

Equipment Needs for Road Bridge

1. Large smooth drum vibratory with pad shell and grid shell.	\$ 143,000.00
2. Etnyre Maintenance Distributor Trailer	\$ 70,000.00
3. 3" Water pump.	\$ 700.00
4. 46' Haul Trailer.	\$ 30,000.00
5. Truck for Haul Trailer.	\$ 40,000.00
6. Water truck with spray system	\$ 26,500.00
	<u>\$ 310,200.00</u>



Cat[®] CS54B

SMOOTH DRUM
VIBRATORY SOIL COMPACTOR

FEATURES:

The Cat[®] CS54B features a smooth drum and is ideally suited for granular soil applications:

- **Comfortable and ergonomic operator station** features pivoting seat with integrated multifunction LCD display and control console, outstanding visibility to the front and rear of machine, low sound levels and vibration for greater operator comfort and productivity.
- **World-class propel system** built around the exclusive Cat dual pump propel system, two pumps provide separate dedicated flow to drum drive motor and rear axle motor for exceptional gradeability and traction in forward and reverse. New electronic propel control enables more precise machine control.

- **Virtually maintenance free** due to maintenance-free hitch bearings and extended maintenance intervals for vibratory system and hydraulic system, providing more uptime and lower maintenance costs.
- **Enhanced compaction performance** due to more weight at the drum and greater amplitude. Automated propel and vibratory system functions make it easy to ensure consistent, high quality.
- **Optional Cat[®] Compaction Control** helps the operator determine when compaction has been completed to specification for greater productivity and uniform compaction quality.

Specifications

Engine - Power Train

Engine Model	Cat [®] C4.4 ACERT™	
Emission Standards	US EPA Tier 4 Final EU Stage IV	
Gross Power ISO 14396	98 kW	131 hp
Displacement	4.4 L	268.5 in ³
Stroke	127 mm	5 in
Bore	105 mm	4.1 in
Max. Travel Speed (Forward or Reverse)	11 km/h	6.8 mph

Weights

Operating Weight w/ ROPS/FOPS canopy	10 355 kg	22,822 lb
w/ padfoot shell kit	11 765 kg	25,927 lb
Operating Weight w/ ROPS/FOPS cab	10 555 kg	23,265 lb
w/ padfoot shell kit	11 965 kg	26,370 lb
Weight at Drum w/ ROPS/FOPS canopy	5785 kg	12,754 lb
w/ padfoot shell kit	7195 kg	15,855 lb
Weight at Drum w/ ROPS/FOPS cab	5880 kg	12,959 lb
w/ padfoot shell kit	7285 kg	16,058 lb

Vibratory System Specifications

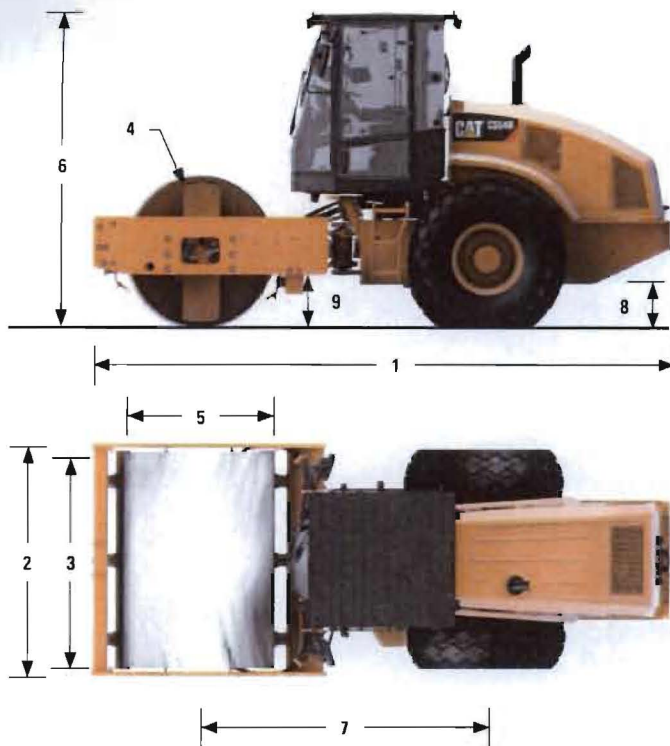
Frequency		
Standard	30.5 Hz	1830 vpm
During Eco-mode Operation	27.7 Hz	1664 vpm
Optional Variable Frequency	23.3-30.5 Hz	1400-1830 vpm
Nominal Amplitude @30.5 Hz (1830 vpm)		
High	1.9 mm	0.075 in
Low	0.95 mm	0.037 in
Centrifugal Force @ 30.5 Hz (1830 vpm)		
Maximum	234 kN	52,600 lb
Minimum	133 kN	29,900 lb
Static Linear Load		
w/ ROPS/FOPS	27.1 kg/cm	151.8 lbs/in
w/ ROPS/FOPS Cab	27.6 kg/cm	154.3 lbs/in

