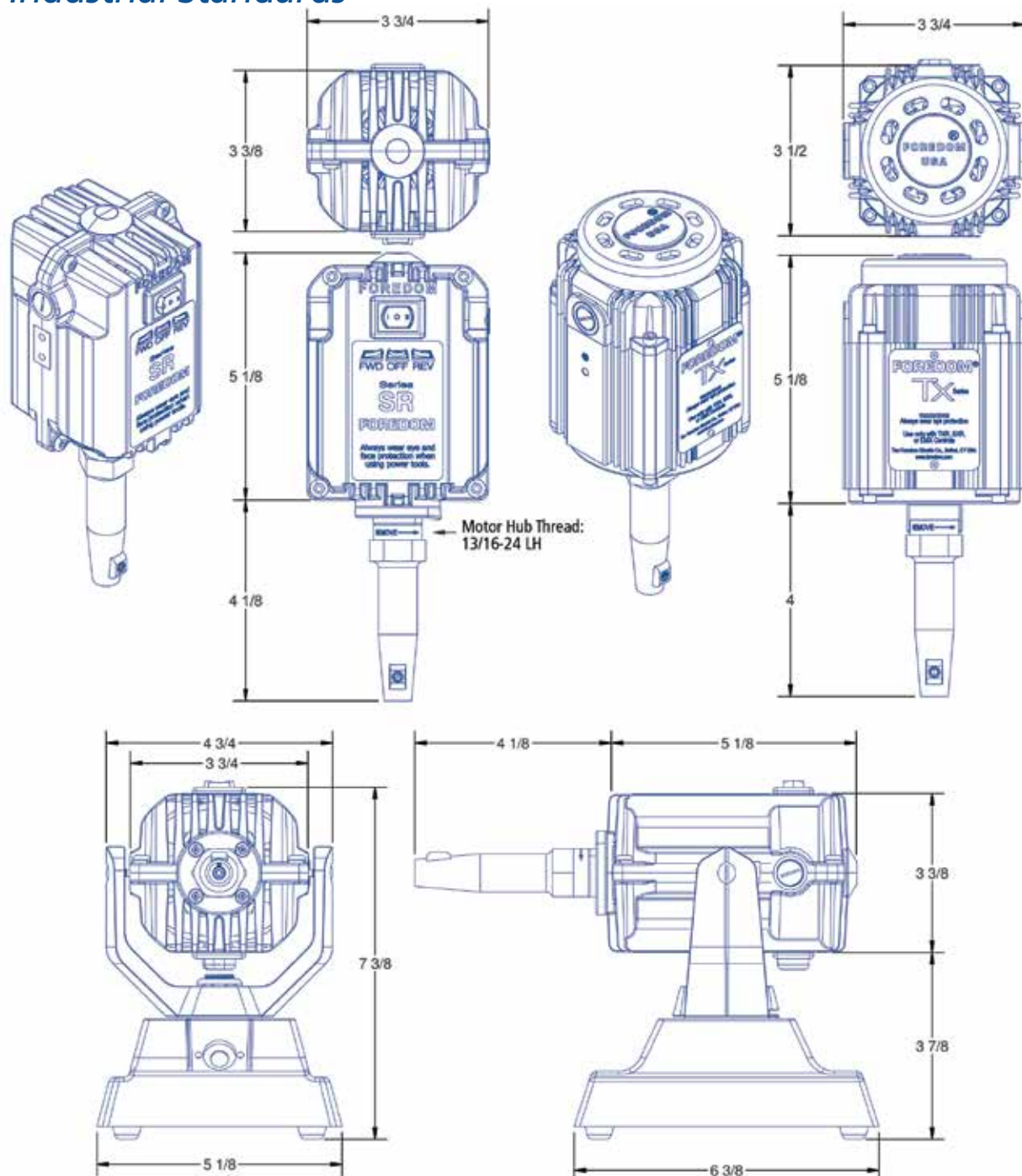


# FOR FREEDOM<sup>®</sup>



## 2017 Power Tool Catalog & Price List

# FOREDOM® Flexible Shaft Machines— Engineered and Built to Industrial Standards



## Safety Instructions

Before using your Foredom power tool, please read all safety instructions. They are for your protection and should always be followed to reduce the risk of personal injury or damage to the tool.

- \* Always wear proper eye and face protection.
- \* Secure the workpiece or item that you are working on in a vise or other work holding device. Holding it with your hand can result in serious hand injury.
- \* Always use a proper dust collection system or wear a respirator to prevent the

inhalation of dust particles, polishing compounds, or other debris into the lungs.

