POWER TECH
ENGINEERS

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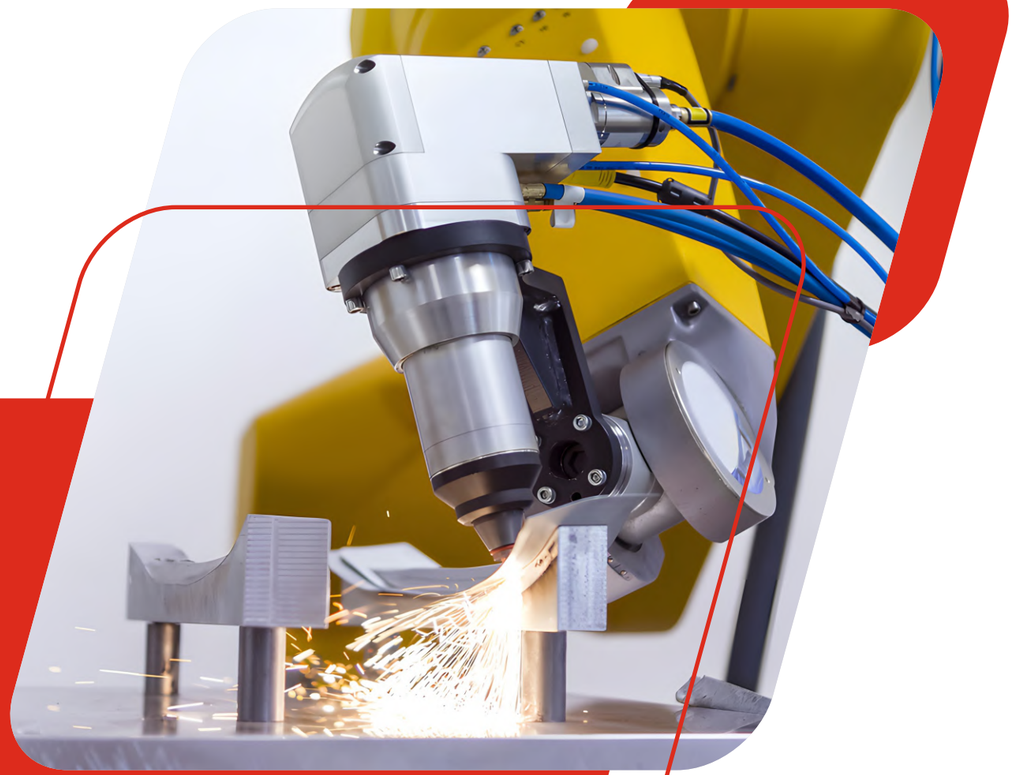

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ISO 9001:2015 CERTIFIED COMPANY

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ADVANCED CUSTOMISED
LASER / MIG SPMs &
ROBOTIC AUTOMATION
SOLUTIONS

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POWER TECH ENGINEERS

ABOUT US

Powertech Engineers is a professionally managed technology company delivering world-class solutions in Laser Systems, Robotic Welding, Robotic Cutting, and Industrial Automations. Since Our inception, We have built a reputation for Engineering Excellence, Operational Discipline, and Customer-Centric Innovation—positioning ourselves as a Trusted Partner for modern manufacturing enterprises.

Driven by strong design capability, precision manufacturing, and a commitment to technological advancement, We develop and integrate high-performance automation systems that meet the evolving needs of today's industrial landscape. Our portfolio spans from Latest Teach Free – Drawing Free – Robotic Intelligent Welding System, Robotic Laser / MIG Welding Systems, Robotic Laser Cutting Systems, Robotic Machine Tending System, Laser Scribing System, Laser Cutting Systems, Laser Welding Systems, Laser Marking Systems, Welding Tables and Welding Accessories, and much more. Each engineered to deliver reliability, accuracy, and long-term value.

At ***Powertech Engineers***, We operate with the efficiency, governance, and quality benchmarks of a top-tier engineering organization. Every system we build follows structured processes, stringent quality control, and standardized engineering methodologies that ensure consistency across all deployments. Our teams combine deep domain expertise with real-world application understanding, enabling us to deliver turnkey solutions that transform productivity, enhance quality, and optimize operational performance.