Service Refill Capacities

Fuel Tank, total capacity	242 L	64 gal
Diesel Exhaust Fluid refill capacity	19 L	5 gal
Cooling System	27.4 L	7.2 gal
Engine Oil w/ Filter	8.8 L	2.3 gal
Eccentric Weight Housings	26 L	6.9 gal
Axle and Final Drives	18 L	4.8 gal
Hydraulic Tank (service refill)	50 L	13.2 gal



CS54B Vibratory Soil Compactor



Dimensions

1 Overall Length	5.85 m	19.21 ft
2 Overall Width	2.30 m	7.53 ft
3 Drum Width	2134 mm	84 in
4 Drum Shell Thickness	25 mm	1 in
5 Drum Diameter	1534 mm	60.4 in
6 Overall Height		
-Cab	3.11 m	10.2 ft
-ROPS/FOPS	3.08 m	10.1 ft
7 Wheelbase	2.9 m	9.5 ft
8 Ground Clearance	442 mm	17.4 in
9 Curb Clearance	543 mm	21.4 in
Inside Turning Radius	3.68 m	12.07 ft
Hitch Articulation Angle	34°	
Hitch Oscillation Angle	15°	

STANDARD EQUIPMENT Varies by market- contact your Dealer for specifics.

ELECTRICAL

- 24 volt Electrical System
- 100 ampere Alternator
- 750 Cold-cranking Amps Battery Capacity

OPERATOR ENVIRONMENT

- ROPS/FOPS with Platform Handrails/Guardrails
- Vinyl Adjustable Pivoting Seat with Integrated Console and LCD Display
- Multifunction LCD Display with gauges and/or audible warning alarm for: *Hydraulic oil temperature, Engine oil pressure, Engine coolant temperature, Alternator charge, Fuel level, Service hour meter, Engine RPM, Ground speed, Vibe frequency, Fuel rate, Air filter constriction, Engine load and Optional Cat Compaction Control*
- Adjustable Tilting Steering Column with Integrated Cup Holders
- Seat Belt
- Lockable Vandalism Guard for LCD Display
- 12-volt Power Outlet
- Floor Mat
- Interior Rear View Mirror
- Horn, Backup Alarm

POWER TRAIN

- Cat® C4.4 Diesel Engine
- Three-speed Throttle Switch w/ Eco-mode, Automatic Speed Control
- Dual Propel Pumps; One for Drum Drive, One for Rear Axle
- Fuel Filter, Water Separator, Electronic Priming Pump, Water Indicator
- Tilting Radiator/Hydraulic Oil Cooler
- Dual Braking System
- Two-speed Hydrostatic Transmission

VIBRATORY SYSTEM

- Smooth Drum, Front Adjustable Steel Scraper
- Dual Amplitude, Single Frequency
- Dual Pod-Style Eccentric Weight Housings
- Auto-vibe Function