- \* Do not wear loose fitting clothing or jewelry which can become entangled in the rotating accessory. Tie back or secure long hair.
- \* Secure power tool to motor hanger or work surface.
- \* Do not stall the motor by jamming or using excessive pressure on an accessory. This can result in damage to the motor or flexible shaft.
- \* Never operate the motor with the outer sheath removed from the flexible shaft.

- \* Never modify the shielded plug on the TX or LXH motor cord in order to plug it into a non-TX or non-LX speed control or AC electrical wall outlet.

- \* Always disconnect the power cord before servicing the motor or removing the flexible shaft or sheath.
- \* Never operate your power tool during a perceptible power decrease. Turn power tool off and do not use until power is fully restored.
- \* Use proper grounding procedures. This tool should be grounded while in use to protect the operator from electric shock.



## What's New?

We get it, Foredom® tools create plenty of dust and debris. That's why user safety has always been at the heart of our guiding principles. Now, safety is front and center when it comes to new products. We're excited to introduce our family of dust collection equipment that includes an impressive choice of solutions to clean up the mess from all that grinding, carving, drilling, buffing, polishing, and sanding!

Our Catalog also features upgrades to some core products and new items related to how and where you work.



## Flexible Shaft Power Tools– Motor, Speed Control, and Handpiece Three Key Components



**Motor** Foredom makes 'Universal' motors that have wire wound fields and 'Permanent Magnet' motors with rare earth magnets. Our most popular 'Series SR' motors are Universal and ideal for 80% of users. A 'Series' consists of 3 motors that share the same electrical specifications but come in different styles– Hang-Up, Bench, and Bench with Built-in Speed Control. Series SR, TX, LX and PGX motors have unique performance features.

Motors come with Key Tip Shafting (shafts and sheaths). When motors come equipped with thicker and less flexible Square Drive shafting they have the letter 'H' added to their part numbers, e.g. M.SRH, M.TXH, M.LXH.


**Speed Control** Speed Controls vary motor speed from low to high with a foot or dial control. Series SR motors run up to 18,000 RPM, Series TX up to 15,000 RPM, Series LX up to 5,000 RPM, and the PowerGraver up to 2,800 RPM. Foot controls come in both plastic and cast iron housings. Dial controls are table top models in plastic housings or come integrated in the bases of certain bench style motors. Series SR motors use our standard controls. Series TX, LX & PGX motors use special controls that convert AC current to DC, the kind required by these motors.

**Handpiece** Foredom's extensive selection of interchangeable handpieces have a quick disconnect feature on the back end for installing onto standard key tip style shafting. Many users are surprised to learn that handpieces can be easily changed. General purpose models are the most popular and come with either a 3-jaw chuck that accommodates different shank size accessories or collets that are shank size specific. There are also special use handpieces for unique applications. It is common for users to own several models of interchangeable handpieces. Finally, there are handpieces for use with specialized square drive and European slip joint styles of shafting.

Since 1922, Foredom has been manufacturing and advancing its line of flexible shaft power tools. From the start, they have been built to industrial standards and over time the name has become synonymous with quality, reliability, and even the tool style itself. As a result, there are many counterfeit models in the marketplace that are hard to recognize and it is important to buy the genuine product from an authorized distributor. Foredom flex shafts hang from the benches of professional jewelers around the world, and are commonly used by machine shop operators, custom fabricators, dental lab technicians, and woodcarvers. It may surprise you to learn that they are also used by leading scientific, engineering, aviation, and other high-tech businesses and institutions.

This catalog features various tools that make up the brand, however, the flexible shaft continues to be our chief product. Selecting the right combination of key components for your specific application is not always easy since we make several styles and many look alike. If you are new to Foredom, we recommend starting with a Prepacked Power Tool Kit or Power Tool Set. This photo identifies important 'Flex Shaft Basics'. More detailed motor, speed control, and handpiece specifications are offered throughout this catalog and on our website.

