

Innovation & Solution with Laser

Create a New Value with Our Customers, Using the Latest Optical and Laser Technology

Business Outline

Provide services of laser & optics application equipments and technologies.

●Development / design / fabrication of laser application equipment

From business planning to developing/design/producing the laser fine processing machine and unit, using our accumulated laser processing technology and data base.

●R&D for Laser Applications

Develop new laser application technologies for measurement and fabrication, using the equipments in our laboratory.

●Contract Laser Processing

Contract laser processing experiments, using our kinds of laser micro-processing machines and database.

●Consulting

Consulting laser fine fabrication technology and optical technology, for developing both customer designed and self-designed laser application equipments.

Engineering Technologies

Laser & optics technologies, as well as their equipment manufacturing technology.

■Manufacturing Equipment Technology

Development / design / fabrication of laser application equipment and optical equipment

Mechanical design technology

Electrical / control / software technology

Safety standards compliant design

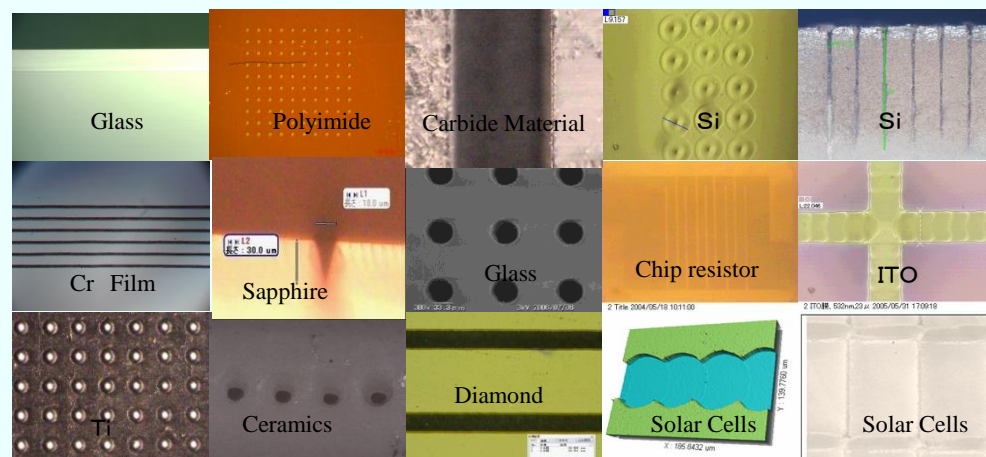
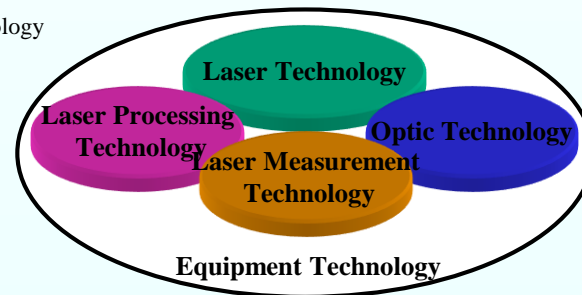
■Optic Technology

■Laser Technology

■Laser Processing Technology

Laser Processing Data Base

■Laser Measurement Technology



Laser processing Applications

In-company Equipment

The equipment for developing / design / production / evaluation of laser application machine and laser processing experiment

●Processing Experiment Equipment

X-Y-Z stage (high precision stage, high speed stage), galvanometer scanner, coaxial observation unit, focus unit (lens, objective lens, F θ lens), beam shaper, attenuator,

●Observation Microscope, Measuring Microscope

●Laser Beam Profiler

●Design: 3DCAD (Solid Works), Optics Design CAD

●Optical Table Supported on Vibration Isolation System

●Optical Assembly Clean Bench



Delivery Record Examples

•Laser Micro-processing Equipment (DUV~10 μ m, fs~CW)

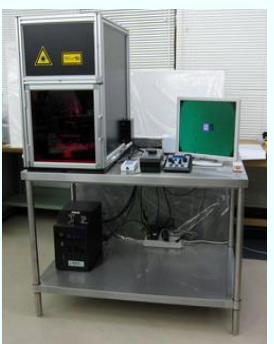
- Laser Repair
- Laser Patterning
- Laser Marking
- Laser Texturing
- Laser Scribing
- Laser Trimming
- others

