

TECHNOCRATS PLASMA SYSTEMS LTD.

COMPANY PROFILE



 +91-9320033114 / 9320310069

 marketing@technocratplasma.com
service@technocratplasma.com

 www.technocratplasma.com



Engineering Excellence Across Plasma, Laser & Robotics

ABOUT US

A Brief Story About The Company



Technocrats Plasma Systems Ltd is a leading Indian manufacturer of CNC Metal Profile Cutting Machines, Advanced Plasma Power Sources, and Welding Automation Systems.

With over three decades of engineering excellence, we have served leading infrastructure, energy, shipbuilding, steel, automotive, and heavy fabrication industries across India and overseas.

We specialize in:

- CNC Plate & Pipe Profile Cutting Machines
- Air Plasma & Oxy-Fuel Cutting Systems
- Hybrid Plasma Power Sources (100A – 1000A+)
- Welding Automation Systems (TIG, MIG, MAG, SAW, Plasma)
- Smart IoT-Enabled Fabrication Solutions

Our strength lies in complete in-house design and manufacturing — from control PCBs and transformers to CNC gantries and power electronics — ensuring reliability, performance, and lowest total cost of ownership.

VISION & MISSION

VISION

To become a global leader in intelligent Plasma cutting and welding automation systems by delivering energy-efficient, and carbon-conscious fabrication technologies.



MISSION

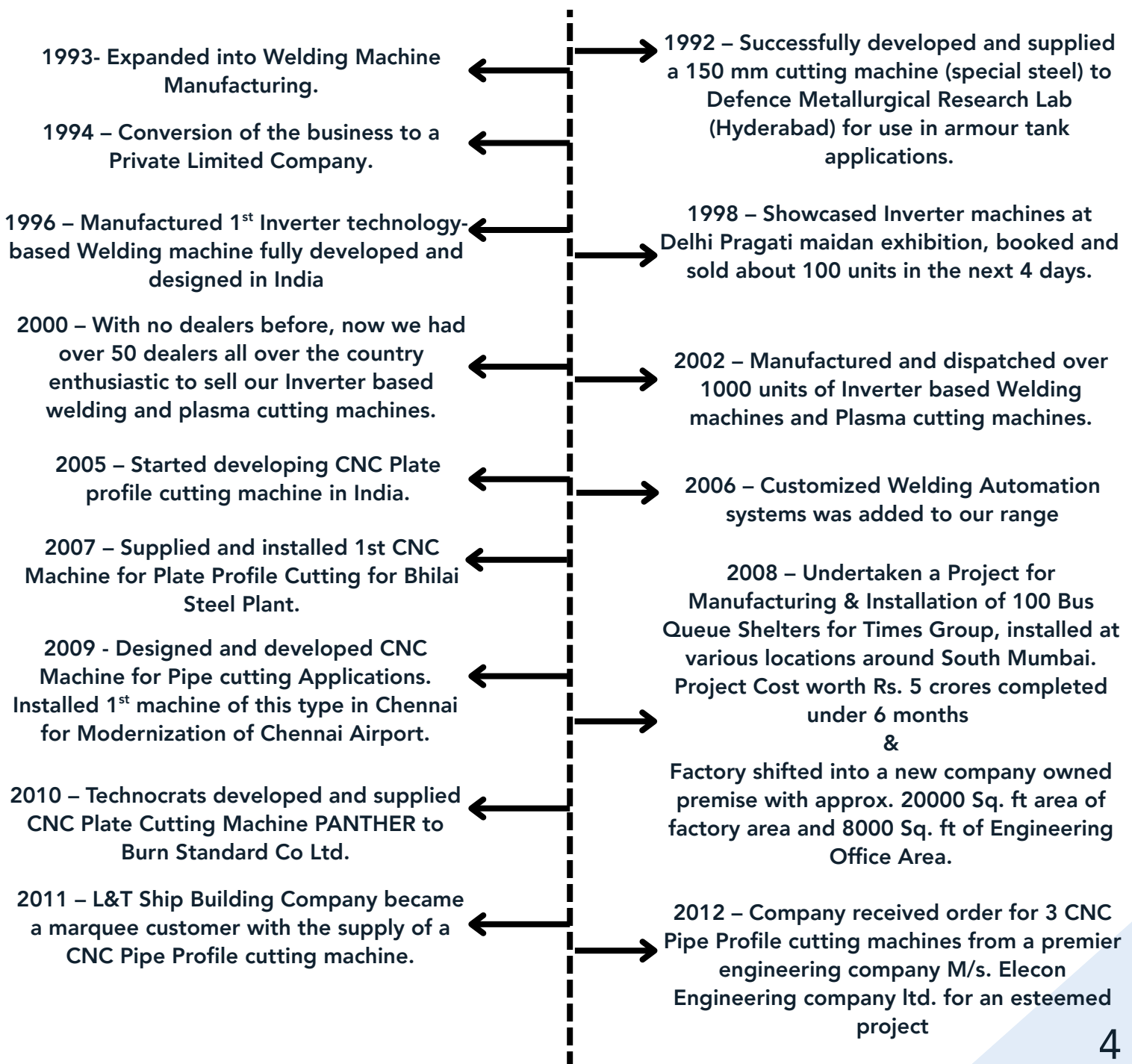
- To empower global manufacturing with smart, connected, and sustainable automation systems.
- To deliver precision engineering with long-term reliability.
- To support industries in achieving operational efficiency and climate resilience.

