

# HPST



# HPST

HPST/GeoQuip Power Systems LLC



**HPST/GeoQuip Power Systems**  
1203 Ozark  
North Kansas City, Missouri 64116  
(816) 221-4774  
[www.4hpsi.com](http://www.4hpsi.com)

VIBRATORY HAMMERS | HYDRAULIC AUGERS | HYDRAULIC POWER UNITS



# HPSI

**GEOQUIP POWER SYSTEMS, LLC.**

1203 OZARK NORTH KANSAS CITY, MISSOURI 64116, USA

PHONE 816.221.1111

# VIBRATORY DAMPENERS- PROTECT YOUR CRANE

Full range of models from 5,000 lbs. capacity up to 180,000 lbs

- ▶ 95% vibration reduction
- ▶ Load cells don't have to be removed for use with vibratory hammer
- ▶ Eliminates wear and tear on hydraulic boom cylinders
- ▶ Suitable for use with any hydraulic boom/crawler crane and any make/model vibratory hammer



# SHOCK ABSORBERS

## ADVANTAGES

- The shock absorber reduces the highly dynamic alternating forces generated by the pile-driving and extracting equipment.
- As a result, damage to the excavator or crane used as a carrier unit is prevented.
- By combining a special heat-resistant hollow rubber spring with a simple but effective articulated construction an efficient insulation against vibrations is achieved.
- Absolute safety, even under heavy-duty conditions, is guaranteed by a double-side suspension device, special shackles and the self-cantering, not bendable hollow rubber spring.
- Versatile usability for pile-driving and extracting
- The shock absorber is also ideally suitable for transport shock-sensitive goods.

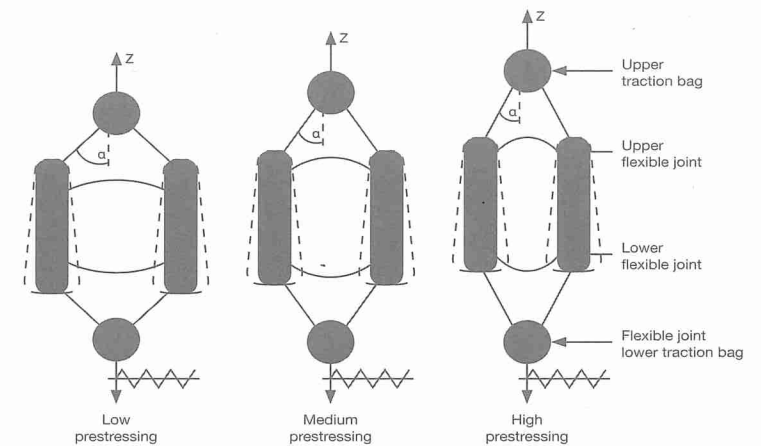


## EFFECTIVE MODE OF ACTION

The vibro-insulating function is taken over by the horizontally arranged and pressurized hollow rubber spring.

With growing tractive force the angles are reduced, decreasing the pressure stress of the rubber proportionally to the tractive force. From the practical perspective it is possible to introduce high tractive forces (high prestressing forces) into the pile-driving and extracting equipment without overloading the hollow rubber spring.

Simultaneously with the stretching and retracting of the rubber spring, movement of the lateral pressure plates around the upper flexible joints is ensured due to the geometrically arranged cables. Even with max tractive stress, the vertical swinging introduced by the pile-driving and extracting equipment is absorbed and not transmitted into the tractive cable of the carrier unit.



Shock absorber	Typ	SD 20	SD 30	SD 70	SD 130	SD 180
Max. admissible prestressing	kN	120	160	250	500	800
Height	mm	1070	1090	1550	2100	2370
Width	mm	670	730	840	1060	1170
Weight approx.	kg	155	200	325	750	1791

# HPSI VIBRATORY HAMMERS



## Engineering Data

Technical data on vibratory pile hammers can often be useful when selecting a machine for a particular application.

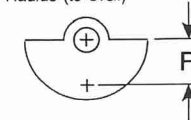
It is very useful to select a machine with the right combination of eccentric moment, amplitude, dynamic force, hydraulic horsepower, engine horsepower and total weight for a particular application.

The following information may be valuable in your selection of equipment for your job.

