



Weldmatix Fusion
A CLAN GROUP COMPANY

◆ VOLUME 01 • MMXXVI
FOR OIL & GAS • POWER • DEFENCE

AUTOMATED WELD OVERLAY • OEM

Product Catalogue 2026

NINE ENGINEERED SYSTEMS
— CLADDING, WELDING,
INSPECTION

Engineered Welding Systems for the World's Most Demanding Industries. A portfolio of automated welding, cladding and inspection systems — engineered, programmed and built in-house under one OEM discipline.



FEATURED SYSTEMS

Omni-Clad • DRT • Vertical Clad • Pipe Cladding Rigs • Auto
DPT
Butt Welding • Boiler Tube • Tubewall Overlay • Laser

STANDARDS

ISO9001 • OEM
In-house engineered

MAKE • SERVE

Navi Mumbai — India
www.weldmatixco.com

ENGINEERED WELDING • CLADDING • INSPECTION

A new standard in automated *welding.*

Weldmatix Fusion designs and manufactures fully automated welding, cladding and inspection systems for oil & gas, power, defence and heavy-engineering fabrication. Each system is conceived, programmed and built in-house — engineered to OEM-grade tolerances and qualified for the most rigorous service codes. Every machine is conceived as a complete welding process — fixturing, motion control, arc behaviour, data and service — then engineered as one. We do not assemble brand badges. We build systems that earn their place on the shop floor.

This catalogue presents nine platforms that anchor our 2026 product line — from the Omni-Clad cell to boiler-tube and laser deposition. Each system in these pages has shipped, commissioned and is in service today, with customers who measure success in burn-off rate, NDT pass-rate and mean-time-between-stoppage.

THE ENGINEERING TEAM • TALOJA MIDC

AT A GLANCE

09+

AUTOMATED WELDING
PLATFORMS

36"

MAXIMUM PIPE
DIAMETER

12m

MAXIMUM WORK LENGTH

<2%

TYPICAL HW-TIG
DILUTION

A note from
the workshop.

*"We sell qualified
processes.
The machine is what
delivers them."*

◆ CAPABILITIES

Process discipline, *at a glance.*

Nine platforms. One engineering team. Every system designed, programmed and qualified in-house at our Navi Mumbai works.

09+

AUTOMATED
PLATFORMS

36"

MAX PIPE
DIAMETER

12 m

MAX WORK LENGTH

<2%

HW-TIG DILUTION

1G/2G

WELDING
POSITIONS

PLC

CLOSED-LOOP
CONTROL

HMI

VIRTUAL PENDANT

24/7

SERVICE BACKED

Welding & cladding

HW-TIG, twin-wire, pulsed TIG, GMAW and laser deposition — qualified for OEM and code work.

Motion & automation

Auto-AVC, auto-centring, recipe-driven multi-axis motion with telemetry-grade data logging.

Inspection & QA

Closed-loop dye-penetrant skids and process traceability for post-clad and weld inspection.

What's *inside*.

◆ Foreword

A NOTE FROM THE WORKSHOP

◆ Omni-Clad Station

DUAL-ORIENTATION CLADDING CELL

◆ Vertical Cladding System

PLC-BASED HOT-WIRE PULSED TIG

◆ Auto DPT Rig — Pipe Flaw Detection Skid

CLOSED-LOOP DYE-PENETRANT INSPECTION

◆ Boiler Tube Cladding Station

PRECISION CLADDING. SUPERIOR PERFORMANCE.

◆ Laser Clad & Cutting Solutions

HIGH-ENERGY BEAM PLATFORMS

◆ Why Weldmatix Fusion • Service & Support

ENGINEERED TO COMMISSION • SUPPORTED FOR LIFE

◆ Capabilities

OUR PROCESS DISCIPLINE AT A GLANCE

◆ Dynamic Rotational Torch System

DRT — MULTI-ANGLE BOREHOLE OVERLAY

◆ Pipe Cladding Rigs — Twin & Quad Head

HW-TIG INTERNAL OVERLAY, 6" — 36"

