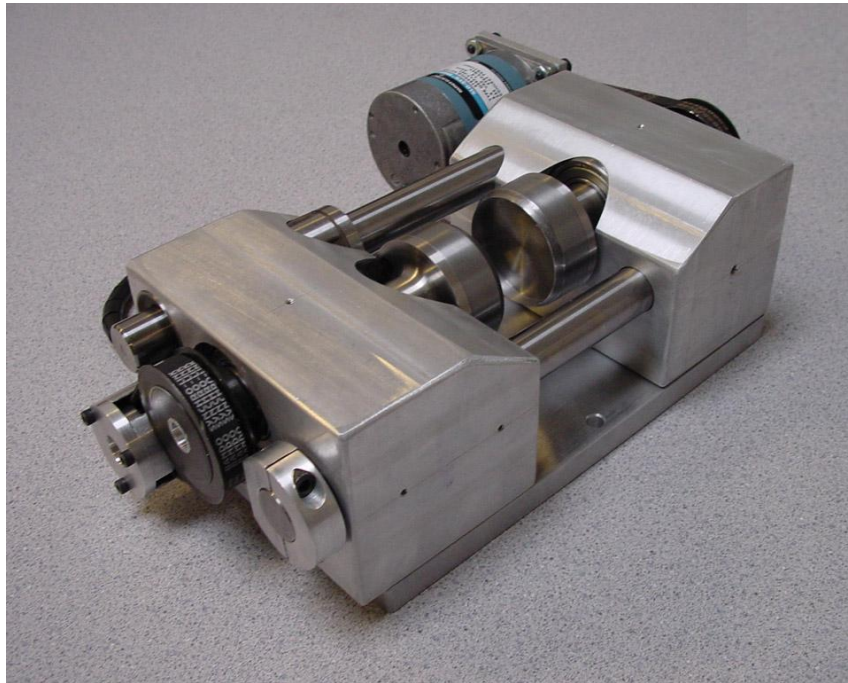


## SYNCHRONOUS ROTATOR SPECIFICATION



**Model: SYNCROT12**

(Two synchronously driven aligned spindles)

**General Description:**

This rotator is designed to rotate two parts synchronously during welding. It is suitable for welding two parts that cannot rely on tack welds or friction to drive the second half. Originally it was designed for the welding of thin diaphragms used to make aneroid capsules. The ability to evacuate and then close the diaphragms together under vacuum is another feature of this tooling. However the actuator for closing is usually a shaft that slides through the wall of the chamber and is not supplied with this tool.

The tailstock is driven synchronously by a splined shaft that allows the tailstock to slide open and closed for loading and unloading parts, and for pre-evacuation of aneroids. Accuracy of alignment is maintained with linear ball bushings on the tailstock and the spindle rotation is carried on ball bearings.

The work holding is via collets, 3 jaw chucks, (customer's choice at time of ordering) or special chills for holding diaphragms.

### Special Features:

- Both spindles driven synchronously.
- Tailstock slides open on ball bushings.
- Spindles rotate in ball bearings.
- Tailstock can close parts under vacuum.
- Self contained stepper motor for wide speed range and constant torque.
- Compact and lightweight.
- Can be fitted with capsule chills, collets or 3 jaw chucks (customer choice).
- High vacuum compatible.

(Note: Certain dimensions and work holding can be varied to suit customer requirements.)

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### SPECIFICATIONS

<b>Overall Size</b>	14" x 7.5" x 4" (360mm x 188mm x 100mm)
<b>Weight</b>	24 lbs (11 Kg)
<b>Speed Range</b>	Depends on driver, but approximately 2 - 60 RPM.
<b>Work Piece Size Capacity</b>	2.75" Ø x 4" long (70mm Ø x 100mm long) Larger sizes to order.
<b>Tailstock Movement</b>	4.5" (115mm)
<b>Motor Drive</b>	Size 23 stepper motor via timing belt
<b>Bearings</b>	Spindles use ball bearings. Tailstock slides use ball bushings.
<b>Tailstock Drive</b>	Via splined shaft and gears.

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