

MODEL 180BT-60/90  
SERIAL NUMBER 21707  
MONTCO OFFSHORE

		60 FOOT BOOM – RETRACTED						
RADIUS (FT)	BOOM ANGLE (DEG)	MAIN HOIST LOW SPEED		MAIN HOIST HIGH SPEED		AUXILIARY HOIST		
		SIX PART REEVING		SIX PART REEVING		SINGLE PART REEVING		
		ONBOARD (lbs)	OFFBOARD (lbs)	ONBOARD (lbs)	OFFBOARD (lbs)	ONBOARD (lbs)	OFFBOARD (lbs)	PERSONNEL (lbs)
8.1	83	80,000	53,333	50,880	50,880	7,669	7,669	2,154
10	81	80,000	53,333	50,880	50,880	7,669	7,669	2,154
15	76	70,454	46,569	50,880	46,569	7,669	7,669	2,154
20	71	55,543	36,629	50,880	36,629	7,669	7,669	2,154
25	66	46,179	30,398	46,197	30,398	7,669	7,669	2,154
30	61	38,707	25,405	38,707	25,405	7,669	7,669	2,154
35	55	32,522	21,281	32,522	21,281	7,669	7,669	2,154
40	49	27,792	18,128	27,792	18,128	7,669	7,669	2,154
45	42	24,078	15,652	24,078	15,652	7,669	7,669	2,154
50	34	21,078	13,652	21,078	13,652	7,669	7,669	2,154
55	24	18,605	12,003	18,605	12,003	7,669	7,669	2,154
60	0	16,450	10,567	16,450	10,567	7,669	7,669	2,154

DESIGN CONDITIONS	
METHOD USED	DEFAULT DYNAMIC
HOOK DROP	205 FT
MIN HOOK SPEED (MAIN LOW SPEED)	18 FPM
MIN HOOK SPEED (MAIN HIGH SPEED)	39 FPM
MIN HOOK SPEED (AUX.)	281 FPM

		90 FOOT BOOM – EXTENDED						
RADIUS (FT)	BOOM ANGLE (DEG)	MAIN HOIST LOW SPEED		MAIN HOIST HIGH SPEED		AUXILIARY HOIST		
		SIX PART REEVING		SIX PART REEVING		SINGLE PART REEVING		
		ONBOARD (lbs)	OFFBOARD (lbs)	ONBOARD (lbs)	OFFBOARD (lbs)	ONBOARD (lbs)	OFFBOARD (lbs)	PERSONNEL (lbs)
12	83	49,064	32,309	49,064	32,309	7,669	7,669	2,154
15	81	47,600	31,333	49,306	32,471	7,669	7,669	2,154
20	77	45,160	29,707	49,825	32,817	7,669	7,669	2,154
25	74	42,717	28,078	42,717	28,078	7,669	7,669	2,154
30	71	35,474	23,249	35,474	23,249	7,669	7,669	2,154
35	67	30,021	19,614	30,021	19,614	7,669	7,669	2,154
40	64	25,832	16,821	25,832	16,821	7,669	7,669	2,154
45	60	22,513	14,609	22,513	14,609	7,669	7,669	2,154
50	57	19,808	12,805	19,808	12,805	7,669	7,669	2,154
55	53	17,577	11,318	17,577	11,318	7,669	7,669	2,154
60	49	15,700	10,067	15,700	10,067	7,669	7,669	2,154
65	44	14,098	8,999	14,098	8,999	7,669	7,669	2,154
70	39	12,707	8,071	12,707	8,071	7,669	7,669	2,154
75	34	11,501	7,267	11,501	7,267	7,669	7,669	2,154
80	28	10,441	6,561	10,441	6,561	7,669	7,551	2,154
85	20	9,495	5,930	9,495	5,930	7,669	6,920	2,154
90	0	8,664	5,376	8,664	5,376	7,669	6,366	1,982

NOTE:

- 1) OFFBOARD LIFTS BASED ON SWL\*Cv
- 2) Cv IS THE VERTICAL DYNAMIC COEFFICIENT DETERMINED BY THREE METHODS
  - \* VESSEL SPECIFIC METHOD – USED FOR DETERMINING RATINGS FOR FLOATING PLATFORM / VESSEL
  - \* GENERAL METHOD – USED FOR DETERMINING RATINGS FOR FLOATING PLATFORM / VESSEL OR FIXED PLATFORM
  - \* DEFAULT DYNAMIC METHOD – OFFBOARD LIFTS FROM FIXED PLATFORM (Cv=2.0)
- 3) SHEAVE EFFICIENCY CONSIDERED.
- 4) THE ABOVE RATINGS ARE NET RATINGS AS THE MAIN LOAD BLOCK WEIGHT OF 1200 LBS. AND THE AUXILIARY OVERHAUL BALL WEIGHT OF 210 LBS. HAVE ALREADY BEEN SUBTRACTED TO DETERMINE "NET" CAPACITY.
- 5) REFERENCE MANUAL FOR REEVING DIAGRAMS.
- 6) REFERENCE INFORMATION CHART FOR REEVING DETAILS.
- 7) ALL RATINGS IN ACCORDANCE WITH API SPECIFICATION 2C (SPEC 2C), SIXTH EDITION, SEPTEMBER 2004.