OTHER

- Hydraulic Oil Level Sight Gauge
- Radiator Coolant Level Sight Gauge
- Cat® ToughGuard™ Hose
- S-O-SSM Sampling Valves, Engine Oil and Hydraulic Oil

OPTIONAL EQUIPMENT

- ROPS/FOPS Cab with Climate Control
- Padfoot Shell Kit
- Variable Vibration Frequency
- Beacon, Rotating
- Polyurethane Drum Scrapers
- Steel Rear-side Drum Scraper
- Bio-oil Factory Fill
- Sun Visor
- Deluxe High-back Air-ride Pivoting Seat (with Cab only)
- Cat Compaction Control, Machine Drive Power or CMV or Both
- SBAS GNSS Mapping for Cat Compaction Control (RTK available)
- Upgraded Halogen Light Package
- Cab Internal Rear View Mirrors, Roll-down Sun Screen
- Product Link™

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.8 kg of refrigerant which has a CO₂ equivalent 1.144 metric tonne.

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.cat.com

QEHQ1556-02 (03-17)

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Weights and dimensions listed are approximate. Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

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POWERTRAIN

CAT C4.4 four cylinder, turbo-charged diesel engine with glow-plug heater	Dual propel pumps - 1 for drum and 1 for tires
Dual element air cleaner	Dual braking systems (service & parking, drum only)
Fuel filter/water separator/electronic priming pump and water indicator	Two-speed hydrostatic transmission
Three-speed throttle switch including ECOMODE	Limited slip differential

ELECTRICAL

24-volt starting and charging system alternator	(2 front-facing and 2 rear-facing)
(2) Maintenance free batteries - 750 CCA	Backup alarm and forward warning horn
Halogen working lights - canopy mounted	Product Link Ready
	Beacon Ready

OPERATOR ENVIRONMENT

ROPS/FOPS platform	-engine coolant temperature gauge
Four heavy-duty isolation mounts	-alternator charge,
Platform handrails/guardrails	-fuel level gauge,
Power steering	-service hour meter,
Adjustable tilt-steering column	-engine RPM
Adjustable, rotating suspension seat	-ground speed, vibrate speed
Retractable seat belt	-fuel rate gauge
Adjustable, padded arm rest for propel lever operation	-engine load gauge
On-board display with audible warning alarm and interface for: -hydraulic oil temperature gauge, -engine oil pressure gauge,	-basic compaction measurement
	Lockable, vandalism guard for on-board display
	12-volt power point

COOLING

Premixed 50% concentration of Extended Life Coolant with freeze protection	to -37C (-35F)
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DRUMS

Smooth drum 84" (2134 mm) wide x 60.4" (1534 mm) diameter Dual amplitude with single frequency	Dual, pod-style eccentric weight housings Front adjustable steel scraper
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OTHER STANDARD EQUIPMENT

Locking composite engine enclosure	Fuel tank with lockable cap
Sealed-for-life hitch bearings	Quick connect hydraulic pressure test ports
Sight gauges: -coolant level -hydraulic oil level	SOS ports: -engine -hydraulic -coolant
Hydraulic tank locking cap	Universal bumper
Articulated frame with safety lock	
Transport tie-down and lift points	

Roger Ledbetter
 100 W 1ST ST STE 202
 MOUNT PLEASANT, TEXAS 75455-4443

One (1) Used Caterpillar Inc Model: CS54B Packer with all standard equipment in addition to the additional specifications listed below

