



GeKaLaser®

Perfect and Clean
Welding Technology

**Impeccable
Combination**



Why GeKaLaser P Series and Fiber Laser Welding

1

Simple Use

No professional knowledge required, easy to use.

2

High Welding Efficiency

Up to eight times faster than conventional welding methods

3

Minimum Consumable Consumption

Up to 60% less consumable material consumption compared to other welding methods

4

Excellent Welding Effect

100% penetration, robust, trouble-free welding without damaging even thin materials

5

High Energy Efficiency

Photoelectric conversion efficiency of laser is up to 30% lower in energy consumption

6

Comfortable and Flexible Use

P series fiber laser welding machines offer comfortable use due to their portability

7

Without Levelling

No post-welding grinding required with continuous welding mode

8

Welding, Cutting and Cleaning

With the H Series, welding and cleaning can be done, so solution etc. You do not need to use chemicals

IMPECCABLE ENGINEERING

Thanks to the system we have developed, we convert the lost energy into power and return it as maximum efficiency, stable operation and long life.



CE

**CERTIFIED
INNOVATIVE CONCEPT**

130 cm



100 cm

Difference of Laser Welding from Conventional Welding Methods

Function	GeKaLaser	Conventional Function
Material Processed Temperature	Low	Very High
% of Deformation in Material	%5	%90
Weld Strength in Material	High	Low
Post Welding Work	None or 10% Grinding	Grinding, Polishing, Smoothing
Welding Speed	90% (Up to 8 x Faster)	%10
Difficulty of Use	Simple and No - still required	Complex and Skill Required
Consumables Expense	Less	High
Operator Safety	Top Level	No
Weld Width	Adjustable 0.8 - 5 mm	Fixed
Wire Feed	Usable With or Without Feeding	Yes
Resource Influence	Adjustable 0 mm - 10 mm	Fixed
Energy consumption	Low	High
Eco-Friendly	Yes	No
Long Lasting	Yes	No