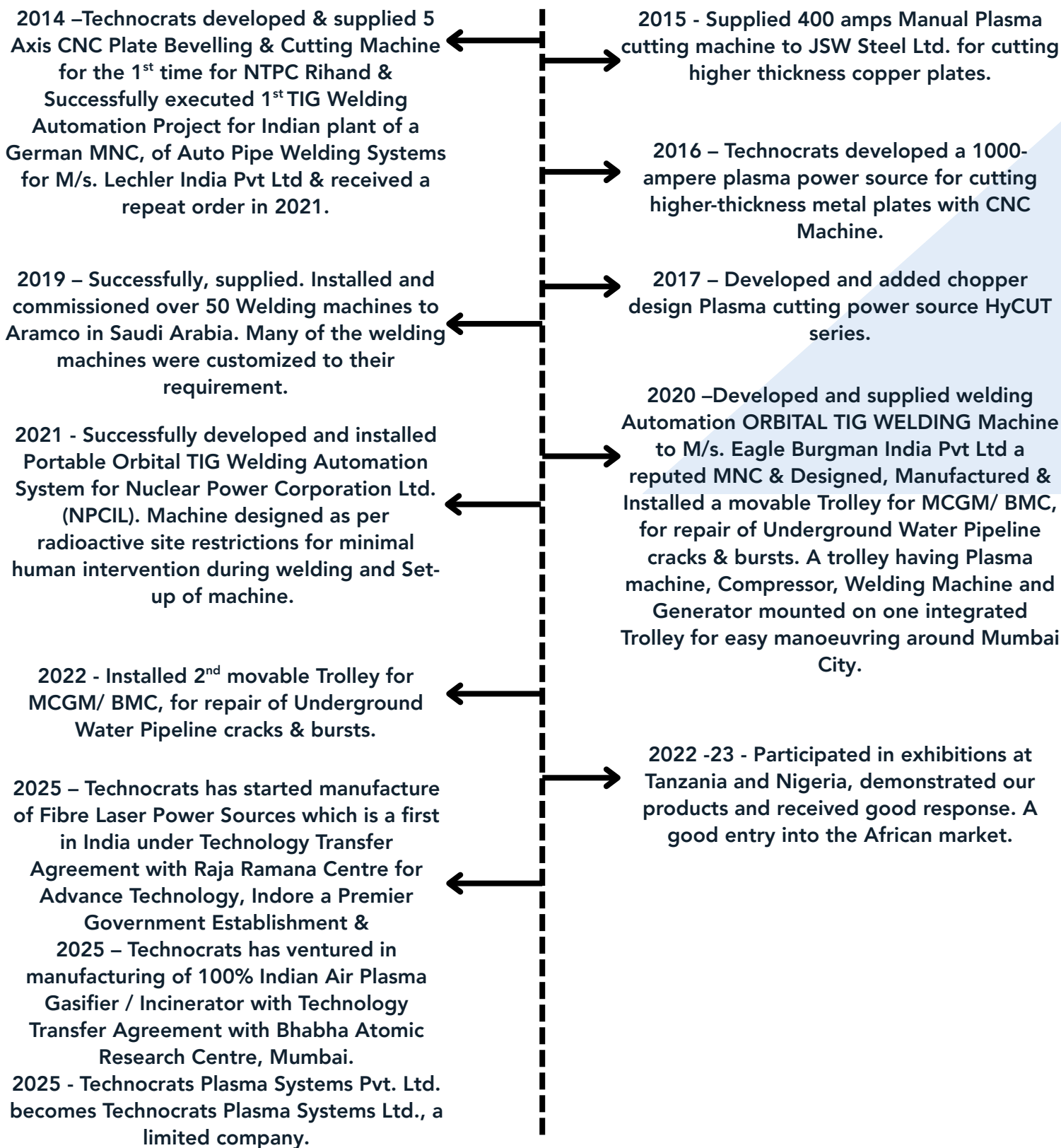
CORPORATE EVOLUTION

Incorporated in 1994, Technocrats Plasma Systems has evolved from a pioneering plasma technology company into Technocrats Plasma Systems Ltd in 2025. The transition to a Public Limited structure reinforces our commitment to governance, transparency, scalability and long-term growth.

Milestones that shaped us over 35 years.

Technocrats born in 1990 as 1st Indian company to manufacture thyristor based Plasma cutting machine





**AND OUR JOURNEY WILL
CONTINUE BEYOND**

PRODUCT PROFILE

1

CNC Profile cutting systems

- CNC Plate cutting systems (small) - CUB, CantiCUB
- CNC Plate cutting systems - PANTHER
- CNC Pipe cutting systems - PUMA
- CNC Plate & Pipe cutting systems - CUMA, PANUMA
- Multi torch and bevel cutting options

2

Laser Cutting & Welding systems

- CNC Laser cutting systems - Edge series
- CNC Laser, Plasma & Oxyfuel cutting systems - COMBO
- Laser welding power sources - BW series

3

Cutting & Welding Automation systems

- Customized Welding automation systems designed as per customer requirement
- Robotic solutions
- CNC Drilling systems
- H beam systems

4

Manual Cutting & Welding systems

- Plasma cutting - KALI series - available in Diode, Thyristor & Inverter technology
- Plasma cutting - HyCUT series
- MMA/TIG/MIG/SAW welding power sources
- Plasma Welding power sources
- Industry 4.0 integration with IoT welding & plasma cutting power sources

CNC PLATE PROFILE CUTTING SYSTEMS

- Available in 3 different models suitable for different applications.
- Portable CNC plate profile cutting system of size 3000 x 1500 mm for small plates, model - CantiCUB. Movable and comes with single torch holder.
- Rigid CNC plate profile cutting system of starting size 3000 x 1500 mm and length extendable upto 12000 mm, model - CUB. Comes with multiple torch options.
- Gantry CNC plate profile cutting system of customizable size available, model - PANTHER. Comes with multiple torch options.
- Manual bevel and auto bevel options available.
