

Ice Cream Paddle Kit

Kit Features:

- High Quality Plating
- Strong Tang
- Closed end design
- Can be turned between centers or with Blind Mandrel System

Required Accessories:

10mm drill bit PK10-10

Barrel Trimming: PKTRIM734 7mm Trimmer with 3/4" head

PKMAJJRBT5 Majestic Jr Barrel Trimming Sleeve

Minimum Blank Size: 1-1/2" x 1-1/2" x 6"

LCENTLT1 or LCENTLT2 60° Live Tailstock Center

Digital calipers

2 part epoxy

Finishing Oil



Accessories for using Blind Mandrel:

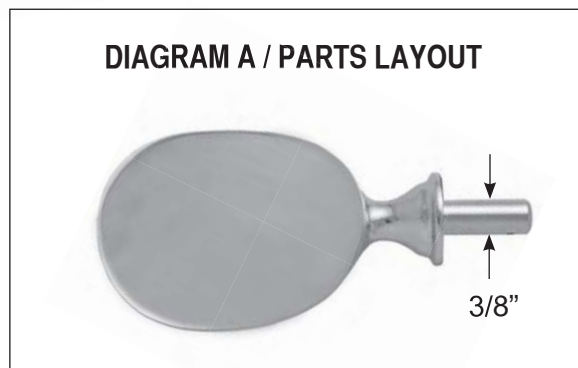
Bushing: PKMAJJRBU

Big Grabber (PKMBLB2)-includes:

1-1/2" section of blue PKMBLT105 Bladder Hose

PKMBL105 10.5mm End Bushing

DIAGRAM A / PARTS LAYOUT



Preparing the blank:

- Drill a 10mm hole 2-1/8" deep in one end of your blank.
- Insert Barrel Trimming sleeve and trimmer and trim until a full circle is formed by the trimmer head. This gives a good flat surface on the end. Do not trim down to the sleeve or it may be damaged.
- If you are turning between centers: mark center on opposite end of blank. Mount blank on lathe by lining up mark with drive center. Bring tailstock up and insert into hole. Lock and tighten tailstock to secure blank. Hole will naturally center on tailstock taper.

Using Big Grabber System:

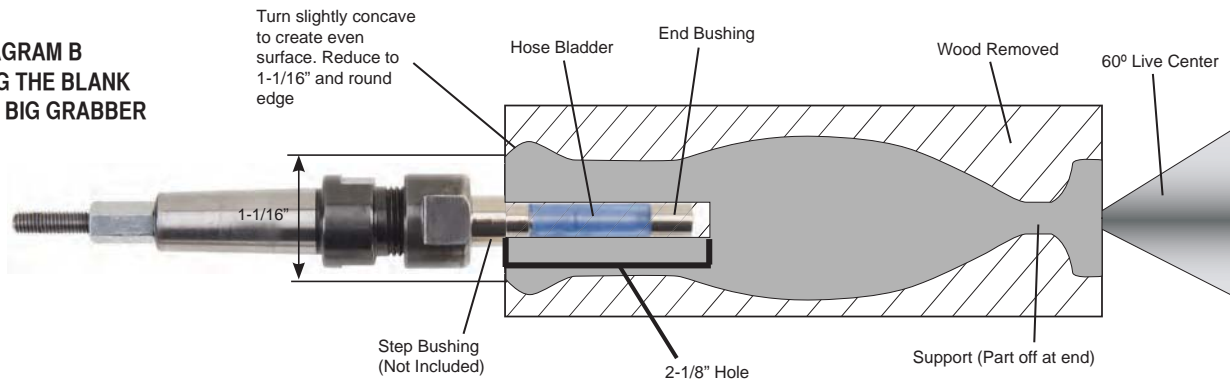
- Slide the kit's step bushing PKMAJJRBU onto the mandrel shaft.
- Cut a piece of blue hose about 1-1/2" long, Slide it onto the shaft up to the bushing.
- Thread on 10.5mm end bushing.
- Insert shaft into blank until blank is up against the larger diameter of the step bushing.
- While pushing against blank with mandrel body, pull the mandrel shaft through the rear of the Morse taper until you feel resistance.
- Tighten the long tightening nut to draw in the end bushing so the hose bladder expands inside the kit tube until the barrel assembly is secured and cannot turn on the shaft. Now lock the mandrel shaft in place by tightening the mandrel collet and lock nut.
- Mount the Grabber in the head stock of your lathe and bring up the tailstock against the opposite side of the blank. Do not force blank to meet tailstock on marked center, allow it to center naturally or the final product will be off center. Lock tailstock and tighten quill to secure blank.

