

For Immediate Release

## **Primatics Introduces High Precision, High Load Capacity Full Rotation Rotary Stage**

Corvallis, OR (January 20<sup>th</sup>, 2001) - Primatics introduces its newest rotary stage, the PFR. The PFR rotary positioning table is designed for high volume production applications requiring high precision, exceptional stiffness and fast settling times. The PFR is ideal for point to point indexing, assembly and optical applications.

The PFR features a precision Kevlar re-reinforced urethane timing belt drivetrain. The belt has a AT5 tooth profile with nylon faced teeth, providing stiffness and smooth tooth engagement. The belt is dynamically tensioned, eliminating backlash. An 5-8:1 gear ratio between the motor and platen ensures the PFR is immune to load inertial changes without sacrificing speed. A ring encoder is located on the rotating platen, providing output feedback directly on the load, enhancing system accuracy and repeatability.

The PFR incorporates an oversized cross roller bearing to support the platen, delivering high load capacity, excellent rigidity and long life. In addition, this bearing allows a large thru-hole in the center of the stage, ideal of optical inspection applications. A frameless brushless servo motor inside the PFR eliminates the need for a motor coupler, reducing the height of the PFR as well as giving the PFR full rotation, a wide dynamic range, zero backlash, high speed and reduced settling times. A single cable containing all motor, sensor and feedback signals exits the PFR housing, significantly simplifying stage integration.

The PFR comes with tabletop diameters of 100 or 225 mm, aluminum or steel construction, optional class 10 cleanroom preparation and encoder resolutions from 0.4 to 5.5 arc-sec.

PFR stages are available in standard and custom versions. Pricing begins at \$6900 for single quantities with delivery in 4-6 weeks.