Torch Cable Housing Area

Torch Cable Housing Area

Turkish Smart Control Panel

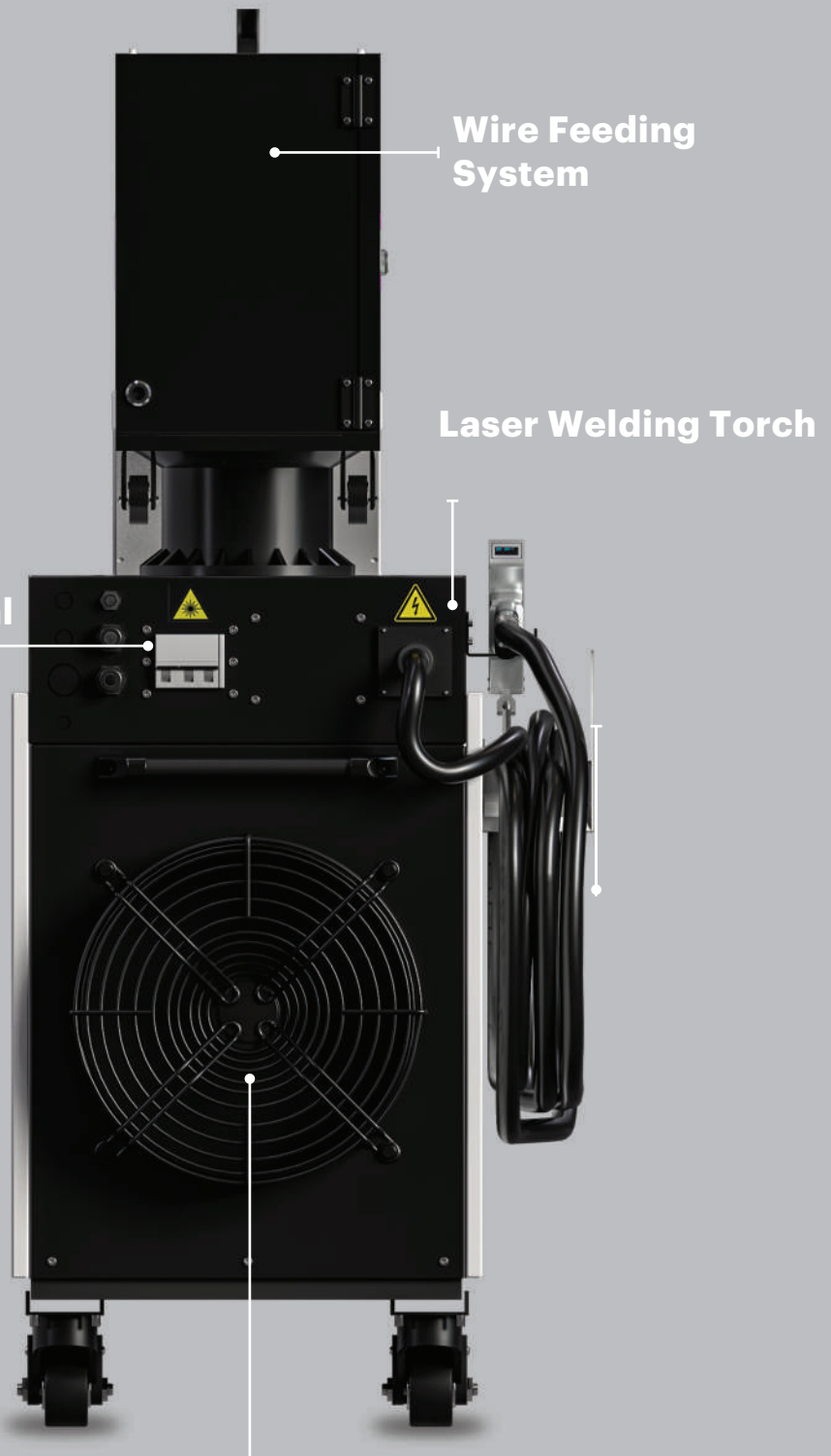
GeKaLaser®

Durable Body

Warning Leds

HIGH QUALITY LASER

**Life of 100,000 Hours, Fully Hand- made
High efficiency**



Wire Feeding System

Laser Welding Torch

Superior Quality Switchgear Material

Intelligent Water Cooling System

Specially designed water cooling systems for Fiber Laser, compatible with all climates



SMART CONTROL SYSTEM

- 7 Different Welding Modes
- Simplified User Interface
