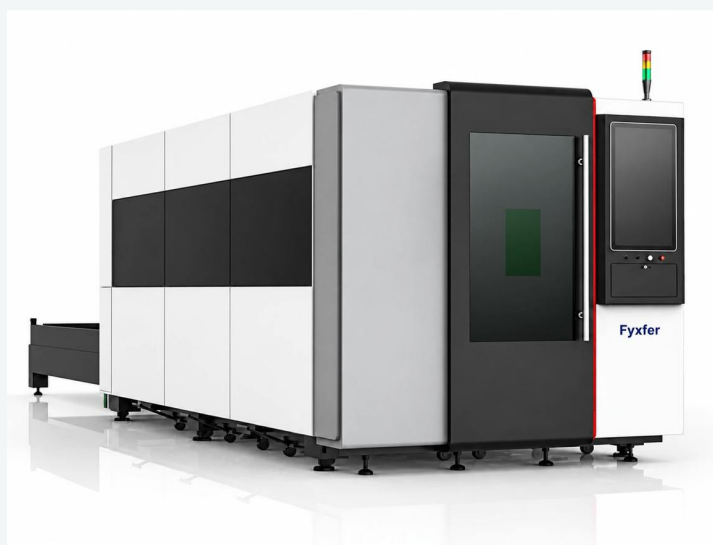


Fiber Laser Cutting Machines

Choose the cutting format around the parts you make, the way material is loaded and the production environment. The published range includes single-table, open-gantry, combined sheet-and-tube, custom semi-enclosed and fully enclosed layouts. Select the source, process and utilities only after the work envelope and required cut quality are defined.



FY-LCM01-C product visualization based on the published catalogue reference.

THREE DECISIONS BEFORE YOU SHORTLIST

01 Separate sheet and tube work

List normal sheet dimensions and any tube profiles, lengths and wall thicknesses. A combined layout deserves review when both workpiece types belong in the production plan, including their different handling needs.

02 Match layout to material flow

Compare loading access, lifting, storage and operator routes alongside machine footprint. Large sheets, tube support and an enclosure each change the space needed around the cutting area.

03 Specify the cut before power

Define material grade, regular thickness, smallest feature, edge quality and daily output. Review the matched source, assist gas, head and extraction using samples or a material-specific cutting proposal.

Compare five cutting layouts

OPTION / PLATFORM	WHEN TO SHORTLIST	CONFIRM BEFORE ORDERING
FY-LCM01-OS	Single-table format for workshop, prototype and mixed-batch sheet work.	Usable work area, loading route, table support, source/process match and open-zone protection.
FY-LCM01-G	Open gantry format for large sheets and accessible material loading.	Bed dimensions, lifting access, sheet handling, controlled access and full installation footprint.
FY-LCM01-OM	Combined sheet worktable and tube chuck arrangement for mixed fabrication.	Tube profile, wall, length, clamping/support, sheet size, programming and handling around both work areas.
FY-LCM01 custom semi-enclosed	Project-defined partial enclosure where access and protective layout need joint review.	Engineering definition of enclosure, access, work area and required protective measures.
FY-LCM01-C	Fully enclosed format for a defined cutting zone and planned production flow.	Door and table arrangement, handling clearance, extraction and protection in the supplied configuration.

Power is not a thickness guarantee

Cut quality depends on material grade, source, assist gas, speed and the required edge. Review the actual process; do not derive universal thickness claims from rated power.

Specifications and selection serve different jobs

Four existing printable sheets record configuration references for OS, G, semi-enclosed and C. This guide adds the cross-format decision path and explicitly includes the newer OM sheet-and-tube platform.

Prepare a useful application brief

Material and cutting duty

Specify alloy or grade, coating, normal and maximum thickness, and frequency of maximum-thickness work. Separate regular production requirements from occasional edge-start or trial cuts.

Part geometry and quality

Provide drawings or cutting files, smallest holes and features, contour requirements and edge acceptance. Identify any secondary finishing that the quotation must consider.

Sheet and tube envelope

List sheet dimensions; for tube work add section, length, wall thickness and support needs. Review usable cutting area separately from the overall machine footprint.

Loading and production flow

Describe lifting equipment, storage, finished-part removal, daily output and batch mix. Include access around enclosure doors, tables and tube supports before settling the workshop layout.

Source, gas and utilities

Request a matched laser source, head and process proposal. Confirm assist gas, cooling, electricity, extraction and destination supply requirements for the selected configuration.

Supply and acceptance

Agree controller/software, fixtures, consumables, installation responsibilities and protection scope. Define sample materials, measured features and the production test that will support acceptance.

A PRACTICAL ROUTE TO A CONFIRMED CONFIGURATION

01 Define

Submit representative parts, material grades, sheet or tube dimensions and the required finished edge.

02 Compare

Shortlist layouts using workpiece handling, usable area, protective arrangement and the available workshop space.

03 Validate

Review a matched source and cutting process, including sample quality, assist gas and expected production conditions.

04 Confirm

Approve the final layout, bill of supply, utility schedule and acceptance plan for the quoted machine.

Published powers and bed sizes describe reference or configurable machines, not guaranteed performance for every material. The semi-enclosed format requires project engineering. Final capacity, enclosure, source, utilities and compliance documents must match the quotation; product visualizations do not define a delivered bill of materials.

OFFICIAL REFERENCES

1. Five-format laser range
2. Sheet and tube platform
3. CNC process comparison
4. Existing configuration documents