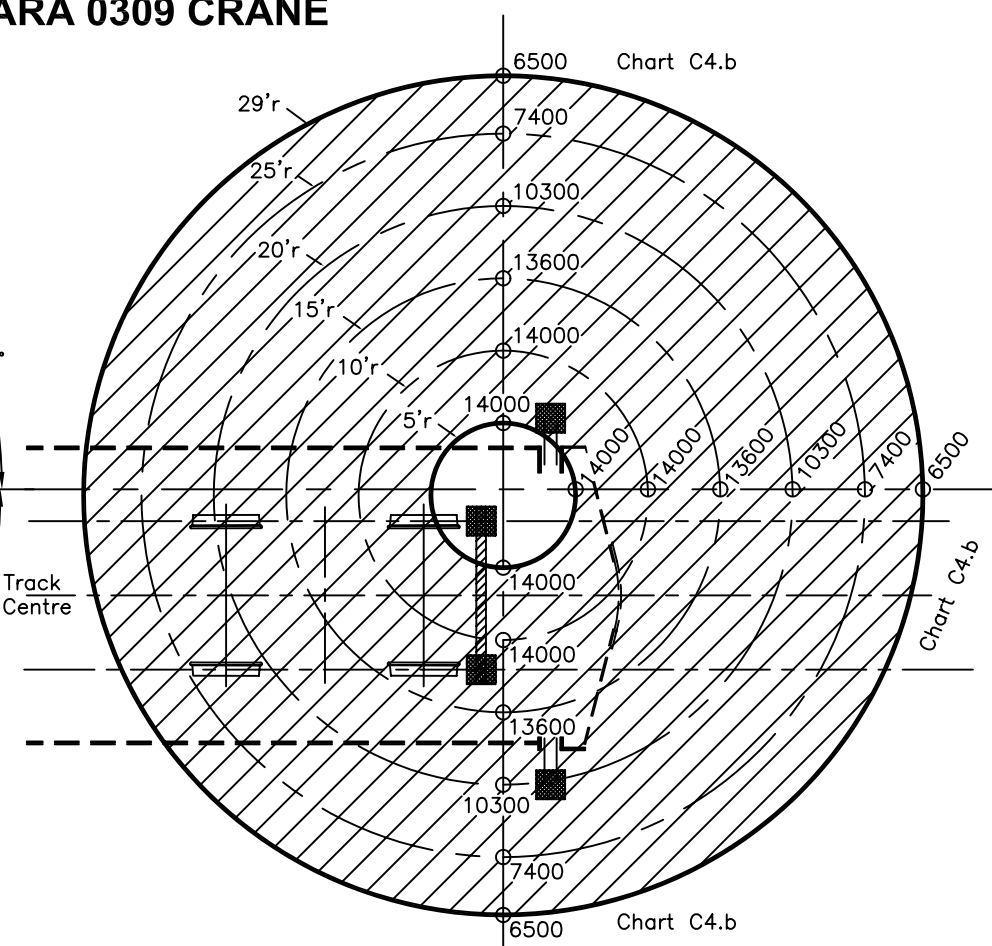
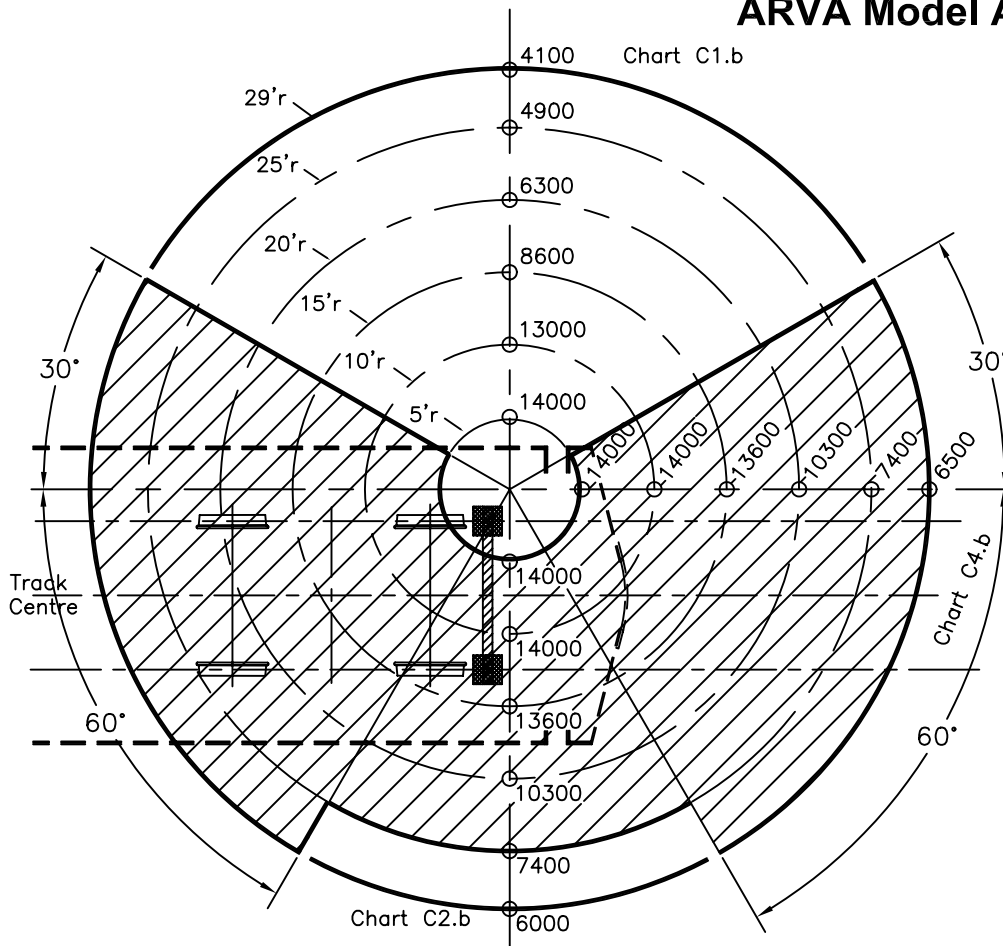


