

2G

QUICK REFERENCE GUIDE

Layout

- Center lens using manufacturer's SEG location for bifocals.
- Non-decentered progressives center through dot below cross.
- Decentered progressives move dot in and down as specified by manufacturer.
- Put cylinder axis line through lens geometric center.
- Put prism axis line through lens geometric center and draw arrow point.
- Tape lens.
- Block lens.

Prism Arrow Location

- Base - Arrow on prism base (thick)
- Apex - Arrow on prism apex (thin)
- None - No prism arrow at layout
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Lens Chucking Orientation

- Apex - Arrow positioned up
- Base - Arrow positioned up
- None - Bifocal down

Ranges

- Lens Back Base = +6.00 D. to -30.00 D
- Cylinder = 15.00 D
- Prism = 15.00 D
- Laps = -6.00 D. to +30.00 D

Pad Thickness

- 0.018 inches = 0.45 mm
- 0.022 inches = 0.55 mm
- 0.028 inches = 0.70 mm
- 0.032 inches = 0.80 mm

MAINTENANCE

Daily

- Clean the interior.
 - Check air pressure.
 - Drain air filter.
- NOTE: USE "MOVE CARRIAGES FOR CLEANING" WHEN CLEANING INTERIOR.

Weekly

- Clean collet.

Bi-weekly

- Clean electronics enclosure fan filter.

Cycles

- Every 200-300 cycles, change vacuum bag.

As Needed

- Change cutter and recalibrate.

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CALIBRATION CHECKLIST & SUMMARY

Pre-Calibration

- Correct blade radius on Setup screen.
- Verify thickness carriage stop is set.
- Verify blade is set correctly in motor.
- Review Blank Material screen.
- Verify end mill flute length.

Use Calibration Plus Procedure to "Rough-In" the Lens Curve Bias

Calibrate Lens Curve Bias

- A. Cut a -6.00 lens and check SAG consistently across entire surface.
- (+) Adjustment to lens curve bias if lens is flat in the center.
 - (-) Adjustment to lens curve bias if lens is steep in the center.
 - Adjust in increments of +/- 0.05mm and recut 0.5mm thinner to check.
 - -6.00 SAG reading not necessary; adjust to get curve spherical.

Calibrate Thickness With The Thickness Bias

- A. Verify that the correct block diameter for SAG is entered.
- B. Cut a plano (+6.00 base curve, -6.00 back curve) and check cut thickness against desired thickness.
- (+) Adjustment to thickness bias if lens is too thick.
 - (-) Adjustment to thickness bias if lens is too thin.
- C. Recut -6.00 lens until thickness is correct; verify with another curve.

Calibrate Curves With The Curve Correction

- A. Bring a -6.00 lens to the proper SAG with the -6.00D correction.
- (+) Adjustment to -6.00D correction if curve is steep.
 - (-) Adjustment to -6.00D correction if curve is flat.
 - Adjust in increments of +/-0.05mm and recut 0.5mm thinner to check.
- B. Bring a -12.00 lens to the proper SAG with the -12.00D correction.
- (+) Adjustment if too steep, (-) adjustment if too flat.
 - Adjust in increments of +/-0.5mm and recut 0.5mm thinner to check.
- C. Bring a -1.00 lens to the proper SAG with the -1.00D correction.
- (+) Adjustment if too steep, (-) adjustment if too flat.
 - Adjust in increments of +/-0.5mm and recut 0.5mm thinner to check.
- NOTE: THESE ADJUSTMENTS ARE NON-LINEAR AND MAY NOT CHANGE ON FIRST ADJUSTMENT. CONTINUE TO ADJUST UNTIL CURVE READS CORRECTLY ON GAUGE.

Calibrate Axis Bias (Set at factory; should not vary.)

- A. Use internal axis calibration test to preset axis.
- B. To check axis, first verify cylinder machine axis.
- C. Using a +4.00/+8.00 tool (verify tool accuracy), cut a lens -4.00/-8.00 at axis 180.
- D. Fine lens for 10 seconds. Look for generator marks at upper right and lower left, or upper left and lower right.
- E. If marks are seen upper right and lower left, make a (-) negative adjustment to the Axis Bias and a (+) positive adjustment for the opposite.
- F. Adjust until lens fines evenly after 10 seconds and completely after one minute.

Lap Calibration - Refer to Manual

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