•Laser-related Unit and Equipment

- Laser Embedded Scanning Unit
- X-Y stage (High precision 0.5 μ m, ~High speed 1m/s)
- Galvanometer scanning device
- High-speed auto-focus device
- Beam Shaping
- Auto-alignment Equipment
- Coaxial Observation Unit
- Beam Spot Profiler
- Multi-spot Focusing Unit
- High-power Laser Attenuator
- others



Laser Fine Processing Machine



Laser Repair Machine



Laser Embedded Scanning Unit



Coaxial Observation Unit



Beam Spot Profiler



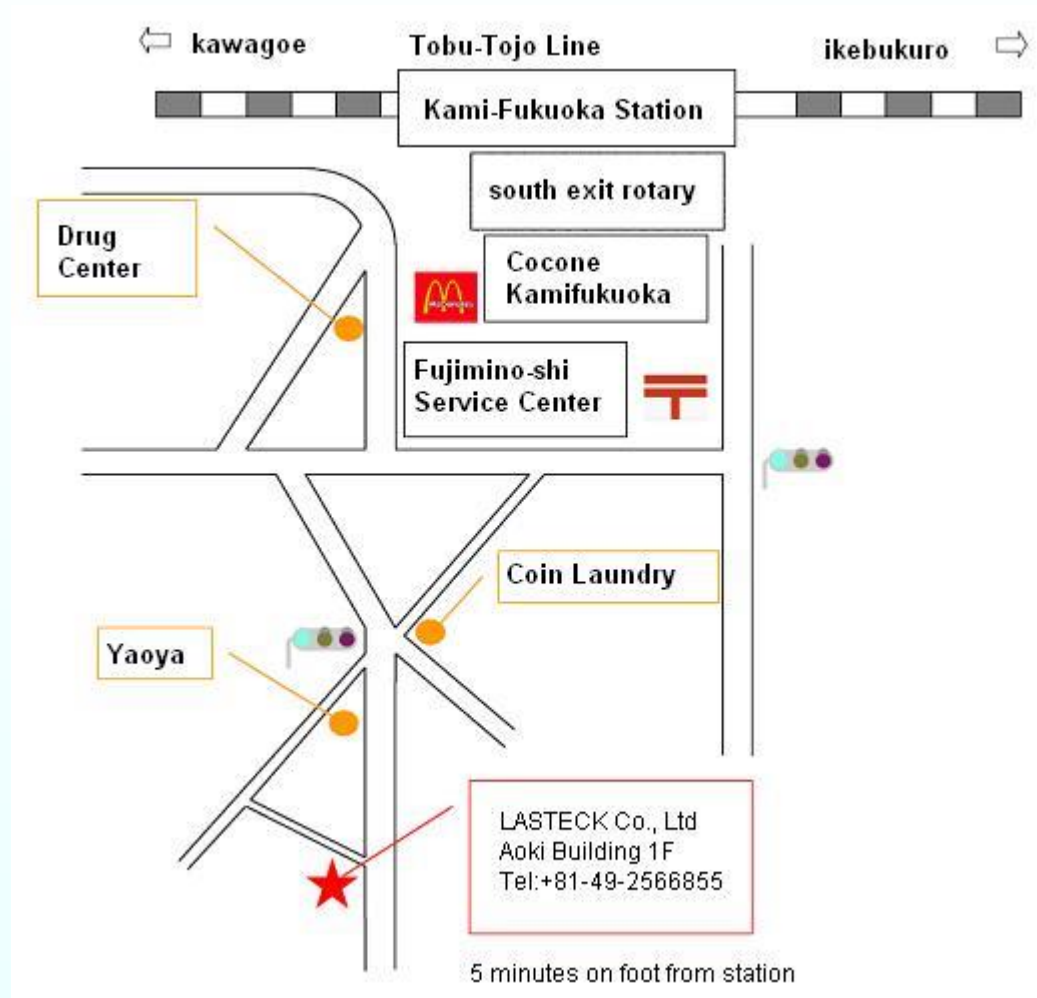
High-power Laser Attenuator



Multi-spot Focusing Unit

Laser Application System Technology

Laser Application System Technology



Access Map

Nearest Station : the Kami-Fukuoka Station on the Tobu-Tojo Line

Approximately 5 minutes on foot from the west exit of the station

Laser Application System Technology

Company Guide

LASTECK Co., Ltd

Aoki Building 1F

2-1-25 Nishi, Fujimino-shi

Saitama, 356-0005 Japan

Tel:+81-49-2566855 Fax:+81-49-2566856

sales@lastech.co.jp URL: <http://www.lastech.co.jp>

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