# ARVA Model ARA 0309 CRANE



## ROTATIONAL CHART - TRACK OUTRIGGERS ONLY BASED ON:

- Chart C1.b, for Capacities over crane side
- Chart C4.b, for Capacities over Front-Rear
- Chart C2.b, for Capacities opposite crane side

Hatching shows crane ability, not limited by stability, other areas are controlled by outrigger configuration and respective capacity chart.

## ROTATIONAL CHART - FULL OUTRIGGER DEPLOYMENT BASED ON:

Chart C4.b, for 360 degree.

Hatching shows crane ability, not limited by stability.

ROTATIONAL ANGLES ARE SHOWN FOR REFERENCE AND WILL BE GOVERNED BY THE CRANE'S LOAD MOMENT SYSTEM.

CRANE IS FITTED WITH AN AUTOMATIC LOAD MOMENT LIMITING SYSTEM - IF LOAD MOMENT IS EXCEEDED IN ANY PARTICULAR AREA, BOOM EXTEND, BOOM LOWER AND ROTATION WILL STOP. TO CORRECT, REDUCE LOAD MOMENT FOR THAT PARTICULAR LOCATION - BOOM MUST BE RETRACTED OR RAISED OR ROTATED (OVER-RIDE DEPRESSED AND CRANE SWUNG TOWARDS TRACK CENTRE.)

FOR COMPLETE INFORMATION, REFER TO OPERATORS MANUAL AND CAPACITY CHARTS.