We serve a broad spectrum of industries—construction, automotive, fabrication, medical, agriculture, architectural, plastics, heavy engineering and much more — supporting them in their transition toward digitalization, automation, and Industry 4.0 adoption. Through Our solutions, customers benefit from reduced production costs, higher throughput, improved process control, and better resource utilization.

What differentiates us is Our unwavering focus on delivering **technology that is dependable, scalable, and intelligently engineered.** At Our Company, **Excellence isn't just a goal; It's a standard We consistently uphold to meet the needs of Our Valued Clients**. With strong post-installation support, long-term partnerships, and a continuous drive for innovation, ***Powertech Engineers*** stands as a reliable force in Global Advanced Manufacturing Ecosystem.

CONTENT

WeldXpert PRO

No Teaching. No Drawing. Just Welding.
Intelligent Robotic Welding Autonomy

Engineered, Integrated and Commissioned by ***Powertech Engineers***

WeldXpert PRO is a fully integrated industrial robotic welding solution engineered for precision, scalability, and high-duty continuous production. The platform delivers next-level scan-driven path intelligence, torch posture autonomy, and multi-axis coordinated motion — eliminating manual robot teaching, part drawings, and conventional programming delays from production welding.

With integrated 3D Laser Scanner accompanied with laser seam tracking, real-time deviation correction, offline digital-twin simulation, and an intelligent welding-technique database.

Perception, Digitization & Joint Definition

- Laser/structured-light scanning captures live workpiece geometry, producing a high-density 3D point-cloud of weld topology and joint contours.
- Advanced algorithms reconstruct a true digital model from scanned data, classify joint types, and automatically determine weld-edge continuity even on irregular or deformed assemblies.
- Proprietary path gen engines analyze geometry, predict torch accessibility, plan posture transitions, and auto-generate weld-optimized motion toolpaths.

Scalable Robot Mounting & External Axis Ecosystem

Powertech Engineers deploys robots in flexible industrial mounting formats to match weld envelope and accessibility:

- 6-Axis Fixed Base, 7-Axis Floor Rail, Cantilever Linear Mount (7/8/9-Axis), Robot + 2-Axis Rotate-Tilt Positioner:
- Max Cell Configuration: Robot + 3 gantry Axis + 2 rotate-tilt Axis

Adaptive Welding & Process Governance

- Multi-layer, multi-pass deposition control for thick industrial joints with automatic:
  - Torch work & lead angle tuning
  - Pass sequencing and bead stacking strategy
  - Travel speed modulation based on curvature, gap, and thermal history
- Closed-loop seam tracking continuously corrects path offsets (±1 mm real-time compensation), suppressing deviation from thermal pull, plate bow, fit-up shift or scanning reconstruction uncertainty.

Calibration, Simulation & Industrial Safety

- Self-calibrating TCP alignment ensures true weld contact point alignment.
- Coordinate frame alignment unifies robot base,scanner space,gantry reference plane,and part motion frame.
- 1:1 digital-twin simulation verifies:
  - Torch reach feasibility
  - Collision prediction
  - External axis limits & singularity avoidance
  - Weld cycle time estimation
- Two-hand start permissives
- Robot-system motion handshake

Production Deployment Strength

Optimized for:

- Structural fabrication and beam welding
- Tower, boom, and over-dimension weld envelopes
- Pressure vessels, ship blocks, rail tracks, and thermally distorted assemblies

No Teaching. No Drawing. Just Welding.

Scan → Generate Path → Weld. Fully Automatic.

Weld Smarter. Faster. Better.

Built for fabrication, beams, towers & heavy structures.

WeldXpert PRO delivers autonomous path generation, adaptive torch posture control, distortion-safe path planning, multi-pass deposition governance, synchronized motion across robot, positioner, and 3-gantry Cartesian space, validated by digital-twin simulation.

WeldXpert PRO is not Just Automation — It's Welding Intelligence in Action !!!