◆ Butt Welding Station

PRECISION PIPE & SPOOL WELDING AUTOMATION

◆ Twin Head Boiler Tube & Tube Wall Cladding System

HIGH-PRODUCTIVITY TWIN-TORCH OVERLAY

◆ Industries we serve

SECTOR QUALIFICATIONS

◆ Contact

TALK TO OUR ENGINEERS



Weldmatix Fusion

A CLAN GROUP COMPANY

WELDMATIX FUSION

PRODUCT CATALOGUE • 2026



Omni-Clad Station

ENGINEERED BY WELDMATIX FUSION

◆ ENGINEERED SYSTEM

Omni-Clad Station

Dual-Orientation Cladding Cell

Our most adaptable platform. The Omni-Clad Station fuses vertical and horizontal weld-overlay stations into a single, dual-orientation cell – engineered to clad geometries that other systems cannot reach.

— FEATURES & ENGINEERING

- | | |
|--|---|
| <p>01 Dual orientation capability
Vertical and horizontal weld-overlay stations integrated into one cell for versatile cladding routines.</p> | <p>02 Integrated butt welding
Advanced butt-welding head delivers precise, full-penetration root and fill passes.</p> |
| <p>03 Geometry-agnostic
Engineered to handle the widest spectrum of components across our product range.</p> | <p>04 High-precision overlay
Consistently uniform deposit on dissimilar materials and complex profiles.</p> |
| <p>05 Operator-first HMI
Intuitive interface for fast set-up, recipe management and live adjustments.</p> | <p>06 Service-friendly architecture
Modular sub-systems engineered for minimum downtime and maximum mean-time-between-service.</p> |

“One cell. Vertical, horizontal, butt-weld and overlay – without compromising the part.”

— AT A GLANCE

- ◆ Dual orientation capability
- ◆ Integrated butt welding
- ◆ Geometry-agnostic
- ◆ High-precision overlay

ENGINEERED FOR

Production-grade duty cycles. Qualified processes. Unattended, repeatable output.

*Dynamic Rotational Torch System*

ENGINEERED BY WELDMATIX FUSION

◆ ENGINEERED SYSTEM

| “Move the torch. Not the part.”

Dynamic Rotational Torch System

DRT — Multi-Angle Borehole Overlay

The DRT keeps the job stationary and moves the welding intelligence around it. Auto-centred, multi-angle and recipe-driven — designed for valves, chokes, hubs and large pipe fittings where setup time decides margin.

— FEATURES & ENGINEERING

- | | |
|---|---|
| 01 Auto-centring technology
Eliminates manual indication and dramatically reduces set-up time. | 02 Multi-angle borehole overlay
Cladding of multiple bores at varying axes without re-fixturing. |
| 03 Fixed-job advantage
The part stays bolted down — alignment, repeatability and safety improve in step. | 04 Programmed geometries
Built-in routines for race-tracks, ring grooves, cylindrical and conical bores. |
| 05 Data-logged operation
Full operational telemetry for QA traceability and process analysis. | 06 Productivity-engineered
Designed to lift throughput on high-mix, high-value components. |

— APPLICATIONS & SPECIFICATIONS

VALVE BODIES

LARGE PIPE FITTINGS & FLANGES

MULTI-BORE COMPONENTS

CYLINDRICAL TO CONICAL BORES

RACE-TRACKS

RING GROOVES

ENGINEERED FOR

Production-grade duty cycles. Qualified processes.
Unattended, repeatable output.



Vertical Cladding System

ENGINEERED BY WELDMATIX FUSION

◆ ENGINEERED SYSTEM

Vertical Cladding System

PLC-Based Hot-Wire Pulsed TIG

A fully-automated workshop cladding platform. Twin hot-wire auto-pulsed TIG, intelligent AVC and a virtual pendant on HMI — engineered for unattended, repeatable overlay on base and bore alike.

