

LUFFING JIB RAISING PROCEDURE

LUFFING JIB NO. 135 ON BOOM NO. 22EL

888 SERIES 1
888 SERIES 2

EUROPEAN STANDARDS

RECOMMENDED BOOM AND LUFFING JIB RAISING AND LOWERING PROCEDURE.

888 SERIES 1 MUST BE EQUIPPED WITH 144,100 LB. (65,360 kg) CRANE COUNTERWEIGHT AND 888 SERIES 2 MUST BE EQUIPPED WITH 179,100 LB. (81,240 kg) CRANE COUNTERWEIGHT AND 44,000 LB. (19,960 kg) CARBODY COUNTERWEIGHT FOR RAISING AND LOWERING VARIOUS BOOM AND LUFFING JIB COMBINATIONS. REFER TO LUFFING JIB RIGGING ASSEMBLY NO. 177063 OR NO. 177354 FOR BOOM AND LUFFING JIB MAKE-UP OF INSERTS, PENDANTS, AND MISCELLANEOUS PARTS, ETC.

THREE METHODS MAY BE USED TO RAISE AND LOWER BOOM AND LUFFING JIB COMBINATIONS, DEPENDING ON LENGTH. @

A. FOLD UNDER JACK-KNIFE METHOD

BOOM AND LUFFING JIB ARE ASSEMBLED IN FOLD UNDER POSITION. BOOM AND LUFFING JIB MUST BE IN LINE OVER FRONT OF BLOCKED CRAWLERS PRIOR TO RAISING BOOM AND LUFFING JIB. SLOWLY RAISE BOOM. JIB POINT WHEELS WILL ROLL ALONG GROUND. WHEN LUFFING JIB HINGE PIN IS 30' (9.1m) OFF GROUND, CONNECT JIB PENDANTS. MOVE JIB TOP WIRE ROPE GUIDE TO WORKING POSITION. TIGHTEN LUFFING JIB SUSPENSION WITH LUFFING JIB HOIST. SLOWLY RAISE BOOM UNTIL LUFFING JIB IS VERTICAL AND LUFFING JIB POINT WHEELS ARE CLEAR OF GROUND. TIGHTEN LUFFING JIB SUSPENSION WITH LUFFING JIB HOIST. BOOM AND LUFFING JIB ARE THEN RAISED TOGETHER USING BOOM HOIST UNTIL BOOM REACHES DESIRED BOOM OPERATING RANGE. LUFFING JIB RADIUS MUST BE WITHIN CAPACITY CHART BEFORE SWINGING OVER SIDE OF MACHINE.

POSITION BOOM AT 75 DEGREES WITH BOOM AND LUFFING JIB IN LINE OVER FRONT OF BLOCKED CRAWLERS PRIOR TO LOWERING LUFFING JIB. SLOWLY LOWER LUFFING JIB TO VERTICAL. LOWER BOOM UNTIL LUFFING JIB POINT WHEELS ARE JUST CLEAR OF GROUND. SLOWLY BOOM DOWN AND ASSIST LUFFING JIB POINT WHEELS IN FOLD UNDER DIRECTION. BOOM DOWN UNTIL LUFFING JIB HINGE PIN IS 30' (9.1m) OFF GROUND. DISCONNECT LUFFING JIB PENDANTS. MOVE JIB TOP WIRE ROPE GUIDE TO STOWED POSITION. RAISE LUFFING JIB STRUT WITH LUFFING JIB HOIST UNTIL LUFFING JIB STRUT IS IN LINE WITH LUFFING JIB. LOWER BOOM AND LUFFING JIB TO GROUND.

THE FOLLOWING BOOM AND LUFFING JIB COMBINATIONS MAY BE RAISED AND LOWERED USING FOLD UNDER JACK-KNIFE METHOD. BOOM LENGTHS SHOWN WITH ASTERISK (*) REQUIRE LOWER BOOM POINT TO BE REMOVED. BOOM LENGTH SHOWN WITH POUND SIGN (#) REQUIRE ONLY THE MIDDLE TWO SHEAVES IN LOWER BOOM POINT. ALL OTHER SHEAVES MUST BE REMOVED FROM LOWER BOOM POINT.