RoboWeld-Advanced Multi-Stationed Robotic Welding System

with Multi Axis Positioner

For Smart Welding and Modular Flexibility

A Multi-Station Robotic Welding System boosts productivity by integrating 2 to 10 smartly coordinated welding stations into one automated cell. The robot works continuously across stations, creating a true zero-downtime workflow: while one station welds, others are loaded or unloaded, delivering maximum output with consistent quality.

This Multi-Station Robotic Welding System can be used for both MIG and Laser Welding.

Each station supports multiple welding programs, selectable instantly through an intuitive HMI—
No teach pendant required. Operators enjoy fast, error-free job changes and total flexibility.

Operators can start any station independently, moving from one station to the next without waiting. The controller automatically prioritizes and sequences jobs, operating like an intelligent elevator that stops efficiently based on demand.

Every station features a Two-Hand Start System compliant with ISO 13851, ensuring safe, deliberate activation and world-class operator protection.

Furthermore, the system supports integration of a multi-axis positioner at any station, enabling optimal part orientation, synchronized motion with the robot, and enhanced weld quality for complex geometries.

The Multi Axis Positioner boosts productivity with continuous motion, precise repeatability, and uniform rotation/tilt. Compact and flexible, it handles varied part sizes, integrates seamlessly with robotic welding systems, and ensures operator safety with ergonomic, adjustable loading—delivering faster cycles and consistent, high-quality welds.

Results : Maximum Throughput, Zero Idle Time, Operator-Friendly Control, and Safety Built into Every Cycle.

More Productivity. More Flexibility. More Safety—Built In.

RoboWeld Laser-Advanced ARC -Sync Robotic Laser Welding System

WITH WIRE FEEDER

Hybrid Laser Excellence

Impactful control, intelligent safety, recipe flexibility—Laser behaves as Arc, Wire controlled like CNC, Gas secured with feedback—all driven through one indigenous robotic laser welding core.

The system architecture is built around a Robot-native Laser Welding Core that tightly synchronizes motion control, laser energy delivery, filler wire behavior, and shielding gas regulation with deterministic feedback loops and real-time interlocks.

A Custom Laser-to-Arc Emulation Driver enables the laser power source to operate with arc-welding-like dynamic response

The system supports a Recipe-Orchestrated Multi-Sequence Execution Layer, where :

- Each recipe independently stores laser power curves, peak/base modulation values, wire feed velocity profiles, gas pressure setpoints, and process mode flags (fusion or filler wire).
- Within a single robot weld path, the controller can chain or switch multiple recipes without cycle reset, allowing adaptive process segmentation such as tack-to-seam, seam-to-fill, or fill-to-fusion transitions.
- Wire feed and laser modulation run in time-aligned velocity and energy profiles, not simple constant values, enabling repeatable melt-rate control synchronized system.

A fully indigenous Wire Feeder Servo Controller *(developed by Powertech Engineers)* provides :

- Closed-loop motor control with high-resolution wire velocity regulation, anti-backlash correction, rapid wire acceleration.
- Contact-sense logic to verify electrical/physical wire-to-workpiece touch, stopping the robot instantly if feed is lost, blocked, or detached from the weld pool.
- Wire feed monitoring that triggers a robot pause and laser cutoff if wire-present feedback ≠ commanded feed state, ensuring weld integrity and avoiding dry-run beam exposure.

The Shielding Gas Control Module adds further process reliability :

- Gas flow is regulated using pressure feedback control in closed-loop, maintained precisely per recipe rather than open-flow solenoids.
- The controller enforces a robot-laser safety interlock when gas pressure is not available or deviates beyond recipe tolerance, preventing oxidation, porosity, or unsafe beam operation.
- Gas setpoints can be switched mid-cycle along with recipes, enabling variable gas zones for different weld behaviors on the same component.

Additional technical differentiators include :

- Process Mode Freedom: Ability to weld fusion and filler wire on the same part, even within the same robot program, based on joint requirement.
- Robot + Laser Deterministic Interlocks: Wire-loss, gas-loss, or pressure-out-of-range events always result in an immediate synchronized robot stop + laser disable state.
- Recipe Chaining Engine: Multiple recipes can be executed back-to-back along a single seam, enabling complex weld strategies without manual parameter change.
- Indigenously Developed Core: All intelligent control and safety modules are engineered in India by ***Powertech Engineers***, forming a uniquely differentiated laser welding automation platform.

