



SUPPLY LIST

Item numbers correspond to the Rio Grande catalog, when relevant.  
Shop for class tools and materials at [riogrande.com](http://riogrande.com).

BASIC BENCH SETUP	
113619	GRS BenchMate Basic
113857	GRS BenchMate Bench Pin
117003	Stick Bur-Life
118116	Center punch
	Dust mask
	Safety glasses
FLEX SHAFT TOOLS	
117534	Foredom SR Flex Shaft System with H.30 handpiece
117590	Foredom H.20 Quick-Change Handpiece
117291	Flex Shaft Swing-Away Motor Stand
117061	Foredom H.30 Blue Anodized Handpiece
201770	Wolf belt sander
117037	Foredom DP30 Drill Press
117053	Foredom H.30 Pink Anodized Handpiece
117598	Foredom H.20 Quick-Change Handpiece
117042	Foredom H.10D Quick-Change Handpiece
117106	Foredom H.18D Quick-Change Handpiece
117594	Foredom H.52D Quick-Change Handpiece
117020	Foredom H.15D hammer handpiece

FLEX SHAFT TOOLS, CONTINUED	
117118	Steel anvil points for hammer handpieces
117327	Diamalite pave tip for hammer handpieces
700333	Wolf Wax Trimmer
700895	Wolf Adjustable Wax Trimmer
117915	AllSet Master Kit
	Rag for grease from Flex Shaft
	Standard screwdriver with thin blade
	Small standard screwdriver for Foredom cable
	Large crescent wrench
BURS & ATTACHMENTS	
113339	Benchtop Bur Organizer
344507	LYNX Round Burs, 1mm
344301	LYNX Round Bur, 0.4mm
332191	Heatless Silicon Carbide Wheel with mandrel 333105
346002	Diamond-Coated Wheel Shaping Block
332597	3m Radial Bristle Disc Kit, 3/4"
338334	Brass Brush
338125	Mounted Mini Fiber Wheel, Coarse



ITEM #	BURS & ATTACHMENTS, CONTINUED
338123	Mounted Mini Fiber Wheel, Extra-Fine
338337	Brass Brush
337824	Snap-On Aluminum Oxide Sanding Disc, 220-grit
337825	Snap-On Aluminum Oxide Sanding Disc, 150-grit
333128	Snap-On Mandrel, Stainless Steel
337871	Silicon Carbide Separating Disc, 7/8" with mandrel 333105
342203	Rio Margin Roller, 12mm
333136	Wolf Tools three-piece slotted mandrel set
332596	3M Radial Bristle Disc Kit, 5/16"
332590	3M Radial Bristle Disc Kit, 1"
338512	Natural bristle brush 3/4" diameter medium
333105	Extra mandrels on counter and with instructor
201801	3M Imperial Micro-Finishing Film Belt, 40-Micron a
330707	Muslin Buffing Wheel
331091	LUXI Polishing Compound (Green)
337338	3M Silicon Carbide Wet or Dry Emery Paper
ITEM #	OTHER BENCH MATERIALS
	Cutters (to use for cutting paper lollipop stick)
	Paper lollipop stick
	Fingernail clippers
349141	Carbide drills
349419	High-Speed Steel Twist Drill, #60
349096	Large High-Speed Steel Twist Drill Set
349041	Diamond Core Drill for press
	Shallow metal bowl and wood or eraser
	Cement nails
	Toothpicks

ITEM #	OTHER BENCH MATERIALS, CONTINUED
332790	AdvantEdge Plus Kit
333105	Screw-style mandrel 3/32 shank for extra
337506	3M Sanding Band Kit
333015	Drum Arbor Mandrel, 3/32" shank
332597	3M Radial Bristle Kit, 3/4"
112553	Steel bench block
112025	1-pound brass-head mallet
201394	Finger guard leather thumb, medium
201329 /4	Alligator Skin Protective Tape
113206	Donegan OptiVISOR
115748	CraftOptics 2x Telescopes





## FLEX SHAFT BIT TYPES

### Steel bits

Inexpensive and work well for boring in softwood; however, they dull quickly in hardwood.

### High-Speed Steel (HSS) bits

Harder than steel bits, stay sharper longer. High-Speed Steel (HSS) is a popular material for drilling into soft steels as well as wood and plastic. An economical solution for most maintenance drilling applications.

### Cobalt bits

Extremely hard and can dissipate heat quickly. Most commonly used for boring in stainless steel and other metals. Cobalt (HSCO) is considered an upgrade from HSS because it includes 5-8 percent cobalt blended into the base material. This is a great option for drilling into harder steel as well as stainless steel grades.

### Black oxide-coated bits

Have a finish designed to help resist corrosion.

### Titanium-coated bits

Cost slightly more than HSS bits, but titanium coating is tougher and stays sharp longer than HSS or steel bits.

### Carbide-tipped bits

More expensive than other bits, but they stay sharp much longer than steel, high-speed steel or titanium bits. Carbide (carb) is the hardest and most brittle of the drill bit materials. Used mostly for production drilling where a high-quality tool holder and equipment is used. It should not be used in hand drills or even drill presses. These drill bits are designed for the most demanding and hardest materials.

## RESOURCES

- Foredom - [foredom.net](http://foredom.net)
  - Maintenance and tutorials for using your Flex Shaft.
- Ganoksin - [ganoksin.com](http://ganoksin.com)
  - Search the Orchid archive for information: e.g., "Flex Shaft tricks/tips," or "removing stuck or broken drill bits."