- Turkish Language Support
- Different Types of Registration
- Ramp Stop And Start
- Spot-Weld
- Detailed Error Screen
- Led Warning System
- Laser Light Width Up To 5 mm
- Adjustable Laser
- Cutting Mode
- Cleaning Mode
- Safe Stop Emergency Shutdown
- Advanced PILZ Security System
- Durable Industrial Display Screen
- 0-30 Hz Frequency Range
- Adjustable Throttle Stop/ Start

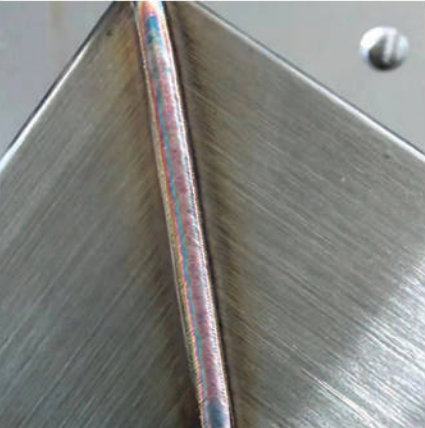
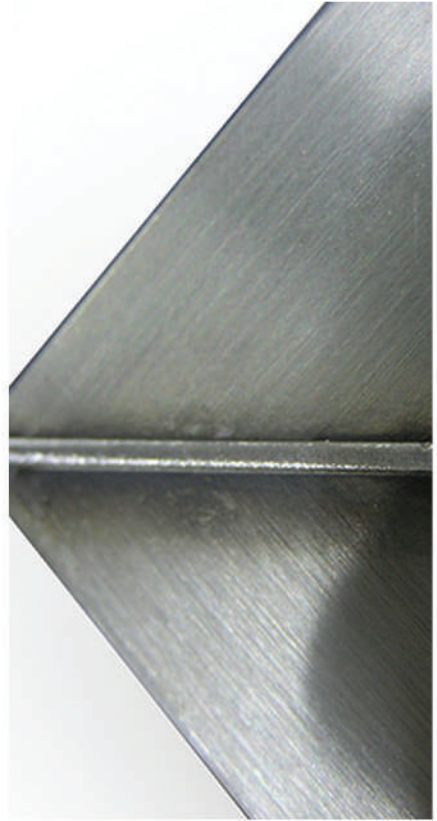
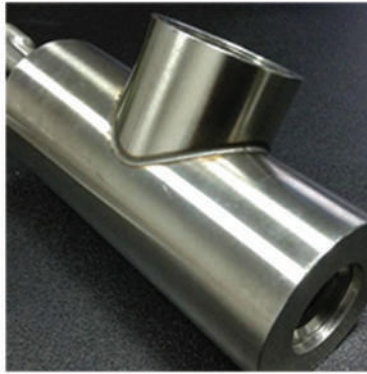
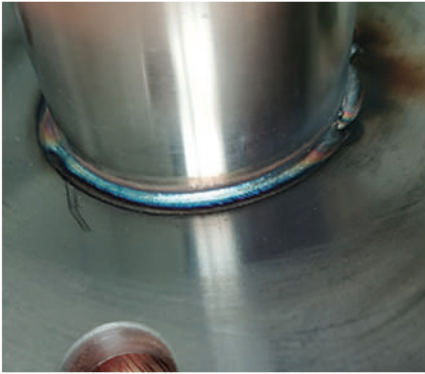