FEATURES & ENGINEERING

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| <p>01 Base & bore cladding
Handles internal bore and external base overlay from one platform.</p> | <p>02 Auto AVC direction
Automatic selection of AVC direction for ID and OD cladding.</p> |
| <p>03 Auto AVC axis
Automatic axis selection for both 1G and 2G welding positions.</p> | <p>04 Auto speed compensation
Dynamic speed adjustment for taper bores and face cladding.</p> |
| <p>05 Virtual pendant on HMI
Full machine control surfaced on the touch panel — no separate teach box required.</p> | <p>06 Touch-retract function
Consistent arc starts and fixed HF stand-off, weld after weld.</p> |

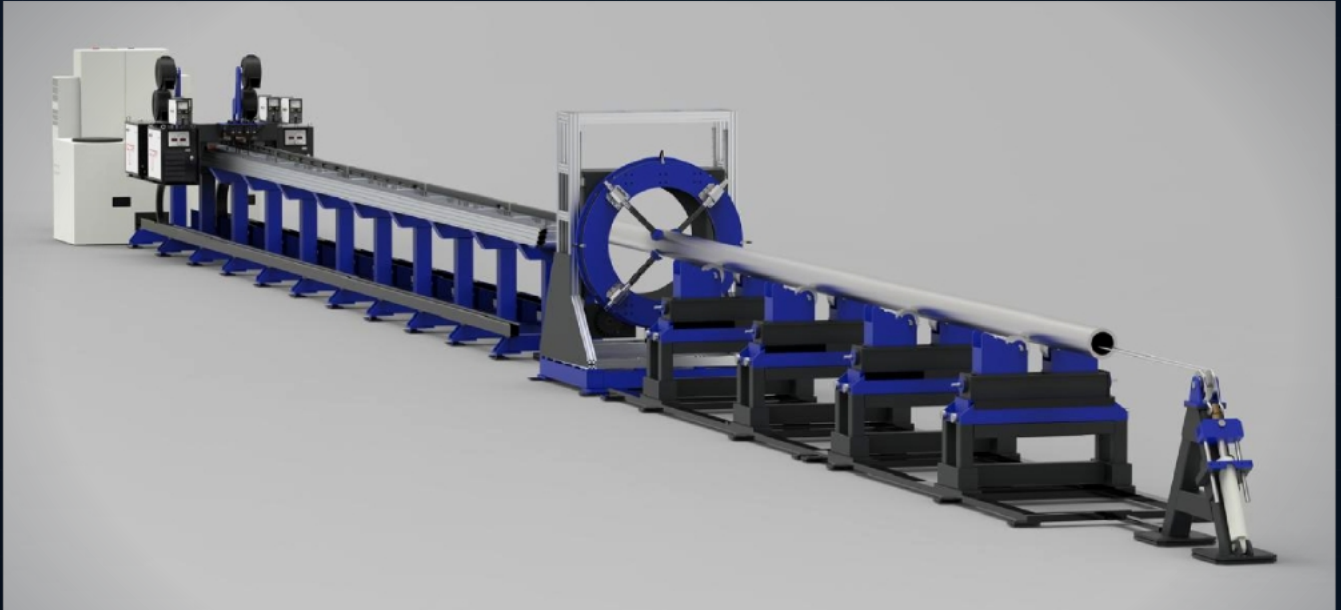
“Workshop-installable. Process-engineered. Production-ready.”

AT A GLANCE

- ◆ Base & bore cladding
- ◆ Auto AVC direction
- ◆ Auto AVC axis
- ◆ Auto speed compensation

ENGINEERED FOR

Production-grade duty cycles. Qualified processes. Unattended, repeatable output.



Pipe Cladding Rigs — Twin & Quad Head

ENGINEERED BY WELDMATIX FUSION

◆ ENGINEERED SYSTEM

Pipe Cladding Rigs — Twin & Quad Head

HW-TIG Internal Overlay, 6" – 56"

Pipes rotate on precision rollers while a torch assembly mounted on a stiffened lance guides hot-wire TIG heads along the inner wall. A 4-head HW-TIG configuration delivers a near-mirror corrosion-resistant overlay at industrial throughput.