### Eccentric Moment

A value in inch pounds equal to the weight of the eccentric multiplied by the distance from the center of rotation to the center of gravity of the eccentric.

Eccentric Moment = Weight x Radius (to C.G.)



### Centrifugal Force

A weight rotating about a center of rotation at a fixed radius equal to outward force.

Centrifugal Force, lbs. =  $\frac{\text{Weight} \times \text{Radius} \times \text{RPM} \times \text{RPM}}{35204}$

### Clamp Force

The area of the piston rod head of the clamp multiplied by the available clamp pressure of the Power Pack. Clamp force is very important to the life of the jaws of the clamp.

Clamp Force Tons =  $\frac{\text{Dia}^2 \times .7854 \times \text{Pressure}}{2000}$

### Hydraulic Horsepower

Output horsepower of the hydraulic motors is equal to the actual gallons per minute of hydraulic oil being delivered multiplied by the maximum relief setting of the hydraulic system. It is important when reviewing hammer specifications that the diesel engine horsepower is capable of providing more power than is required to achieve the required hydraulic horsepower. Without this horsepower available, it is not possible to maintain frequency to obtain maximum driving forces.

Hydraulic Horsepower =  $\frac{\text{GPM} \times \text{Pressure}}{1714} \div \text{Motor Efficiency}$

### Dynamic Forces

Also sometimes known as driving force, is the force generated by the rotation of the eccentrics. The driving force is the product of the eccentric moment multiplied by a constant multiplied by the steady state frequency squared.

Force Tons =  $\frac{\text{Eccentric Moment} \times .0142 \times \text{Frequency}^2}{1,000,000}$

### Driving Amplitude

The total vertical travel of the vibrating mass including the vibrating portion of the Exciter and the weight of the pile being driven.

Amplitude in inches =  $\frac{\text{Eccentric Moment}}{\text{Vibrating Mass}} \times 2$

### Vibrating Mass

In determining the drivability of very heavy pile such as caissons, it is helpful to know the vibrating mass of the particular machine you are using. With known factors of eccentric moment and amplitude, the vibrating mass may be expressed as follows.

Vibrating Mass =  $\frac{\text{Eccentric Moment} \times 2}{\text{Amplitude}}$

### Caisson Weight

To calculate the total vibrating mass for determining available amplitude, it is necessary to know the weight of the caisson. The simplified formula for pipe is shown as

Weight per Foot = O.D. of Pipe - Wall Thickness x Wall Thickness x 10.68



## EXCAVATOR MOUNTED VIBRATORY HAMMERS



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## EXCAVATOR MOUNTED VIBRATORY HAMMERS

### SIX MODELS

MODEL	WEIGHT	ECCENTRIC MOMENT
10 E	2,200 # ( 997.9 kg)	100 in.lbs. ( 1.15 kgm)
20 E	2,230 # (1,011.5 kg)	200 in.lbs. ( 2.30 kgm)
40 E	4,180 # (1,896.0 kg)	400 in.lbs. ( 4.60 kgm)
65 E	4,430 # (2,009.4 kg)	650 in.lbs. ( 7.47 kgm)
80 E	4,480 # (2,032.1 kg)	800 in.lbs. ( 9.20 kgm)
100 E	4,625 # (2,097.9 kg)	1000 in.lbs. (11.50 kgm)



SHIPPING STANDS ADD 300 # (900 # on 65 E, 100 E)



### FLOW CONTROL & SEQUENCE OPERATION

Input flow will automatically adjust through the sequence manifold to utilize the required and proper flow to operate the unit, eliminating the need for adjustments to the load sense excavator hydraulic circuit. The sequence manifold will also limit the pressure to the clamp. This allows the vibratory hammer to utilize all the pressure of the excavator to 5000 psi for driving.

