

Grand LX– Valve Maintenance Skid

Valve Exercising Equipment		Yes	No	Specify
ERV-750 Patents: #9,188,240 #9,038,667 #8,025,078	Articulating arm, automated valve operator utilizing industry exclusive intelligent automation to control torque, direction and turns. Twin arms (one telescoping) provide 13' [3.9 m] reach over 270 degrees of freedom while automatic hydraulic disk brakes safely secure equipment in any position during operations up to 750 Ft-Lb [1016 Nm] of torque. Constructed of 3" [76 mm] square steel tube and powder coated for long life. A light weight, telescoping valve key is also provided.	X		
TM-7	Heavy duty, slide style, truck mount valve exerciser utilizing industry exclusive intelligent automation to control torque, direction and turns. Rigidly mounted to the skid frame, the 27" [685 mm] head extension safely and securely exercises valves up to 2,500 Ft-Lb [2033 Nm] torque. An 8' [2.4 m] long valve key with 2" [50 mm] universal socket is also provided.	X		
Valve Machine Intelligent Automation	Wachs valve exercisers utilize industry exclusive "no assumption" automation technology to safely and effectively turn valves using AWWA recommended procedures. This technology protects the operators by keeping "hands off" the machine while exercising the valve and protects the valve by not assuming size, direction or current position. Allowing the machine to follow the path of least resistance, the programming and sensors automatically stop the rotation and reverse in half turn increments as to flush calcification from valve gate. This automation always exercises valve at the minimum torque required to turn, then automatically lowers preset threshold once rotation begins so impact at end of valve travel is soft as possible.	X		
HC-100	Ruggedized PDA style handheld controller to operate and collect data for either arm (ERV-750) or slide (TM-6 upgraded & TM-7) style valve exercisers. Rugged handheld controller with built in GPS, the bright touch screen is water resistant and meets military specifications. Submeter GPS options available.	X		
Data Management	Fully compatible with either VITALS or infraMap with VITALS software packages which enable full data logging and synchronization between the handheld and your desktop. Allows importing of existing data labels and categories with user defined fields.	X		

PRODUCT SPECIFICATIONS

Power Pack		Yes	No	Specify
Engine	Kubota 1.1L, I-3 4-stroke, liquid cooled, IDI diesel engine EPA Tier 4F & EU Stage IIIA emission compliant	X		
	Kohler 27 HP [20.1 KW] gasoline, model CH7405 Command Pro27			
Controls	Digital tachometer, engine hour meter, volt meter, vacuum gauge, spoils dump switch, spoils door switch, water/vacuum selector switch, arrow board control and service light switch	X		
Vacuum Pump	Clutch operated, dual belt drive, positive displacement rotary lobe (Roots Type) blower. Vacuum performance of 500 CFM [14 CMM] @ 11 inches of Hg [37.2 kPa] produces conveying velocity rating of 10,185 FPM [3,104 MPM] through 3" [76 mm] hose	X		
Pressure Washer Pump	Clutch operated, dual belt drive, 2.5 GPM [9.4 LPM] @ 3,000 PSI [206 BAR] pump. 7 gallon [26 L] antifreeze tank with two position selector valve.	X		
Hydraulic System	Direct coupled pump rated at 8 GPM [30 LPM] @ 1,800 PSI [124 BAR] continuous duty. 10 gallon [37 L] hydraulic reservoir with thermostatic controlled fan cooled heat exchanger. Instrumentation includes an oil level gauge, temperature gauge, pressure gauge and selector valve switching to a HTMA class II auxiliary hydraulic circuit.	X		

Spoils - Rear Discharge (pump specifications in the Power Pack section)		Yes	No	Specify
Debris Holding Tank	250 gallon [946 L] holding capacity. Top hinged full opening dump door with twin hydraulic remote operation door latches, sure seal square gasket, vacuum break valve, 6" [152 mm] mechanical ball shut-off, and 3" [76 mm] dump valve.	X		
Filtration	Staged filtration consisting of a heavy material drop out debris tank and a self-contained multi-stage filter canister with a 10 micron polyester reusable cartridge. All filters washable and reusable.	X		
Dumping	Twin cylinder, electric over hydraulic dump system, powered by Monarch HPU. The slide and tip system moves the tank out before tilting to clear the truck/trailer bed for dumping, then lifts to 55 degrees to drop debris.	X		
Hose and Wands	3" x 20' [76 mm x 6 m] suction hose with 2-1/2" [63 mm], 1¼" [31 mm] and 7/8" [22 mm] x 8' [2.4 m] long steel suction wands.	X		

PRODUCT SPECIFICATIONS

Pressure Washer (pump specifications in the Power Pack section)		Yes	No	Specify
Water Holding Tank	80 gallon [340 L] clean water vertical holding tank.	X		
Hose and Wands	50' [15.2 m] hose on spring rewind hose reel uses quick disconnects to change between the (2) included wands; one with a zero degree nozzle for digging and 45 degree, fan wash down "Shorty" wand.	X		

Skid		Yes	No	Specify
Frame	Constructed of formed steel welded frame, 3" tall main frame with integrated 8" fork slot tubes running full length.	X		
Finish	Entire fabricated skid is solvent washed and phosphoric etched. All seams are caulked then a two part urethane paint (color black) applied.	X		

LX Package		Yes	No	Specify
Service Lighting	Programmable arrow board includes eight function control box with eight individual segments and (2) mounted halogen swiveling work lights	X		
Bluetooth Tether	Wireless control of your valve exercising machine(s) via a secure Bluetooth connection.	X		
Hydraulic Hose Reel	50' [15.2 m] spring rewind hose reel for auxiliary hydraulic power with quick disconnects.	X		

* E.H. Wachs does not make truck recommendations. E.H. Wachs will provide size, weight, mounting information and other technical information to support modifiers/upfitters deliver you a quality valve maintenance vehicle.