

Tube Laser Commissioning

Making room for growth.

We integrated a \$400K+ tube laser and reconfigured a 40,000-square-foot facility without major downtime.



\$400K+

CAPITAL INVESTMENT



2,000+ SQ. FT.

SPACE RECLAIMED



11 MACHINES

REPOSITIONED / REMOVED



LASER IN PRODUCTION

WITH NO MAJOR DOWNTIME



THE SITUATION

The company invested in a new tube laser and needed to determine where it should go.

Placing it meant rethinking equipment, materials, utilities, and people movement across the entire facility.



THE CHALLENGE

The laser had a delivery date, but the space and infrastructure weren't ready.

We needed to determine:

- ✓ Which equipment to move or remove
- ✓ How to improve material flow
- ✓ Electrical and air requirements
- ✓ How to coordinate rigging and delivery
- ✓ How to complete everything with minimal disruption



OUR APPROACH

1

PLAN FOR THE FUTURE

We designed a layout that supports where the business is today—and where it's going.

2

RECONFIGURE THE FLOOR

We removed 6 pieces of underutilized equipment, opened 2,000+ sq. ft. of space, and relocated 7 machines to improve material flow. In total, 11 machines were moved or removed.

3

COORDINATE EVERY DETAIL

We aligned internal teams and outside partners to ensure a smooth delivery, installation, and startup.



THE RESULTS

LASER IN PRODUCTION WITH NO MAJOR DOWNTIME

The tube laser was landed, commissioned, and put into production without disrupting operations.



2,000+ SQ. FT. RECLAIMED

Six underutilized or obsolete pieces of equipment were identified and removed, opening more than 2,000 square feet of space.



11 MACHINES REPOSITIONED / REMOVED

Seven machines were relocated and six were removed, creating a more efficient material flow.



BETTER POSITIONED FOR GROWTH

The project created a stronger, more flexible foundation for future growth.



WHY THIS WORKED



We took a systems view—not just one machine.

Thinking beyond one piece of equipment allowed us to improve the entire facility.



Early planning prevented disruption.

By identifying needs and dependencies early, we kept the project on schedule.



Cross-functional collaboration was essential.

Engineering, operations, maintenance, and outside partners worked together on one timeline.



The investment created long-term value.

What started as one machine became an opportunity to strengthen the whole operation.



KEY TAKEAWAYS

- ✓ Capital investments create ripple effects.
- ✓ Collaboration across departments is critical.
- ✓ Allow time to coordinate with outside vendors.
- ✓ Make room for what's next.



SERVICES DELIVERED

- ✓ Manufacturing Engineering
- ✓ Facility & Layout Planning
- ✓ Equipment Integration
- ✓ Material Flow Analysis
- ✓ Capital Equipment Planning
- ✓ Project Coordination



PROJECT SNAPSHOT

PROJECT DURATION	2 months
CUSTOMER ENGAGEMENT	3 years
CUSTOMER INVESTMENT	\$400K+
FACILITY SIZE	40,000 sq. ft.
SPACE RECLAIMED	2,000+ sq. ft.
EQUIPMENT REPOSITIONED	7 machines
EQUIPMENT REMOVED / ADDRESSED	6 machines
KEY OUTCOME	Tube laser in production with no major downtime



PLANNING YOUR NEXT INVESTMENT?

We help manufacturers evaluate, plan, and implement equipment investments that deliver immediate value and long-term impact.

LET'S CONNECT →