### OPTIONAL ACCESSORIES

- ◆ DOUBLE SHEETING JAWS
- ◆ SEQUENCE LOGIC MANIFOLD TO ELIMINATE CLAMP CIRCUIT
- ◆ UNIVERSAL SWIVEL ATTACHMENT FITS VARIOUS BOOMS

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# HPSI MODEL 10 SPECIFICATIONS

## EXCITER

Eccentric moment .....	100 in. lbs
Dynamic force .....	7 tons
Frequency, max .....	2100 vpm
Amplitude .....	.625 inches
Pile clamp force .....	25 tons
Rated max. line pull .....	12 tons
Hose bundle length .....	100 foot
Suspended weight* .....	1200 lbs
Height* .....	36 inches
Width* .....	36 inches
Throat width* .....	6 inches

## POWER PACK

Engine .....	John Deere
Rated H.P. ....	25 hp
Hydraulic flow .....	16 gpm
Hydraulic drive pressure .....	2500 psi
Hydraulic clamp pressure* .....	2500 psi
Hydraulic oil capacity .....	40 gal
Fuel Capacity .....	40 gal
30' Air remote control .....	Optional
Enclosure .....	Optional
Soundproofing .....	Optional
Weight* .....	2500 lbs
Length* .....	96 inches
Width* .....	42 inches
Height* .....	67 inches

\*Variable for different types of piling and clamps

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# HPSI MODEL 20 SPECIFICATIONS

## EXCITER

Eccentric moment .....	200 in. lbs
Dynamic force .....	14 tons
Frequency, max .....	2200 vpm
Amplitude .....	.625 inches
Pile clamp force .....	25 tons
Rated max. line pull .....	12 tons
Hose bundle length .....	100 foot
Suspended weight* .....	1300 lbs
Height* .....	36 inches
Width* .....	36 inches
Throat width* .....	6 inches

## POWER PACK

Engine .....	John Deere
Rated H.P. ....	25 hp
Hydraulic flow .....	16 gpm
Hydraulic drive pressure .....	2500 psi
Hydraulic clamp pressure* .....	2500 psi
Hydraulic oil capacity .....	40 gal
Fuel Capacity .....	40 gal
30' Air remote control .....	Optional
Enclosure .....	Optional
Soundproofing .....	Optional
Weight* .....	2500 lbs
Length* .....	96 inches
Width* .....	42 inches
Height* .....	67 inches

\*Variable for different types of piling and clamps

## GEOQUIP POWER SYSTEMS/HPSI

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# HPSI MODEL 80E VIBRATORY HAMMER



## EXCITER

- Low profile
- Recessed motors
- Durable, rugged design
- Easy component access
- Excavator mounting bracket
- Quiet running gearbox

## ACCESSORIES

- Timber pile clamp
- Caisson beam/clamps
- 90 degree turn plate
- Crane lifting bail

## POWER PACK

- John Deere 4045 Tier 4 Final -140 HP
- Skid mounted w/ engine enclosure
- Local manual controls
- Integrated fuel tank
- Drainable bottom drip pan
- Variable displacement pressure compensated pump
- Optional radio remote controls



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# HPSI MODEL 80E SPECIFICATIONS

## EXCITER

Eccentric moment .....	800 in. lbs
Dynamic force.....	52 tons
Frequency, maintained .....	2,200 vpm
Amplitude .....	75 inches
Pile clamp force .....	50 tons
Rated max. line pull .....	12 tons
Hose bundle length (optional).....	100 foot
Suspended weight* .....	5,500 lbs
Height* .....	67.5 inches
Width* .....	60 inches
Throat width* .....	7 inches

\*indicates nominal value and may vary with optional attachments

## POWER PACK

Engine .....	John Deere 4045 T4F
Rated H.P. ....	140 h.p.
Hydraulic flow .....	40 gpm
Hydraulic drive pressure .....	5,000 psi
Hydraulic clamp pressure .....	2,500 psi
Hydraulic oil capacity.....	140 gal
Fuel Capacity.....	60 gal
Local remote control.....	Standard
Engine Enclosure .....	Standard
Soundproofing.....	Optional
Weight* .....	6,000 lbs
Length* .....	126 inches
Width* .....	48 inches
Height* .....	78 inches

\*indicates nominal value and may vary with optional attachments



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# HPSI MODEL 100 VIBRATORY HAMMER



## EXCITER

- Low profile
- Recessed motors
- Durable, rugged design
- Easy component access
- Excavator mounting bracket
- Quiet running gearbox

## ACCESSORIES

- Timber pile clamp
- Caisson beam/clamps
- 90 degree turn plate
- Crane lifting bail

## POWER PACK

- John Deere 4045 Tier 4 Final -140 HP
- Skid mounted w/ engine enclosure
- Local manual controls
- Integrated fuel tank
- Drainable bottom drip pan
- Variable displacement pressure compensated pump
- Optional radio remote controls