— FEATURES & ENGINEERING

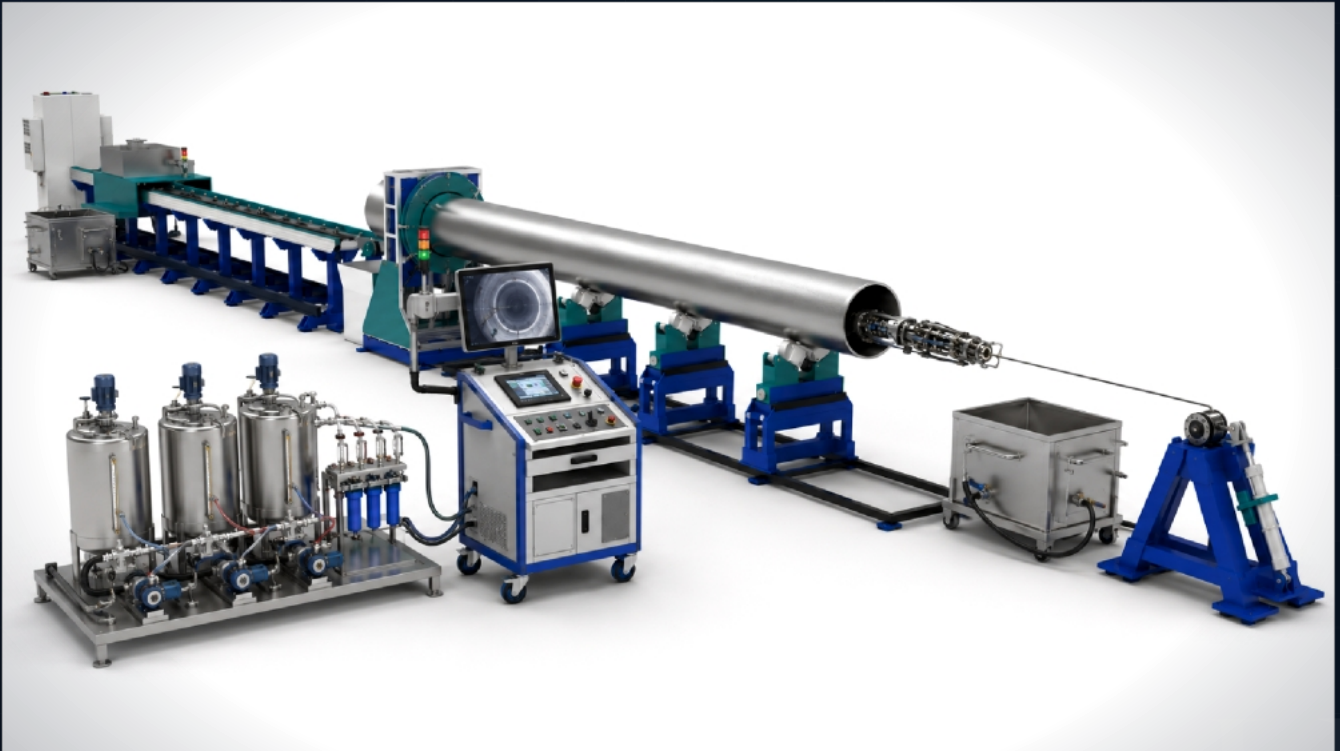
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| <p>01 Pipe diameter</p> <p>6" to 36"</p> | <p>02 Pipe length</p> <p>1 m to 12 m</p> |
| <p>03 Wire options</p> <p>Single-wire or twin-wire, switchable on / off</p> | <p>04 Models</p> <p>Twin-head and Quad-head configurations</p> |
| <p>05 4-head HW-TIG</p> <p>Quad-head delivers a uniformly smooth corrosion-resistant layer at superior cadence.</p> | <p>06 Low dilution</p> <p>Optimised hot-wire process yields low dilution between deposit and substrate — reliable, repeatable, qualified.</p> |

— AT A GLANCE

- ◆ Pipe diameter
- ◆ Pipe length
- ◆ Wire options
- ◆ Models

ENGINEERED FOR

Production-grade duty cycles. Qualified processes. Unattended, repeatable output.



Auto DPT Rig—Pipe Flaw Detection Skid

ENGINEERED BY WELDMATIX FUSION

◆ ENGINEERED SYSTEM

“Inspect with the same discipline you welded.”