# Flexible Shaft Motor Features and Specifications

	Series SR	Series TX	Series LX	PGX PowerGraver
<b>Unique Performance Features</b>	Most popular motor has all of the power and speed needed for most every job without stalling or slowing down while under normal load. Reverse offers many advantages, see page 5.	Offers excellent control of the cutting tool, drill, or bur under load. The extra power/torque makes the TX great for more demanding work like hogging out large quantities of wood or porting engines.	Has the MOST power from start up to its max speed of 5,000 RPM, even more than the Series TX at the low end. Ideal for low speed jobs like stone setting, wax modeling, drilling and chisel carving.	The PGX PowerGraver is a dedicated system with specialized components for power assisted stone setting, engraving and texturing.
<b>Standard Models come with Key Tip Shafting</b>	<b>M.SR</b> Hang-Up <b>M.SRM</b> Bench Mount with Built-in Speed Control <b>M.SRB</b> Bench Mount	<b>M.TX</b> Hang-Up <b>M.TXM</b> Bench Mount with Built-in Speed Control <b>M.TXB</b> Bench Mount	<b>M.LX</b> Hang-Up <b>M.LXM</b> Bench Mount with Built-in Speed Control <b>M.LXB</b> Bench Mount	<b>M.PGX</b> Hang-Up Equipped with Standard 39" Key Tip Inner Shaft (p/n S-93) and Unique Neoprene Outer Sheath (p/n S-76N) for Connecting to H.9D and All Interchangeable Handpieces
<b>Models with Square Drive Shafting++</b>	<b>M.SRH</b> Hang-Up <b>M.SRMH</b> Bench Mount with Built in Speed Control <b>M.SRBH</b> Bench Mount	<b>M.TXH</b> Hang-Up <b>M.TXMH</b> Bench Mount with Built in Speed Control <b>M.TXBH</b> Bench Mount	<b>M.LXH</b> Hang-Up <b>M.LXMH</b> Bench Mount with Built in Speed Control <b>M.LXBH</b> Bench Mount	N/A
	Equipped with 63-3/4" Square Drive Inner Shaft (p/n S-10823) and 63" Heavy Duty Outer Sheath Assembly (p/n S-10801TX) for Connecting to Square Drive Handpieces.			
<b>Horsepower*</b>	1/6 HP— See more about HP below	1/3 HP— See more about HP below	1/10 HP— See more about HP below	1/20 HP— See more about HP below
<b>Maximum Speed</b>	18,000 RPM	15,000 RPM	5,000 RPM	2,800 RPM
<b>Rotation</b>	Forward & Reverse	Forward	Forward	Forward
<b>Ball Bearing Motor Type</b>	Universal	Permanent Magnet	Permanent Magnet	Permanent Magnet
<b>Compatible with these Speed Controls</b>	<b>115V:</b> C.FCT-1, C.SCT-1, C.EM-1, C.EMF-1 <b>230V:</b> C.FCH-2, C.SCH-2, C.EMH-2, C.EMHF-2, C.FCT-21CE, C.FCT-22CE	<b>115V Only:</b> C.TXR-1, C.SXR-1, C.EMX-1, C.EMXF-1	<b>115V:</b> C.TXR-1, C.SXR-1, C.EMX-1 <b>230V:</b> C.TXR-2, C.SXR-2, C.EMX-2	<b>115V:</b> C.EMGX-1 <b>230V:</b> C.EMGX-2
<b>Voltage‡</b>	115V & 230V See ‡ below	115V	115V & 230V	115V & 230V
<b>Amp/Watt</b>	115V: 1.7 Amp ac 230V: .9 Amp ac 125 Watt	115V 3.5 Amp ac 250 Watt	115V: 1.2 Amp ac 230V: .6 Amp ac 75 Watt	115V: 1.2 Amp ac 230V: .6 Amp ac 40 Watt
<b>Noise Level</b>				

## All Foredom® Motor and Speed Control Combinations come with Two Year Limited Warranty

\* **Horsepower**— Foredom motors are rated at continuous duty or maximum efficiency under load and NOT maximum output. If we adopted the maximum output rating used by other manufacturers, Series SR motors would qualify as 1/5 HP or 1/4 HP, Series TX would be considered 1/2 HP, and all of our other motors would have higher horsepower ratings.

++ **Square Drive Motors**— Square drive shafting is thicker, less flexible and connects to only four, specialized square drive handpieces. When Foredom motors come equipped with square drive shafts and thicker protective sheaths they are considered 'heavy duty' and have the letter 'H' added to their model name

(Series SRH, Series TXH, etc.). Not many applications warrant square drive shafting that boasts a torsional breaking point of 50 in.-lb as compared with 24 in.-lb for our standard key tip shafting. Many users upgrading from hand-held grinders and other Dremel® type rotary tools make the mistake of selecting a square drive model. Fact is, Foredom motors are built to industrial standards and are already a major step up in power and performance from consumer-type tools.

**For users with unusually large or difficult jobs, square drive models can be the ultimate in flexible shaft tools. See square drive motor-speed control combinations on pages 6, 9, and 10, square drive model Prepacked Sets on pages 17-19, and square drive model Prepacked Kits on pages 27 and 28.**

‡ **Voltage: 110-120V vs. 220-240V**— The performance of 115V & 230V machines in this catalog are identical. 230V machines are solely intended for use in areas where 110V - 120V power is not available.