

The Turbine Sewer Machine for Cleaning Difficult
Sewer Stoppages

The turbine sewer cleaner is claimed by its manufacturers to be able to clean any stoppage in a sewer no matter how difficult for other methods. The device consists essentially of runners and cutters, adjusted to fit the sewer, revolved by water pressure and pushed along with rods, or cables and windlass or jack. In operation a hose is attached and water delivered to the turbine at 60 pounds pressure, giving 3 h. p. to the cutters which revolve at about the rate of an electric fan. The revolving cutters dislodge the material, cut the weeds, roots and other growths, grinding the other matter and carrying it away by the force of the water. At the same time the moving water scrubs the walls of the sewer. The runners and cutting knives can be adjusted so as to exactly fit the sewer. The special turbine windlass is simply constructed and easily set up and is used with cable for drawing the turbine through the sewer. Where windlass and cable cannot be used, as in completely stopped sewers, the forcing jack and sewer rods are used. Special non-buckling galvanized iron rods with special couplings to withstand the strain may be obtained. Wooden rods which float in $2\frac{1}{2}$ inches of water are used in pulling cable or rope thru the sewer.

The turbine device has been widely and successfully used in many cities. Henry J. Kruse, superintendent of sewers of Milwaukee, Wis., cleaned 319 feet of 12-inch sewer, choked with grease, in 16 hours with four men at a cost of \$16, or 5 cents a lineal foot, whereas laying new sewer at this time would have cost \$3 or \$4 per foot. Kansas City, Mo., cleaned 7,801 feet of sewer in 14 days at a cost of 0.0315 cents per foot. The average cost of cleaning is put at about $3\frac{1}{2}$ cents per foot with this device.

The illustration shows the windlass and forcing jack and some of the tar removed from a sewer at Fond du Lac.

The turbine sewer machine, the windlass, jack and rods are made by the Turbine Sewer Machine Renovating Co., Inc., Milwaukee, Wis.



TURBINE SEWER CLEANING machine removing
tar from a sewer at Fond du Lac, Wis.

