The "BIG ONE" from ... P&H

RH-25

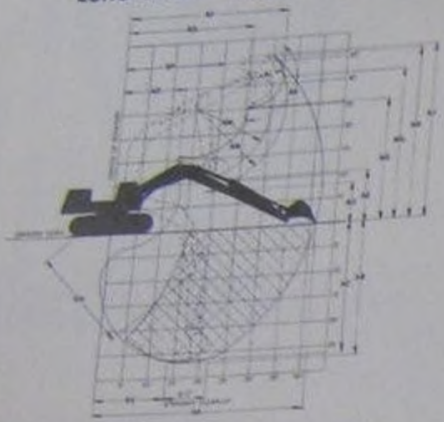
HEAVY DUTY FULLY HYDRAULIC EXCAVATOR

More Digging Power Behind the Bucket Plus Faster Working Speeds

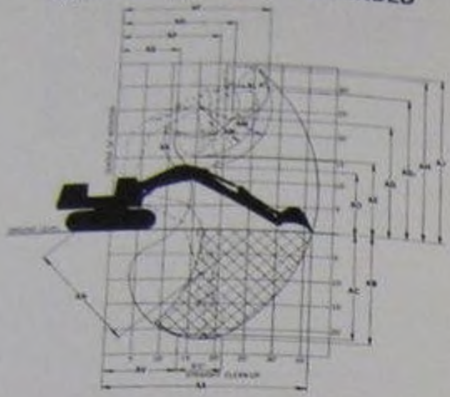
- Most advanced high-pressure hydraulic system — over 4,000 p.s.i. — field proven on thousands of demanding jobs around the world.
- Exclusive—variable volume piston pumps — engine can't be lugged. Precision-manufactured pumps, valves and cylinders.
- Sealed, lifetime lubricated crawler rollers.
- More than 2-ft. ground clearance.
- Joy stick controls — with power assist for easiest, effortless operation, infinite metering action.
- Exclusive — self-regulating pumps which sense requirements of each function and automatically adjust their output. Engine is protected against overloading.
- Adjustable boom lengths, plus two stick lengths, for optimum digging capabilities.
- Readily convertible to a shovel.

WORKING RANGES (in Accordance with PCSA Standard #3)

LONG STICK — BOOM EXTENDED

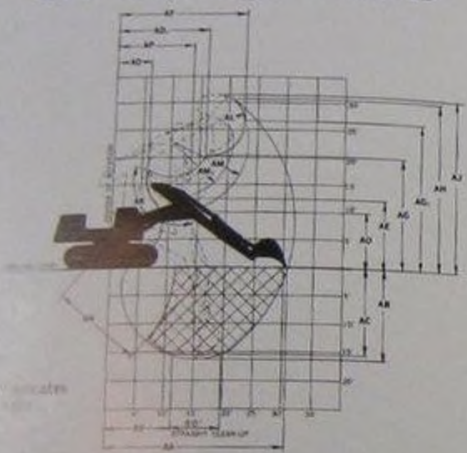


SHORT STICK — BOOM EXTENDED



LONG STICK — BOOM RETRACTED

SHORT STICK — BOOM RETRACTED



	LONG BOOM ARM		SHORT BOOM ARM	
	BOOM EXTENDED	BOOM RETRACTED	BOOM EXTENDED	BOOM RETRACTED
	42'8"	35'4"	36'5"	30'8"
	27'0"	21'5"	22'1"	16'5"
	26'6"	21'0"	21'6"	15'10"
	12'5"	7'4"	11'3"	6'2"
	23'7"	20'5"	21'3"	16'1"
	10'8"	7'8"	15'5"	12'7"
	32'0"	26'11"	27'8"	22'7"
	15'6"	22'6"	23'3"	20'3"
	31'7"	28'7"	29'3"	26'3"
	36'1"	33'1"	33'9"	30'9"
	36'5"	33'5"	34'1"	31'1"
	143°	143°	143°	143°
	6'1"	6'1"	6'1"	6'1"
	18'2"	18'2"	13'0"	13'0"
	15'2"	15'2"	10'0"	10'0"
	22'3"	17'1"	22'3"	17'1"
	8'0"	5'0"	12'9"	9'11"
	20'0"	14'11"	18'10"	13'9"
	13'4"	11'6"	13'3"	11'5"

A TRUE PIPELINER

With the RH-25 you get a fresh burst of power where others quit . . . automatically increasing up to 4250 p.s.i. as a special circuit senses digging requirements. But, as digging resistance lessens, speed automatically increases.

It's a rugged hoe with a heavy duty crawler system. Features include tractor-type crawlers with sealed, lifetime lubricated rollers. And there's more than 2 feet of under-carbody clearance.

Adjustable boom lengths plus choice of sticks means you get optimum capability every foot of the way. Cycling is made even faster with 7 r.p.m. swing speed and power assist controls. You move up swiftly with big propel power.

