There is ONE and only one Sewer Cleaner that automatically takes dirt up from the sewer main and puts it on the street ready to be hauled away. That equipment is the O. K. Champion Sewer Cleaning outfit. For more than 25 years this equipment in the hand powered design has been highly praised by city engineers and sewer superintendents of all parts of the U. S. and foreign cities, as the most efficient, thorough and economical of all sewer cleaning machinery.

The finest piece of motorized equipment, embodying the same patented outstanding features that make the hand powered O. K. Champion machines so universally successful are now available to you in the New O. K. Champion Power Sewer Cleaner.
It is not only a massive, powerful, finely designed piece of equipment that will render years of uninterrupted service, but it includes all the following features that could hardly be dispensed with in this day of high efficiency apparatus.

1st. — The Kuhlman Patented EXPANSION Bucket. This bucket, furnished in many sizes bites into the blockade, fills itself, and on the reverse pull, its jaws snap shut, securely holding the load. The filled bucket is hauled to the street level, hoisted up to boom hook, where its jaws automatically open and the bucket simultaneously expands to 110% its normal size. The expanded bucket easily releases the load to the street to be hauled away.

2nd. — Automatic Safety Clutch. An ingenious linkage between the knee-action wheels and the clutch lever becomes active instantly upon overload. This can be set at any predetermined tension. As soon as the overload occurs due to the bucket in the sewer striking an immovable obstruction, the cable compresses the springs, which in turn trip the clutch, thus releasing the cable pull. The saving in replacement cable cost due to broken strands and the elimination of strains on the entire equipment makes this automatic clutch a most valuable feature.

3rd. — Automatic Level Wind On Cable Drum. The ½-inch steel cable made up of 6x19 strands with hemp center is always reeled up and unreeled with utmost precision, in perfectly parallel coils, exactly side by side. (See illustration.) As a result, there is no chafing or jamming due to one coil being wound on another and this adds materially to the life of the fine, high grade, flexible steel cable used on this machine. You have seen cable wound promiscuously on a drum and can appreciate this level winding feature of economy and efficiency.

4th. — A Secondary “Free-Wheeling” Clutch on the Cable Drum. This auxiliary clutch is always in use when unreeeling the cable into the sewer while the bucket is taking its load drawn by the second machine at the other manhole. It entirely disconnects the 20.5 to 1 reduction gear train that connects the cable drum to the motor. Thus the 6 inch drum with a 750 foot cable capacity revolves freely on its own axle, conserves power, and eliminates the wear and tear incident to running high reduction gears in reverse direction. This clutch is put into engagement with a flip of the hand and released with a slight wrist movement that automatically locks it in open “free-wheeling” position.
5th. — A Powerful Band Brake to control the free wheeling drum. This brake fitted with renewable lining is so sensitive that the drum can be controlled to lower the heavily loaded bucket onto an open faced watch without even cracking the crystal. With it the operator has perfect control of his machine at all times.

6th. — A 7 H. P. 2 Cylinder, 4 Cycle Radiator Cooled Le Roi Engine with speed regulator at the operator's hand furnishes unlimited power. This power is transmitted through helical spiral bevel gear and pinion to the counter shaft. From this point power is transmitted to the drum through two sets of heavy spur gears and pinions enclosed in accident proof case. All axle shafts are high tensile steel, 1 3/8 inch diameter, running on Timken and Hyatt bearings in dirt proof housings, lubricated by the Zerk system.

7th. — "Knee Action Wheels." This unique design gives sensitive action to the automatic clutch from either side of the machine. It further functions importantly in giving complete clearance for the bucket on its upward journey to the boom while at the same time centering the load directly over the wheel centers, entirely eliminating possibility of the machine tipping up at the engine end, regardless of how hard or violent the pull may be. The knee action wheels are supported by carefully calculated and engineered coil springs to carry the load and at the same time to co-operate with the automatic clutch release.
★ 8th.—The Entire O. K. Champion Equipment rides on the latest and most modern "air wheel tires" in the 6.00 x 16 size. It will roll easily and noiselessly over boulevard, cobblestone or sand road and can be operated in any section of your city, business, residential or suburban. The drop center rim wheels are metal artillery type of latest design and the handsome appearance of the whole equipment is further embellished by the large chromium plated hub caps. All wheels run on the finest roller bearings in dust proof hubs conveniently lubricated by the Zerk system.