Auto DPT Rig—Pipe Flaw Detection Skid

Closed-Loop Dye-Penetrant Inspection

A high-end inspection skid built around a VFD-pumped, closed-loop spraying system. Precision jets deliver water, dye and developer with controlled volumes and timing — qualified for post-cladding and weld inspection on large-bore pipe.

FEATURES & ENGINEERING

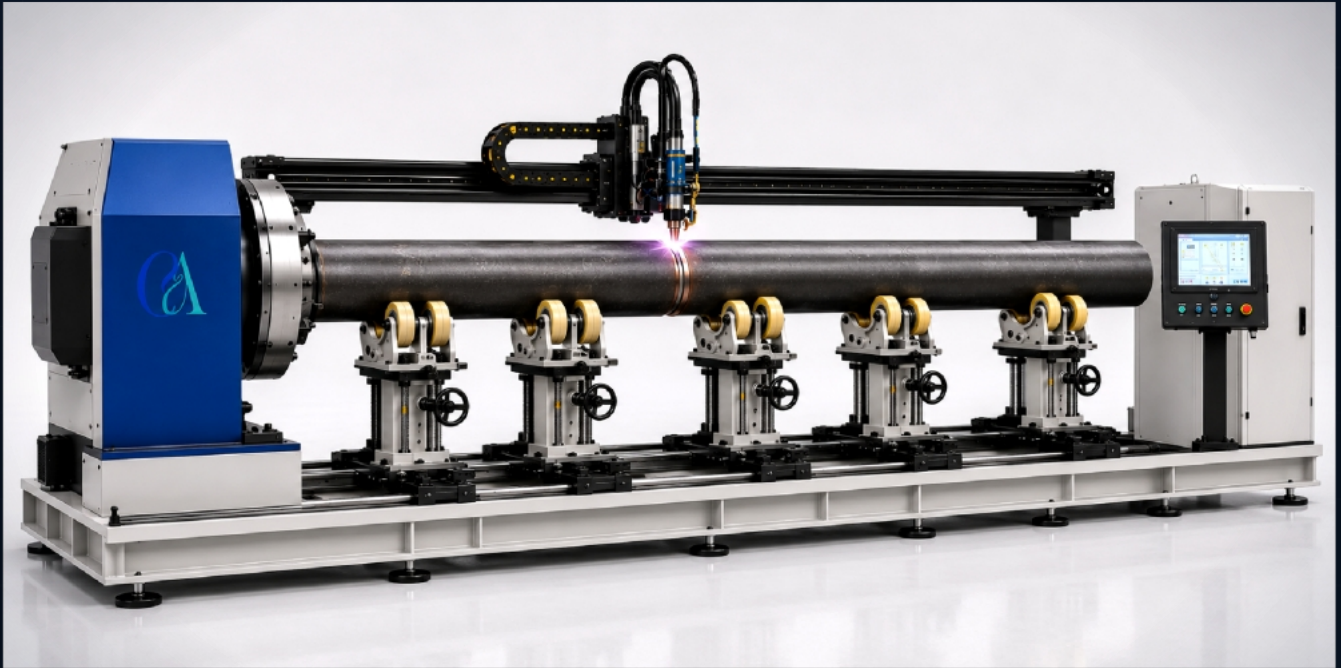
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|---|--|
| <p>01 Pipe diameter
Suited to pipes 8" diameter and above</p> | <p>02 Pipe length
Accommodates 1.5 m to 12 m</p> |
| <p>03 Pumping
VFD-operated pump system for water, dye and developer</p> | <p>04 Control
Closed-loop control with full process telemetry</p> |
| <p>05 Spraying
Precision-engineered jets for controlled spray patterns</p> | <p>06 Integration
Designed to dock into a Weldmatix Fusion cladding line — one continuous workflow.</p> |

AT A GLANCE

- ◆ Pipe diameter
- ◆ Pipe length
- ◆ Pumping
- ◆ Control

ENGINEERED FOR

Production-grade duty cycles. Qualified processes. Unattended, repeatable output.



