OUTRIGG	ERS	FULLY EX	TEN	IDED - 36	50.	(a)					
RADIUS IN FEET		BOOM LENGTH														30 FT. E-FLY PLUS .8 FT. BOOM	RADIUS IN FEET
	32.3 FEET 40 FEET 48 FEET 56 FEET 64 FEET 72 FEET 80.8 FEET														110 FEET		
	4	LBS.	14	LBS.	4		4	LBS.									
10 12 15		100 800 81 1000 81 400	202	27 100 85 800 82 000	NRB	75 209 73 300 65 700	843	74 100 68 400 61 100	PR	61 000 55 060	27.2	NO #9 500 1					10 12 15
20 25 30	100	S4 900 -	52 42 29	34.500 43.100 31.400	59 52 44	53 500 83 800	54 58 52	49 900 40 300 32 600	67 62 57	46 400 39 300 32 900	P25	41,800 35,300 30,100	282	35 200 30 700 28 700	20	18 500 16 300	20 25 30
35 40 45					34 21	24 000 18 600	45 37 27	24 500 19 100 15 200	52 46 39	24 800 19 400 15 500	57 52 46	25 000 19 600 15 800	56 52	19 800	330	214 600 413 200 712 300	35 40 45
50 55 60							11	12 300	31 21	12 700 10 400	40 34 26	12 900 10 600 8 820	47 42 37	13 100 10 800 9 020	9579	11 400 10 300 1 230	50 55 60
65 70 75							·				14	7 310	30 22 9	7 540 6 290 5 190	66.6	8 240 7 480 8 750	65 70 75
80 85 90															39 35 30	5 880 5 070 4 360	80 85 90
95					·										24	3 730	95

100 105		<u> </u>			*.					.						17 2	3 160 2 600	100 105
[			•		· 0N	OU	TRIGGERS	FUL	LY EXTEN	DED	- OVER	FRO	NT (a)					
RADIUS IN FEET	IN BOOM LENGTH SIDE-FLY PLUS 80.8 FT, BOOM													RADIUS IN FEET				
		32.3 FEE			40 FEET		48 FEET		56 FEET		64 FEET		72 FEET		80.8 FEET		110 FEET	
	4			<u>4</u> °	LBS.	A	LBS.	<u> ユ</u>	LBS.	14.	LBS.	14.	LBS.	14	LBS.	4.	LBS.	10
10 12 15	185	100 00 31 00		555	75 800 67 000	72 70 66	75 200 73 300 55 700	73 69	61 100	76	61 000 55 000	24	49 500					10 12 15
20 25 30			50 10	52 29	54 000 43 100 31 600	99 59 44	53 500 42 800 32 200	64 58 52	49 900 40 300 32 600	67 62 57	46 400 39 300 33 000	70 56 61	41 800 35 300 30 100	72 68 65	35 200 30 700 26 700	74 71	18 500 16 300	20 25 30
35 40 45						34 21	24 100 18 700	45 37 27	24 500 19 100 15 300	52 46 39	24 800 19 400 15 600	57 52 46	25 000 19 600 15 800	<b>61</b> 56 52	22 900 19 900 16 000	68 65 62	14 600 13 200 12 100	35 40 45
50 55 60								11	12 500	31 21	12 800 10 600	40 34 26	13 000 10 800 9 070	47 42 37	13 200 11 000 9 250	5853	11, 100 18, 330 9, 230	50 55 60
65 70 75					1. 1							14	7 610	30 22 9	7 820 6 620 5 560	345	8 240 7 480 6 750	65 70 75
80 85 90			~								•					39 35 30	6 180 5 400 4 710	80 85 90
95 100 105																24 17 2	4 100 3 550 3 010	95 100 105
	ON RUBBER CAPACITIES (a)							]		JI	B CAPACI	ΤY					DUCTIONS	
					·			-	30 FOC		DEFLY PLUS		OOT JIB		BOOM	ΕX	TENSIONS	(g)
RADIUS IN FEET	N CAPACITE CAPACITE (D)				MAIN BOOM ANGLE	BOOM OFFSET OFFSET OFFSET (e) ERECTED - 1530 LBS.					O LBS.							
10		45 300	39 (	000	43 600	30 10	0 23 600	7	77*	100	500 7 3	20.	\$ 260		25 FT. JB			

