

FlexShaft[®] KM-1004

NEW



LEVEL UP YOUR DRAIN CLEANING

Sometimes, a job transforms from drain cleaning into full-on milling and relining. The RIDGID[®] FlexShaft KM-1004 does both. Get cordless freedom, plug-in capability, and wall-to-wall clean on 1¼" to 4" pipe up to 80'. It's the most versatile and innovative drain cleaning and milling machine on the market.

RIDGID

RIDGID.COM



TWO CHALLENGES. ONE SOLUTION.

If you're looking to bust through tough blockages in lines up to 4", the FlexShaft KM-1004 has you more than covered. Discover some problem areas in the pipe? The same machine can help you prepare for larger repairs.

The FlexShaft KM-1004 handles drain cleaning and milling. With a wide variety of accessories available, descaling, milling, and pipe rehabilitation prep has never been easier.



**FORWARD /
REVERSE
SWITCH**

KEY FEATURES

- | 18V BATTERY OR PLUG-IN POWER
- | BRUSHLESS MOTOR WITH I-CLUTCH™ TECHNOLOGY
- | VARIABLE SPEED CAPABILITY
- | BUILT IN CABLE COUNTER
- | IN-FIELD SERVICEABILITY
- | 1/4" OR 5/16" CABLE SWAP
- | 1000-2000 RPM VARIABLE SPEED CONTROL
- | TOOL LOCKOUT

FlexShaft[®] KM-1004 MILLING MACHINE



**TELESCOPING
TRANSPORT
HANDLE**



**CONNECTED TOOL
FOR JOB RECORDING
AND TOOL LOCKING**



**CABLE
COUNTING**



**FOOT PEDAL
ACTIVATION**



HYBRID POWER



**LATCHES FOR
EASY ACCESS**

FlexShaft[®] KM-1004

MILLING MACHINE

CHOOSING THE RIGHT ACCESSORY

RIDGID FlexShaft Machines utilize specialized accessories attached to a flexible cable that are spun at high speeds for effective wall-to-wall cleaning action. Selecting the correct chain knocker or brush for your application and pipe material will ensure an effective cleaning.

MILLING JOBS

- | PREPPING FOR PIPE REPAIRS**
- | HEAVY DESCALING**
- | LONGER RUN-TIME JOBS**
- | GETTING PIPE BACK AS CLOSE TO ORIGINAL DIAMETER AS POSSIBLE**
- | USE HEAVY-DUTY CHAINS, REINSTATEMENT HEADS, AND SANDPAPER BLADES**



MILLING

MILLING AND DESCALING

When pipe relining is necessary, the KM-1004 is the ultimate prep tool. With a cable counter and all-day power, you can mill and descale pipe easily to get the pipe as close to its original diameter as possible so that a liner or pipe patch can be installed with success.

CLEANING

REPAIRS & MAINTENANCE

Discovering a pipe crack doesn't always require digging and replacing. Chain knockers deliver wall-to-wall clean and can get pipes working like new, creating opportunities for maintenance plans or pipe lining upcharges.

RELINING

REINSTATE* CUT-OFF LINES

The success of every pipe relining job is predicated on proper pipe preparation. The KM-1004 delivers wall-to-wall clean in 1¼" to 4" pipe up to 80'. Just plug in, power on, and bring the old pipe to a position where relining has the best chance for success.

*Lateral connection branches may be cut off by the liner and will need to be reinstated.

DRAIN CLEANING JOBS

- **CLEARING BLOCKAGES**
- **SHORTER RUN-TIME JOBS, TARGETING A SPECIFIC LOCATION/BLOCKAGE**
- **PLAIN CHAINS, PENETRATING HEADS, CARBIDE TIPPED CHAINS**

The RIDGID KM-1004 gives you the extended run time needed for heavy-duty descaling and milling jobs. The on-board temperature sensor will protect the cable against overheating. The brushless motor provides reinstatement power for any pipe rehab jobs that may require you to open up or reinstate a closed-off line.



**EXTENDED
RUNTIME**



**ON-BOARD
TEMP. SENSOR**



**BRUSHLESS
MOTOR**

SPECIFICATIONS

- Model **KM-1004**
- Drain Capacity (Nom.) 1 1/4" to 4" (32-100mm)
- Cable Diameter (without Sheath) 1/4" (6mm) and 5/16" (8mm)
- Cable Assy. Diameter (with Sheath) ... 3/8" (9.5mm) and 1/2" (12.7mm)
- Rotational Speed 1000-2000 RPM
- Controls Main ON(I)/OFF(O) Switch, FOR/OFF/REV Switch, Pneumatic Foot Switch
- Integral Clutch/Cable Protection I-Clutch™ System
- Wireless Connection Range 33ft (10m)
- Memory 50 Job Recordings (1 Job is approx. 2 hours)
- Cable Travel Tolerance +/- 2ft (+/- 0.6m)
- Operating Temperature 20°F to 122°F (-6°C to 50°C)
- Storage Temperature 32°F to 113°F (0°C to 45°C)
- Weight (Machine and 5/16 Cable) 67.1lbs (30.4kg)
- Dimensions 24.1" x 27.6" x 13.1" (613mm x 702mm x 334 mm)

