



LASER WELDING MACHINES

- Eco-Friendly Laser Welding Technology with Low Energy Consumption
- High Welding Efficiency
- Perfect Welding Joints





Joining. For life.

WHY

GeKaLaser

WELDING MACHINES ?

1. Easy to Use

No professional knowledge required, easy to use

2. High Efficiency

Up to 8 times faster than traditional welding methods

3. Min. Consumable Consumption

Up to 60% less consumable consumption than other welding methods

4. Excellent Weldability

100% penetration and welding without deformation even on thin materials

5. High Energy Efficiency

Up to 30% lower energy consumption thanks to the photoelectric conversion efficiency of the laser technology

6. Comfortable and Flexible Use

Fiber laser welding machines offer comfortable use due to their portability

7. No Burr Removal Required

No post-weld grinding required with continuous welding mode

8. 3IN'1 Welding, Cutting, Cleaning

It can perform welding, cutting and cleaning, so there is no need to use chemicals for cleaning after welding operation

DIFFERENCES OF LASER WELDING FROM TRADITIONAL WELDING METHODS

FUNCTION	LASER WELDING	OTHER WELDING METHODS
Heat Input	Low	High
Deformation in Material (%)	%5	%90
Weld Strength	High	Low
Rework	No need or 10% Grinding	Grinding, Polishing
Welding Speed	%90 (up to 8 times faster)	%10
Difficulty of Use	Easy	Hard
Consumable Consumption	Low	High
Operator Safety	High	Low
Weld Width	Adjustable 0.8mm - 5mm	Constant
Wire Feeding	With or Without	With
Welding Penetration	Adjustable 0mm - 10mm	Constant
Energy Consumption	Low	High
Eco-Friendly	Yes	No
Durable	Yes	No



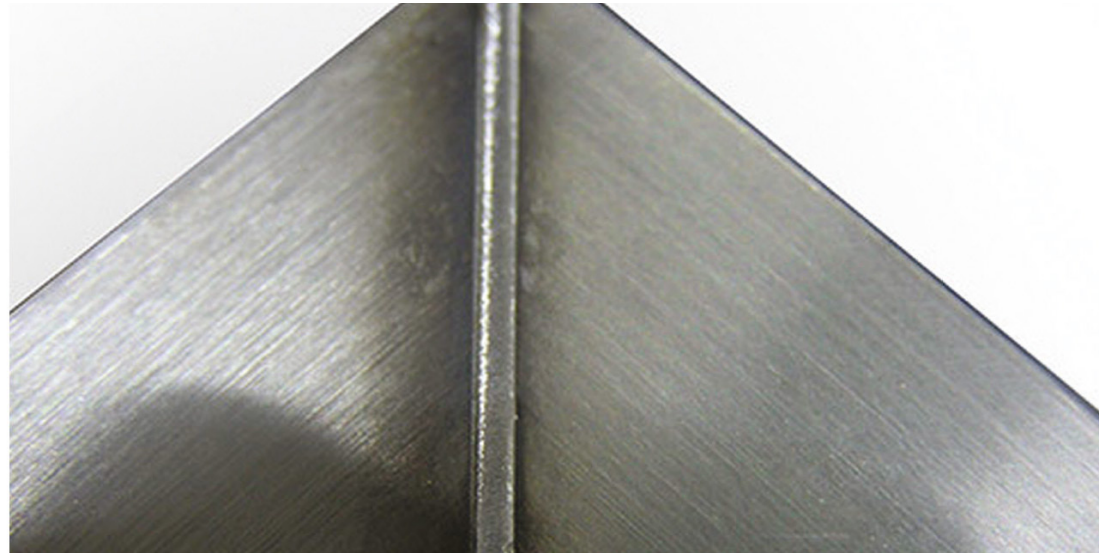
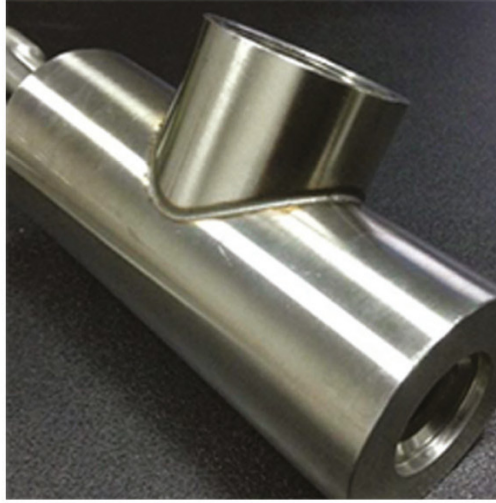