- Cuts upto 150 mm MS/SS with +/- 0.1 mm precision and repeat accuracy.
- Air Plasma, Oxyfuel, Drilling head, Marking options available.
- Plasma power sources of upto 500+ Amps in-house manufactured with multiple interface options.



MODEL - CUB



MODEL - CANTICUB



MODEL - PANTHER

CNC PIPE PROFILE CUTTING SYSTEMS



**Model - PUMA - 3 axis -
Chuck based**



**Model - PUMA - 5 axis -
Disc based**

Cutting samples using PUMA



- CNC based pipe profile cutting machine is a unique innovative product from Technocrats, model - PUMA series
- Working length upto 20 mtrs. available
- PUMA for cutting pipes of diameters upto 1.5 mtrs.
- Two variants – Chuck type and Disc type
- Multiple torch holders - Plasma, Oxyfuel, Marking, Drilling options available
- Beveling option available - Manual and Auto beveling
- Positioning Accuracy: $\pm 0.5\text{mm}$, Repeatability: $\pm 0.5\text{ mm}$
- Provision for longitudinal transfer of pipe (Conveyor type) can be added
- Can cut all types of profiles like Miter cuts, Saddle cuts, Hole cuts, weld preparation profiles, intersection type cuts.
- Plasma power sources of upto 500+ Amps in-house manufactured with multiple interface options.

CNC COMBINED PLATE & PIPE PROFILE CUTTING SYSTEMS

Model - PANUMA



Model - CUMA

- **PANUMA & CUMA** series is a Combined CNC Plate and Pipe profile cutting system in one system.
- Combining both Plate cutting and Pipe cutting in the same system helps in saving space of 2 machines and increases productivity. An excellent ROI.
- CUMA series available in width up to 1500 mm suitable for plate cutting and length up to 12000 mm suitable for plate and pipes. CUMA series can accommodate pipes of diameter up to 400 mm maximum.
- PANUMA series is available in any length and width as per customer requirement. It can accommodate pipes of diameter 600 mm maximum.
- Multiple torch holders - Plasma, Oxyfuel, Marking, Drilling options available
- Beveling option available - Manual and Auto beveling
- Plasma power sources of upto 500+ Amps in-house manufactured with multiple interface options.

