

Knowledge Base: KB1030 – 1/4 Rotary Spindle Guide

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Overview

The Newing-Hall 1/4 Spindle is another popular rotary spindle offered in the industry. It provides the engraver and sign maker the usage of industry standard 1/4 cutter.

Included with the 1/4 Rotary Spindle

NHI Part Number	Description
1089300	Hex key short arm 3/16
1089600	Johnson's cutter wrench
1516230	1/4 diameter 0.030 tip carbide cutter
1501453	1/4 Home locator
1501319	1/4 E-lock
1500160-0D	1/4 chip removal bowl
1501199	Retaining nut (short)
1501301	1/4 chip removal nose
1064510	10-32 Reid knob (JCL - 700)
1078517	10-32 Allen nut

Installation and Operation

1. Adjust the micrometer to zero using the micrometer indicator. Leave approximately 1/8" of threads above the micrometer to the top of the stop plate.
2. Attach the spindle on the desired position on the T-slot. It is common to use the center position on the T-slot.
3. Secure the spindle to the T-slot. The larger plastic knobs provided with the 1/4 spindle to secure to the table's T-slot. The larger plastic knobs are intended for use with single rotary applications and or with a diamond spindle (Figure 1). The Allen nuts are intended to be used with two or more rotary spindles (Figure 2). The provided 3/16 hex key is used to secure the set used with applications requiring two or more spindles
4. Attach the air line to the swivel air flow assembly.
5. Attach the rotary drive assembly to the rotary spindle.
6. Insert the cutter through the top of the rotary spindle and zero the cutter.
7. Once the cutter is zeroed set the desired cutting dept and attach the vacuum (if equipped).
8. Set the desired feed rate and spindle speed.

Note: Feed rate and spindle speed will vary based on the material being utilized.

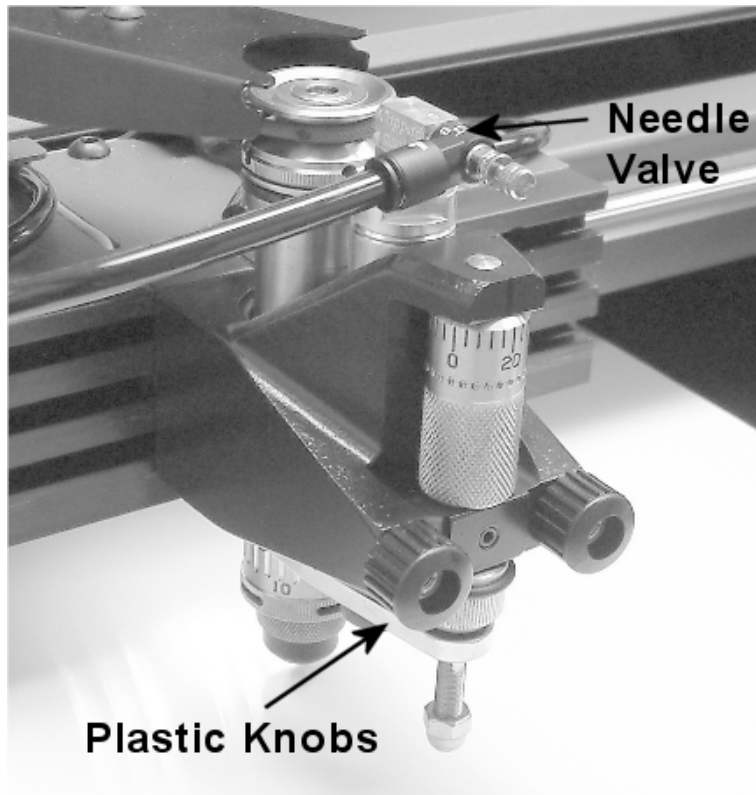


Figure 1

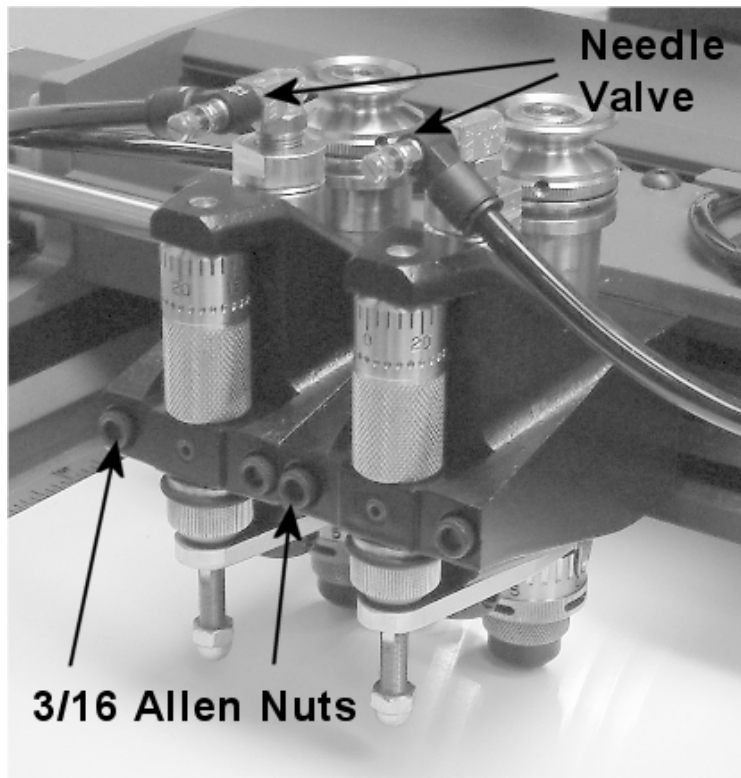


Figure 2