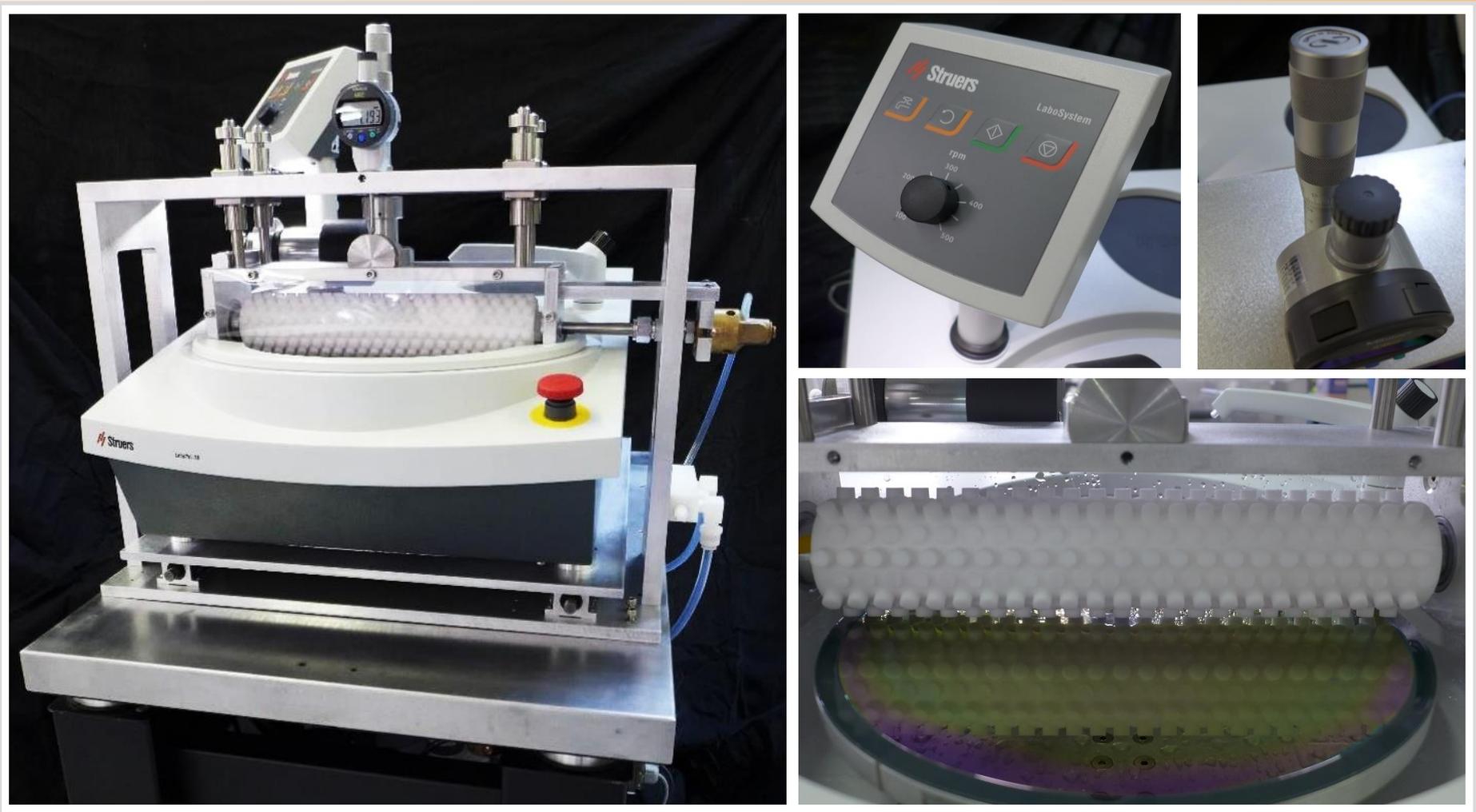




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PCC-300 Post-CMP Cleaner and Tribometer for R&D and Low-Volume Manufacturing



Specification

Manufacturer:	Araca, Inc., Tucson, AZ USA.
Wafer Size:	25, 50, 75, 100, 150, 200 and 300-mm with specialized wafer templates.
Turntable Assembly:	Built on the world-renowned compact Struers LaboPol-30® platform.
PVA Brush:	Entegris Planarcore® Model PVP1ARXR1 and Rippey NanoShear H3FEN-70-31NM-0317. Pressure range of 0.1 to 3.0 PSI. Rotation range of 10 to 500 RPM controlled via servo motor. Surrounded on 2 sides with folding polycarbonate splash guards. Vertical displacement is set and locked manually with a dedicated digital display.
Wafer Chuck:	310 mm in diameter anodized aluminum beneath a proprietary integrated backing film and retaining ring assembly. Rotation rate of 50 to 500 RPM controlled via inverter motor.
Chemical Delivery Systems:	Two automated, 10-liter, chemical-resistant, removable tanks each with an impeller mixer, roller pump and level sensor. Flow rate range of 10 to 1,000 cc/min through the brush core.
Pad Rinse:	Dedicated high flow rate (up to 3,000 cc/min) water rinse above the PVA brush or atop the wafer.
Force Sensor:	Interface® shear force transducer below the LaboPol-30 assembly locking together the parallel plates of a friction table.
Control & Monitoring:	Intuitive LaboPol-30 programmable controller for complete cleaner operation.
Data Capture vs. Time:	National Instruments® and LabView® based shear force data capture at 1,000 Hz.
Data Analysis and Reporting:	FSX-300® off-line data analysis software with user-friendly GUI developed by Araca, Inc. on the National Instruments® and LabView® platforms. Capable of reporting shear and coefficient of friction as a function of cleaning time.
W × L × H and Weight:	50 × 75 × 40 cm and 80 Kg (for the cleaner and tribometer). 60 × 50 × 70 cm (for the 2 chemical delivery systems).
Utilities:	200 to 240 V – 1 Phase, 50-60 Hz, 10A.
Enclosure & Exhaust:	Optional enclosed and sealed chamber with 10 cm diameter standard tool exhaust port.
Warranty:	One year parts and labor warranty included. Optional extended warranties and service contracts available.