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# HPSI MODEL 100 SPECIFICATIONS

## EXCITER

Eccentric moment .....	1000 in. lbs
Dynamic force.....	36 tons
Frequency, max .....	1,600 vpm
Amplitude .....	1.00 inches
Pile clamp force .....	50 tons
Rated max. line pull .....	25 tons
Hose bundle length (optional).....	100 foot
Suspended weight* .....	4,625 lbs
Height*.....	64 inches
Width* .....	60 inches
Throat width* .....	12 inches

\*indicates nominal value and may vary with optional attachments

## POWER PACK

Engine .....	John Deere 4045 T4F
Rated H.P. ....	140 h.p.
Hydraulic flow .....	40 gpm
Hydraulic drive pressure .....	5,000 psi
Hydraulic clamp pressure .....	2,500 psi
Hydraulic oil capacity.....	140 gal
Fuel Capacity.....	60 gal
Local remote control.....	Standard
Engine Enclosure .....	Standard
Soundproofing.....	Optional
Weight* .....	6,000 lbs
Length* .....	126 inches
Width* .....	48 inches
Height*.....	78 inches

\*indicates nominal value and may vary with optional attachments



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# HPSI MODEL 150L VIBRATORY HAMMER



## EXCITER

- Low profile
- Recessed motors
- Protected hoses
- Easy component access
- Shackle connection
- Quiet running gearbox

## ACCESSORIES

- Timber pile clamps
- Pipe clamps
- Caisson clamps
- Turning plates
- Lead adapters
- Low headroom adapters

## POWER PACK

- Caterpillar C7.1 T4F - 275 HP
- Open loop hydraulic system
- Totally enclosed power unit
- 30' air remote controls
- Drainable bottom drip pan
- Optional radio remote controls
- Optional Drill supply circuit



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# HPSI MODEL 150L SPECIFICATIONS

## EXCITER

Eccentric moment .....	1500 in. lbs
Dynamic force.....	55 tons
Frequency, maintained .....	1600 vpm
Amplitude .....	1.0 inches
Pile clamp force .....	50 tons
Rated max. line pull .....	30 tons
Hose bundle length .....	100 foot
Suspended weight* .....	5800 lbs
Height* .....	63 inches
Width* .....	83 inches
Throat width* .....	14 inches

\*indicates nominal value and may vary with optional attachments

## POWER PACK

Engine .....	Caterpillar C7.1 T4F
Rated H.P. ....	275 h.p.
Hydraulic flow .....	120 gpm
Hydraulic drive pressure .....	2500 psi
Hydraulic clamp pressure .....	2500 psi
Hydraulic oil capacity .....	120 gal
Fuel Capacity .....	85 gal
30' Air remote control .....	Standard
Enclosure .....	Standard
Soundproofing .....	Optional
Weight* .....	9800 lbs
Length* .....	144 inches
Width* .....	60 inches
Height* .....	97 inches

\*indicates nominal value and may vary with optional attachments



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# HPSI MODEL 150 VIBRATORY HAMMER

# HPSI MODEL 150 SPECIFICATIONS



## EXCITER

- Low profile
- Recessed motors
- Protected hoses
- Easy component access
- Shackle connection
- Quiet running gearbox

## ACCESSORIES

- Timber pile clamps
- Pipe clamps
- Caisson clamps
- Turning plates
- Lead adapters
- Low headroom adapters

## POWER PACK

- Caterpillar C7.1 T4F - 275 HP
- Open loop hydraulic system
- Totally enclosed power unit
- 30' air remote controls
- Drainable bottom drip pan
- Optional radio remote controls
- Optional Drill supply circuit



## EXCITER

Eccentric moment .....	1500 in. lbs
Dynamic force .....	.55 tons
Frequency, maintained .....	1600 vpm
Amplitude .....	0.875 inches
Pile clamp force .....	.50 tons
Rated max. line pull .....	.30 tons
Hose bundle length .....	100 foot
Suspended weight* .....	7500 lbs
Height* .....	78 inches
Width* .....	87 inches
Throat width* .....	14 inches