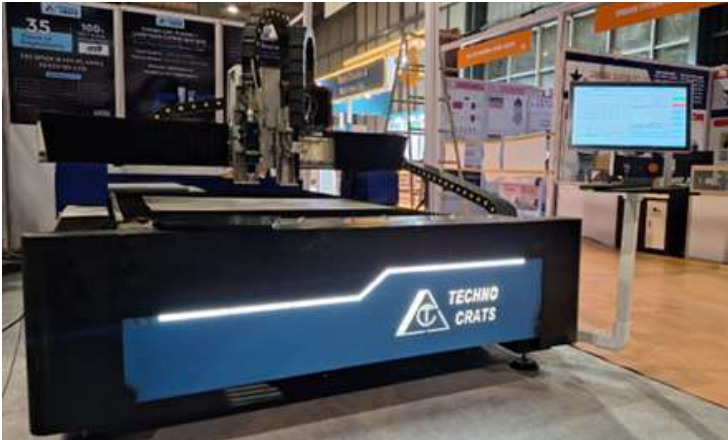
CNC LASER CUTTING SYSTEMS



- CNC Laser cutting system model LaserEdge series available in sizes starting length 3000 mm and width 1500 mm.
- Fiber laser power available from 1 - 20 kW
- Available sizes 3000 x 1500 mm, 4000 x 2000 mm, 6500 x 2500 mm
- Suitable for materials like Mild steel, Stainless steel, Aluminum, Brass, Copper
- Optional changeover shuttle table for improving productivity
- Low operating cost compared to CO₂ lasers
- Suitable for 24x7 production environment
- Optional accessories - Shuttle table (auto exchange pallet system), Rotary axis for pipes/tubes, Automatic nozzle cleaning and calibration, Camera-based vision alignment system, Sheet loading/unloading automation

CNC LASER & PLASMA COMBO CUTTING SYSTEMS

CNC Laser & Plasma Combo cutting systems are available in different combinations : Laser & Plasma combo, Laser & Oxyfuel combo, Laser & Plasma & Oxyfuel combo depending upon customer requirement.



Laser & Plasma combo

Laser & Plasma & Oxyfuel combo



- CNC Laser cutting COMBO systems available in sizes starting length 3000 mm and width 1500 mm.
- Fiber laser power available from 1 - 20 kW
- Available in any size as per customer requirement.
- One machine caters to all cutting applications, laser for thin sheet cutting, plasma for mid thickness cutting and oxyfuel for higher thickness cutting.
- Very economical for workshops where all cutting applications are met in 1 machine
- Plasma power source available upto 500+ Amps
- Optional accessories like Fume extraction, Pipe cutting attachment, etc.

LASER WELDING SOURCES



- Laser Welding power sources available from 1.5 kw to 3 kW, model BW series
- Air cooled and water cooled power sources available
- Suitable for handheld welding, compact and ergonomic handheld gun
- Up to **10x faster** than TIG welding
- Can be integrated for Robotic applications or Welding automation systems
- Optional Wire Feeder: Enhances functionality and expands your welding capabilities
- Optional upgrades like -2-in-1 welding + cleaning function, Laser cleaning head compatibility, CCD vision module for seam tracking, Smart welding parameter memory, Portable trolley-mounted design

CUTTING & WELDING AUTOMATION SOLUTIONS

- Customized automation solutions for cutting and welding applications developed, designed for specific applications.
- TIG welding, MIG welding, SAW welding, AC/DC welding, Plasma welding and Laser welding solutions available.
- Plasma cutting, Laser cutting solutions available.
- Economical and great Return on investment (ROI).
- Engineered for industries where speed, quality and repeatability are critical, our solutions empower manufacturers to achieve flawless results with minimal manual intervention.