MACHINE SPECIFICATIONS

STOCK NUMBER: HLK024514

SERIAL NUMBER: 0L4H00525

YEAR: 2015

HOURS: 388

DESCRIPTION	REF.#
CS54B VIBRATORY COMPACTOR	347-9531
LANE 3 ORDER	0P-9003
ENGINE, TIER 4 CERTIFIED	347-9582
OIL, HYDR, FACTORY FILLED	362-4940
PLATFORM, ROPS/FOPS	356-2162
SEAT, VINYL	356-1226
SEAT BELT, 2"	382-9003
PRODUCT LINK, SATELLITE PL321	355-3038
SENSOR, DRIVE POWER	364-8295
TIRES, FLOTATION, 8PR	203-4717
FREQUENCY, FIXED	355-3542
SCRAPER, STEEL, FRONT & REAR	360-0494
INSTRUCTIONS, N AMER, PLATFORM	355-2671
LIGHTS, UPGRADED	355-3056
MIRRORS, REARVIEW, EXTERNAL	354-5413
GUARD, TRANSMISSION	355-2660
CERTIFICATE OF ORIGIN	0P-1870
AXLE, WITHOUT BRAKES	382-8081
SCREEN, STANDARD	355-2658
SHELL KIT, SQR, PADFOOT, FLD	416-1351
ELLOIT GRID ROLLER SHELL KIT	

SELL PRICE	\$143,000.
EXT WARRANTY	Included
TOTAL PRICE	\$143,000.00
SUB TOTAL	\$143,000.00

TOTAL QUOTED PRICE	\$143,000.00
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WARRANTY**Extended
Warranty:****48MONTH/2000HOURS -POWERTRAIN & HYDRAULIC
WARRANTY****STANDARD EQUIPMENT****POWERTRAIN**

CAT C4.4 four cylinder, turbo-charged diesel engine with glow-plug heater	Dual propel pumps - 1 for drum and 1 for tires
Dual element air cleaner	Dual braking systems (service & parking, drum only)
Fuel filter/water separator/electronic priming pump and water indicator	Two-speed hydrostatic transmission
Three-speed throttle switch including ECOMODE	Limited slip differential

ELECTRICAL

24-volt starting and charging system alternator	(2 front-facing and 2 rear-facing) Backup alarm and forward warning horn
(2) Maintenance free batteries - 750 CCA	Product Link Ready Beacon Ready
Halogen working lights - canopy mounted	

OPERATOR ENVIRONMENT

ROPS/FOPS platform	-engine coolant temperature gauge
Four heavy-duty isolation mounts	-alternator charge,
Platform handrails/guardrails	-fuel level gauge,
Power steering	-service hour meter,
Adjustable tilt-steering column	-engine RPM
Adjustable, rotating suspension seat	-ground speed, vibe speed
Retractable seat belt	-fuel rate gauge
Adjustable, padded arm rest for propel lever operation	-engine load gauge
On-board display with audible warning alarm and interface for:	-basic compaction measurement
-hydraulic oil temperature gauge,	Lockable, vandalism guard for on-board display
-engine oil pressure gauge,	12-volt power point

COOLING

Premixed 50% concentration of Extended Life Coolant with freeze protection	to -37C (-35F)
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DRUMS

Smooth drum	Dual, pod-style eccentric weight housings
84" (2134 mm) wide x 60.4" (1534 mm) diameter	Front adjustable steel scraper
Dual amplitude with single frequency	

OTHER STANDARD EQUIPMENT

Locking composite engine enclosure	Fuel tank with lockable cap
Sealed-for-life hitch bearings	Quick connect hydraulic pressure test ports
Sight gauges:	SOS ports:
-coolant level	-engine
-hydraulic oil level	-hydraulic
Hydraulic tank locking cap	-coolant
Articulated frame with safety lock	Universal bumper
Transport tie-down and lift points	



From: **Derek Cooper** Derek.Cooper@holtcat.com 
Subject: Grid Shell Kit Price
Date: May 16, 2017 at 2:34 PM
To: mptaso@hughes.net



ELLOIT GRID ROLLER SHELL KIT

\$26,500.00

***My goal is to provide legendary customer service.
Did I earn a 10 today? Please share your [feedback](#).***

Derek Cooper
Sales and Rental Representative
1109 Industrial Drive West
Sulphur Springs, TX 75482
Office:903-885-0626
Cell:903-316-7775
Derek.Cooper@holtcat.com



\$70,000

L-401-03



Maintenance Distributor



maximum efficiency year after year

Etnyre Maintenance Distributors

Trailer, Truck and
Skid Mounted



Photos may contain
optional equipment



600, 800, 1000
Gallon capacities

Designed for dependable and safe operation.



