

Brooks Automation, Inc.

Brooks Automation and Galil. This Winning Team Boosts Wafer Throughput.

In the highly competitive and exacting world of silicon wafer production, throughput, precision and reliability are paramount.

Semiconductor equipment manufacturers are constantly being squeezed between the conflicting requirements of ever-increasing performance specifications, improved time to market, and reduced costs. That's why most semiconductor equipment manufacturers have come to specify robots manufactured by Brooks Automation, Inc. when designing their systems. And why Brooks, in turn, has used Galil motion controllers in every one of the over 10,000 robots they've shipped.

By combining the capabilities of Galil motion controllers and Brooks proprietary Time Optimized Trajectory software, Brooks has been able to increase throughput by over 33 percent. The Company's Time Optimized Trajectory Software combines Galil's S-curve acceleration profile with overlapping motion profiles. Without this acceleration profile, achieving the same throughput would require setting speed and accelerations much higher, causing increased wear, shorter life, and ultimately less reliability.

With the value of some wafers approaching hundreds of thousands of dollars in their final phases of manufacture, the semiconductor industry must demand the most reliable, high-precision manufacturing equipment available. This is exactly what Brooks provides. To meet these rigid requirements, Brooks relies on proven Galil architecture and motion control algorithms to reliably maintain precise control during wafer production time after time.

By this constant adherence to excellence in design, manufacturing and, above all, quality components, Brooks has grown to dominate atmospheric semiconductor wafer handling, becoming the largest manufacturer of wafer handling robots in the U.S.

Brooks acquisition of PRI Automation was completed in May 2002. Brooks delivers automation solutions to the global semiconductor industry. The company's hardware, factory/tool management software, and professional services can manage every wafer, reticle and data movement in the fab, helping semiconductor manufacturers optimize through-

put, yield and cost reduction, while reducing their time to market. Brooks products and capabilities are used in virtually every fab in the world. ■



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