System Specifications :

Laser power	1.5kw, 2.0kw, 3.0kw, 6.0kw, 12.0kw
Robot reach	800mm, 1500mm, 2000mm
Positional accuracy	±0.05 mm
Repeatability	±0.03 mm
Support Gas	Argon
Cooling System	Water cooled

RoboWeld MIG

Precision MIG Automation

This robotic MIG welding system combines a robust multi-axis industrial robot platform to deliver precise, repeatable, high-productivity welding — with torch-rotation optional for special tasks.

Industrial Application

Automotive Manufacturing
1. High-volume, repetitive welds
2. Exhaust systems, fuel tanks, bumpers
3. Body-in-white (BIW) assembly
4. Chassis, subframes, suspension mounts

Heavy Equipment & Construction Machinery
1.Loaders, excavators, cranes
2.Thick-section welds for structural frames
3.Buckets, booms, arms, and supports

Fabrication of Metal Structures
1.Steel frames, beams, columns
2.Industrial machinery frames
3.Custom fabrication requiring consistency

Agricultural Equipment
1.Tractors, tillers, harvesters
2.Attachments (plows, seeders, trailers)
3.Heavy-duty welds with high repeatability

Aerospace & Defense Components
1.Ground-support equipment
2.Structural assemblies
3.Lightweight alloy components (Al, SS)

Railway & Shipbuilding
1.Bogies, couplers, underframes
2.Ship sections, bulkheads, deck structures
3.Long, continuous welds requiring precision

By integrating the robot attributes above with the advanced arc-power module (with adaptive energy control, multi-process support, and optional endless torch rotation), the welding system achieves :

- Synchronized motion & arc control, where torch motion and arc parameters respond in real time to the weld path and orientation — reducing defects and ensuring consistent penetration.
- High accessibility to complex geometries, thin-walled parts, tubular or multi-plane structures — benefiting from robot reach, hollow-wrist torch routing, plus optional 360°+ torch rotation.
- Robust productivity under heavy duty cycles, combining robot speed and path repeatability with arc-power module stability — good for long seams, production runs, and high-volume welding.
- Reduced maintenance and enhanced durability, as internal cable routing reduces wear, and the adaptive power module's efficient cooling and software-driven control lowers service frequency.
- Modular flexibility, enabling configuration starting from basic torch articulation up to full-featured robot-welding cell with advanced processes — according to production needs, budget, and future scalability.

Core Advantages

High repeatability & consistency — Uniform weld quality with minimal variation.
Increased productivity — Faster cycle times and continuous operation.
Reduced labor dependency — Automates repetitive, hazardous tasks.

Quality & Performance

Precise torch positioning — Better penetration and lower defect rates.
Stable arc & better bead appearance — Especially beneficial for long or complex welds.
Adaptive control options — Seam tracking, real-time parameter adjustments.

Cost & Efficiency

Lower rework and scrap — Fewer weld defects.
Optimized wire and gas usage — Consistent heat input and travel speed.
Long-term cost savings — Despite high initial investment.

Safety & Ergonomics

Isolation from fumes, heat, and spatter — Improved worker safety.
Reduced fatigue — Robots handle heavy torches and monotonous tasks.

Flexibility

Handles multiple weld types — Fillet, butt, lap, multi-pass, etc.
Quick reprogramming — Suited for high-mix, low-volume production.
Integration-ready — Compatible with positioners, sensors, conveyors, vision systems.

System Specifications :

Power source	350Amp, 400Amp, 500Amp
Weld speed	0 - 2mtr per minute (depends on power, material type & thickness)
Weld metals	Carbon Steel, Stainless Steel, Aluminum
Support Gas	Argon + CO2
Cooling System	Air Cooled, Water Cooled
Robot reach	800mm, 1500mm, 2000mm

WeldBot 4-4 Axis CNC Laser Welding System

Flexible, Precise, Integrated for Modern Production

The Platform-Series Laser Welding System is designed to meet the demands of versatile production — from small, precision-sized components to medium-sized assemblies — combining a compact modular build with advanced automation, process control, and ease of use. This system gives manufacturers the flexibility to switch between welding scenarios with minimal setup changes, delivering consistent weld quality, optimized throughput, and reliability.