MINIMALIST
DESIGN

EASY
PORTABLE

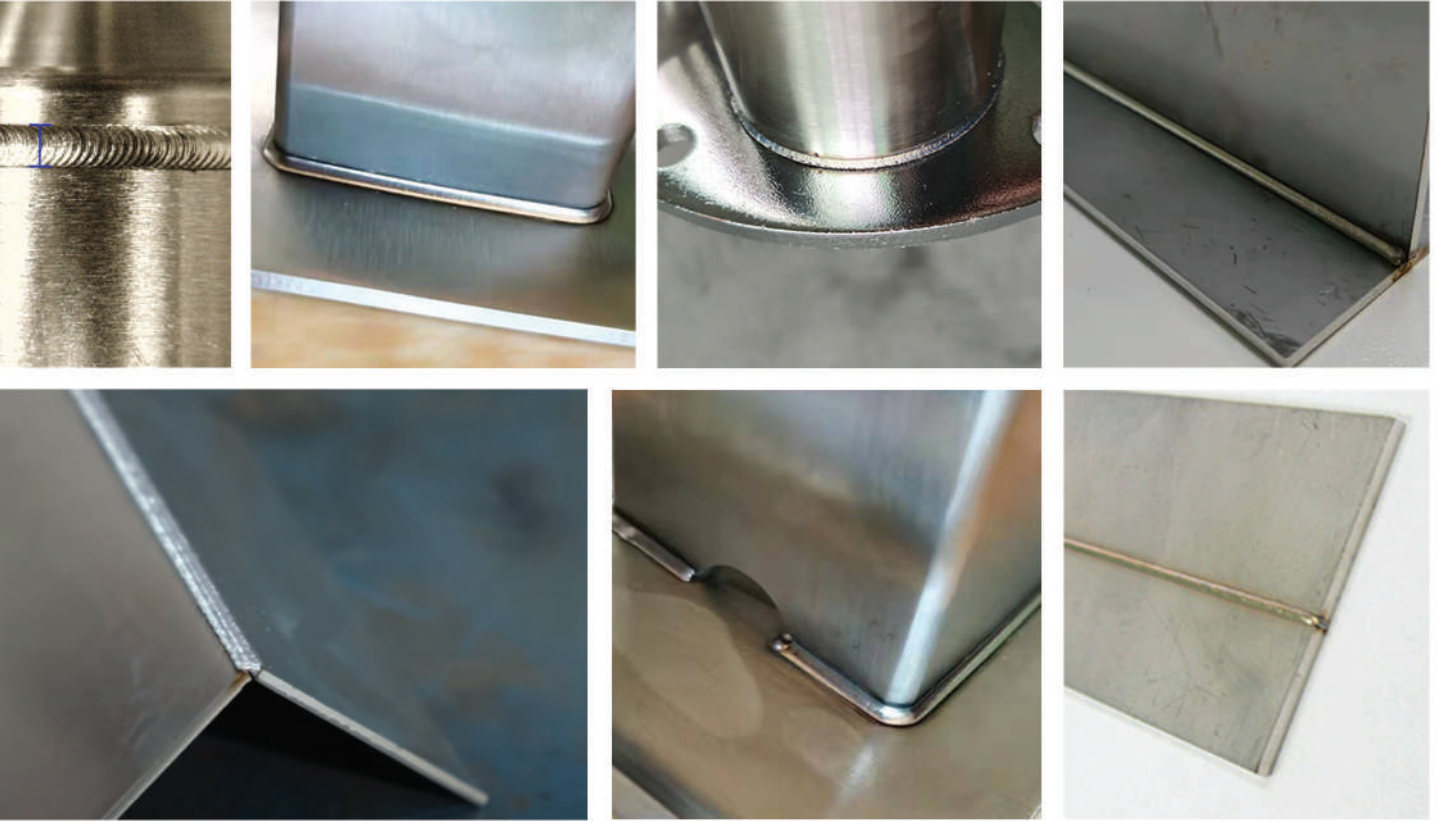
ECO-
FRIENDLY

EXAMPLES OF APPLICATION



SECTORS

- Industrial Kitchens
- Aluminum & Material
- Shelf and Scaffolding Manufacturing
- Machinery Manufacturing
- Ladder Sector
- Balustrade And Window Manufacturing
- Advertising Industry
- Lighting Industry



GeKaLaser P-1000

Installation and
Training Service



GeKaLaser P-1000

TECHNICAL PARAMETERS

Machine Type	Hand Type
Laser Power	1000W/1kW
Laser Welding Type	Fiber
Point Size	0.2-5mm
Laser Wavelength	1080nm
Pulse Width	≤10ms
Max Energy Used	6kW
Cooling Type	Water Cooling (Internal)
Fiber Cable Length	8mt
Wire Feeding System	Internal
Cleaning Feature	Max. 5mm
Cutting Feature	Max. 3mm
Warranty Period	2 Years

WELDING PARAMETERS

WELDING TYPE	BLACK MATERIAL	STAINLESS	ALUMINIUM	COPPER/ BRASS
Without Wire	5 mm	4 mm	2 mm	1 mm
With Wire	8 mm	6 mm	3 mm	1,5 mm
Cutting	4 mm	2 mm	1 mm	0,5 mm

GeKaLaser P-1500

Installation and
Training Service



GeKaLaser P-1500

TECHNICAL PARAMETERS

Machine Type	Hand Type
Laser Power	1500W/1,5kW
Laser Welding Type	Fiber
Point Size	0.2-5mm
Laser Wavelength	1080nm
Pulse Width	≤10ms
Max Energy Used	8kW
Cooling Type	Water Cooling (Internal)
Fiber Cable Length	8mt
Wire Feeding System	Internal
Cleaning Feature	Max. 5mm
Cutting Feature	Max. 6mm
Warranty Period	2 Yil

WELDING PARAMETERS

WELDING TYPE	BLACK MATERIAL	STAINLESS	ALUMINIUM	COPPER/ BRASS
Without Wire	7 mm	6 mm	2 mm	2 mm
With Wire	10 mm	8 mm	4 mm	2 mm
Cutting	6 mm	4 mm	2 mm	1 mm

GeKaLaser P-2000

Installation and
Training Service



GeKaLaser P-2000

TECHNICAL PARAMETERS

Machine Type	Hand Type
Laser Power	2000W/2kW
Laser Welding Type	Fiber
Point Size	0.2-5mm
Laser Wavelength	1080nm
Pulse Width	≤10ms
Max Energy Used	10kW
Cooling Type	Water Cooling (Internal)
Fiber Cable Length	8mt
Wire Feeding System	Internal
Cleaning Feature	Max. 5mm
Cutting Feature	Max. 8mm
Warranty Period	2 Yil

WELDING PARAMETERS

WELDING TYPE	BLACK MATERIAL	STAINLESS	ALUMINIUM	COPPER/ BRASS
Without Wire	10 mm	8 mm	2 mm	3 mm
With Wire	14 mm	10 mm	6 mm	3,5 mm
Cutting	8 mm	5 mm	3 mm	1,5 mm



GeKaLaser[®]