H BEAM SOLUTIONS & CNC DRILLING SYSTEMS



H beam system

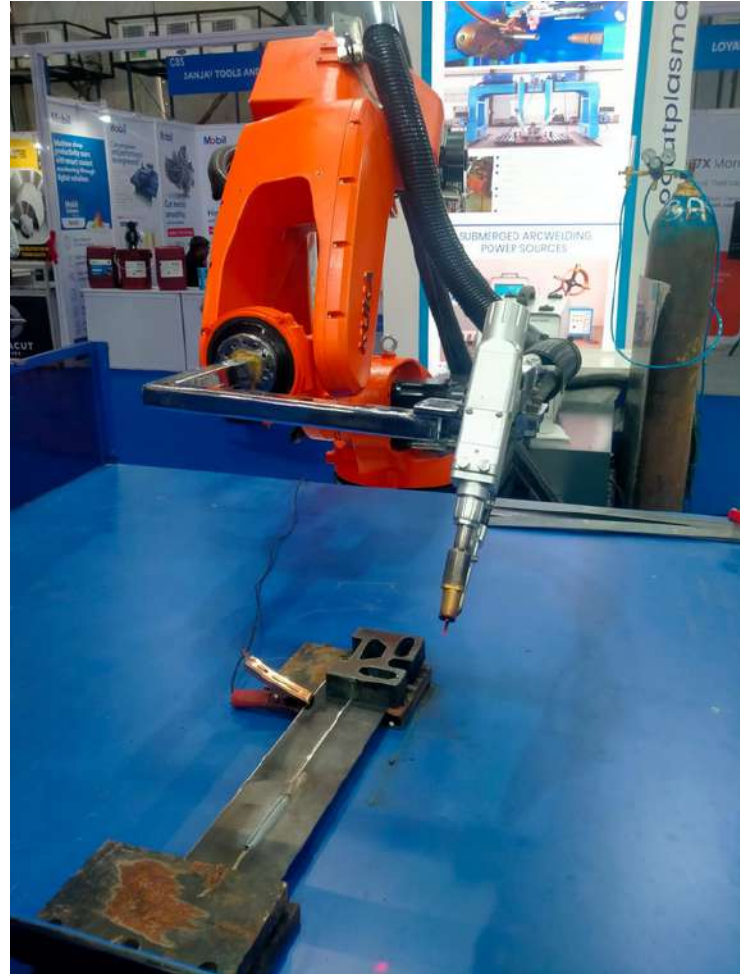
CNC drilling system



- H beam systems are available for different stages like Tacking, Assembly, Welding and Straightening.
- Suitable for H beams of maximum height 1500 mm.
- SAW welding, MIG welding can be integrated as per requirement.
- Complies with the RDSO specification
- CNC Drilling systems are engineered to deliver high-speed, high-accuracy drilling solutions for modern fabrication and manufacturing environments.
- Rigid machine structure for vibration-free drilling
- Automatic tool change (optional) for reduced downtime
- Programmable drilling cycles for repetitive operations
- Starting size 1500 x 1500 mm
- Drilling diameter range from 6 - 50 mm

ROBOTIC SOLUTIONS

- Robotic solutions for welding and cutting applications
- Welding power sources for applications like Arc, MIG, TIG, AC/DC, SAW, Plasma welding can be integrated with Robots of known brands.
- Plasma cutting power sources for cutting applications like pipe cutting, very fine cutting can be integrated with Robots.
- Laser cutting and Laser welding sources for specific applications can be integrated with Robots as well for specific applications.



MANUAL PLASMA CUTTING POWER SOURCES

Plasma cutting power sources available in 4 different technologies.

- **Inverter technology** - Kali i series - suitable for thin sheet cutting, portable power sources, light weight, requires maintenance, electrical circuitry. Suitable for CNC applications. Ideal for cutting 1-30 mm - Manual
- **Diode technology** - Kali F series - suitable for heavy thickness cutting, durable and no maintenance required, heavy duty power sources, suitable for dusty environments and sites. Ideal for cutting 1 - 100 mm - Manual
- **Thyristor technology** - Kali H series - suitable for heavy thickness cutting, heavy duty power sources, electrical circuitry, suitable for workshop conditions. Suitable for CNC applications. Ideal for cutting 1- 100 mm - Manual and CNC
- **Chopper technology** - HyCUT series - suitable for thin to thick sheets, heavy duty power source, requires maintenance but still suitable for site and workshop conditions. Highly suitable for CNC application due to high arc voltage. Ideal for cutting 1-100 mm - Manual and CNC



IOT BASED PLASMA CUTTING & WELDING SYSTEMS

Technocrats now offers Plasma Cutting Machines & Welding sources with advanced IoT-enabled monitoring and smart connectivity features, designed to meet the evolving needs of Industry 4.0 manufacturing environments.