Mounted on a tandem axle, 6" channel frame with electric brakes and safety breakaway, an adjustable pintle eye and crank type jacks front and rear. Two 6000# axles with four LT235/85 R16 (E) tires on disk wheels and flanged steel fenders insure safe, efficient travel. FMVSS-108 lights and wiring and electrical connection for towing vehicle are also provided.



Tank constructed of a 12 gauge steel shell and full section surge plates. Spill collar with 20" manhole with strainers and rollover protection meet HM-198A/HM 183 DOT hot asphalt requirements. Fiberglass 2" insulation covered with aluminum jacketing.



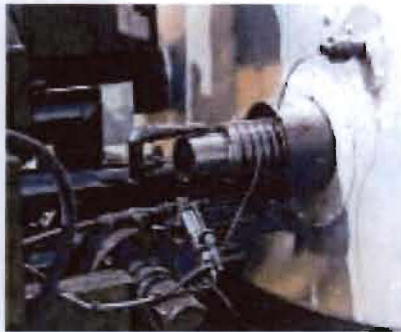
The hydraulic system is powered by an 18 H.P. gasoline engine with electric starter, alternator, battery and 6 gallon fuel tank. The system develops 2500 P.S.I.

A 30 H.P. gas and a 23 H.P. diesel engine are available.

The Etnyre Maintenance Distributor's features promise reliability and ease of operation.



Patented automatic suckback system and coaxial bar feed lines provide complete suckback of the circulating system. Includes all manual valves for loading, circulating in the tank, handspraying and unloading. Pump, valves, and circulating system are manufactured by Etnyre to minimize exposed lines, heat loss and sumps.



Heating system options provide a choice of either one or two flues and LPG, Fuel Oil or Kerosene Generating burners. Portable burners and outfire protection for LPG burners are also available.



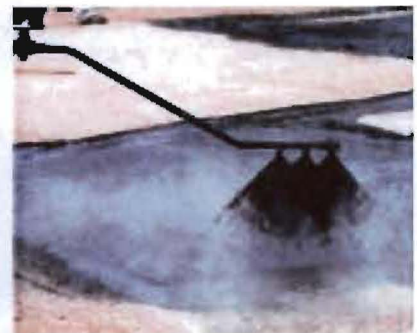
Maintenance distributors offer either an 8' or 10' full circulating spray bar. All bars feature electric-hydraulic gang on/off controls and manual flip valve nozzle control every 4". 10' bars offer 2' folding wings on each side with 1' on each side removable and manual lift and wing fold. Additional 1' add-on sections are also available for either spray bar.



Electric-hydraulic cab control for spray bar gang on-off from the cab is standard equipment with either bar. Spray bar on/off switch is provided in a control panel operated from the towing vehicle cab. The panel is provided with a 20' electrical cord to reach the towing vehicle cab.



Hydraulic pump and high torque motor drive the Etnyre 200 GPM asphalt pump. The circulating system includes a manual suction valve, removable strainer and a 20 gallon flushing tank with line to asphalt pump. Built-in relief valve in system.



Versatile handspray attachment is standard equipment, allows greater efficiency on all maintenance jobs. For finishing intersections, patching, and surfacing in limited areas. Includes hand spray gun with triple lap 3 nozzle spray and 25' of asphalt grade hose.

