

**Complete System**  
Exercise and Rehabilitate  
Your Valves and Hydrants



**GRAND LX**  
VALVE MAINTENANCE TRAILER

The Wachs Grand LX Valve Maintenance System has all the tools for water distribution preventative maintenance. Built for safe operation, a two-person crew can find valves, wash out valve boxes, and safely exercise and rehabilitate valves up to 13 feet away with the ERV-750 valve exerciser. The included handheld computer with VITALS Software records the valve info and status for transfer back to headquarters.

The *Grand* feature of this top-of-the-line trailer is the heavy duty Wachs TM-7 HD Plus valve operator. Mounted in-line with the driver, this exerciser is ideal for emergency operation. Using VITALS with the TM-7 HD Plus provides programs for automatic exercising with an emergency mode for immediate torque application.

**FEATURES**

- **TM-7 HD Plus valve exerciser**
  - Ideal for emergency shutdown needs
  - Operate stubborn, large, and stuck valves
  - Intelligent Automation
- **ERV-750 valve exerciser**
  - Ideal for preventative maintenance and rehabilitation
  - Reach curbside valves
  - Operate multiple valves and hydrants from a single location
- **Vacuum System**
  - Capture debris and spoils from valve boxes
- **TC-100 ruggedized handheld computer with VITALS**
- **HTMA Class II hydraulic circuit**
  - 10 gal reservoir
  - Fan-cooled heat exchanger
  - 45 ft hoses w/ reel
- **LED Light Package**
  - Control Panel
  - Programmable Arrow Board
  - Directional spot lights
- **Pressure washer system**
  - Short wash down gun
  - Long hydro excavation gun
  - 95 gal water tank/reservoir
  - 50ft retractable hose w/ reel



TM-7 HD Plus valve operator provides 2500 ft-lb of torque for turning large valves



With the ERV-750 extended reach valve exerciser an operator can turn multiple nearby valves without moving the vehicle



The heavy-duty spoils tank features a two-cylinder electric over hydraulic slide, tilt and dump functionality for easy emptying



The ruggedized TC-100 handheld computer / wireless controller / datalogger provides intuitive remote exerciser control

**SPECIFICATIONS**

**ERV-750**

- » Bluetooth Connectivity
- » Remote and Wireless Operation
- » Hydraulic
- » Integrated automation circuitry
- » Up to 750 ft-lb torque
- » Mount point and center pivot feature locking disc brakes
- » 270° lateral range of motion from base
- » 300° lateral range from center pivot

**TM-7 HD PLUS**

- » Bluetooth Connectivity
- » Remote, Wireless, and Manual Operation
- » Hydraulic
- » Integrated automation circuitry
- » Up to 2,500 ft-lb torque
- » Digital Revolution Counter
- » Torque Output Gauge
- » 8 ft valve key

**VACUUM SYSTEM**

- » 500 CFM-11 inch Hg positive displacement blower
- » 250 gal spoils tank
- » Push-button hydraulic slide, lift, and dump action
- » Automatic latching doors
- » Quick change connections
- » 3 in x 20 ft flexible vacuum hose
- » Handles on hose connection
- » 2-1/2 inch suction wand
- » 1-1/4 inch suction wands
- » 7/8 inch suction wands
- » Elbow Connector

**LIGHT BAR**

- » Programmable Arrow Board
- » Dual LED Spotlights
- » Control Panel integration

**HYDRAULIC HOSE REEL**

- » 45 ft X 1/2 inch diameter hydraulic hose set w/quick disconnects
- » Spring retractable
- » Top roller wheel

**HTMA CLASS II HYDRAULIC CIRCUIT**

- » 10 gal reservoir
- » Fan-cooled Heat Exchanger
- » 8 gpm @ 2000 PSI

**2.5 GPM @ 3000PSI PRESSURE WASHER**

- » 20 in short gun-style wash-down wand
- » 53 in long gun-style high-pressure wand with adjustable spray
- » 45 ft hose reel
- » 95 gal water tank
- » 3 gal antifreeze reservoir

**TRAILER**

- » Deck Area 8 ft x 6 ft
- » Length: 15 ft, Height: 7 ft, Width: 7 1/2 ft
- » 8,000 GVRW
- » Single torsion flex sure lube axle
- » 12 inch electric brakes
- » Radial Tires rated to 4,080 lb each
- » Two-coat Black Paint
- » 2,500 lb jack
- » 3in pintle ring
- » Grounded LED lighting

**TC-100 RUGGEDIZED HANDHELD COMPUTER**

- » VITALS valve software preloaded
- » Windows 10 IoT Enterprise
- » IP68 Rated
- » MIL-STD-810 Military Grade
- » 7 inch display
- » Built-in GPS

**TC-100 CRADLE**

**ENGINE OPTIONS**

**GAS POWER**

- » 27 HP Kohler overhead cam, air-cooled engine
- » 10 gal DOT approved fuel tank

**DIESEL POWER**

- » Tier 4F compliant, Kubota 1.1L, I-3 4-stroke, liquid cooled, IDI diesel engine
- » 10 gal, DOT approved aluminum fuel tank

**VALVE KEY OPTIONS**

**COLD CLIMATE TELESCOPING VALVE KEY**

- » 24lb (10.9 kg)
- » T-handle Adapter
- » Rated for 800 ft-lb torque
- » 1 inch interface 4 ft - 9 ft

**WARM CLIMATE TELESCOPING VALVE KEY**

- » 24lb (10.9 kg)
- » T-handle Adapter
- » Rated for 800 ft-lb torque
- » 2 inch interface 3 ft - 8 ft

**UPGRADES**

**350 GAL SPOILS TANK [77-432-02-00]**

**ACCESSORIES**

**FRONT DECK MOUNTED JOB BOX [77-409-01]**

- » 66 inch x 15 inch x 18 inch
- » Polished Diamond Plate .100" thick Aluminum
- » Twin interconnected latches with lock
- » Dedicated storage pocket for manuals.
- » Watertight seals
- » Gas springs
- » Full 90° lid hinges

**45 LB HYDRAULIC BREAKER [08-000-10]**

- » 5 in x 11 in Asphalt Cutter [08-410-01]
- » 14 in Moil Point [08-410-02]
- » 3 in x 14 in Long Chisel [08-410-03]
- » Locking Hydraulic Breaker Mount for trailer [08-405-00]

**TRIMBLE R2 [79-412-02]**

- » GNSS receiver for centimeter level GPS

**VALVE NUT RX [08-000-15]**

**VALVE BOX BUDDY [08-000-26]**

**WDP3500 DEWATERING PUMP [08-000-03]**

- » 3 in discharge hose

**WTP4800 TRASH PUMP [08-000-04]**

- » 4 in discharge hose

**WARRANTY**

E.H. Wachs machine tools and their associated parts are warranted against defects in materials and workmanship for a period of twelve months from the date of purchase. E.H. Wachs expressly reserves the right to repair or replace only those parts which prove to have been defective at the time of purchase. This warranty becomes void if maximum flow and pressure ratings are exceeded.

**For more information, visit [turnvalves.com](http://turnvalves.com)**

GAS VERSION	DIESEL VERSION
STANDARD LX VMS (GAS) [77-000-55]	STANDARD LX VMS (DIESEL) [77-000-54]
TRAILER [77-400-00]	TRAILER [77-400-00]
TM-7 HD PLUS (GRAND FEATURE) [17-405-00]	TM-7 HD PLUS (GRAND FEATURE) [17-405-00]