1. Modular Platform with Multi-Scenario Flexibility

- The system's modular architecture supports a range of configurations, enabling adaptation to different workpiece types — sheet metal, tubes, box structures, or irregular shapes. With a stable motion base and expandable options (e.g., external axis or positioners), the platform can handle simple to complex welding tasks.

2. Small Part Batch Manufacturing in Array Format

- Designed to weld numerous identical small parts arranged in horizontal and vertical grid arrays
- Enables seamless laser-path repetition across part matrices in one automated cycle
- Ideal for multi-part fixtures, component trays, electronic housings, and array-based batch welding

3. Servo Rotary Axis for Profile & Non-Circular Pipe Welding

- The rotary axis enables continuous seam welding on non-round pipes and profile tubes
- Capable of welding:
  - ■ Square pipes / ▭ Rectangular tubes / ◯ Oval & elliptical forms / Custom formed profiles
- Maintains coordinated welding alignment using synchronized linear axes — allowing multi-face pipe seam welding without manual repositioning

4. Real-Time Weld Monitoring via Coaxial Vision System

- A coaxial CCD industrial camera is integrated into every system, aligned with the laser axis and feeding its output to a display for operator use.
- This real-time weld-zone visualization enables precise joint alignment, program teaching, and in-process or post-weld inspection — significantly enhancing process control and quality assurance.

5. User-Friendly Control & Programming Environment

- The GUI is intuitive and designed to minimize learning curve for operators.

For fine adjustments, a handwheel (or manual positioning controller) is provided — allowing quick, precise alignment of the welding head when needed.

- This makes the machine accessible even for operators who may not have extensive robot-welding experience — reducing training time and lowering operational overhead.

Ideal Applications

- Fabrication of small to medium-sized metal assemblies (sheet-metal boxes, enclosures, brackets, structural subassemblies)
- Mix of simple and complex parts — from flat sheets to tubular or boxed structures — without needing multiple dedicated machines

System Specifications :

Laser power	1.5kw, 2.0kw, 3.0kw
Weld speed	0 - 2mtr per minute (depends on power, material type & thickness)
Welding thickness	0.25mm - 10mm
Weld metals	Carbon Steel, Stainless Steel, Brass, Galvanized Steel, Aluminum, Copper
Support Gas	Argon, Nitrozen
Cooling System	Water Cooled
Axis length	X-1000mm, Y-500mm, Z-600mm standard length
Rotary dia.	80mm standard dia. (160mm, 250mm, 300mm as per request)

WeldBot 1 L/C

Singular Axis. Maximum Output.
Laser Welding Made Production-Smart & Affordable

Our Semi-Automatic Laser Welding Machine integrates a standard industrial laser welding unit with one dedicated programmable axis — Linear or Rotary (selectable per machine). By removing complexity and focusing on single-axis weld paths, the system delivers high-precision straight or 360° circular laser seams at a cost that remains truly affordable for production floors.

The motion axis can be programmed directly through the operator-friendly HMI, enabling :

- Continuous long weld seams (linear)
- Circular 360° seam welds (rotary)
- Batch positioning sequences and automated axis travel

To ensure consistent and safe operation, the machine incorporates robust industrial interlocks for :

- Shielding gas presence and pressure
- Chiller status and cooling health
- Laser readiness and fault detection
- Internal safety and hardware interlocking

By intentionally limiting motion to one optimized axis, the system minimizes cost, complexity, and footprint — making it an affordable, high-precision solution for applications where only straight or circular welding paths are required.

By using only one axis of motion, the system offers :

- Strong production capabilities
- Minimal system footprint
- Lower integration cost
- Excellent weld repeatability
- Fast operator adoption

All resulting in a cost-efficient, high-output laser welding solution that is affordable without sacrificing industrial performance.