**Ease of operation
assures maximum
efficiency and
greater profitability
year after year.**



Request the following items for more information about the Etnyre Maintenance Distributor:

- A-401- ** Maintenance Distributors Features
- SMU-401- ** Specifications for Maintenance Distributors
- V-401- ** Etnyre Maintenance Distributors Video



E. D. Etnyre & Co., whose policy is one of continuous improvement, reserves the right to change specifications without notice. Some items shown in photos and illustrations may be optional equipment.

Distributed By:




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Web Site: www.etnyre.com • E Mail: sales@etnyre.com

L-401-03 supersedes L-401-99

Honda Self-Priming Water Pump — 16,500 GPH, 3in. Ports, 160cc Honda GX160 Engine, Model# WB30XK2

 Item# 109419  New — [Write a Review](#) [1 Answered Question](#)


Only \$549⁰⁰

- Durable 160cc Honda GX160 commercial-grade engine is easy to start and provides ample power for the toughest conditions
- Abrasion-resistant silicone-carbide seals for extended wear
- Rigid-mount cast iron volute reduces case wear, increasing the life of the pump
- Heavy-duty full-frame protection protects the pump and offers a convenient tie down location for transport
- Isolation-mounted engine and pump minimize vibration to keep the pump from "walking" away or "burying" itself in soft soil conditions while reducing wear on components to increase the pump's durability

[View Shipping + Delivery Estimates](#) [Check Store Availability](#)

Product Summary

This Honda Water Pump is powered by a dependable Honda GX series commercial-grade engine that is easy to start and provides ample power for the toughest conditions. Built to last with an abrasion-resistant silicon carbide mechanical seal, cast iron volute and impeller and heavy-duty full-frame protection.

What's Included

(1) Water pump



Features + Benefits

- Durable 160cc Honda GX160 commercial-grade engine is easy to start and provides ample power for the toughest conditions
- Abrasion-resistant silicone-carbide seals for extended wear
- Rigid-mount cast iron volute reduces case wear, increasing the life of the pump
- Heavy-duty full-frame protection protects the pump and offers a convenient tie down location for transport
- Isolation-mounted engine and pump minimize vibration to keep the pump from "walking" away or "burying" itself in soft soil conditions while reducing wear on components to increase the pump's durability
- Honda Oil Alert[®] protects the pump by shutting the engine off when low oil is detected
- Strainer allows up to 8 mm (5/16in.) solids to pass through, helping to prevent clogging

Key Specs

Item#	109419	Discharge Port (in.)	3
Manufacturer's Warranty	3 year limited warranty	Max. Suction Lift (ft.)	26
Ship Weight	60.0 lbs	Max. Total Head (ft.)	85
Port Size (in.)	3	Self-Priming	Yes
Flow (GPH)	16,500	Seals	Silicon carbide mechanical
Max. PSI	37	Impellers	Cast iron
Engine	Honda GX160	Volute	Cast iron

Engine Type	OHV	Low Oil Shutdown	Yes
Engine Displacement (cc)	160	Dimensions L x W x H (in.)	20 1/8 x 15 1/4 x 18
Suction Port (in.)	3		

Replacement Parts

Call To Order: 1-800-657-0516

Mon - Fri 7:00 AM - 6:00 PM (Central)

Sat 7:00 AM - 3:00 PM (Central)

Parts + Service Available at Stores

Look for stores that have this icon:

 Parts + Service

Compare with Most Popular Engine Driven Clear Water Pumps

Currently Viewing



[Honda Self-Priming Water Pump — 2220 GPH, 1in. Ports, 25cc Honda GX25 4-Stroke Engine, Model#](#)

★★★★★ (13)
Item# 109424

In Stock Online

Only \$399.00

[Honda Self-Priming Water Pump — 9120 GPH, 2in. Ports, 120cc Honda GX120 Engine, Model#](#)

★★★★★ (6)
Item# 109418

In Stock Online

Only \$429.00

[Honda Self-Priming Water Pump — 4320 GPH, 1 1/2in. Ports, 49cc Honda GXH50 4-Stroke Engine, Model#](#)