If your profit statement depends on hoes . . . look to the RH-25, the high performance pipeliner.

GENERAL DIMENSIONS

	W/24" shoes	W/30" shoes	W/36" shoes
A — Width of superstructure	9'-8"	9'-8"	9'-8"
B — Overall height	10'-11"	11'-0"	11'-0"
C — Swing clearance	10'-8"	10'-8"	10'-8"
D — Boom foot pin to ℄ rotation	2'-3"	2'-3"	2'-3"
E — Boom foot pin height	7'-9"	7'-10"	7'-10"
G — Revolving frame height	4'-10"	4'-11"	4'-11"
J — Overall length of crawler	16'-3"	16'-5"	16'-5"
K — Overall width of crawler	11'-0"	11'-6"	12'-0"
L — Width of shoes	24"	30"	36"
M — Crawler tread belt height	4'-0"	4'-2"	4'-2"
N_1 — Ground clearance (drive assy.)	0'-11"	1'-0"	1'-0"
N_2 — Ground clearance (carbody)	2'-2"	2'-3"	2'-3"

SPECIFICATIONS

UPPER MACHINERY

POWER PLANT:
Cummins: V-785-C, 8 cyl. .... 220 net hp at 2300 rpm.

FUEL TANK: .... 120 gal. capacity.

THROTTLE: Morse Model "S" — hand lever control.

FAN: 6 blade — 28" dia. — suction type.

GAUGE CLUSTER (ENGINE): Fuel tank, oil pressure, voltmeter, water temperature.

STANDARD ACCESSORIES: Variable speed governor, solenoid shut down, hour meter, tachometer, hydraulic oil temperature gauge starter button, autopamic dry type air cleaner, 24 volt electrical system with alternator, master key switch.

PUMP DRIVE ASSEMBLY: Mounted on hydraulic reservoir, 3 station drive with two main pumps inside reservoir and single servo pump on outside. Direct driven from engine flywheel through elastic coupling & universal joint.

HYDRAULIC OIL COOLER: Connected in return circuit between main valves and reservoir.

HYDRAULIC PUMPS: Two self-regulating axial piston pumps. 1800 rpm at gov. eng. speed. 59 G.P.M. at 2250 P.S.I. in fixed displacement, non-regulating stage. 26 G.P.M. minimum at 4250 P.S.I. maximum in variable displacement, self regulating stage.
Front pump: LH propel, swing & stick have priority with flow being available to dipper or boom (dipper has priority over boom) if not being used by any of the other functions in this circuit.
Rear pump: RH propel, boom & optional shovel dipper have priority, with flow being available to the dipper & stick (dipper has priority over stick) if not being used by any of the other functions in this circuit. NOTE: Boom, dipper & stick may utilize flow of both pumps simultaneously if no other function is being performed at the same time . . . thus doubling the working speed.
Rear outside pump: Servo control system — 7 G.P.M. at 570 P.S.I. — gear type.

HYDRAULIC CONTROL VALVES:
Main Control Valves: Sliding spool, 4 way, pilot operated, servo controlled. Large valve for boom dipper and stick. Small 3-spool valve for swing RH & LH propel, and single spool valve for optional shovel.
Servo Control Valves: Constant pressure, manually controlled. One for boom & stick; one for swing & dipper; one for swing brake; one for propel; two for optional shovel dipper.

CONTROL: Servo control valves manually operated. 2 joystick type hand control levers — one for boom & stick, one for swing and dipper. 2 hand control levers for RH & LH propel. One foot pedal for swing brake. 2 foot pedals for optional shovel dipper opening — closing.

OPERATOR'S CAB: All weather, full vision cab, with safety glass windows.

SWING DRIVE: Hydraulic motor driving thru gear reducer — 360° continuous rotation up to 7.2 rpm.

SWING BRAKE: Internal, expanding shoe type, mounted on shaft extension from swing reducer. Hydraulically actuated with foot pedal control or manually controlled with hand lever.

SWING GEAR: Internal cut teeth — 54" P.D.

TYPE OF FASTENING TO LOWER: Ball bearing Swing [illegible] gear integral.

COUNTERWEIGHT: Removable — 19,500#

WORKING WEIGHT: With 30" std. shoes and 2 cu. yd. [illegible]

LOWER MACHINERY

CRAWLER DRIVE: Two independently [illegible] draulic motors (powered from separate [illegible] upper) through triple reduction gear [illegible] drive.

STEERING: Independently [illegible] 'pivot' turning.

TRAVEL SPEED: Single speed, [illegible] mph.

CRAWLERS: Tractor type — with [illegible] adjustment, 92 shoes, [illegible] rollers (lower) each frame.

CRAWLER SHOES: 30" [illegible] semi-grouser (opt.)

