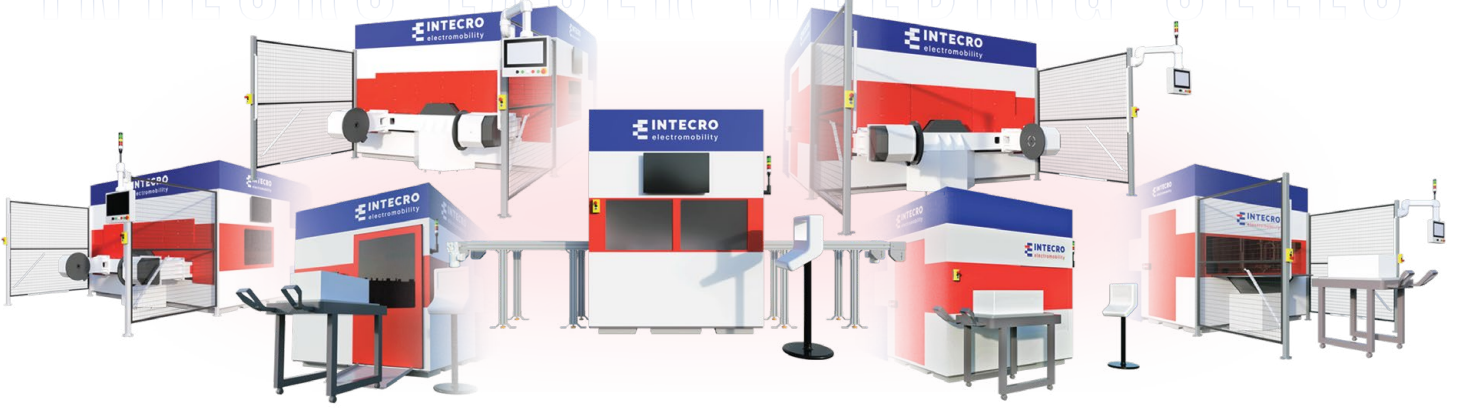




INTECRO LASER WELDING CELLS



THIS IS DIFFERENT

NOW



Compact and Flexible



Standard Solutions



Customizable Design



**Flexible System
Compact Structure**

FEATURES

- Easy to use all laser brands and beam delivery heads.
- Customizable to various applications and materials, ensuring optimal performance
- Expert advice for choosing the right equipment based on proven implementations
- INTECRO guidance on best equipment selection
- Optional real-time weld measurement
- Ensures weld quality and prevents part failures and recalls
- Increases efficiency and accelerates time to the first part
- Scalable and flexible machine size
- Analyzes individual cell positions in batches, enhancing precision and speed
- Combines optical sensors and AI Technologies to detect and rework weld defects
- Adaptable to various types of parts and different battery modules, packs, and cells formats
- Streamlined procurement and implementation process
- High-power laser with automation and vision features to maximize duty cycle

BENEFITS



Customize: Ensures the best match for specific needs, enhancing productivity and reducing setup time. INTECRO guidance on best equipment selection



Optimized Performance: Ensures the most effective equipment is used for each specific application. Optional real-time weld measurement



Increased Flexibility: Custom tooling solutions improve part quality and consistency.



Speed and Precision: Reduces cycle time while maintaining accuracy by analyzing multiple battery cells and diverse parts.



Reduced Schedule Risk: Expert advice accelerates implementation and minimizes delays.



Quality Assurance: Continuous monitoring ensures high-quality welds, reducing the risk of part failures.



Cost Savings: Prevents defective parts from progressing through production, saving material costs.



Efficiency: Minimizes downtime and maximizes laser uptime by reducing the time required for vision

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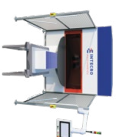
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Nilüfer 16265 Bursa/TÜRKİYE



Type of Welding Cell

Conveyor

Trolley

Rotary Table

Linear Table

I-Type Positioner

H-Type Positioner

Type(s) of Robot	6-Axis Industrial Robot(s)											
Robot(s)*	20 to 50 kg Payload Robot (s)											
Robot Number	1	1	1	1	1	1	2	1	2	2	2	
Laser Power / Robot**	1 - 6 kW	1 - 6 kW	1 - 6 kW	1 - 6 kW	2 - 6 kW	2 - 6 kW	2 - 6 kW	2 - 6 kW	2 - 6 kW	2 - 6 kW	2 - 6 kW	
Tooling & Clamping	Operation-Specified Design											
Cooling	Water Cooling (Chiller)											
Workstation Number	1	1	2	1	2	2	2	2	2	2	2	
Total Welding Area	1200 × 800 mm	1200 × 800 mm	1200 × 700 mm	1200 × 800 mm	1600 × 1200 mm	1600 × 1200 mm	2000 × 1200 mm	1600 × 1200 mm	2000 × 1200 mm	2000 × 1200 mm	2000 × 1200 mm	
Maximum Workpiece Weight	450 kg	450 kg	400 kg / side	450 kg	750 kg / side	750 kg / side	1000 kg / side	750 kg / side	750 kg / side	1000 kg / side	1000 kg / side	
Part Loading Options	Manual / Automatic											

Cell Dimension (L × H × W)***	2600 × 2750 × 2100 mm	2600 × 2750 × 2100 mm	2600 × 2750 × 2100 mm	2600 × 2750 × 2100 mm	3850 × 2750 × 2750 mm	4250 × 2750 × 2750 mm	3850 × 2750 × 2750 mm	4250 × 2750 × 2750 mm
General Dimension (L × H × W)***	4000 × 2750 × 3000 mm	3500 × 2750 × 4250 mm	3500 × 2750 × 6000 mm	3500 × 2750 × 4250 mm	4600 × 2750 × 6750 mm	5000 × 2750 × 6750 mm	4600 × 2750 × 6750 mm	5000 × 2750 × 6750 mm
Weight (Excluded Equipment)	5.000 kg	5.000 kg	6.500 kg	6.000 kg	8.000 kg	10.000 kg	9.000 kg	11.000 kg
Safety	Class-1 Laser Safe Interlocked Doors							

Power Supply	480V / 60Hz or 400V / 50Hz							
Power****	30 kW	30 kW	30 kW	30 kW	30 kW	60 kW	30 kW	60 kW
Communication	ProfiNet, EtherCat or Similar							
Control Unit	HMI Operator Panel							

*Higher payload robots could be used according to the weight of laser welding head.

**Depending on the welded materials' thicknesses, power of laser source may vary.

***Dimensions represent standard configurations and might be adjustable according to customer requirements.

****Is estimated by considering 6 kW laser power / robot configuration.