★★★★★ (3)
Item# 109417

In Stock Online

Only \$499.00

[Pacer Self-Priming Centrifugal Water Pump — 14,400 GPH, 5 HP, 2in., Model# SE2JL HYC](#)

★★★★★ (1)
Item# 109903

In Stock Online

Only \$499.99

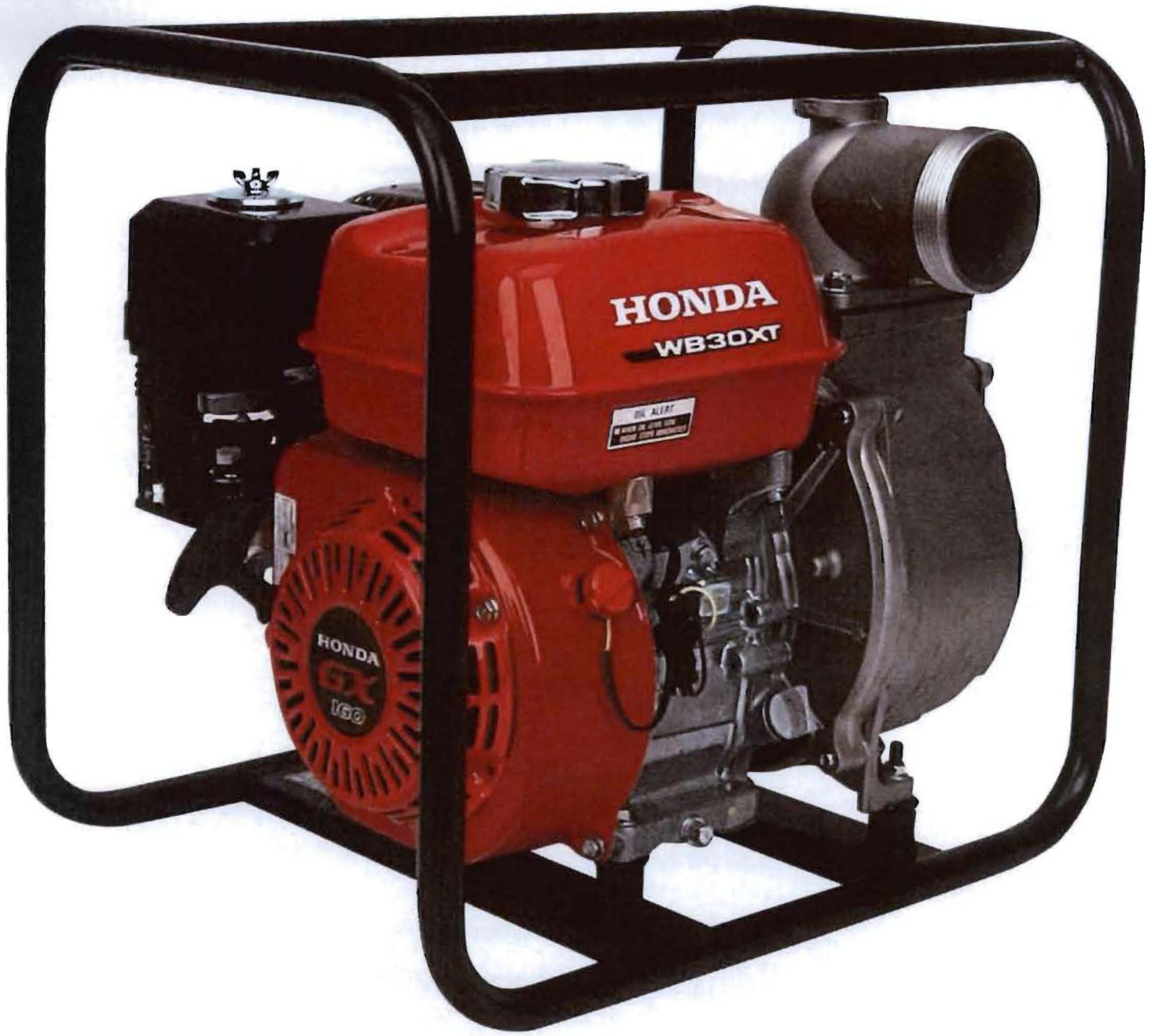
[Honda Self-Priming Water Pump — 16,500 GPH, 3in. Ports, 160cc Honda GX160 Engine, Model#](#)

