

MODEL R-200 • 20 TON HYDRAULIC CRANE • 28 FT. 10IN. TO 64 FT. 10IN. BOOM • CLASS 10-55

OPERATING RADIUS FEET	BOOM LOAD RATINGS IN POUNDS					
	WITH OUTRIGGERS				WITHOUT OUTRIGGERS	
	OVER FRONT		360° ROTATION		OVER FRONT	360° ROTATION
	POWERED BOOM	MANUAL INSERT EXTENDED	POWERED BOOM	MANUAL INSERT EXTENDED	POWERED BOOM	POWERED BOOM
	28'10"-64'10"	44'10"-80'10"	28'10"-64'10"	44'10"-80'10"	28'10"-64'10"	28'10"-64'10"
10	40000*		40000*		30000	21000
12	34000		34000		24000	15800
14	29800	12500	29800	12500	19000	12300
16	27000	12500	26800	12500	15300	10000
18	24500	12500	23200	12500	12400	8000
20	22000	12500	19800	12500	10400	6700
25	15500	12500	13300	12500	7000	4400
30	11300	11300	9400	9400	4700	3000
35	8500	8500	7200	7200	3200	2000
40	6500	6500	5500	5500	2200	1200
45	5200	5200	4400	4400	1800	700
50	4300	4300	3600	3600	1100	
55	3600	3600	2900	2900	800	
60	3000	3000	2400	2400	600	
65		2700		2100		
70		2300		1700		
76		1600		1100		

NO SEQUENCE PATTERN FOR EXTENSION.
EACH BOOM TELESCOPIC SECTION IS
POWER EXTENDABLE A DISTANCE OF 18 FEET.
*40,000# WITH RETRACTED (28'10") BOOM LENGTH ONLY

DEDUCTIONS TO BE MADE FROM POWERED BOOM LOAD RATINGS					
EQUIPPED WITH POUNDS	JIB		RETRACTED MANUAL INSERT		
	STOWED	ERECTED	NO JIB	STOWED JIB	ERECTED JIB
	400	800	800	1200	1600

OPERATING RADIUS IS THE HORIZONTAL DISTANCE FROM THE AXIS OF ROTATION BEFORE LOADING, TO THE CENTER OF THE VERTICAL HOIST LINE OR TACKLE WITH LOAD APPLIED. CRANE LOAD RATINGS ARE FOR MACHINES WITH 4300 POUNDS OF COUNTERWEIGHT, AND DO NOT EXCEED 85% OF TIPPING LOADS. RATINGS ABOVE THE HEAVY LINE ARE BASED ON THE MACHINE'S HYDRAULIC OR STRUCTURAL COMPETENCE, AND NOT ON THE MACHINE STABILITY. WEIGHTS OF HOOKS, HOOK BLOCKS, SLINGS, AND ALL OTHER LOAD HANDLING DEVICES, EXCEPT HOIST ROPE, SHALL BE CONSIDERED A PART OF THE LOAD. CRANE LOAD RATINGS WITH OUTRIGGERS ARE BASED ON OUTRIGGERS FULLY EXTENDED AND SET TO A DISTANCE OF 7 FT. 2 IN. FROM THE LONGITUDINAL AXIS OF THE CARRIER TO THE OUTRIGGER FLOAT PIVOT CONNECTION WITH WHEELS WITHIN THE BOUNDARY OF THE OUTRIGGERS UNLOADED.

WARNING: WHEN OPERATING WITHOUT A LOAD, THE POWERED BOOM POINT OR MANUAL INSERT POINT, OR JIB POINT, IF SO EQUIPPED, MAY NOT EXTEND BEYOND A RADIUS OF 45 FT. FOR 360° OPERATION, OR 60 FT. OVER THE FRONT, UNLESS OUTRIGGERS ARE FULLY SET.

NOTE: OPERATION OF THIS EQUIPMENT IN EXCESS OF LOAD RATINGS AND DISREGARD OF INSTRUCTIONS VOIDS THE WARRANTY

16 FOOT PINNED MANUAL INSERT ON POWERED BOOM

USE OF OUTRIGGERS IS RECOMMENDED WHEN POWERED BOOM IS EQUIPPED WITH AN EXTENDED MANUAL INSERT.

RETRACTED MANUAL INSERT INCREASES POWERED BOOM LENGTH 1'-6".

WITH OUTRIGGERS FULLY SET, AND MANUAL INSERT RETRACTED, RATINGS FOR POWERED BOOM WITH OUTRIGGERS APPLY, LESS DEDUCTIONS IN TABLE.

WITH OUTRIGGERS NOT SET, AND MANUAL INSERT RETRACTED, RATINGS FOR THE POWERED BOOM WITHOUT OUTRIGGERS APPLY, LESS DEDUCTIONS IN TABLE.

TIRE INFLATION

TIRE SIZE	TIRE PRESSURE
16:00 x 24	65 P.S.I.
17:50 x 25	70 P.S.I.

HOIST REEVEING - 1/2" DIA. WIRE ROPE MIN. BREAKING STRENGTH 22000 LB.

PARTS OF LINE	1	2	3	4	5	6	7
MAX. LOAD LBS.	6250	12500	18750	25000	31250	37500	40000

CRANE LOAD RATINGS WITHOUT OUTRIGGERS DEPEND ON CAPACITY AND CONDITION OF TIRES INFLATED PER TABLE, AND APPLY ONLY WHEN REAR AXLE LOCKOUTS ARE ENGAGED. CRANE LOAD RATINGS ARE BASED ON FREELY SUSPENDED LOADS WITH THE MACHINE LEVELLED AND STANDING ON A FIRM, UNIFORM SUPPORTING SURFACE. PRACTICAL WORKING LOADS DEPEND ON 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.

POSITIONING OR OPERATION AT RADII AND BOOM OR JIB LENGTHS BEYOND THE MAXIMUMS AND MINIMUMS SHOWN IS NOT INTENDED OR APPROVED.

WARNING: WHEN OPERATING WITHOUT OUTRIGGERS, REAR AXLE LOCKOUTS MUST BE ENGAGED WHEN THE BOOM POINT IS RETRACTED CLOSER THAN THE RECOMMENDED LOAD RADIUS OF 10 FEET.

MAX. JIB LOAD RATINGS IN POUNDS ON POWERED BOOM OR ON MANUAL INSERT

MIN. BOOM ANGLE	15 OR 20 FOOT JIB		
	JIB ANGLE		
	0°	10°	20°
70°	5000	5000	4500
65°	5000	4500	4000
60°	4000	3500	3000
50°	2500	2250	2000
40°	2000	1750	1500
30°	1500	1400	1300

MAXIMUM JIB LOAD RATINGS ARE BASED ON STRUCTURAL COMPETENCE. JIB LOAD RATINGS AT ANY RADIUS SHALL NOT EXCEED THE POWERED BOOM LOAD RATINGS AT THE SAME RADIUS, AND SHALL NOT EXCEED MAX. JIB LOAD RATINGS SHOWN.

FOR BUCKET RATINGS ON JIB, DEDUCT 20% FROM MAX. JIB LOAD RATINGS. MAX. JIB OPERATING RADIUS SHALL NOT EXCEED THE OPERATING RADIUS OF THE POWERED BOOM FOR ANY GIVEN LENGTH SETTING.

USE OF OUTRIGGERS IS RECOMMENDED WHEN BOOM IS EQUIPPED WITH JIB.

Harnischfeger
P&H