888 SERIES 1			
MAXIMUM BOOM AND LUFFING JIB LENGTHS LIFTED UNASSISTED OVER FRONT OF BLOCKED CRAWLERS USING FOLD UNDER JACK-KNIFE METHOD			
BOOM LENGTH		LUFFING JIB NO. 135	
FEET	METERS	FEET	METERS
90	27.4	70	21.3
100	30.5	70 - 80	21.3 - 24.4
110	33.5	70 - 90	21.3 - 27.4
120	36.6	70 - 100	21.3 - 30.5
130	39.6	70 - 110	21.3 - 33.5
140	42.7	70 - 120	21.3 - 36.6
150	45.7	70 - 130	21.3 - 39.6
160	48.8	70 - 140	21.3 - 42.7
*170	51.8	80 - 150	24.4 - 45.7
LOAD BLOCKS, HOOK AND WEIGHT BALL ON GROUND UNTIL BOOM AND LUFFING JIB ARE ERECTED.			

888 SERIES 2			
MAXIMUM BOOM AND LUFFING JIB LENGTHS LIFTED UNASSISTED OVER FRONT OF BLOCKED CRAWLERS USING FOLD UNDER JACK-KNIFE METHOD			
BOOM LENGTH		LUFFING JIB NO. 135	
FEET	METERS	FEET	METERS
90	27.4	70	21.3
100	30.5	70 - 80	21.3 - 24.4
110	33.5	70 - 90	21.3 - 27.4
120	36.6	70 - 100	21.3 - 30.5
130	39.6	70 - 110	21.3 - 33.5
140	42.7	70 - 120	21.3 - 36.6
150	45.7	70 - 130	21.3 - 39.6
160	48.8	70 - 140	21.3 - 42.7
170	51.8	70 - 150	21.3 - 45.7
180	54.9	70 - 160	21.3 - 48.8
#190	57.9	70 - 170	21.3 - 51.8
*200	61.0	100 - 130	30.5 - 39.6
LOAD BLOCKS, HOOK AND WEIGHT BALL ON GROUND UNTIL BOOM AND LUFFING JIB ARE ERECTED.			

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B. LAYOUT IN-LINE METHOD

BOOM AND LUFFING JIB ARE ASSEMBLED IN LAYOUT, END TO END, POSITION. BOOM AND LUFFING JIB MUST BE IN-LINE OVER FRONT OF BLOCKED CRAWLERS PRIOR TO RAISING BOOM AND LUFFING JIB. SLOWLY RAISE BOOM UNTIL JIB STOP STRUT IS JUST CLEAR OF GROUND. ATTACH JIB STOP PENDANTS AND UNPIN JIB STOP INNER STRUT FROM RETRACTED POSITION. SLOWLY RAISE BOOM UNTIL JIB STOP STRUT IS FULLY EXTENDED AND PINS ENGAGED (APPROXIMATELY 168 DEGREE BOOM TO LUFFING JIB ANGLE). TIGHTEN LUFFING JIB SUSPENSION WITH LUFFING JIB HOIST. BOOM AND LUFFING JIB CAN THEN BE RAISED SIMULTANEOUSLY USING ONLY THE BOOM HOIST. REVERSE THIS PROCEDURE WHEN LOWERING BOOM AND LUFFING JIB.

THE FOLLOWING COMBINATIONS MAY BE RAISED AND LOWERED USING LAYOUT IN-LINE METHOD.

888 SERIES 1			
MAXIMUM BOOM AND LUFFING JIB LENGTHS LIFTED UNASSISTED OVER FRONT OF BLOCKED CRAWLERS USING LAYOUT IN-LINE METHOD			
BOOM LENGTH		LUFFING JIB NO. 135	
FEET	METERS	FEET	METERS
70	21.3	70 - 170	21.3 - 51.8
80	24.4	70 - 170	21.3 - 51.8
90	27.4	70 - 170	21.3 - 51.8
100	30.5	70 - 170	21.3 - 51.8
110	33.5	70 - 170	21.3 - 51.8
120	36.6	70 - 140	21.3 - 42.7
130	39.6	70 - 120	21.3 - 36.6
140	42.7	70 - 90	21.3 - 27.4
150	45.7	70	21.3
LOAD BLOCKS, HOOK AND WEIGHT BALL ON GROUND UNTIL BOOM AND LUFFING JIB ARE ERECTED.			

