

# The LA3250 Advanced Lathe



## Precision Micro-Abrasive Blasting for Demanding Production Environments

Comco has integrated micro-abrasive blasting technology with an advanced machining platform to create the LA3250 Advanced Lathe. This automated system provides the accuracy, reliability and throughput required by today's manufacturing environment.

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# SOLUTIONS THROUGH MICROBLASTING

## The Advanced Lathe is Performance Driven

The LA3250 Advanced Lathe is designed for the steady processing of precision parts in a production environment. Using up to four axes of motion and unique tooling, the Advanced Lathe is able to process a wide range of applications. It is easy to use: the operator simply selects from several preset programs, loads the parts and starts the process. Safety features built into the system protect against the accidental improper loading of parts, mismatch of programs or tooling, and other errors. As needs change, additional programs can be easily developed through the user interface or a remote computer using G-code.

## Precision and Consistency

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- XZ assembly provides a more rigid base for tooling attachment and parts handling
- Tail-stock options for spindle
- Closed-loop encoder feedback on stepper motors
- Datum plate accommodates spindle or flat base plate options

## Refined User Interface

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- Bright, easy-to-read touch screen display
- Programming in industry-standard G-code
- Multiple methods to track data
- Supports foreign language commands

## Lean

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- Fast loading and unloading of parts
- Integrated into corporate network
- Quick change between different types of parts

## Flexible to Meet a Wide Range of Applications

Lathe configurations have been developed for a wide range of processes. Our expert engineers have designed lathe systems to meet the exacting standards of the medical, aerospace, electronics, automotive, and semiconductor industries.

## Modular Design

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- Up to four axes of motion
- Capable of handling complex part geometries
- Quick disconnect tooling and vacuum chuck
- Optional bar code reader on network integration
- Tooling and part holding fixtures

## Custom Blast Heads

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- Engineering OD adjustable head
- Fixed production blast head
- Serializer head with PowderGate® valve
- Nozzle rail

## Multiple Blaster Options

The Advanced Lathe has been engineered to operate with any Comco micro-abrasive blaster. The AccuFlo® model is typically used for single nozzle applications. For most applications requiring multiple nozzles, we recommend the PowerFlo® model. A modified PowerFlo® equipped with a precision electronic regulator enables the Advanced Lathe to accurately control the blast pressure defined in the program. The lathe can adjust the blast pressure during a cycle, allowing it to perform multiple operations during the same blast routine. In addition to safeguards in the blasting program, this setup also prevents operator interference with the pressure adjustment.



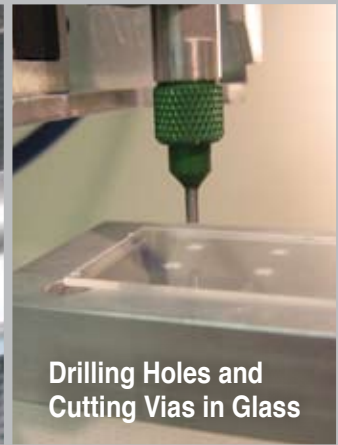
ID Stent Blasting



Deburring Bone Screws



Lens Engraving



Drilling Holes and Cutting Vias in Glass



Stent Surface Engineering



Texturing Dental Implants



Beveling Silicon Wafers



Deburring Valves and Injectors



# LA3250 ADVANCED LATHE REQUIREMENTS

Compressed air for LA3250	100 to 125 PSIG (6.9 to 8.6 Bars), 3 SCFM (85 SLM), of clean, dry shop air	
*Compressed air for PowerFlo® model PF2400	90 to 140 PSIG (6.2 to 9.7 Bars), 10-12 SCFM typical (283-340 SLM) Dried to -25°F dew point and oil content filtered to <10ppm	
*The compressed air required will vary depending on the number and type of blasters used. The PowerFlo® model PF2400 requirement is shown as a reference only.		
Dust Collection	1,000 SCFM (28,000 SLM)	
Electrical	115V 50Hz/60Hz, 400 Watts	230V 50Hz/60Hz 400 Watts
Dimensions	48" wide x 30" deep x 68" tall 122 cm wide x 76 cm deep x 173 cm tall	

## Engineered for Harsh Abrasive Environments

Working with micron-sized abrasives presents unique challenges in automation. The fine abrasive media can easily enter mechanical parts that are not properly protected.

Over the past 40 years Comco has developed the skills required to operate moving parts in an abrasive environment, maintaining precision and accuracy for production operations.

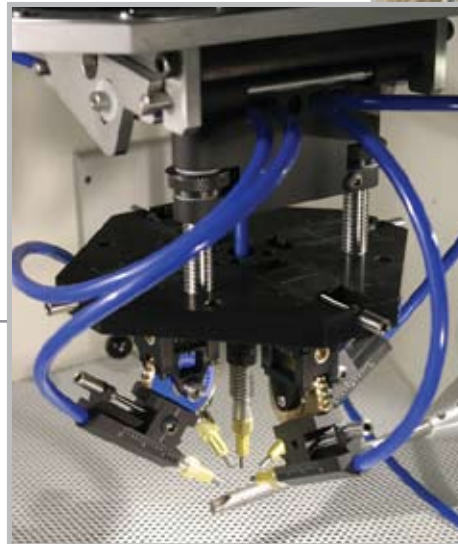
## Robust Design

- Abrasive resistant components sealed, pressure purged
- Electronics pressure sealed in separate chamber from blasting area
- Downdraft airflow limits overhead slide's exposure

## Comco's Applications Lab

Comco's engineers have the expertise and complete test facilities in our Applications Lab to develop custom processes for your application. We work with you to customize the Advanced Lathe with special tooling and blast heads to create the best process for your application.

**Contact us today at**  
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