\*indicates nominal value and may vary with optional attachments

## POWER PACK

Engine .....	Caterpillar C7.1 T4F
Rated H.P. ....	275 h.p.
Hydraulic flow .....	120 gpm
Hydraulic drive pressure .....	2500 psi
Hydraulic clamp pressure .....	2500 psi
Hydraulic oil capacity .....	120 gal
Fuel Capacity .....	85 gal
30' Air remote control .....	Standard
Enclosure .....	Standard
Soundproofing .....	Optional
Weight* .....	9800 lbs
Length* .....	144 inches
Width* .....	60 inches
Height* .....	97 inches

\*indicates nominal value and may vary with optional attachments



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# HPSI MODEL 250 VIBRATORY HAMMER



## EXCITER

- Low profile
- Lightweight
- Protected hoses
- Easy component access
- Shackle connection
- Quiet running gearbox

## ACCESSORIES

- Timber pile clamps
- Caisson clamps
- Turning plates
- Lead adapters
- Low headroom adapters

## POWER PACK

- CAT C9.3B Tier 4 Final-415 HP
- Open loop hydraulic system
- Totally enclosed power unit
- 30' air remote controls
- Drainable bottom drip pan
- Optional remote controls
- Optional Drill circuit



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# HPSI MODEL 250 SPECIFICATIONS

## EXCITER

Eccentric moment.....	2,500 in. lbs.
Dynamic force .....	91 tons
Frequency, maintained. ....	1600 vpm
Amplitude.....	1.0 inches
Pile clamp force.....	200 tons
Rated max. line pull.....	45 tons
Hose bundle length .....	150 foot
Suspended weight* .....	8,600 lbs.
Height* .....	85 inches
Width* .....	95 inches
Throat width* .....	14 inches

\*indicates nominal value and may vary with optional attachments

## POWER PACK

Engine.....	Caterpillar C9.3B T4F
Rated HP. ....	415 h.p
Hydraulic flow .....	96 gpm
Hydraulic drive pressure .....	5000 psi
Hydraulic clamp pressure .....	5000 psi
Hydraulic oil capacity .....	200 gal.
Fuel Capacity .....	85 gal.
Remote control.....	30 foot
Enclosure.....	Standard
Soundproofing .....	Optional
Weight* .....	12,500 lbs.
Length* .....	144 inches
Width* .....	60 inches
Height* .....	97 inches

\*indicates nominal value and may vary with optional attachments



# HPSI MODEL 300 VIBRATORY HAMMER



## EXCITER

- Low profile
- Recessed motor
- Protected hoses
- Easy component access
- Shackle connection
- Quiet running gearbox

## ACCESSORIES

- Timber pile clamps
- Pipe clamps
- Caisson clamps
- Turning plates
- Lead adapters
- Low headroom adapters

## POWER PACK

- Cat C9.3B Tier 4 Final-415 HP
- Open loop hydraulic system
- Totally enclosed power unit
- 30' air remote controls
- Drainable bottom drip pan
- Optional remote controls
- Optional Drill supply circuit



# HPSI MODEL 300 SPECIFICATIONS

## EXCITER

Eccentric moment .....	3000 in. lbs
Dynamic force .....	110 tons
Frequency, max .....	1600 vpm
Amplitude .....	.875 inches
Pile clamp force .....	150 tons
Rated max. line pull .....	45 tons
Hose bundle length .....	150 foot
Suspended weight* .....	10750 lbs
Height* .....	.96 inches
Width* .....	.95 inches
Throat width .....	.14 inches

\*indicates nominal value and may vary with optional attachments

## POWER PACK

Engine .....	CAT C9.3B T4F
Rated H.P. ....	415 h.p.
Hydraulic flow .....	115 gpm
Hydraulic drive pressure .....	5000 psi
Hydraulic clamp pressure .....	5000 psi
Hydraulic oil capacity .....	200 gal
Fuel Capacity .....	85 gal
Air remote control .....	30 foot
Enclosure .....	Standard
Soundproofing .....	Optional
Weight* .....	12,500 lbs
Length* .....	144 inches
Width* .....	.60 inches
Height* .....	.97 inches

\*indicates nominal value and may vary with optional attachments



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# HPSI MODEL 380 VIBRATORY HAMMER



## EXCITER

- Low profile
- Recessed motor
- Protected hoses
- Easy component access
- Shackle connection
- Quiet running gearbox

