

ULTRAPREP III SPECIFICATIONS

Machine size	375 mm high, 375 mm wide, 350 mm deep
Weight	30 Kg
Power requirements	90 to 250 VAC 49 to 61 Hertz at 4 amps maximum
CDA requirements (for Spindle Purge option only)	30 to 70 PSI 0.5 CFM maximum - 40 dew point, no particulate > 3 microns, no oil
Operating temperature range	16 – 26 °C
Storage temperature range	5 – 30 °C
Operating Relative Humidity	10 - 85% non-condensing
X Axis Travel	100 mm (75 mm usable)
Y Axis Travel	75 mm
Z Axis Travel	65 mm
Maximum speed	450 mm/minute
Maximum spindle speed	10,000 RPM
X, Y Axis Resolution	0.000488 mm
Z Axis Resolution	0.000397 mm
Positional Accuracy	+/- .00025 mm per millimeter of travel from reference
Spindle axis accuracy	+/- 0.50 milli-radians normal to fixture plane
Z Axis repeatability	+/- 0.0015 mm
X and Y Axis Repeatability	+/- 0.002 mm
Tool Holder	ER-8 1/8 inch collet supplied will accept 3 mm tool shafts
Touchdown Repeatability	+/- 0.50 µm. typical
Touchdown Force	50 grams typical
Usable Die Size	2 mm minimum to 36.0 mm maximum
Maximum Package Size	67.5 mm X 52.8 mm
Video Screen	7 inch (18 mm. diagonal)
Video Magnification	X 10 typical for alignment camera X 20 typical for observation
Video Resolution	NTSC standard

Optional:

CDA purge of the spindle, to reduce the self-heating effects of the spindle assembly and protecting the spindle bearings from particulate contamination.



RKD Systems
515 Clubhouse Drive
Aptos CA 95003 USA
Tel: +831685 8271