Butt Welding Station

ENGINEERED BY WELDMATIX FUSION

◆ ENGINEERED SYSTEM

Butt Welding Station

Precision Pipe & Spool Welding Automation

Engineered for precision butt welding of pipes, spools and pressure parts. Servo-controlled motion meets an EWM synergic power source – delivering code-quality root, fill and cap sequences, repeatably.

— FEATURES & ENGINEERING

- | | |
|--|--|
| 01 Servo rotator + carriage
Deterministic motion control on both rotational and travel axes for consistent bead geometry. | 02 EWM synergic power source
Industry-leading inverter platform with optimised arc characteristics for GTAW / GMAW. |
| 03 Auto Hotpass / Fill / Cap sequencing
Multi-pass recipes execute without operator intervention – repeatability you can audit. | 04 Tacking & alignment fixtures
Integrated tacking and alignment ensure fit-up tolerance before the first pass. |
| 05 Weld parameter logging
Per-weld traceability for QA – every parameter, captured and time-stamped. | 06 IG rotated position
Optimised for downhand welding to maximise deposition and minimise rework. |

“Code-quality welds. Repeatably. With full traceability.”

— APPLICATIONS & SPECIFICATIONS

PIPE SPOOL FABRICATION

PRESSURE PARTS

SUB-ASSEMBLY WELDING

EPC PROJECT EXECUTION

PIPE OD Ø50 – Ø500 MM

ENGINEERED FOR

Production-grade duty cycles. Qualified processes.
Unattended, repeatable output.



Boiler Tube Cladding Station

ENGINEERED BY WELDMATIX FUSION

◆ ENGINEERED SYSTEM

| "Precision cladding. Superior performance."

Boiler Tube Cladding Station

Precision Cladding. Superior Performance.

A fully integrated, automated solution for high-precision cladding of boiler tubes using GTAW (TIG) hot-wire and compatible welding processes. Containerised, servo-driven, and engineered to deliver superior cladding quality, shift after shift.

— FEATURES & ENGINEERING

- | | |
|--|--|
| <p>01 Motorized headstock drive
Servo motor drive ensures smooth, precise and consistent rotation for superior cladding quality.</p> | <p>02 Torch slide on rear track
Linear rail mounted at the rear of the machine – torch projects forward and is positioned exactly at the tube centerline.</p> |
| <p>03 Adjustable support rollers
Multiple heavy-duty rollers with quick adjustment for different tube diameters (1" to 8").</p> | <p>04 Compact tailstock support
Rigid support for accurate alignment and positioning – no rotation, no compromise.</p> |
| <p>05 Chilled water flow inside tube
Water enters through the tailstock and flows inside the tube to remove heat – prevents distortion and overheating.</p> | <p>06 Containerised cell
Fully enclosed, PLC-controlled system with real-time monitoring and integrated chiller.</p> |

— APPLICATIONS & SPECIFICATIONS

TUBE Ø: 1" - 8" (25.4 - 203.2 MM)

TUBE LENGTH: UP TO 12,000 MM

WALL THICKNESS: 1.5 - 15 MM

SS / NI-BASE / CO-BASE / INCONEL

POWER: 450 A, 3-PHASE, 50/60 HZ

POSITION ACCURACY: ± 0.2 MM



Twin Head Boiler Tube & Tube Wall Cladding System

ENGINEERED BY WELDMATIX FUSION

◆ ENGINEERED SYSTEM

Twin Head Boiler Tube & Tube Wall Cladding System

High-Productivity Twin-Torch Overlay

"High productivity. Twin torches. Superior repeatability."

A high-precision automated twin-torch cladding system for boiler tubes and tube walls — delivering superior productivity, repeatability and deposition quality across panels up to 3 m wide.

