

PROFILE PLUS

The proven laser cutting system



FARLEY LASERLAB

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The Profile Plus is a remarkably cost-effective Laser Cutting System with proven reliability and profitability. It includes the latest productivity features generally only found on high-end models. This makes the Profile Plus the best choice for Own Equipment Manufacturers (OEM) who want to bring their laser cutting in-house: from prototyping to full 24x7 production. It will also allow cost-sensitive contract cutters to start up or expand without impairing their cash-flow and future growth potential.

Easy to access, easy to operate

With any system, inevitably at some stage access will be required to the cutting table, either for small run jobs or when a part tips up and needs to be removed. The Profile Plus features the accessibility of our Cantilever Design combined with a Light Curtain and bumper strips Safety System (full safety enclosure is optional). Access to the table is provided along the side as well as from the end of the table. This high level of access to the table and cutting head simplifies correction/adjustment of cutting parameters and makes set up for small jobs easier and faster.

Australian engineering, built to last

The award-winning Cantilever Arm of the Profile Plus is both rigid and light. Farley LaserLab uses Finite Element modelling techniques to design and further optimize the machine structure. Most of the earliest models, Profiles are still in operation and generating profit for their owners; steady performance for over fifteen years!

Accuracy, consistency, reliability

The Profile Plus offers the proven reliability and accuracy of low-maintenance precision ball-screw drives and AC digital servo-motors.

Farley LaserLab, the right solution for your profiling needs

Farley LaserLab combines proven engineering excellence, years of industry experience and significant financial strength to design and manufacture cutting systems for world-wide applications. As designer and manufacturer of high-tech laser, plasma, oxy/fuel, drilling and waterjet profile cutting systems,



Laserhead

Quick-change lenses are standard, with easily adjustable focal lengths.

Farley LaserLab is in a unique position to provide unbiased consultation on the best (combination of) technologies most suitable for your application.

The practical configuration

The system offers an effective Cutting Area of 1500 x 3000mm, (5' x 10') which is a readily available sheet size in any material/thickness. The system is a "full flying optics" design, which means the cutting head moves along both X and Y-axis; hence the workpiece remains stationary for maximum long-term accuracy.

High-speed loading and unloading

The Profile Plus is supplied with a High Speed Transfer Table which is loaded and unloaded at the rear of the machine. The Transfer Table can be enhanced with facilities to load plate to or from pallets or storage towers. This FMS load/unload system is a proven option which automatically and efficiently loads sheet from a pallet and unloads the cut parts and skeleton to an unload pallet.

Versatility plus

The Profile Plus can be supplied with a wide range of Laser Resonators depending on the work requirement.

The Transfer Table comes with integrated Fume Extraction Channels & Ducting in order to keep the working area and factory clean. The system also comes standard with pull out drawers. Optional rotary axis equipment is available for pipe and tube cutting work.

Consultancy, service, training and support

When you invest in a machine from Farley LaserLab, you can rely on our Service Department as well as on our world-wide network of Certified Sales/Service Agents. Through them you can directly call on the knowledge of the people who designed your system. The Farley LaserLab Sales Consultants understand your application and can tailor our systems to your requirements. Modifications and retrofits to existing machines can be made to suit changed requirements which means you can rely on our long term support for your business!



Latest generation control

The Profile Plus uses one of the most user friendly controls available. This proven Laser CNC has evolved over more than 20 years.

PROFILE PLUS STANDARD SPECIFICATIONS

Cutting Area 1500 x 3000mm / 5' x 10" (without re-positioning)
Full Flying Optics (3-axis: sheet remains stationary)
Maximum Accessibility to Cutting Area
Low weight/high rigidity Cantilever Arm
Automatic Transfer Table (12 secs change-over)
Integrated Fume Extraction Ducting
Material Clamps & Replaceable Supports
Safety System (Light Curtain and bumper strips)
Precision Ball-Screw Drives (X, Y and Z-axis)
Easy-Focus Cutting Head
High performance Nozzles (improved cut with less gas)
Quick-Change Lenses (5" and 7.5" focal)
Non-Contact Height Following System for metals
Contact Height Following System for non-metals
Integral Cutting Head Crash Protection
Programmable Low Pressure Cutting
N2 High Pressure Cutting
Pierce Detection
Pierce on the Fly & Blow Piercing
High performance CNC Control System
Mobile CNC Workstation & Hand Pendant
Work Area Light
Lost-Cut Retrace Mode
On-line internet Diagnosis and Monitoring
Expert Database
Minimum keystroke operation
Simultaneous programming and machine operation
Lasers: Rofin Sinar CO₂ Slab Laser 1.5 - 3.5 kW
PRC Fast Flow Laser 1.0 - 4.0 kW Dual-Circuit Water Chiller
Direct Water-Cooled External Fold Mirrors

Materials handling

For ultimate efficiency, the loading of material and unloading of cut parts must be automated. The Profile Plus has been developed to allow easy integration into a Flexible Manufacturing System (FMS).

From simple loading systems to multiple storage, off-load pallets and multiple machine material servicing, the Profile Plus can either be supplied (or retrofitted) with a wide range of materials handling solutions.

Height following and non-contact laserhead

Precision height following for consistent, quality cutting.



PROFILE PLUS OPTIONS

Rotary Axis for cutting of tube
Laser Air Kit - suitable set of quality compressor, dryer, receiver and filters
Application software for nesting, production scheduling, cost estimating
CNC controlled focal height
Fume Extraction Fan & Dust collector
FMS - automatic load/unload system
Warranty Extensions
Maintenance Agreements
Modification to optimize the system for cutting of Acrylics, MDF etc
Full range of consumables: Lenses, Nozzles, Safety Glasses etc
Full enclosure safety system

PROFILE PLUS PERFORMANCE DATA

The HG Farley Laserlab Profile Plus system offers

- Proven Reliability
- Maximum Accessibility
- High Return On Investment (ROI)
- Low Cost Of Ownership (COO)

Key performance figures

Traverse speed: 50 meters / 2000" per min

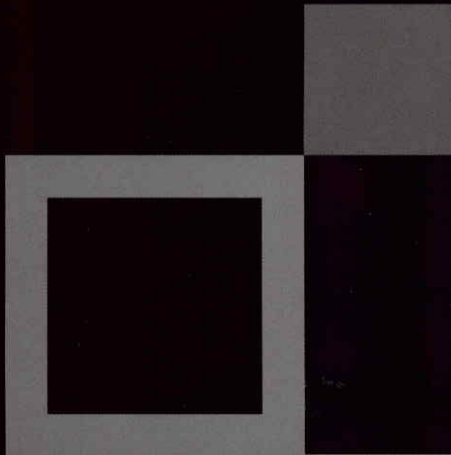
Acceleration: 0.5 G

Positional accuracy: +/- 0.05 mm / 0.002"

Repeatability: +/- 0.02 mm / 0.001"

Accuracy is determined in a climate controlled environment

Actual performance will depend on operating conditions



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Due to ongoing product development Farley LaserLab reserves the right to change specifications without notice. All representations about performance are subject to operating conditions.