## ACCESSORIES

- Timber pile clamps
- Pipe clamps
- Caisson clamps
- Turning plates
- Lead adapters
- Low headroom adapters

## POWER PACK

- CAT C13 Tier 4 Final-536 HP
- Open loop hydraulic system
- Totally enclosed power unit
- 30' air remote controls
- Drainable bottom drip pan
- Optional radio remote controls
- Optional Drill supply circuit



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# HPSI MODEL 380 SPECIFICATIONS

## EXCITER

Eccentric moment .....	3,800 in. lbs
Dynamic force .....	139 tons
Frequency, max .....	1600 vpm
Amplitude .....	1.10 inches
Pile clamp force .....	200 tons
Rated max. line pull .....	45 tons
Hose bundle length .....	160 foot
Suspended weight* .....	12,750 lbs
Height* .....	96 inches
Width* .....	95 inches
Throat width* .....	14 inches

\*indicates nominal value and may vary with optional attachments

## POWER PACK

Engine .....	CAT C13 T4F
Rated H.P. ....	536 h.p.
Hydraulic flow .....	115 gpm
Hydraulic drive pressure .....	5000 psi
Hydraulic clamp pressure .....	5000 psi
Hydraulic oil capacity .....	200 gal
Fuel Capacity .....	85 gal
Air remote control .....	30 foot
Enclosure .....	Standard
Soundproofing .....	Optional
Weight* .....	12,500 lbs
Length* .....	144 inches
Width* .....	60 inches
Height* .....	97 inches

\*indicates nominal value and may vary with optional attachments



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# HPSI MODEL 500 VIBRATORY HAMMER



## EXCITER

- Low profile
- Recessed motor
- Protected hoses
- Easy component access
- Shackle connection
- Quiet running gearbox

## ACCESSORIES

- Concrete clamp
- Caisson clamps
- Clamp extensions
- Turning plates
- Lead adapters
- Low headroom adapters

## POWER PACK

- CATC18 Tier 4 Final-755 HP
- Open loop hydraulic system
- Totally enclosed power unit
- 30' air remote controls
- Drainable bottom drip pan
- Optional wireless remote controls
- Optional drill supply circuit



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# HPSI MODEL 500 SPECIFICATIONS

## EXCITER

Eccentric moment .....	5,000 in. lbs
Dynamic force .....	182 tons
Frequency, maintained .....	1600 vpm
Amplitude .....	1.125 inches
Pile clamp force .....	200 tons
Rated max. line pull .....	75 tons
Hose bundle length .....	160 foot
Suspended weight* .....	18,000 lbs
Height* .....	107 inches
Width* .....	102 inches
Throat width* .....	14 inches

\*Indicates nominal value and may vary with optional attachments

## POWER PACK

Engine .....	CAT C18 T4F
Rated H.P. ....	755 h.p.
Hydraulic flow .....	202 gpm
Hydraulic drive pressure .....	5000 psi
Hydraulic clamp pressure .....	5000 psi
Hydraulic oil capacity .....	400 gal
Fuel Capacity .....	150 gal
Air remote control .....	30 foot
Enclosure .....	Standard
Soundproofing .....	Optional
Weight* .....	23,500 lbs
Length* .....	174 inches
Width* .....	96 inches
Height* .....	104 inches

\*Indicates nominal value and may vary with optional attachments



**GEOQUIP POWER SYSTEMS/HPSI**

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# HPSI MODEL 800 VIBRATORY HAMMER

# HPSI MODEL 800 SPECIFICATIONS



## EXCITER

- Low profile
- Recessed motors
- Protected hoses
- Easy component access
- Shackle connection
- Quiet running gearbox

## ACCESSORIES

- Quad caisson clamps
- T-Beams
- Lead adapters
- Low headroom adapters

## POWER PACK

- CATC27 950 HP
- Open loop hydraulic system
- Totally enclosed power unit
- 30' remote controls
- Drainable bottom drip pan
- Optional wireless remote controls
- Optional Drill supply circuit



## EXCITER

Eccentric moment .....	8,000 in. lbs
Dynamic force .....	222 tons
Frequency, maintained .....	1400 vpm
Amplitude .....	.65 inches
Pile clamp force .....	500 tons
Rated max. line pull .....	125 tons
Hose bundle length .....	160 foot
Suspended weight* .....	43,000 lbs
Height* .....	141 inches
Width* .....	72 inches
Length* .....	151 inches

