



We design and manufacture a diverse range of Welding and Surface Engineering Equipments with integrated Automation.

Increase productivity, enhance quality and eliminate defects with our automation systems. Our commitment to provide reliable, cost-effective and most advanced quality Welding, Cutting and Automation systems have guided our company in the market for more than two decades. Our tradition of innovative solution and ethical business placed us as one of the best in market.

HARDFACING / CLADDING

Plasma Transferred Arc - PTA



- CNC based fully automatic operation.
- Suitable for Circular, Segment and Spiral welding
- Applications: Seat rings, wedges, disc, nozzles, valve base, valve seat, extrusion screw, etc.

Hardbanding



- Fully automatic operation with single push button
- Suitable for Circular welding
- Application: Tool joint, drill collar, drill pipe pin & box, heavy weight drill pipes, etc.

Bore Welding / Cladding

- 4000mm Torch stroke
- 50mm minimum pipe dia
- Circular, segment & spiral welding
- ID as well as OD welding
- 0.8, 1.2, 1.6, 1.8, 2.5mm wire size
- Applications: Drill pipes, valves, etc.



WELDING PROCESS

Plasma Welding



- IGBT inverter based
- Integrated HF and Pulsing system
- Weld in single pass square butt upto 6mm plates

SAW Welding



- IGBT inverter based
- Highly stable arc with precision output control
- Deep penetration and high deposition

MIG / FCAW / CO2 Welding



- Process: MIG, GMAW, TIG, SMAW
- Current range: 10 - 500 Amp
- Flextec 450, cc/cv
- Make: Lincoln Electric

PRECISION WELDING

Micro Plasma Welding



- Capable of welding metal sheets of 100 microns to 1.8mm thick
- Available in current range of 1 – 50 Amp
- With built in HF and Pulsing facility

Micro TIG Welding



- Capable of welding metal sheets of 0.1 to 1.2mm thick
- Available in current range of 1 – 50 Amp
- With built in HF and Pulsing facility

PLASMA CUTTING MACHINE



- IGBT inverter based
- Can cut up to 150mm thick SS plates
- Air Plasma up to 80mm
- Nitrogen Plasma from 100 to 150mm
- Air cooled torch up to 50mm
- Water cooled torch from 50 to 150mm
- 100% duty cycle
- Suitable to interface with portable or gantry type CNC profile cutting system

- **High consumable life**

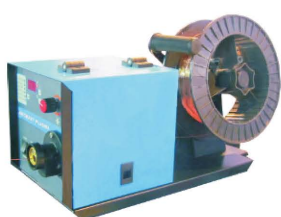
Water cooled



Air cooled



COLD WIRE FEEDER



- Pulse/Continuous select switch
- Digital display of all parameters
- Consistent and high quality weld

WATER CHILLER



- Outlet temp: 10 - 25° C
- Tank capacity: 25, 50, 100 ltrs
- Cooling capacity: 1, 2, 3, 5 Ton

INDUSTRIAL AUTOMATION

Tank Rotator / Turning Rolls



- Lead screw, Bolt & Self aligning type
- AC geared motor with VFD ensures smooth and steady operation
- Weight capacity: 2 Ton - 1200 Ton
- Tank Diameter: 150 - 8000mm

Positioner / Turntable



- Tilting facility available for positioner up to 135°
- AC geared motor with VFD ensures smooth and steady operation
- Weight capacity: 100kg - 50000kg
- Faceplate Diameter: 400 - 4000mm

Column & Boom / Manipulator



- Column & boom stroke from 500 - 3000mm
- Optional moving and rotating base
- Lead / ball screw mechanism for light duty model
- Rack / pinion mechanism for heavy duty model

Linear Fixture



- Linear ball screw mechanism
- Up to 1000mm length
- Applications: Plasma welding, TIG, MIG Process

WELDING AUTOMATION

Welding Oscillator / Weaver



- Stroke width of 25, 50, 100mm
- Payload capacity of 5, 10 & 15kg
- Ball screw or rack pinion mechanism
- Stepper motor driven for easy controllability

Welding / Cutting Trolley



- Speed of 100 - 1000mm / min
- Fine adjustment vertical slide
- Torch holder to suite torch dia
- 1.8 mtr long rail, (can be extended)

Welding Lathe



- AC geared motor driven head stock with 0.2 - 2 rpm speed
- Pneumatic lever operated tail stock
- 500mm dia and 1200mm length capacity

Specifications are subject to change without notice

WELDING TORCH

- Various welding torches for different welding processes
- Custom built torches also available
- Range of ID & OD torches



PTA (OD)



PTA (ID)



MIG / MAG



TIG



Plasma



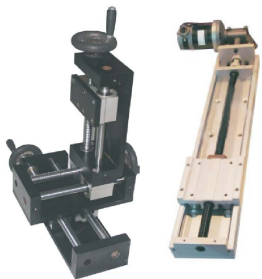
Plasma with Wire feed

PLASMA CUTTING TORCH



- Hand / Machine type
- Air cooled up to 50mm cutting
- Water cooled from 50 mm to 150mm cutting
- Available with 90° and 120° inclination

MANUAL / MOTORIZED X - Y SLIDE



- Stroke length from 50 - 300mm
- Payload capacity from 4 - 70kg
- 1, 2 and 3 axis movement
- Custom built slides available

POWDER FEEDER



- Hopper volume of 700cc
- VFD speed control
- Suitable for ferrous / non-ferrous metal powder
- Applications: PTA, Plasma spray

SPECIAL PURPOSE WELDING MACHINE



For welding hose pipes



For welding gas / air tanks



For welding starter gears

HARDFACING / CLADDING JOB WORK



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