888 SERIES 2			
MAXIMUM BOOM AND LUFFING JIB LENGTHS LIFTED UNASSISTED OVER FRONT OF BLOCKED CRAWLERS USING LAYOUT IN-LINE METHOD			
BOOM LENGTH		LUFFING JIB NO. 135	
FEET	METERS	FEET	METERS
70	21.3	70 - 170	21.3 - 51.8
80	24.4	70 - 170	21.3 - 51.8
90	27.4	70 - 170	21.3 - 51.8
100	30.5	70 - 170	21.3 - 51.8
110	33.5	70 - 170	21.3 - 51.8
120	36.6	70 - 170	21.3 - 51.8
130	39.6	70 - 160	21.3 - 48.8
140	42.7	70 - 150	21.3 - 45.7
150	45.7	70 - 120	21.3 - 36.6
160	48.8	70 - 100	21.3 - 30.5
170	51.8	70 - 80	21.3 - 24.4
LOAD BLOCKS, HOOK AND WEIGHT BALL ON GROUND UNTIL BOOM AND LUFFING JIB ARE ERECTED.			

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C. LAYOUT JACK-KNIFE METHOD

LONGER BOOM AND LUFFING JIB COMBINATIONS MUST BE RAISED AND LOWERED USING THIS METHOD. IN SOME CASES, FOLD UNDER JACK-KNIFE METHOD MAY BE USED WHERE BOOM AND LUFFING JIB COMBINATIONS EXCEED LAYOUT IN-LINE METHOD FOR RAISING AND LOWERING.

BOOM AND LUFFING JIB ARE ASSEMBLED IN LAYOUT, END TO END, POSITION. BOOM AND LUFFING JIB MUST BE IN LINE OVER FRONT OF BLOCKED CRAWLERS PRIOR TO RAISING BOOM AND LUFFING JIB. SLOWLY RAISE BOOM UNTIL JIB STOP STRUT IS JUST CLEAR OF GROUND. ATTACH JIB STOP PENDANTS AND UNPIN JIB STOP INNER STRUT FROM RETRACTED POSITION. SLOWLY RAISE BOOM UNTIL JIB STOP STRUT IS FULLY EXTENDED AND PINS ENGAGED (APPROXIMATELY 168 DEGREE BOOM TO LUFFING JIB ANGLE). BOOM IS THEN RAISED WHILE JIB POINT WHEELS ARE ALLOWED TO ROLL ON GROUND. TENSION SHOULD BE APPLIED TO LUFFING JIB HOIST TO KEEP JIB STRUT OFF LUFFING JIB DURING BOOM RAISING. BOOM UP UNTIL BOOM TO LUFFING JIB ANGLE REACHES VALUE SPECIFIED IN TABLE OR VERTICAL, WHICHEVER OCCURS FIRST. TIGHTEN LUFFING JIB SUSPENSION WITH LUFFING JIB HOIST. BOOM AND LUFFING JIB ARE THEN RAISED TOGETHER USING BOOM HOIST UNTIL BOOM REACHES DESIRED BOOM OPERATING ANGLE. LUFFING JIB RADIUS MUST BE WITHIN CAPACITY CHART BEFORE SWINGING OVER SIDE OF MACHINE.