\*indicates nominal value and may vary with optional attachments

## POWER PACK

Engine .....	CAT C27
Rated H.P. ....	950 h.p.
Hydraulic flow .....	278 gpm
Hydraulic drive pressure .....	5000 psi
Hydraulic clamp pressure .....	5000 psi
Hydraulic oil .....	Chevron Clarity
Fuel Capacity .....	150 gal
Remote control .....	30 foot
Enclosure .....	Standard
Soundproofing .....	Optional
Weight* .....	28,500 lbs
Length* .....	220 inches
Width* .....	84 inches
Height* .....	96 inches

\*indicates nominal value and may vary with optional attachments



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# VIBRATORY HAMMER ATTACHMENTS



**Standard Clamp**  
Sheet Pile, H-Pile, King Pile



**Caisson Beam/Clamps**  
Pile Pile 14"-120" OD



**Concrete/Timber Clamp**  
12"-20" Timber Pile/Square Concrete Pile



**Double Sheet Pile Clamp**



**HD Concrete Clamp**  
12"-24" Square Concrete/  
Concrete Sheet Pile



**Quad Caisson Clamps**



**90 Degree Turn Plate**



**8'-10' Clamp Extension**



**U-Style Lead Adaptors**

# HPSI HYDRAULIC AUGERS



## HPSI MODEL H35/50VT VARI-TORQUE HYDRAULIC AUGER SYSTEM



### AUGER DRIVE

- Speed and Torque are infinitely variable
- Rexroth Motors
- Easy component access
- Can be adapted to run in U-Style leads/sled in front of leads
- Hollow through-shaft for pumping water or grout
- Kevlar-sleeved hose bundle

SPECIFICATIONS	H35/50VT
Torque (ft. lbs.)	15,000-43,000
Rotation Speed (rpm)	30-115
Operating Pressure (psi)	5,000
Hose Bundle (ft)	160
Crowd Force (lbs)	75,000
Suspended Weight (lbs)	5,300
Width (inches)	26
Height (inches)	76

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## HPSI MODEL H50/75VT VARI-TORQUE HYDRAULIC AUGER SYSTEM



### AUGER DRIVE

- Speed and Torque are infinitely variable
- Rexroth Motors
- Easy component access
- Can be adapted to run in U-Style leads/sled in front of leads
- Hollow through-shaft for pumping water or grout
- Kevlar-sleeved hose bundle

SPECIFICATIONS	H50/75VT
Torque (ft. lbs.)	15,000-50,000
Rotation Speed (rpm)	30-115
Operating Pressure (psi)	5,000
Hose Bundle (ft)	160
Crowd Force (lbs)	75,000
Suspended Weight (lbs)	5,300
Width (inches)	32
Height (inches)	76

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## HPSI MODEL H100-VT VARI-TORQUE HYDRAULIC AUGER SYSTEM



### AUGER DRIVE

- Speed and Torque variable via Automatic Shifting
- Easy Component Access
- Adaptable to U-Style Leads/Sled in Front of Leads
- Heavy Duty 5.25" Square Output Shaft
- Optional Side-Inlet Swivel for Pumping Grout/Water
- 160' Kevlar-sleeved Hose Bundle
- Power Unit: 415HP HPSI Model 300 with Drill Circuit

SPECIFICATIONS	H100-VT
Rated Torque (ft. lbs.)	0-100,000
Rotation Speed (rpm)	34-62
Operating Pressure (psi)	5,000
Operating Flow (gpm)	110
Crowd Force (lbs)	95,000
Pull Out Force (lbs.)	57,000
Hose Bundle (ft)	160
Suspended Weight (lbs)	4,000

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## SPECIAL APPLICATIONS & CUSTOM HYDRAULIC DESIGN



### Custom-Designed Hydraulic Power Units For Applications Including

- Dredge Pumps
- Lead Systems
- Winch Systems
- Barge/Platform Moving Systems
- Hydraulic Grapples
- Jet Pumps
- Diesel Hammer Hydraulic Trips/Hydraulic Spotters
- Pile Breakers