Plan your profile

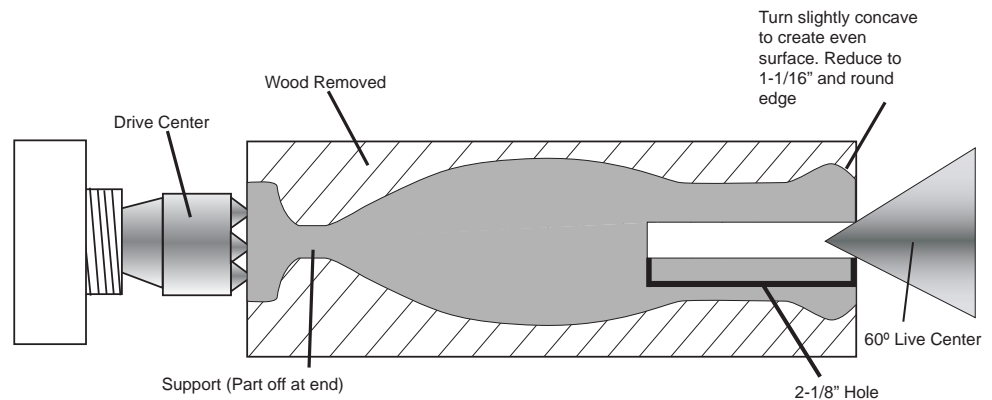
The final handle should be at least 5" long. A wide area closer to the base end will be practical and comfortable when using scoop. Below are examples of potential profiles:



**DIAGRAM B
TURNING THE BLANK
WITH THE BIG GRABBER**



**DIAGRAM C
TURNING THE BLANK
BETWEEN CENTERS**



Turning the Blank

Mark the center of the spindle and drill a 2-1/8" hole with the 10mm drill bit. Trim the end. Mount as shown in Dia. B or Dia. C. Turn a slightly concave end to help limit gaps in final assembly.

- Mark your preferred handle length with pencil. Use a parting tool to reduce the blank to around 3/4" from this line to end of the blank. This will mark the end of your handle. Later, this tailstock support piece will be removed.
- Mark a line 1/16" from the scoop end of the blank. Using calipers to periodically check diameter, reduce this until the diameter measures 1-1/16". Round this edge slightly to help blend the handle with the scoop.
- Turn the rest of the blank to your preferred profile. Periodically reduce the diameter of the tailstock support piece as the end of the work piece gets smaller.

Finishing:

Big Grabber

- Part off support piece, sand blank to preferred smoothness.
- Apply your favorite polish.
- Remove Grabber Mandrel from lathe and loosen tightening nut and collet.
- Remove blank from mandrel.

Assembly

- Slide Scoop into blank and make sure fit is good and profile is satisfactory.
- Remove scoop and apply a small amount of epoxy inside the hole and wipe a thin amount of epoxy on the end grain to seal the joint where the scoop will cover the blank. Insert scoop and allow glue to cure.

Tip: Use washable, food safe polishes, such as Mahoney's Utility Oil (LBUFFOIL), are recommended. Allow polish to fully cure.

Between Centers

- Sand blank to your preferred smoothness.
- Apply your favorite polish.
- Part off support piece and remove blank from lathe.
- Finish sanding and polishing the parted area by hand.