ARVA INDUSTRIES INC.,  
ST. THOMAS, ONTARIO  
OCTOBER 2000

**ARVA Model ARA 0309 CRANE**  
**10-30 ft. 4 section Boom**  
**INSTALLED on RT28 or RT11**

**Part No. A162220 R14 rev B.**

### 360° – TRACK OUTRIGGERS ONLY – Chart C1.b

RADIUS FT	Main Boom Length in Feet									RADIUS FT
	10	12.5	15	17.5	20	22.5	25	27.5	30	
4	14000 (59.4)									4
5	14000 (52.4)									5
6	14000 (44.6)	14000 (55.5)								6
8	14000 (23.4)	14000 (43.3)	14000 (52.8)	14000 (58.8)						8
10		13000 (27.0)	13000 (42.3)	13050 (50.7)	13000 (56.4)					10
12			10850 (28.9)	10850 (41.5)	10850 (49.2)	10900 (54.5)	10100 (58.5)			12
14				9250 (30.2)	9250 (41.0)	9300 (47.9)	9300 (52.9)	9000 (56.8)		14
15				8600 (22.7)	8600 (36.4)	8650 (44.3)	8650 (50.0)	8650 (54.2)	8000 (57.9)	15
16				8050 (11.1)	8050 (31.1)	8050 (40.5)	8050 (46.9)	8100 (51.6)	7850 (55.6)	16
18					7100 (16.7)	7100 (31.8)	7100 (40.2)	7100 (46.0)	7100 (50.8)	18
20						6300 (20.0)	6300 (32.4)	6350 (39.9)	6350 (45.7)	20
22							5650 (22.2)	5700 (32.6)	5700 (40.1)	22
24								5150 (23.9)	5150 (33.8)	24
25								4900 (18.0)	4900 (30.1)	25
26								4650 ( 8.7)	4700 (26.1)	26
28									4300 (15.1)	28
29									4100 (0.6)	29

Chart data  
4300  
(15.1) Capacity – lbs.  
 (Boom Angle)

**Capacities for Boom Base at Zero degree angle (0°)**

Load—lb.	14000	11500*	9400 *	7900 *	6800 *	5900 *	5200 *	4600 *	4100 *	Load—lb.
Rad.—ft.	8.8	11.3	13.8	16.3	18.8	21.3	23.8	26.3	29.0	Rad.—ft.

\* Stability Governs

**Capacities for Boom Base at minus 20 degree angle (-20°)**

Load—lb.	14000	12200*	10000*	8400 *	7200 *	6200 *	5500 *	4900 *	4300 *	Load—lb.
Rad.—ft.	8.2	10.5	12.9	15.2	17.6	19.9	22.3	24.6	27.2	Rad.—ft.

\* Stability Governs

**NOTES TO OPERATION**

1. CAPACITIES BELOW SOLID LINE ARE BASED ON STABILITY AT 75% OF TIPPING.
2. REFER TO RANGE CHART and CRANE OPERATION MANUAL FOR COMPLETE INFORMATION.

**CHART CONDITIONS**

INFORMATION IS FOR ARVA  
 CRANE ASSEMBLY A161316  
 SERIAL No. 1496—A161316  
 SERIAL No. 1529—A161316  
 MOUNTED ON RT11 or RT28 CARRIER WITH OUTRIGGERS.

10 Ft. to 30 Ft. MAIN BOOM  
 CHART CAPACITIES FOR  
 BOOM ANGLES +60° TO -20°.  
 CARRIER TO BE SET LEVEL  
 FOR PROPER OPERATION.

**ARVA Model ARA 0309 CRANE  
 10-30 ft. 4 section Boom**

Rev Oct 2000

**OPPOSITE CRANE SIDE – TRACK O.R. ONLY – Chart C2.b**

RADIUS FT	Main Boom Length in Feet									RADIUS FT
	10	12.5	15	17.5	20	22.5	25	27.5	30	
4	14000 (59.4)									4
5	14000 (52.4)									5
6	14000 (44.6)	14000 (55.5)								6
8	14000 (23.4)	14000 (43.3)	14000 (52.8)	14000 (58.8)						8
10		14000 (27.0)	13000 (42.3)	14000 (50.7)	13000 (56.4)					10
12			10850 (28.9)	13900 (41.5)	12350 (49.2)	11250 (54.5)	10100 (58.5)			12
14				13600 (30.2)	11950 (41.0)	10800 (47.9)	9850 (52.9)	9000 (56.8)		14
15				13600 (22.7)	11800 (36.4)	10600 (44.3)	9700 (50.0)	8800 (54.2)	8000 (57.9)	15
16				13800 (11.1)	11750 (31.1)	10450 (40.5)	9500 (46.9)	8600 (51.6)	7850 (55.6)	16
18					11800 (16.7)	10300 (31.8)	9250 (40.2)	8350 (46.0)	7550 (50.8)	18
20						10300 (20.0)	9150 (32.4)	8100 (39.9)	7300 (45.7)	20
22							9100 (22.2)	7900 (32.6)	7100 (40.1)	22
24								7600 (23.9)	6900 (33.8)	24
25								7400 (18.0)	6800 (30.1)	25
26								6800 ( 8.7)	6500 (26.1)	26
28									6300 (15.1)	28
29									6000 (0.6)	29

Capacities for Boom Base at Zero degree angle (0°)

Load-lb.	14000	14000	14000	14000	12100	10600	8900	6700 *	6000 *	Load-lb.
Rad.-ft.	8.8	11.3	13.8	16.3	18.8	21.3	23.8	26.3	29.0	Rad.-ft.