Technical Highlights

- Single programmable axis – Linear or Rotary (one per machine)
- Easy weld path and motion programming via HMI
- Supports continuous or repeated short welding modes
- Best for small part batches or long singular seam jobs
- Full system interlocks for gas, chiller, and laser health
- No complex teaching, CAD, or robotics required
- Highly reliable in singular-type production welding
- Affordable system designed for high-production laser welding lines

System Specifications :

Laser power	1.5kw, 2.0kw, 3.0kw
Weld speed	0 - 2mtr per minute (depends on power, material type & thickness)
Welding thickness	0.25mm - 10mm
Weld metals	Carbon Steel, Stainless Steel, Brass, Galvanized Steel, Aluminum, Copper
Support Gas	Argon, Nitrozen
Cooling System	Water Cooled
Linear automation length	600mm, 1000mm standard length (Extra long as per request)
Rotary dia.	80mm, 160mm standard dia. (250mm, 300mm as per request)

Handheld Laser Welding System

Precision with Power, Control with Speed

Our Handheld Laser Welding Machine is engineered to bring industrial-grade laser welding into a true handheld format—combining superior beam precision with flexible single or dual wire feeding. The system integrates optional single or dual wire feeders, allowing operators to switch seamlessly between fusion welding and laser wire welding for stronger joints, higher deposition, and faster production throughput.

It delivers deep, narrow laser seams with exceptional penetration, virtually zero spatter, low heat-affected zone (HAZ), and minimal distortion, making it ideal for stainless steel, mild steel, aluminum alloys, titanium, nickel-based materials, and advanced composites. The lightweight ergonomic torch design ensures steady handling on complex profiles, tight corners, weld arrays, and free-form geometries—giving operators finer puddle control than traditional handheld welding.

Key Advantages

- **High speed :** 2–10× faster than TIG/MIG.
- **Minimal heat input :** smaller heat-affected zone, less distortion.
- **Cleaner welds :** very low spatter; often no post-processing.
- **Easy to learn :** skilled welds within hours, not months.
- **Versatile :** welds stainless steel, mild steel, aluminum, copper, galvanized steel.
- **Deep, strong welds** with narrow seams.
- **Low consumables :** no filler (optional), minimal gas use.

Technical Highlights

- High energy density laser beam enabling focused penetration
- Stable and repeatable laser weld pool behavior with wire integration
- Tight kerf welding profile supporting structural integrity
- Minimal distortion even on thin sheets and precision assemblies
- Fast thermal dissipation preserving mechanical properties
- Adaptive for array welding and complex joint structures

Typical Applications

- Sheet metal fabrication
- Kitchen equipment & appliances
- Automotive repair & fabrication
- Railings, doors, gates
- HVAC, enclosures, cabinets
- Battery & EV parts manufacturing

Why Choose It Over TIG/MIG?

- Much faster (higher productivity)
- Lower distortion → fewer rework steps
- Cleaner appearance → reduced grinding/finishing
- Easier for new operators

System Specifications :

Laser power	1.5kw, 2.0kw, 3.0kw
Weld speed	0 - 2mtr per minute (depends on power, material type & thickness)
Welding thickness	0.25mm - 10mm
Weld metals	Carbon Steel, Stainless Steel, Brass, Galvanized Steel, Aluminum, Copper
Support Gas	Argon, Nitrozen
Cooling System	Water Cooled

LaserClean Pro

Handheld Non-Contact Surface Prep & Cleaning

Engineered for pure laser cleaning performance, LaserClean Pro delivers industrial-grade, non-abrasive, non-contact surface decontamination with unmatched speed and control.

Designed as a dedicated laser cleaning platform, the system removes Rust, Oxides, Coatings, Paint and Surface Contaminants without chemicals, media blasting, or surface damage — making it the ideal solution for pre-weld preparation, coating removal, maintenance, inspection, and restoration applications.

From an environmental and process-efficiency perspective, laser cleaning eliminates consumable dependencies entirely. There are no abrasives, water, chemical agents, or blast media involved, resulting in zero chemical emissions and no secondary waste stream requiring disposal. Cleaning by-products are limited to ultra-fine particulates and vapor, both of which can be safely evacuated using standard fume extraction or shop filtration systems. By removing material loss and eliminating preparation rework, the system significantly reduces part-processing cost while delivering surfaces that are optically clean and ready within seconds for welding, recoating, bonding, or non-destructive inspection.

