

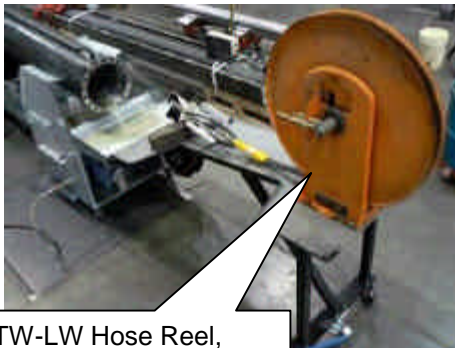


MACHINERY SERVICE & DESIGN INC.

MSD-ITW-LW (Long wall) Tube Cleaner

The **MSD-ITW-LW** tube cleaner is an air-powered system designed to clean the inside diameter of hydraulic cylinder tubes with brushes and a solvent. Capacity is from 10 feet to 100 feet in length, and bore diameters from 3 inch to 12 inch.

The MSD ITW-LW (long wall) system is similar to the standard MSD internal tube cleaning system. The standard MSD-ITW contains a 20 gallon solvent tank with an air powered solvent pump and 10-micron filtration. It can be ordered with a pneumatic drive, extensions and brushes for shorter cylinders up to 10 ft long. The long wall system uses a modified MSD-ITW tank assembly with the air-powered head to clean out cylinders up to 100 ft long.



ITW-LW Hose Reel,
and extension stand



ITW-LW Air Motor drive

MSD-ITW-LW Air Powered Head and brushes

MSD-ITW-LW includes:

- Large wash head 6" to 12" diameter with a variable speed air motor.
- Small wash head range 3" to 6 ½" diameter with a geared air motor.
- Twin 3/8" hose reel with 50-foot capacity mounted on extension stand.
- Inter-Changeable brush holder with six brush slots.
- Front brush holder for blind bores.
- Modified MSD-ITW-LW tank assembly

The air powered ITW-LW has two lines from the hose reel, one for air to drive the brush and one for solvent pumped by the diaphragm pump in the ITW. The hand-fed air motor assembly makes the brush head rotate to dislodge contamination from the tube. The system uses VOLTZ-II® synthetic non-flammable solvent for the cleaning process. The cleaning solution is pumped through a 10-micron filter and into the brush head to dislodge and flush out the contaminants. The exhaust port of the air motor is extended backwards to prevent any foaming of the cleaning solvent. The solvent flows out of the cylinder tube and back into the ITW wash cart. The solvent is pre-cleaned in the ITW Cart by a 40-micron paper filter and a magnetic pad under the filter paper to collect any large metal flakes.

The MSD-ITW-LW package with the MSD-ITW makes cleaning large and long cylinders much easier. Our air-powered package is a user friendly and safe way to remove honing oil and machining debris from long tubes.

The MSD-ITW-LW is available in special sizes to meet your needs, call to order or for more information at 262-513-8040 or email sales@ms-d.com.

"NEW GENERATION OF AFFORDABLE HYDRAULIC REBUILDING EQUIPMENT"

MACHINERY SERVICE & DESIGN INC

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