\* Stability Governs

Capacities for Boom Base at minus 20 degree angle (-20°)

Load-lb.	14000	14000	14000	14000	12800	11200	9600	7400	6400 *	Load-lb.
Rad.-ft.	8.2	10.5	12.9	15.2	17.6	19.9	22.3	24.6	27.2	Rad.-ft.

\* Stability Governs

NOTES TO OPERATION

- CAPACITIES BELOW SOLID LINE ARE BASED ON STABILITY AT 75% OF TIPPING.
- REFER TO RANGE CHART and CRANE OPERATION MANUAL FOR COMPLETE INFORMATION.

CHART CONDITIONS

INFORMATION IS FOR ARVA  
CRANE ASSEMBLY A161316  
SERIAL No. 1496-A161316  
SERIAL No. 1529-A161316

10 Ft. to 30 Ft. MAIN BOOM  
CHART CAPACITIES FOR  
BOOM ANGLES +60° TO -20°.  
CARRIER TO BE SET LEVEL  
FOR PROPER OPERATION.

**ARVA Model ARA 0309 CRANE**  
**10-30 ft. 4 section Boom**

MOUNTED ON RT11 or RT28 CARRIER WITH OUTRIGGERS.

Rev Oct 2000

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### 360° – FULL OUTRIGGERS – Chart C4.b

RADIUS FT	Main Boom Length in Feet									RADIUS FT	
	10	12.5	15	17.5	20	22.5	25	27.5	30		
4	14000 (59.4)									4	
5	14000 (52.4)									5	
6	14000 (44.6)	14000 (55.5)								6	
8	14000 (23.4)	14000 (43.3)	14000 (52.8)	14000 (58.8)						8	
10		14000 (27.0)	14000 (42.3)	14000 (50.7)	13000 (56.4)					10	
12			14000 (28.9)	13900 (41.5)	12350 (49.2)	11250 (54.5)	10100 (58.5)			12	
14				13600 (30.2)	11950 (41.0)	10800 (47.9)	9850 (52.9)	9000 (56.8)		14	
15				13600 (22.7)	11800 (36.4)	10600 (44.3)	9700 (50.0)	8800 (54.2)	8000 (57.9)	15	
16				13800 (11.1)	11750 (31.1)	10450 (40.5)	9500 (46.9)	8600 (51.6)	7850 (55.6)	16	
18					11800 (16.7)	10300 (31.8)	9250 (40.2)	8350 (46.0)	7550 (50.8)	18	
20						10300 (20.0)	9150 (32.4)	8100 (39.9)	7300 (45.7)	20	
22							9100 (22.2)	7900 (32.6)	7100 (40.1)	22	
24								7700 (23.9)	6900 (33.8)	24	
25		Chart data							7400 (18.0)	6800 (30.1)	25
26		4300 (15.1)	Capacity – lbs. (Boom Angle)						7100 ( 8.7)	6700 (26.1)	26
28									6550 (15.1)	28	
29									6500 (0.6)	29	

**Capacities for Boom Base at Zero degree angle (0°)**

Load—lb.	14000	14000	14000	14000	12100	10600	9400	7000	6500	Load—lb.
Rad.—ft.	8.8	11.3	13.8	16.3	18.8	21.3	23.8	26.3	29.0	Rad.—ft.

**Capacities for Boom Base at minus 20 degree angle (-20°)**

Load—lb.	14000	14000	14000	14000	12800	11200	9900	7400	6800	Load—lb.
Rad.—ft.	8.2	10.5	12.9	15.2	17.6	19.9	22.3	24.6	27.2	Rad.—ft.

**NOTES TO OPERATION**

1. CAPACITIES BELOW SOLID LINE ARE BASED ON STABILITY AT 75% OF TIPPING.
2. REFER TO RANGE CHART and CRANE OPERATION MANUAL FOR COMPLETE INFORMATION.

**CHART CONDITIONS**

INFORMATION IS FOR ARVA  
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