A feature of the 6.00x16 tires is their interchangeability with tires on other equipment such as squad cars and trucks of the modern design. Steering gear is of the reverse Elliot type and the motor end of the machine is supported on a transverse semi-elliptic leaf spring.

★ 9th.—A Secondary Cable Drum carrying 450 to 800 feet of 3/16 galvanized cable is another operating convenience. This cable is left in the sewer overnight and is used to pull through the heavy cable in the morning, saving time and the necessity of using sewer rods when a job is left unfinished overnight.

★ 10th.—An Automatic Device on the upper cable guide shive wheel just below the arch instantly clamps the cable in place when the load is relieved preventing any possibility of "back lash" on the big drum. However, when the load is applied, it swings out of the way and does not bend or impede the cable, allowing it a perfectly straight pull from the jack in the manhole in the shive wheel.

★ 11th.—Red Reflecting Lenses are provided for traffic convenience during operation and in transportation. A convenient hitch bar is installed to each machine so they can be hooked together tandem fashion for transporting to and from the job.

★ 12th.—Full Equipment is included, consisting of two complete motorized machines; either the O. K. Champion manhole guide wheel jacks, or the Kuhlman manhole guide jacks; six sizes of buckets; complete cable equipment (450 feet standard) on each machine, (extra length cable may be ordered when required) sewer rods (450 ft.), hand hooks, pike pole and other necessary incidental equipment.
GENERAL SPECIFICATIONS

★ Two cables, ½ inch diameter, six strands nineteen wires, hemp center steel cables, 450 foot long each.
★ 400 foot galvanized steel cable 3/16 inch for leaving in sewers at night.
★ Two O. K. Champion Manhole Guide Wheels with telescope brace.
★ Five O. K. Champion Expansion Buckets, “Kuhlman Patent” are regular equipment. They range in size to clean sewer tile eight inches up to thirty inches and over.
★ 450 foot of O. K. Champion Sewer Rods, 3½ foot size.
★ Two four foot Steel Hooks.
★ Two Steel Hand Hooks.
★ One ten foot Pike Pole.
★ One Root Remover
★ Necessary wrenches, crank-handles and chain for lowering Guide Wheel.

★

The following interesting statement of Mr. Nicholas, Sewer Superintendent of Hammond, Indiana will give the users viewpoint:

Champion Corporation, Hammond, Indiana

Gentlemen:

We have been using the new O K Champion Power Sewer Cleaner steadily for some months now and its' performance in cleaning our 120 miles of sewer system is certainly A-No. 1 in every respect.

The many automatic features are especially fine. They are money and time savers and the sensitive controls enable us to do the work very satisfactorily under the most difficult conditions. No adjustments or repairs have been necessary yet after more than 4 months steady service, and our cable, thanks to the automatic clutch and level wind, shows no strain or wear.

We are doing the equivalent amount of work with this new outfit that was formerly done by two complete cleaners of other design and on some of our old sewers we can use this machine with complete confidence, knowing it will not break down or injure the old, weak tiles.

We shall be glad to recommend your equipment to anyone and will gladly answer any communication from interested parties on this machine.

Yours very truly,

Supt. of Sewers
City of Hammond, Indiana

[Signature]
ECONOMICAL AND EFFICIENT

While O. K. Champion equipment is highly desirable from the city executive standpoint of economy and efficiency, it likewise has the good will of the men who actually operate it. Its features of easy handling, conveniently placed controls, complete reliability and thorough work are further augmented in the users mind by the "Y" shaped frame design which keeps the operator entirely out of traffic danger (see illustration) as he is inside the wheel base line at all times. The work with our equipment is pleasant because only with the O. K. Champion is the dirt and debris brought up by the bucket instead of the men going down into the sewer for it.

Whether your population totals a million people or only a few hundred, their health, interests and investment can be best and most economically protected by the regular use of the O. K. Champion Power Sewer Cleaner. Any municipal equipment is not complete without one or more pieces of O. K. Champion Sewer Cleaning apparatus.

CHAMPION CORPORATION
HAMMOND, INDIANA, U.S.A