(Not Yet Rated - New)
Item# 109419

In Stock Online

Only \$549.00

	Honda Self-Priming Water Pump — 2220 GPH, 1in. Ports, 25cc Honda GX25 4-Stroke Engine, Model#	Honda Self-Priming Water Pump — 9120 GPH, 2in. Ports, 120cc Honda GX120 Engine, Model#	Honda Self-Priming Water Pump — 4320 GPH, 1 1/2in. Ports, 49cc Honda GXH50 4-Stroke Engine, Model#	Pacer Self-Priming Centrifugal Water Pump — 14,400 GPH, 5 HP, 2in., Model# SE2JL HYC	Honda Self-Priming Water Pump — 16,500 GPH, 3in. Ports, 160cc Honda GX160 Engine, Model#
Port Size (in.)	1	2	1 1/2	2	3
Flow (GPH)	2,220	9,120	4,320	14,400	16,500
Max. PSI	52	40	54	-	37
Engine	Honda GX25	Honda GX120	Honda GXH50	-	Honda GX160
Engine Type	4-Stroke	OHV	4-stroke	Hydraulic motor	OHV
HP	-	-	-	5	-
Engine Displacement (cc)	25	118	49	Requires hydraulic pump	160
Suction Port (in.)	1	2	1 1/2	2	3
Discharge Port (in.)	1	2	1 1/2	2	3
Max. Suction Lift (ft.)	26	26	26	25	26
Max. Total Head (ft.)	121	92	125	75	85
Self-Priming	Yes	Yes	Yes	Yes	Yes
Pump Housing	-	-	Aluminum	Thermo plastic glass reinforced polyester	-
Check Valve	-	-	-	EPDM	-
Seals	Carbon ceramic mechanical	Silicon carbide mechanical	Carbon/ceramic mechanical	-	Silicon carbide mechanical
Impellers	Aluminum	Cast iron	Aluminum	Glass reinforced polyester	Cast iron
Volute	Aluminum	Cast iron	Aluminum	Glass reinforced polyester	Cast iron
Low Oil Shutdown	Yes	Yes	Yes	-	Yes
Dimensions L x W x H (in.)	12 7/8 x 8 7/8 x 11 7/8	18 x 14 13/32 x 16 1/2	12 7/8 x 10 7/8 x 14 7/8	13 3/4 x 11 x 12	20 1/8 x 15 1/4 x 18



HONDA
WB30XT

OIL ALERT
IF POWER IS LOST STOP
ENGINE FROM OPERATING

HONDA
GX
160









Material Cost

Seal Coat	CRS-2P	\$2.20 /GAL	
	TYB GR4	\$45.00 /Ton	1.1 Ton/CY

\$14,000.00 / Mile -16 FT. Wide

430 miles X \$14,000 = \$6,020,000

15YR. Seal Coat Cycle \$401,333 / Yr.

Seals 28.7 miles of Road a year.

Rap

2000 Cy - RAP allocated Per Year.

Approximate amount of cold mix county can produce is 2788 Tons

Cost for County to make 2788 tons of mix = \$44,152

Cost Per ton is approximately \$16 / Ton

Current Cost from Drake \$77.77 / Ton

Cost Per Mile for 1" cold mix made and laid by county \$8,177/mile

This will cover 5.4 miles at 16' wide

Equipment Budget

Approximate cost to replace current equipment.

\$3,450,000.00

10 Year replacement plan.

\$345,000.00

15 Year replacement plan.

\$230,000.00