- Live performance tracking, automatic fault detection, and instant maintenance alerts to minimize downtime.
 - Live data • Self-diagnostics • Instant alerts • Customizable reporting
 - Our systems are designed for Industry 4.0 integration with IoT-enabled monitoring, cloud connectivity, preventive maintenance alerts, and production cost analytics.
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- With integrated IoT technology, users can monitor machine performance in real-time, track operational parameters and analyze productivity data remotely.
 - The IoT-enabled HyCUT Series provides valuable insights such as:
 - Real-time current and voltage monitoring
 - Machine usage hours tracking
 - Preventive maintenance alerts
 - Fault diagnostics and error reporting
 - Remote performance monitoring via secure network connectivity



WELDING POWER SOURCES



- I. Arc / TIG/ AC/DC TIG welding power sources - available in Inverter, Thyristor & Diode technologies
- II. MIG welding power sources - available in Inverter, Thyristor & Diode technologies
- III. Gouging rectifiers - available in Inverter, Thyristor & Diode technologies
- IV. SAW power sources - available in Inverter & Thyristor technologies
- V. Plasma welding sources for specialized application

FOUNDER & MD MESSAGE



Mr. ARUN KUMAR - Founder & Managing Director

A true technocrat to the heart, ex scientist in BARC (Bhabha Atomic Research Centre), a gem of a person with simple straight forward inclusive leadership personality, an engineer by qualification with passion for product development.

At Technocrats Plasma Systems Ltd, our journey has always been driven by a single purpose — to solve real manufacturing challenges through innovation and engineering excellence.

Over the years, we have worked closely with industries across India and globally, understanding their production bottlenecks, efficiency gaps and evolving technological needs. This deep customer engagement has enabled us to develop reliable CNC cutting machines, advanced plasma systems, and welding automation solutions that are not only high-performing but also practical and cost-effective.

We take immense pride in being a 100% Indian manufacturing company, with complete in-house design and development capabilities. From power electronics to CNC systems, every solution we build reflects our commitment to quality, reliability, and long-term usability.

Our focus on continuous R&D and innovation allows us to stay ahead—integrating smart technologies, improving productivity, and delivering solutions tailored to our customers' production environments.

For us, every machine delivered is not just a product, but a long-term partnership, supported by strong after-sales service, quick response, and a commitment to keeping our customers running efficiently.

As we move forward, our vision remains clear — to empower industries with intelligent, reliable, and future-ready fabrication technologies designed in India for the world.

OUR PHILOSOPHY



At Technocrats Plasma Systems Ltd, our philosophy is built on delivering high-performance cutting and welding automation solutions through a strong foundation of in-house engineering, innovation, and customer-centricity.

We believe in 100% indigenous manufacturing, designing and producing every critical component—from power electronics to CNC systems—within our ecosystem. This ensures superior reliability, faster service response, and complete control over quality and performance.

Our continuous investment in research & development enables us to create advanced solutions in CNC cutting, plasma technology, and welding automation, while integrating smart features such as IoT-enabled monitoring, predictive maintenance, and intelligent control systems.

With a customer-first approach, we go beyond product delivery by offering robust after-sales support, including express spares availability, retrofit upgrades, Remote Annual Maintenance Contracts (RAMC), and lifecycle service solutions.

We are committed to empowering industries with efficient, reliable, and future-ready fabrication technologies, while contributing to India's vision of self-reliance in advanced manufacturing.

COMPANY INFORMATION

CIN	U28299MH1994PLC082603
Company Name	Technocrats Plasma Systems Ltd.
ROC Name	ROC Mumbai II
Registration Number	082603
Date of Incorporation	01.11.1994
ACTIVE compliance	ACTIVE Compliant
GST	27AAACT5491R1ZJ
IEC (Import Export code)	0399052909

Contact Details -

Registered Address - Gala no. 6,7,8,105,106, 107,108, Nirav 2, Gaon Devi Industrial estate, Sativali, Vasai (East), Dist. Palghar - 401208, Maharashtra, India

Landline number - 07888099611 / 22 / 33 / 44 / 55

Mobile number - 09320033114 (Marketing) / 09320310069 (Service)

Email id - sales@technocratplasma.com | service@technocratplasma.com | info@technocratplasma.com

Website - www.technocratplasma.com

Certifications - ISO 9001:2015 , ISO 14001:2015, ISO 45001:2018 certified, ERTL certified power sources.



**ENGINEERING THE
FUTURE, TOGETHER.**



35+
YEARS **EXPERIENCE**

