AUTOMATION SOLUTIONS
CONFIGURE YOUR OPERATION NOW—
AND GROW WITH THE FUTURE.
Mitsubishi Laser Automation Solutions

As the industrial laser industry evolves, shops of all sizes are requiring more speed and agility to get the job done. The Mitsubishi SmartFlex Automation Line is designed and engineered to increase productivity and reliability—because to stay on top, your automation needs to keep up. And with Mitsubishi Laser, it will.

All of Mitsubishi’s SmartFlex Automation configurations deliver key features standard, and options, including:

- Modular and expandable to **grow with changing needs**
- Aerial positioning provides **accurate and correct sheet location**
- Automatic sheet separation and thickness detection to help ensure **you never cut the wrong material**
- **Heavy-duty load and unload cycle** with up to 1” thickness capacity
- Tower shelves with a **capacity of 6,600 lbs. each**
- Automated SmartStation Carts with a **capacity of 11,000 lbs. each**

Build-Your-Own Laser Automation Solutions

With Mitsubishi Laser, you can customize laser automation solutions to meet your specific needs—from production speed to shop capacity.

Learn more about our laser automation solutions at: mcmachinery.com/mylaserautomation
In today’s world of fiber lasers, your automation must keep up. With an industry-leading load/unload cycle time of only 52 seconds, the SmartFlex RAPID can service up to four lasers with one system. This intelligent, fully independent load and unload system provides unrivaled speed and flexibility for multiple laser systems.

- 52-second load and unload cycle time
- Aerial positioning
- 22 gauge to 1.0” load/unload capacity
- Standard paired with automated, SmartStation, high-capacity carts (11,000 lbs. each)
- Intelligent, high speed, independently operating load and unload units
- Dual automated carts for both loading and unloading

SmartFlex RAPID Tower
Integrate a low-profile storage tower with a 6,600-lb.-per-shelf capacity and you have a full Flexible Manufacturing System (FMS) that can grow with you.

- Up to 22 shelves (more than a 145,000-lb. weight capacity for raw material)
- Increase storage capability with the addition of a second or third tower
- Configure an auxiliary load station for quick change-over of material types on multiple laser systems with no additional time
- Standard shelf spacing is 3.5” for use without skids or available at 7.5” for skid compatibility
- Offload to SmartStation, SmartFlow conveyor, or a dedicated finished-goods tower
With a cycle time of only 75 seconds, Mitsubishi’s SmartFlex COMPACT automation system is as fast as it is flexible. This capable automation option can fit into the tightest of spaces, thanks to an installation footprint of less than 23’ x 35’, while providing the capacity for growth you need. The SmartFlex COMPACT can even use the same tower for both raw material and finished goods, giving you options that can make you more productive.

- 75-second load and unload cycle time
- Flexible, expandable automation in a compact footprint
- Space-saving options
- Equipped for any shop, ideal for short-run jobs
- Modular and expandable system that grows with your shop
- Vacuum load systems with thickness detection and sheet-separator features

SmartFlex COMPACT Warehouse*

The SmartFlex COMPACT Warehouse is specially designed to work seamlessly with the SmartFlex COMPACT Base Module to deliver more options than most other systems. Finished sheets can be fed back into the storage tower for later use or you can add a set of carts for timelier de-nesting.

- Up to 16 shelves in a single tower for maximum storage
- Offload back to tower, optional SmartStation, SmartFlow conveyor, or dedicated finished-goods tower

*Compact and Compact Warehouse not available in 4020 configuration

SmartFlex COMPACT Plus

Does your shop have a long, narrow space but you still want the ability to grow with your needs? Look no further than our SmartFlex COMPACT Plus.

- Narrower overall design for those shops requiring it
- Same fast, 75-second cycle time for maximum throughput
- Add a tower at a later date without expanding the slim footprint
- Configured to allow unfettered access to the load frame for manual loading of break-in jobs or smaller remnants
- Increase capacity even further by adding a second laser to the system

*Compact and Compact Warehouse not available in 4020 configuration
The River Navigation System delivers material-handling and inventory-tracking solutions for shops of all sizes and needs. This automation solution provides easy automation setup for small lots and enables scheduling for multiple product runs in a single shift.

- Maximize workflow
- Minimize labor
- Expands and accommodates for future growth

SMARTFLOW CONVEYORS
- Heavy-duty (1” full-sheet capacity) or standard-duty (¼” capacity)
- Standard length (34.4’) allows for offload of three full sheets of finished goods
- Facilitates lean manufacturing by de-nesting in the same order as cutting
- Fully automated and available in several low-footprint configurations
- Holds three full 5’ x 10’ sheets of material

NCELL AUTOMATION SOFTWARE
- Achieve the lowest cost per part and highest throughput
- Improve material utilization
- Simplify processes

SMARTSTORE TOWERS
- 6,600-lb. capacity per shelf
- Pallet-adapted configuration available for 7.5” of shelf spacing (optional)
- High-speed elevator
- Can easily be installed as a stand-alone without additional automation—store material more efficiently and free up floor space