FEATURES & ENGINEERING

- | | |
|---|---|
| <p>01 Twin welding heads
Independent twin torches deliver higher productivity and parallel deposition.</p> | <p>02 Precise motion control
Servo-controlled linear axes — 1,500 mm vertical stroke, 300 mm cross-slide, ±0.2 mm positioning accuracy.</p> |
| <p>03 Dual wire feeders
Independent wire feeders for stable, consistent welding. 15 kg spool capacity each.</p> | <p>04 MIG / TIG (HotWire)
Process flexibility — configurable for the metallurgy and deposition rate the job demands.</p> |
| <p>05 Water-cooled torches
Heavy-duty MIG/TIG torches engineered for continuous high-deposit operation.</p> | <p>06 Heavy-duty structure
Rigid frame design (1,200 × 800 × 2,400 mm) for stability, accuracy and long service life.</p> |

APPLICATIONS & SPECIFICATIONS

TRAVEL SPEED: 50 - 1,000 MM/MIN

WELDING SPEED: 50 - 800 MM/MIN

POWER: 415 V • 3-PHASE • 50 HZ

CONTROL: PLC + HMI

FLOOR-MOUNTED

WATER-COOLED

ENGINEERED FOR

Production-grade duty cycles. Qualified processes.
Unattended, repeatable output.

FIG • HERO



FIG • DETAIL



Laser Clad & Cutting Solutions

ENGINEERED BY WELDMATIX FUSION

◆ ENGINEERED SYSTEM

“When tolerance becomes the product.”

Laser Clad & Cutting Solutions

High-Energy Beam Platforms

Custom-engineered laser cladding and cutting platforms for components where heat input, deposit precision and surface finish are non-negotiable. Built to specification — from cell layout to motion architecture.

FEATURES & ENGINEERING

- | | |
|--|--|
| <p>01 Low-heat-input deposition
Laser cladding reduces HAZ and distortion versus arc processes — critical for thin-wall and dissimilar metal joins.</p> | <p>02 Fine-feature cutting
High-precision cutting of complex profiles in plate, tube and section.</p> |
| <p>03 Bespoke integration
Cells configured to your component family, throughput and traceability requirements.</p> | <p>04 Talk to our engineers
Every laser system is scoped, simulated and quoted as a turn-key build.</p> |

AT A GLANCE

- ◆ Low-heat-input deposition
- ◆ Fine-feature cutting
- ◆ Bespoke integration
- ◆ Talk to our engineers

ENGINEERED FOR

Production-grade duty cycles. Qualified processes. Unattended, repeatable output.

◆ INDUSTRIES

Industries *we serve.*

Where the cost of a single defective weld is measured
in millions – and where downtime is unacceptable.



Oil & Gas — Subsea &
Surface



Power Generation &
Nuclear



Waste-to-Energy Boilers



Chemical &
Petrochemical



Defence & Aerospace
Components



Valves, Chokes &
Wellheads



Process Piping &
Pressure Vessels



CRA Pipe Manufacturing

◆ COMPONENT FOCUS

Components we *clad, weld & inspect.*

- ◆ Subsea & surface valves
- ◆ Wellhead & X-mas tree components
- ◆ Hubs, connectors & flanges
- ◆ Process piping (6" – 36")
- ◆ Pressure vessels & heads
- ◆ Race-tracks, ring grooves, complex bores

Engineered to *commission.* Supported for *life.*



OEM-grade engineering

Every system is designed, programmed, fabricated and qualified in-house – under one engineering discipline.

Process before product

We sell qualified welding and cladding processes. The machine is what delivers them, repeatably, on your floor.

Built for production

PLC control, virtual pendants, recipe management, data-logging – engineered for unattended, repeatable output.

Service & spares for life

Long-life spares, retrofit upgrades, on-site commissioning and operator training – for the full life of the asset.

◆ LIFECYCLE OF THE ASSET

- ◆ On-site commissioning & process qualification
- ◆ Operator and maintenance training programmes
- ◆ Annual maintenance contracts (AMC)
- ◆ Long-life spares & retrofit upgrades
- ◆ Remote diagnostics & process support

FAT

FACTORY
ACCEPTANCE

SAT

SITE
COMMISSIONING

AMC

ANNUAL
CONTRACTS

"If a process can be qualified, repeated and serviced — we build the machine that does it."

TALK TO OUR ENGINEERS

Tell us what you'd like to *weld.*

Send us a drawing, a code requirement, or a problem you cannot solve on the floor. We will scope a system — process-first — and engineer the machine that delivers it.

WORKS

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Navi Mumbai

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WRITE TO US

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