

## PJ-D3 Ultra Precision Polishing Fixture

### Additional notes for Spartan Felt Company

- 1) The Jig was locked during packaging and transport. To unlock it, please turn the Stock removal ring (34) and Screw (30) in counter clockwise direction, then the shaft assembly can be moved up and down freely.
- 2) The angular adjustment method for this jig is different from Logitech's. I think our method may be more strong and stable. We also can make the jib with the same angular adjustment method as Logitech's if any customer prefers.
- 3) The simple way to test the rocking of the chuck plate can be conducted as follows: put the jig on a flat surface and turn the Screw (30) down until touching the back of the base plate (23). Then, turn the jig upside down (driving ring and chuck plate on the top). Put an optical flat on both surfaces of the driving ring and chuck plate under a fluorescent lamp, a series of color bands (interference fringes) will appear on both the surfaces of driving ring and chuck plate. Pushing the stock removal presetting ring (34) (that means the shaft is forced to the direction you pushed), the color bands may move in case there is a clearance between the shaft and the sleeve. One band movement corresponds to 0.3 microns; it's about 0.6" rocking of the chuck plate.
- 4) The chuck plate of this jig is different from the chuck plate on the Fig. 1. This jig has more grooves and no Seal plug (27) and "O" ring (25, 26). The other difference of this chuck plate is the 68 set screws (22) have to screw in from the back of the chuck plate. Without a special order, I'll offer the chuck plate shown in Fig. 1.
- 5) A mounting pot (for mounting rods or prisms) is in processing. I'll send it to you as soon as I get it.
- 6) There is a defect in this jig: the screw hole for one of the balance weight (31) is not perpendicular to the surface. Although the defect doesn't matter in use, but it affects the appearance a little bit. This defect will not appear in the future products.

Please give me your feedback and suggestion. Thank you very much.