Compatible for cleaning on :

- Mild steel, stainless steel, aluminum alloys, galvanized surfaces
- Hardened tool steels, mold steels, structural components
- No-contact cleaning makes it safe for:
  - Thin sheet panels (no warping)
  - Precision machined parts
  - Aged metal assemblies
  - Weld adjacencies

Key benefits :

- Non-contact & non-abrasive → no tool wear, no substrate damage
- Highly precise → selective cleaning of microns
- Eco-friendly → no chemicals, no secondary waste
- Cost-effective long term → no consumables
- High efficiency → fast for rust, paint, oxides
- Automatable → robotics, conveyor integration
- Safe for delicate or high-value parts

Industries using laser cleaning :

- ·Automotive → rust, weld prep, weld seam cleaning
- ·Aerospace → paint stripping, oxide removal
- ·Manufacturing → mold cleaning (rubber, plastic, tire molds)
- ·Shipbuilding → corrosion removal
- ·Electronics → precision micro-cleaning
- ·Heritage conservation → stone, bronze, sculptures
- ·Battery & EV → electrode cleaning, tab cleaning

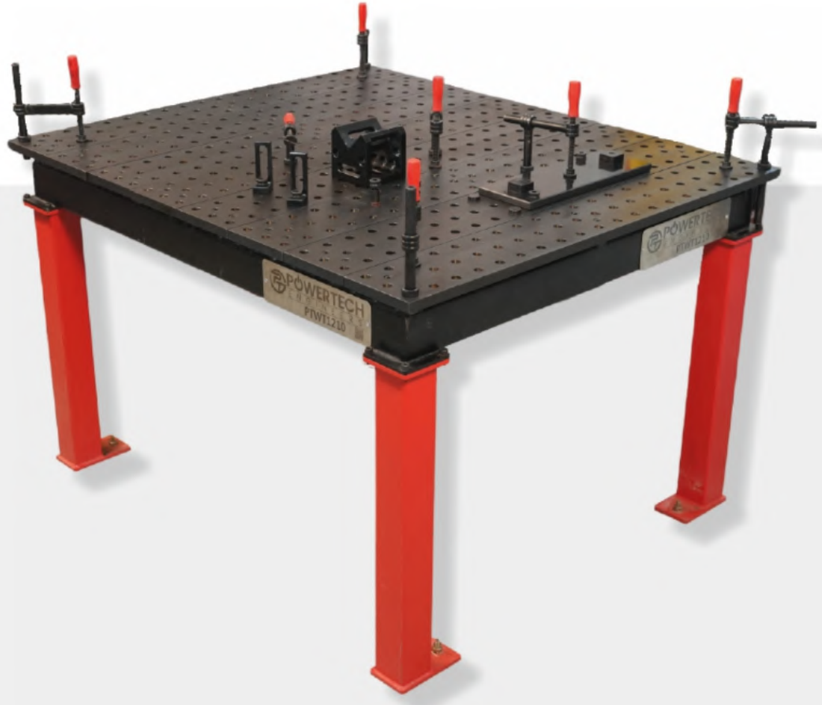
System Specifications :

Laser power	1.5kw, 2.0kw, 3.0kw
Clean beam width	0 - 300mm
Working distance	800mm
Support Gas	Air
Cooling System	Water Cooled

Modular Welding Tables

For Unshakeable Strength. Unmatched Accuracy

Engineered for precision, adaptability, and heavy-duty performance, the Modular Welding Table delivers a stable, ultra-flat platform for both fabrication and robotic welding. Its 50×50 mm precision grid, nitrided IS 2062 steel surface, and reinforced frame ensure exceptional rigidity, accuracy, and durability. The table supports modular expansion with additional plates, giving you more freedom for larger components. With superior flatness, spatter-resistant treatment, and a secure floor-anchoring system, this table ensures accurate setups, consistent clamping, and vibration-free welding performance—every time.



