



Craftsman spindles

We are aware of 3 variations of tailstock spindles and 5 for headstock spindles. Contact us via e-mail and we can provide drawings. **You will need to measure your old spindle carefully.** Occasionally we do have spindles in stock, but usually these are made to order as custom designs.

All variations have some features in common:

- ½"-20 TPI (threads per inch) threads on the front end of head and tailstock spindles
- We usually do machine ANSI standard depth MT0 (Morse taper #0) arbors in these spindles. Original Craftsman used reduced length/depth arbors (cut off at larger diameter end). We also have made MT1 versions. Depending on the feed screw for tailstock spindles we may need to open-up the small end diameter of the arbor. In that case, the MT arbor becomes a reduced length arbor with a larger than ANSI small end diameter
- All spindles are drilled trough, typically at least O.D. ¼" (outer diameter 0.25 inch)
- Headstock spindles have a Woodruff key #204 (width 0.0625), exact distance from front end varies with lathe model
- Headstock spindle diameter apparently was originally OD 0.5500". That size is not available today; we do use tool steel drill rods with O.D. 0.5469"; that gives one enough clearance to mount the original bearings. We have made some headstock spindles with OD 0.5" which is cheaper. In that case, the bearings will need to be changed (you may want to do this anyway, standard size bearings are rather cheap)
- Tailstock spindles all have O.D. of 0.5"
- Several variations in the length of tailstock and headstock spindles do exist. Measure yours

- Original tailstock quill seems to be 5/16"-24 TPI LH; we also made tailstock spindles for ¼"-20 TPI LH. The latter has the advantage that it is compatible with a full length MT0 arbor that has small end diameter of ¼". For 5/16"-24 TPI LH we have to open up the arbor as already described
- Headstock and tailstock spindles have flats milled in, location and length depend on model
- Headstock spindles have a collar/ring which is machined separately and hold by setscrews. Usually circular, diameter 1", thickness usually 0.25", we used different number of setscrews. We also used hex collars in order to use a wrench key. Originally this may have been welded on or was machined from a solid rod which we cannot do
- Some customers prefer also a collar on the tailstock spindle which was originally not used.

Contact us via e-mail and we can provide drawings. You will need to measure your old spindle carefully.

Why do you want a new spindle? We often get "my spindle is bend". Actually, it does require significant force to bend a rather short spindle. If your parts don't turn true anymore it may be the spindle, but also something else including bearings, bearings housing, lathe bed alignment, headstock alignment, scroll chuck with large runout, etc. **The spindles here are custom made, i.e., no returns of custom-made parts.**

Example - Headstock #6

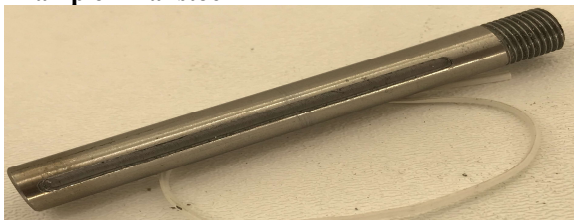
Spindle length 7.425"; OD 0.5469"; ½"-20 TPI x 0.675" front end; ¼" drilled through; MT0 ANSI arbor; More taper #0; Woodruff key #204 (width 0.0625") at 2.68" from front end; 0.5" long, 0.25"

wide flat milled 0.25" from back end; O1 tool steel; 1" ring collar (separate), all dimensions approximate; shipping weight 6.6 oz (190 gr); measure carefully your old spindle to decide whether this is the correct size;

Example - Headstock #8

Spindle length 7.75"; OD 0.5469"; 1/2"-20 TPI x 0.62" front end; 1/4" drilled through; MT0 ANSI arbor; More taper #0; Woodruff key #204 (width 0.0625") at 2.6" from front end; 0.5" long, 0.25" wide flat milled 0.25" from back end; O1 tool steel; 1" ring collar (separate), all dimensions approximate

Example – Tailstock #7



Tailstock spindle diameter O.D. 0.5"; spindle length 4.25"; 1/2"-20 TPI threads at front end (thread length 0.5"), MT0 arbor, threaded for 5/16"-24 LH tailstock feed screw (not included), keyway width 1/8", keyway length 3" starting at 1/4" from back end, machined from drill rod (A2 tool steel), to accommodate the 5/16" feed screw the MT0 is a reduced length arbor with a smaller end diameter larger than an ANSI MT0 would have, but full length MT0 tools can be used

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Design details may deviate from the image shown which does not affect the function of the accessory.

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tailstock

UPC	EAN
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headstock

UPC	EAN
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