ATTACH[illegible]

HOE DIPPERS: Available [illegible]

SHOVEL DIPPERS: Consult [illegible]

BOOM CYLINDER: 2 double acting [illegible]

STICK CYLINDER: 1 double acting [illegible]

DIPPER CYLINDER: 1 double acting [illegible] relief.

THE HIGH PERFORMANCE EXCAVATOR

NOTE: In furtherance of our policy of continual product improvement, all designs and specifications are subject to change without advance notice. Data published herein is informational in nature and shall not be construed to warrant suitability of the machine for any particular purpose as performance may vary with the conditions encountered. The only warranty applicable is our standard written warranty for this machine. Manufactured and sold in conformance with U. S. Department of Commerce Commercial Standard CS-90-58.

Address inquiries to:

SHAPIRO EQUIPMENT CORPORATION
2640 Berlin Turnpike, Newington, Conn. 06111
AREA CODE 203 667-0881

P&H HYDRAULIC EQUIPMENT
HARNISCHFEGER
Milwaukee, Wisconsin 53246

XH-565-2

Effective May 1, 1971. This bulletin supersedes all previous literature.

M5-571 Litho in U.S.A.

P&H

RH-25

3 CU. YD. HEAVY DUTY HYDRAULIC SHOVEL

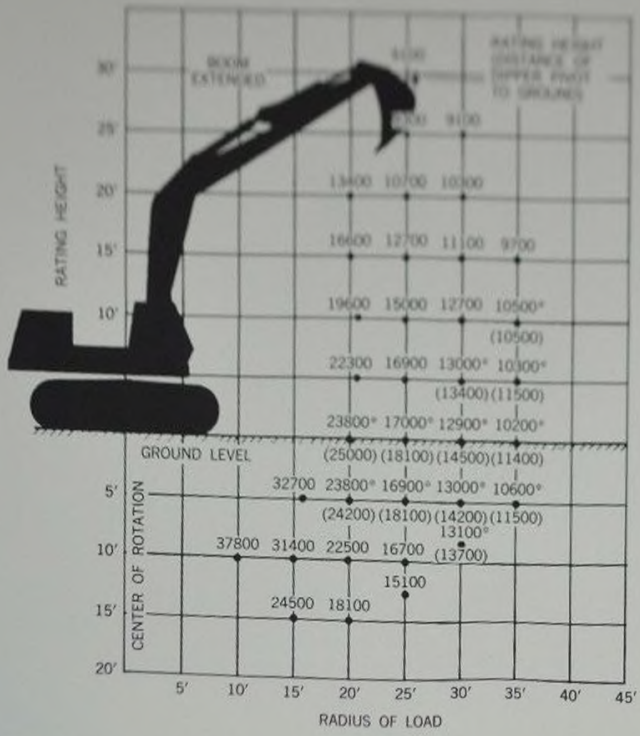
P&H RH-25

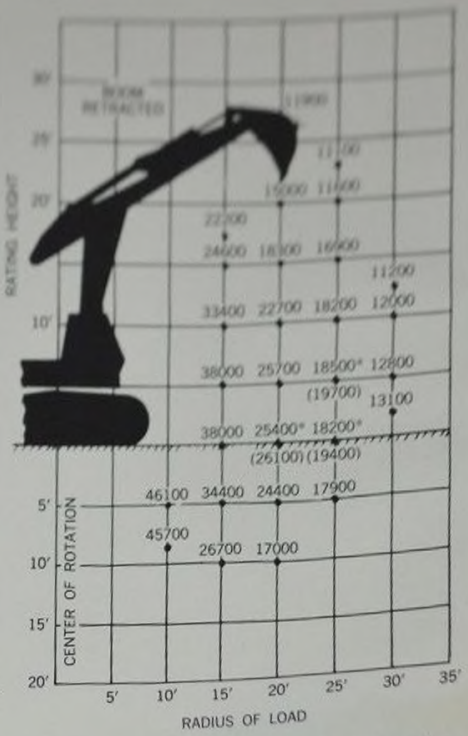
FULLY HYDRAULIC EXCAVATOR

LOAD RATING CHART — HOE LIFTING CAPACITY

WITH SHORT STICK

Ratings are based on 75% of the tipping load as determined by the PCSA.
Add 13% to all ratings to obtain 85% of tipping.





Ratings based on the machine standing on a firm, level, uniformly supporting surface with a bucket weight not exceeding 3600#. Ratings based on hydraulic system capabilities (115% of rated load) or 75% of the tipping load over the side of tracks (indicated by *), whichever is lower, per PCSA standards. Numbers shown thus (xxxxx) indicate the hydraulic capability rating over the front of the machine. The net load is determined by subtracting weight of slings, hooks and all other load handling accessories from the rating. Practical working loads for a particular job shall be established by the user with due allowance for operating conditions such as ground support, outside factors affecting stability, hazardous surroundings, experience of personnel, etc.

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