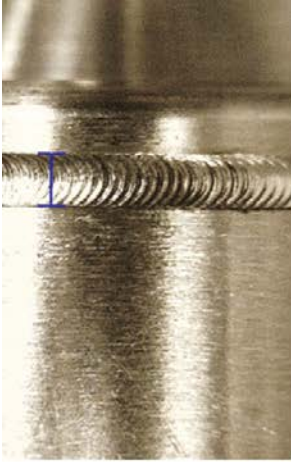
SMART CONTROL SYSTEM

- 7 Different Welding Modes
- Simplified User Interface
- Turkish Language Support
- Ability to Record Different Programs
- Ramped Laser Stop and Takeoff
- Tack Welding Mode with Adjustable Intervals
- Detailed Fault Screen
- Led Warning System
- Laser Beam Width up to 5mm
- Adjustable Laser
- Cutting Mode
- Cleaning Mode
- Safe Stop : Failure Shutdown
- Advanced PILZ Security System
- Durable Industrial Display
- 0-30Hz Frequency Range
- Adjustable Gas Stop and Start

APPLICATION EXAMPLES



SECTORS



- Industrial Kitchen Manufacturing
- Aluminum & Steel Manufacturing
- Furniture Rack and Scaffolding Manufacturing
- Machinery Manufacturing
- Ladder Manufacturing
- Railing and Window Manufacturing
- Advertising Industry
- Lighting Industry



GeKaLaser 1000

TECHNICAL PARAMETERS	
Machine Type	Handheld
Laser Power	1000W/1kW
Laser Welding Type	Fiber
Size Of Light Spot	0.2-5mm
Welding Penetration	5mm
Laser Wavelength	1080nm
Pulse Width	10ms
Max Energy Used	6kW
Cooling Type	Water Cooling (Internal)
Fiber Cable Length	8mt
Wire Feeder System	Internal
Transformer System	Internal
Cleaning	Max. 5mm
Cutting	Max. 3mm
Warranty	1 Year

WELDING TYPE	MILD STEEL	STAINLESS STEEL	ALUMINUM	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 1500

TECHNICAL PARAMETERS	
Machine Type	Handheld
Laser Power	1500W/1,5kW
Laser Welding Type	Fiber
Size Of Light Spot	0.2-5mm
Welding Penetration	7mm
Laser Wavelength	1080nm
Pulse Width	10ms
Max Energy Used	8kW
Cooling Type	Water Cooling (Internal)
Fiber Cable Length	8mt
Wire Feeder System	Internal
Transformer System	Internal
Cleaning	Max. 5mm
Cutting	Max. 6mm
Warranty	1 Year

WELDING TYPE	MILD STEEL	STAINLESS STEEL	ALUMINUM	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 2000

TECHNICAL PARAMETERS	
Machine Type	Handheld
Laser Power	2000W/2kW
Laser Welding Type	Fiber
Size Of Light Spot	0.2-5mm
Welding Penetration	10mm
Laser Wavelength	1080nm
Pulse Width	10ms
Max Energy Used	10kW
Cooling Type	Water Cooling (Internal)
Fiber Cable Length	8mt
Wire Feeder System	Internal
Transformer System	Internal
Cleaning	Max. 5mm
Cutting	Max. 8mm
Warranty	1 Year

WELDING TYPE	MILD STEEL	STAINLESS STEEL	ALUMINUM	COPPER I 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

 **Gedik Holding**
since 1963...

GEDİK



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