ORDER INFORMATION

| CATALOG NO. | MODEL NO. | DESCRIPTION |
|-------------|-----------|--|
| 79713 | KM-1004 | KM-1004 FlexShaft Milling Machine - Tool Only ** |
| 79773 | KM-1004 | KM-1004 FlexShaft Milling Machine with (2) Batteries & Charger * |

** Tool Only version does not include any 18V batteries or charger.

* KM-1004 Includes: 5/16" x 80' Deadcore™ Cable with Repair Coupling, 2" HD Carbide Chain Knocker, 4" HD Carbide Tipped Chain Knocker, Flexshaft Lubricant, 3MM Hex Key, 4MM Hex Key, RIDGID Tool Bag, 12" Sheath Stock, 2" Sheath Spacer, 2 18V Batteries, 18V Battery Charger, Manual Pack

ACCESSORIES

| CATALOG NO. | DESCRIPTION |
|-------------|--|
| 80873 | 2" Carbide Tipped Circular Chain for 5/16" Cable |
| 80878 | 3" Carbide Tipped Circular Chain for 5/16" Cable |
| 80888 | 4" Carbide Tipped Circular Chain for 5/16" Cable |
| 80928 | 2" Circular Chain for 5/16" Cable |
| 80933 | 3" Circular Chain for 5/16" Cable |
| 80883 | 4" Circular Chain for 5/16" Cable |
| 80938 | 2" Heavy Duty Chain Knocker for 5/16" Cable |
| 80943 | 3" Heavy Duty Chain Knocker for 5/16" Cable |
| 80948 | 4" Heavy Duty Chain Knocker for 5/16" Cable |
| 80893 | 2" Heavy Duty Carbide Tipped Chain Knocker for 5/16" Cable |
| 80898 | 3" Heavy Duty Carbide Tipped Chain Knocker for 5/16" Cable |
| 80903 | 4" Heavy Duty Carbide Tipped Chain Knocker for 5/16" Cable |
| 80858 | 2-3" Reinstatement Cutter for 5/16" Cable |
| 80863 | 1/4" Cable Adapter for 2-3" Reinstatement Cutter |
| 80868 | 3-4" Reinstatement Cutter for 5/16" Cable |
| 80918 | 5/16" Cable Adapter for 2-3" Reinstatement Cutter |
| 80923 | 5/16" Cable Adapter for 3-4" Reinstatement Cutter |
| 78788 | 2-3" Reinstatement Cutter for 5/16" Cable w/ Centering Brushes |
| 76318 | 1/4" X 50' Deadcore Cable Assembly |
| 80968 | 5/16" X 80' Deadcore Cable Assembly, No Coupling |
| 80958 | 1/4" Sheath Bushing |
| 80963 | 5/16" Sheath Bushing |
| 76598 | FlexShaft Lubricant 8oz |



FlexShaft[®] KM-1004

**FIND THE RIGHT
ACCESSORIES
FOR THE JOB TO GET
WALL-TO-WALL CLEAN**

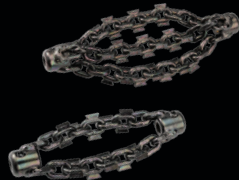


ACCESSORIES

CHAIN KNOCKERS

HEAVY-DUTY MILLING CHAINS

- Thicker chain gauge that holds up better for long run time milling jobs. Longer life than standard drain cleaning chains.



CIRCULAR CHAINS

- Descal to a set diameter. Circular chains expand fully to a fixed diameter for final milling/descaling passes to get the pipe back to its original diameter. Chains stay centered in pipe to prevent damage in compromised pipe.



CUTTERS & BLADES

REINSTATEMENT CUTTERS

- For reinstating flow to closed off connections after relining pipe. Reinstatement cutters cut through liners to reinstate flow and can be used to cut out heavy roots or other objects from pipe.



SANDPAPER BLADES

- Can be used for prepping pipe before relining to help improve adhesion, for smoothing transition edges after a reinstatement, and as a finishing tool when milling/descaling.



RIDGID

RIDGID.COM



**SCAN TO
REQUEST A DEMO**



RIDGID

©2026, RIDGID is a registered trademark of Emerson Electric Co. or its subsidiaries in the US and other countries. Any other trademarks belong to their respective holders.

R-1164 3/2026

RIDGID.COM