	FUN 2	5.J A 2J -	20 FA TINES	(1)		1.3
RADIUS		ONARY ACITY	-	K & CAR		
FEET	OVER FRONT	360* ROTATION	CREEP SPEED (C)	2.5 M.P.H.	5 M.P.H.	
10	45 300	39 000	43 600	30 100	23 600	
12	SS 503		37 800	25 800	20 000	
15	33 200	22 200	31 100	20 800	15 800	
20	and the second	13 400	23 300	15 000	11 000	1
25	18 800	8 680	18 000	3"11 DDD	7 620	
30	14 000	6 300	14 000	8 620	5 700	L
35	10 200	4 180	10 200	6 270	3 720	(b)
40	8 230	3 200	8 2 3 0	5 070 5	2 760	(b) (c)
45	6 6 30	2 330	6 630	3 900	1,890	(d)
50 55	5 110 4 180	1 430	5 110 4 180	2 730 1 980		(c) (e)

MAXIMUM ALLOWABLE BOOM LENGTH - 64 FEET ÷ .'

	JID CA	FACILI	•
30 F001		PLUS 25 I TION (d)	FOOT JIB
MAIN BOOM ANGLE	0° JIB OFFSET	15° JIB OFFSET	30° JIB OFFSET
77* 70* 65*	8 500 7 229 5 780	388 388 398 398 398 398 398 398 398 398	6 260 3 560 3 360
60* 55*	4 740 3 750	4 400 3 530	3 130 2 950

		2	3 550 3 010	100 105
			DUCTIONS	-
	30 FT. SIDE-F (e) STORED (e) ERECTED	- 65		
	25 FT. JIB (e) STORED (e) ERECTED			
7		ADE		ION CUADT

,

(e) (f) (g)

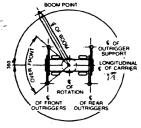
60° 2720 2750 3 130 55° 3 750 3 530 2 550 (c) REFER TO AREA OF OPERATION CHART FOR DEFINED WORKING ARC. ) MECHANICAL HOUSE LOCK PIN MUST BE FULLY ENCAGED. ) TRAVEL RESULTING IN NOT MORE THAN 200 FT. COVERED IN A 30 MINUTE PERIOD. ) BOOM MUST BE FULLY EXTENDED WHEN LIFTING WITH EXTENDED POWER PIN SECTION OR WITH 30 FT. SIDE-FLY. ) REDUCTON IN MAIN BOOM CAPACITIES. ) REFER TO TIRE INFLATION CHART. ) DEDUCT 100 LBS. FROM RATED CAPACITIES FOR MACHINES EQUIPPED WTH AUXILIARY BOOM HEAD. HEAD.

BOOM POINT

-

DVER

AREAS OF



ON OUTRIGGERS

-

CONGITUDINAL

#### CAB

Fully-enclosed all steel cab with tinted safety glass windows, removable front window, hinged skylight and sliding rear window, electric windshield wiper and washer, defroster fan, dome light, fire extinguisher, fully adjustable air cushioned seat, seat belt. Propane or diesel heater optional.

## ONTROLS

ive levers for all boom, winch, and swing movements. One foot pedal, linked to boom raise-and-lower lever. Dead-man type (except swing) are self-centering: when controls are released, machine movements stop automatically. Swing brake, with free swing. Machine leveling gauge, electric horn, 360° mechanical house lock, emergency brake, parking brake.

Key-operated ignition switch with indicator light, starter button, foot throttle, fuel gauge, voltmeter, hour meter. Gauges for engine oil pressure, transmission oil pressure, transmission oil temperature, engine coolant temperature, air pressure. Hydraulic filter and low air warning lights.

#### MAIN WINCH

(Model 30) Hydraulic powered up and down.

	Max. Lin	e Speed	Line Pull	Storage							
Layer	Full Load	No Load	Lbs	Cap.							
1	320 fpm	354 fpm	12,520	92 ft.							
2	348	385	11,540	178							
3	371	410	10,820	269							
4	394	436	10,190	366							
5	417**	461	9,630 -	468							
6											
Option	Optional 2-speed main winch: consult Factory										

#### **AUXILIARY WINCH**

(Model 30) Hydraulic powered up and down.

-	Max. Line Speed		Line Pull	Storage	
'er	Full Load	No Load	Lbs	Cap.	
. 1	160 fpm	172 fpm	12,520	92 ft.	
2	174	193	11,540	178	
3	186	205	10,820	269	
4	197	218	10,190	366	
5	209	232	9,630	468	
6	227	252	9,130	577	

Either winch includes 450' (137m) of 5/8" (15.9mm) cable. Free fall optional with either winch.

#### WIRE ROPE

All winch cable is preformed wire rope, 6 x 25 strands, right-regular lay, EIPS, steel core.

