

Wheel Lathe

User Guide



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EDUCATION

60095 V0813

Cautionary and Warning Statements

- This kit is designed and intended for educational purposes only.
- Use only under the direct supervision of an adult who has read and understood the instructions provided in this user guide.
- Read warnings on packaging and in manual carefully.
- Safety glasses required.
- Do not use with Delrin wheels.

About the Lathe

This tool makes it easy to create perfectly round wheels for your CO₂ dragsters and other model cars. The Wheel Lathe is designed for use with standard-size dragster wheels (approximately 35 to 40 mm).

Caution: Do not use with Delrin wheels.

Using the Lathe

1. Make sure the lathe is set on a solid surface such as a desk or counter and plug it into a 120 V wall outlet.
2. Remove the carriage (Figure 1).
3. Install the wheel on the wheel arbor so the inside of the wheel is facing the lathe (Figure 2).
4. Put the carriage back on the two posts below the wheel arbor on the lathe, placing it over the wheel (Figure 3).
5. Adjust the dial on the carriage so the cutting tip is almost touching the wheel. Turn the dial clockwise to move closer to the wheel and counterclockwise to move farther from the wheel.



Figure 1



Figure 2

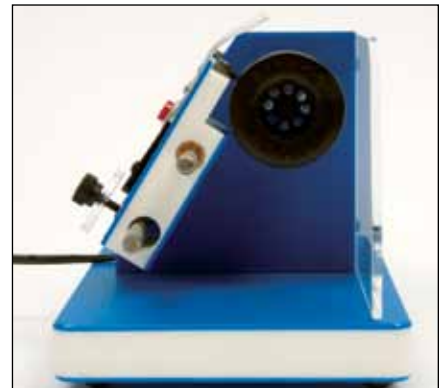


Figure 3

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Caution: While operating the lathe, keep fingers away from the cutting tip and the rotating wheel. And you should wear safety glasses.

6. While holding down the RUN button with one hand, slowly turn the carriage dial clockwise until the cutting tip engages with the wheel. Carefully move the carriage back and forth, dialing down until the wheel is evenly tooled (Figure 4). Let go of the RUN button periodically to check the wheel. When the wheel is completely rounded (you won't see any bare, untooled parts on the wheel), let go of the RUN button.



Figure 4

Tip: Notice that there are numbers on the dial. If you are doing more than one wheel and want them all the same size, be sure to note the final number on the dial when you finish with the first wheel and do the other wheels to that same number. If a later wheel needs more tooling, then note that number and redo previously tooled wheels to that same number.

7. Remove the carriage and then remove the wheel. Continue running the lathe for other wheels as needed (Figure 5).



Figure 5

Troubleshooting Tip

The triangular cutting tool is made of carbide. If the carriage is dropped, the tip could break. If this happens, use a small hex key to remove the screw holding the tip in place (Figures 6a and 6b). Then, turn the tip so another point is facing out. Replace the screw and continue using the lathe.



Figure 6a



Figure 6b

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