POSITION BOOM AT 75 DEGREES WITH BOOM AND LUFFING JIB IN LINE OVER FRONT OF BLOCKED CRAWLERS PRIOR TO LOWERING LUFFING JIB. LOWER LUFFING JIB UNTIL BOOM TO LUFFING JIB ANGLE REACHES VALUE SPECIFIED IN TABLE. LOWER BOOM UNTIL LUFFING JIB POINT WHEELS CONTACT GROUND. IF LUFFING JIB IS HANGING VERTICAL, RAISE LUFFING JIB A FEW DEGREES FORWARD OF VERTICAL. CONTINUE TO LOWER BOOM WHILE LUFFING JIB ROLLS ALONG GROUND. KEEP ENOUGH TENSION ON LUFFING JIB HOIST TO KEEP JIB STRUT OFF LUFFING JIB. STOP LOWERING BOOM WHEN JIB STOP PENDANTS START TO GO INTO TENSION (APPROXIMATELY 168 DEGREE BOOM TO LUFFING JIB ANGLE). DISENGAGE JIB STOP STRUT PINS AND LOWER BOOM TO RETRACT JIB STOP INNER STRUT. PIN STRUT IN RETRACTED POSITION AND UNPIN JIB STOP PENDANTS. ROTATE JIB STOP STRUTS FORWARD AND LOWER BOOM AND LUFFING JIB TO GROUND.

THE FOLLOWING BOOM AND LUFFING JIB COMBINATIONS REQUIRE JACK KNIFING TO A SPECIFIED BOOM TO LUFFING JIB ANGLE FOR RAISING AND LOWERING. BOOM LENGTHS SHOWN WITH ASTERISK (*) REQUIRE LOWER BOOM POINT TO BE REMOVED. BOOM LENGTH SHOWN WITH DOUBLE ASTERISK (**) REQUIRES LOWER BOOM POINT AND WIRE ROPE GUIDE ASSEMBLY NO. 177364 TO BE REMOVED. BOOM LENGTH SHOWN WITH POUND SIGN (#) REQUIRES ONLY THE MIDDLE TWO SHEAVES IN LOWER BOOM POINT. ALL OTHER SHEAVES MUST BE REMOVED FROM LOWER BOOM POINT. BOOM LENGTH SHOWN WITH DOUBLE POUND SIGN (##) REQUIRES LOWER BOOM POINT, WIRE ROPE GUIDE ASSEMBLY NO. 177364 AND LOWER WIRE ROPE GUIDE SHEAVE AND SHAFT IN JIB STRUT TO BE REMOVED.

888 SERIES 1				
MAXIMUM BOOM AND LUFFING JIB LENGTHS LIFTED UNASSISTED OVER FRONT OF BLOCKED CRAWLERS USING LAYOUT JACK-KNIFE METHOD				
BOOM FEET	LENGTH METERS	LUFFING JIB NO. 135		BOOM TO LUFFING JIB ANGLE DEGREES
		FEET	METERS	
120	36.6	150 - 170	45.7 - 51.8	90
130	39.6	130 - 170	39.6 - 51.8	90
140	42.7	100 - 170	30.5 - 51.8	90
150	45.7	80 - 170	24.4 - 51.8	90
160	48.8	70 - 170	21.3 - 51.8	60
**170	51.8	80 - 150	24.4 - 45.7	60
LOAD BLOCKS, HOOK AND WEIGHT BALL ON GROUND UNTIL BOOM AND LUFFING JIB ARE ERECTED.				

888 SERIES 2				
MAXIMUM BOOM AND LUFFING JIB LENGTHS LIFTED UNASSISTED OVER FRONT OF BLOCKED CRAWLERS USING LAYOUT JACK-KNIFE METHOD				
BOOM FEET	LENGTH METERS	LUFFING JIB NO. 135		BOOM TO LUFFING JIB ANGLE DEGREES
		FEET	METERS	
130	39.6	170	51.8	90
140	42.7	160 - 170	48.8 - 51.8	90
150	45.7	130 - 170	39.6 - 51.8	90
160	48.8	110 - 170	33.5 - 51.8	90
170	51.8	90 - 170	27.4 - 51.8	90
180	54.9	70 - 170	21.3 - 51.8	90
#190	57.9	70 - 170	21.3 - 51.8	60
*200	61.0	100 - 130	30.5 - 39.6	60
**200	61.0	140 - 150	42.7 - 45.7	60
##200	61.0	160 - 170	48.8 - 51.8	60
LOAD BLOCKS, HOOK AND WEIGHT BALL ON GROUND UNTIL BOOM AND LUFFING JIB ARE ERECTED.				