SWING

Planetary, with internal brake. Spring set, hydraulic release. Free swing or automatic brake.

Speed — 3 rpm.

#### ENGINE

GM 6V-53N diesel, 6 cyl. ohv, 2 cycle, 197 bhp (147 kw) at 2,800 rpm, 318 cid (5.2L), 3,875" (98mm) bore x 4.5" (114mm) stroke, compression ratio 21:1, 431 ft-lbs (59.6mkg) maximum torque at 1500 rpm.

Electric starter, 12-volt 65 amp alternator, 225 amp hour battery, 20-hour rate (975 cca). Air compressor, 12 cfm (5.7 L/sec).

Fuel capacity: 130 gallons (492L).

# TRANSMISSION

Six-speed with rear axle disconnect. Electric three speed range and directional shift with electric over air high low shift and rear axle disconnect.

		Transmission	Gear	Max. Speed
	Drive	Range	Shift	mph (km/hr)
	4 wheel	Low	1st	1.5 (2.4)
	4 wheel	Low	2nd	3.1 (4.9)
1	4 wheel	Low	· 3rd	8.3 (13.3)
	2 wheel	High	1st	4.3 (6.9)
	2 wheel	High	2nd	8.7 (14.0)
	2 wheel	High	3rd	21.7 (34.9)

Gradeability: NOTE: All performance data is based on standard machines, and may vary due to engine performance and optional equipment. Machine should be operated within a 30° slope limitation due to engine lubrication design.

#### AXLES

Ratio 22.4:1 Planetary steering. Front axle rigidly mounted to frame. Rear axle pinned for oscillation: automatic oscillation lockout, with manual override. Non-spin differential optional.

#### BRAKES

Four-wheel air service brakes. Drums  $20.25'' \times 4''$  (514mm x 102mm). Spring-set emergency and parking brakes on all four wheels.

#### TIRES

21:00 x 25-24PR, 15 x 25 rim.

#### Optional:

26.5 x 25-20PR, 22 x 25 rim. 26.5 x 25-26PR, 22 x 25 rim. 29.5 x 25-22PR, 25 x 25 rim. 29.5 x 25-22PR, 25 x 25 rim. Spare tire, tire inflation kit.

Fluid capacities in U.S. gallons. Specifications subject to change without notice.

## STEERING

Two independent systems. Front, hydrostatic controlled by Char-Lynn orbitrol unit. Rear, hydrostatic controlled by toggle switch on dash panel, with rear-wheel centering indicator light. Turning radius:

Front -wheel steering: 38' (11.6m)

Four-wheel coordinated: 21'6" (6.6m)

#### OUTRIGGERS

Beam type, hydraulic powered. 24" (61cm) diameter floats. 21' (6.4m) spread center-to-center of jacks.

Optional - 30" (76cm) floats.

WEIGHT	Lbs (kg)	Front Axle	Rear Axle
With	76,700	38,500	38,200
80' Boom	(34,785)	(17,460)	(17,325)
With	78,900	41,800	37,100
105' Boom	(35,782)	(18,957)	(16,825)

# STANDARD EQUIPMENT

Dual headlights, tail lights, brake lights, backup lights, turn signals, parking lights; front and rear fenders, tow loops, rear view mirrors, electronic boom angle indicator, electronic back-up alarm, anti-two block system: audible and visual warning signals only.

#### **OPTIONAL EQUIPMENT**

Jib: 25' (7.6m) self-storing. Can only be erected to the end of the Side Fly.

Deluxe boom angle indicator: Electronic, with adjustable limit settings and audible warning.

Anti-Two block system: Electric-hydraulic, for boom, Side Fly, or jib. Stops boom lower, boom extended, winch up movements automatically; audible and visual warning signals in cab; manual override.

Working lights: On front of cab and on boom. Rotating amber beacon: On top of cab.

Vandalism protection package: Padlocks for access and storage doors, fuel tank; Lexan windows.

Tow winch: Mounted on front of frame, controlled from cab. Line pull 15,000 lbs. (680kg).

Rooster sheave, 50-ton (45.33MT) 5-sheave hook block, 15-ton single sheave hook block, headache ball with 5-ton swivel hook, headache ball with 3-ton swivel hook for auxiliary winch, drum rotation indicators for main and auxiliary winches, front and rear pintle hooks, coldweather starting kit with extra battery, electric heating element for hydraulic reservoir.

# Anthony Equipment Corp. Authorized Distributor for BADGER Cranes

TEXAS 5701 De

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