Unique Features

- ***Load-Bearing Anchoring System –*** *For secure attachment to the floor of the production facility to protect against tension, pressure, and movement (For Robot Use).*
- ***Surface Treatment –*** *Reduces welding spatter sticking to the surface of the table.*
- ***More Freedom for Your Work –*** *If the component is larger, the worktop of the table can be easily extended with additional plates.*

Technical Specifications

- Table Size: 1200 mm × 1000 mm / 2100 mm x 1000 mm
- Grid Pattern: 50 × 50 mm precision grid across table
- Plate Thickness: 16 mm
- Table Height: 750 mm
- Clamping Bore Diameter: 16 mm
- Material: IS 2062 Steel
- Surface Treatment: Gas nitriding, 0.2 mm case hardening
- Frame Construction: Reinforced heavy-duty frame
- Load Capacity: Up to 800 kg/meter
- Surface Flatness: ±0.5 mm per meter
- Anchoring System: Load-bearing floor anchoring for vibration-free, robot-safe welding
- Spatter Resistance: Treated surface reduces spatter adhesion

Key Benefits

- High precision: Ultra-flat surface ensures accurate alignment
- Modular expansion: Extend the worktop for larger components
- Heavy-duty build: Reinforced frame supports large, heavy components
- Custom-built options: Sizes, grids, fixtures, and mounting tailored to your needs
- Robotic-ready stability: Anchoring system prevents shift, vibration, or load movement
- Low spatter adhesion: Nitrided surface stays cleaner, reduces rework
- Flexible fixturing: 50×50 mm grid supports diverse clamping setups
- Reliable durability: Hardened surface resists wear, dents, and thermal stress
- Superior stability: Minimizes vibration for consistent welding
- Ergonomic height: Optimal working height improves operator comfort
- Reliable accuracy: Maintains stable geometry under continuous use

We engineer Custom-Built Welding Tables tailored to dimensional, load-bearing, and fixturing requirements, ensuring full compatibility with each application's geometry and workflow. Configurable with specialized grid patterns, surface treatments, anchoring systems, and structural reinforcements, they deliver an optimized, stable, and production-ready workspace for both robotic and manual welding environments.

Precision Architecture.
Customized for Your Manufacturing Ecosystem.

Innovation at Powertech Engineers

- ***Continuous R&D behind Next-Generation Automation***
- ***Indigenous Control Systems & Intelligent Platforms***
- ***Advanced Robotics, Lasers, and High-Throughput Technologies***
- ***High-Speed Motion, Smart HMI & Real-Time Process Governance***
- ***Industry 4.0 - Ready Systems built for Future Manufacturing***

Certifications & Standards

- ***ISO-aligned quality management and production practices***
- ***CE-compliant designs for safety and regulatory integration***
- ***Robot safety compliance with multi-layer interlocks***
- ***Electrical safety architecture with redundant protection***
- ***Precision benchmarks for accuracy, reliability & repeatability***

At Powertech Engineers, Our strength lies in combining engineering depth with uncompromising quality. Every solution We deliver is backed by rigorous testing, structured manufacturing flows, and strict adherence to international standards.
With a future-focused approach, We help clients improve productivity, achieve process reliability, and unlock innovation in their factories.
Powertech Engineers gives you industry-ready solutions and future-ready performance you can trust.

Join the Esteemed Clientele That Choose Engineering Excellence

Become the part of the growing network of
Esteemed Leading Manufacturers who rely on Powertech Engineers
for precision, consistency, and long-term performance.
Our Clientele represents some of the
Most Respected Names in Industry—Organizations that demand reliability, innovation, and intelligent automation.
We look forward to partnering with you and offering advanced solutions, dependable engineering support,
and a team dedicated to your continued success.
Become part of a community that values excellence and invests in future-ready manufacturing.

ENDURANCE Complete Solutions
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Mahindra CIE
ORBIT
KICH STEEL... FOR LIFE
INDUSTRIES
NEBULA A JOINTLESS JOINT
CROTON POLYMERS INDUSTRIES
Lubi PUMPS • MOTORS
VERSIL PUMPS & MOTORS
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JAGDISH TECHNOCAST PVT. LTD.
DHJ Ravi Corporation
inac Best Support - Better Technology
Hi-CON Investment Casting
Bhavani Industries
perfect Auto Accessories
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Engineered Excellence. Excellence Delivered !!!