

SPW SPECIAL
PIPING
WORKS FZE
— DUBAI BRANCH —



**SPECIAL
PIPING WORKS**
TURNKEY SOLUTIONS
FOR THE PIPING INDUSTRY.



INDUCTION BENDING

SPECIAL PIPING WORKS FZE HAS A WEALTH OF 30 YEARS MANUFACTURING EXPERIENCE IN HOT INDUCTION BENDS, SUPPLYING TO MAJOR OIL & GAS COMPANIES AND THE POWER GENERATION SECTOR.

As a result of our experience and continued investment in research and development, Special Piping Works FZE has invested in state of the art PLC controlled induction bending machines capable of producing bends with diameter range from 4" (114mm) up to 36" (914mm) of various thicknesses. Our Induction bending machines guarantee high productivity, with excellent dimensional tolerances, whilst ensuring a high degree of repeatability.

These machines are capable of producing bends to meet all international codes, standards and specifications including ISO 15590-1, ASME B16.49 and DNV OS F101. We have employed the most up to date technology to satisfy all current quality requirements which include the special feature of data recording of all relevant parameters.



Hot Induction Bending Machine	DUU 900s	DDU 400s
Size of Pipe	12" to 36"	4" to 18"
Bending Radius	Min. 2D, Max. 4600mm	Min. 2D, Max. 2300mm
Thickness (mm)	Maximum 60mm	Maximum 60mm
Bending Angle	Both machines are capable of bending angles up to 180 degrees	

MARKETS SERVED

Offshore	Shipbuilding and Repair
Oil and Gas	Power Generation
Nuclear	Vessel Manufacturing
Infrastructure	Waste Water Treatment
Petrochemical	Skid Mounted Equipment





ECONOMIC ADVANTAGES

In steel pipe line systems, where monitoring on a regular basis is required, weld joints are very cost intensive.

Induction bends on the other hand provide an opportunity to reduce girth welds to an absolute minimum.

Every removed weld offers the following product benefit:

- Reduced weld edge preparation
- Reduced weld joint pre-heating
- Reduced weld joint welding
- Reduced weld joint NDT
- Reduced weld joint repairs
- Reduced weld joint NDT of repair areas
- Reduced chance of failure



DESIGN ADVANTAGES

In addition to an increased saving potential, induction bent steel pipes offer design advantages by eliminating the necessity of welding elbows in confined, difficult to access spaces. Due to the fact that lengths of up to 12mtrs can be produced with multi-bends or as individual bends, the saving of welds opens up new development perspectives.

With the bending capabilities of our machines a controlled execution of all bends made possible.



SPOOL FABRICATION

Our 19,000 m² covered facility, equipped with EOT and Gantry cranes is utilized for the fabrication of various sizes of pipe spools in CS, solid CRA and CS Inconel 625/825 cladded configurations. Cladded pipes are being spooled of various diameters and thicknesses. Our manual welding team is very experienced and qualified for multiple procedures.

Our pipe spooling process is also equipped with automated welding solutions which include sub arc stations, auto butt welding rigs and 60 inverter type welding machines capable of producing in excess of 30,000 dia inch/month. In house QA/QC includes RT and UT weld examination plus hydro testing with the possibility of onsite welding services to enable SPW to offer a turnkey solution to meet client requirement.



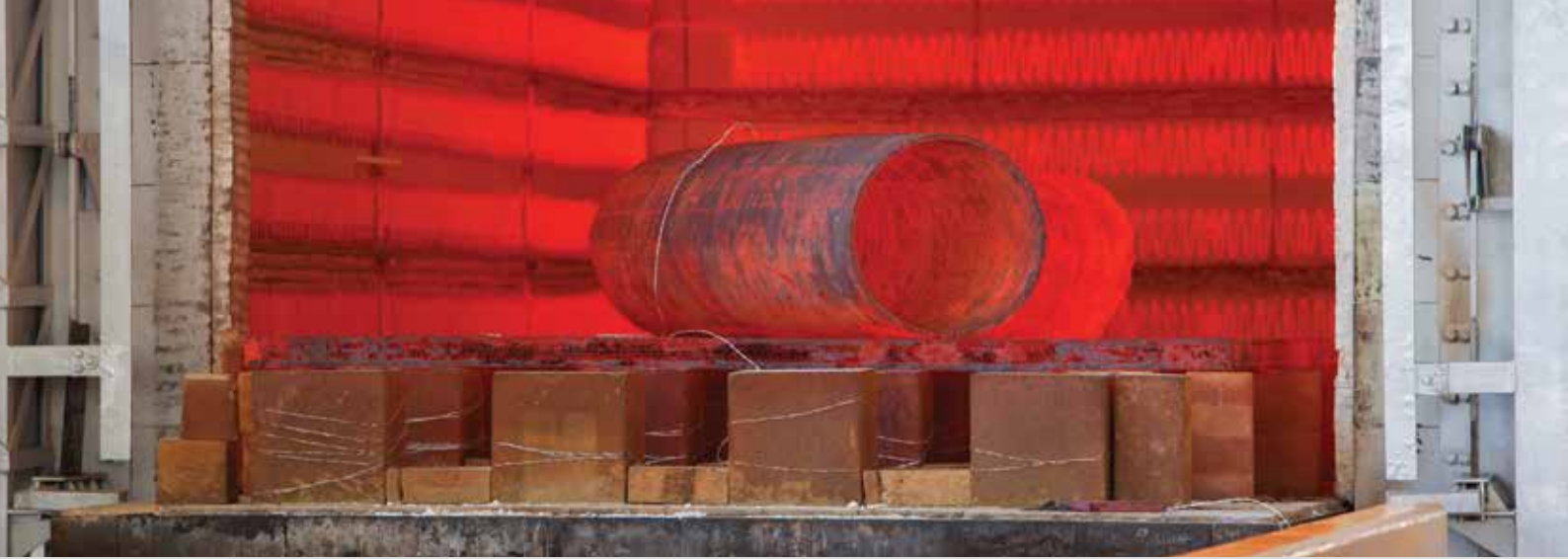
SITE WELDING AND INSTALLATION

SPW's continued effort to give our customers the best possible service has seen in recent years the development and success of our onsite welding, fabrication and installation project teams.

Further strengthening our commitment to the "Turnkey Supply" strategy, we work with our customer to develop a full production and installation schedule to suit their project timetable.

SPW have supported major clients including PDO, Pertamina, Samsung, ZADCO and Petrofac in the Middle East, South East Asia and Caspian Regions.

Our dedicated team of fully qualified and accredited welders, fabricators and site managers can take the stress out of our customers piping projects with a professional, efficient and cost effective installation service.



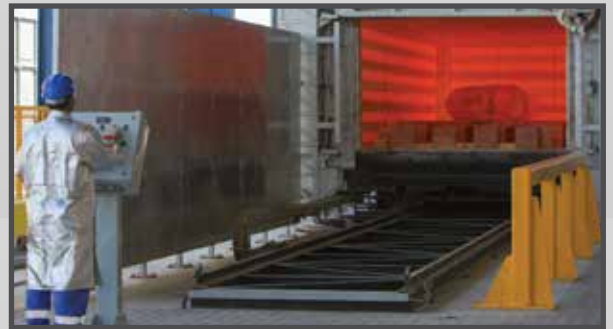
HEAT TREATMENT

At SPW we aim to obtain desired material properties by utilizing our cutting edge heat treatment facility. Which consists of furnaces that are accurate and maintain consistent temperature control across the hearth, allied to rapid transfer time to our state of the art quenching facility to ensure our customers optimum achievable properties from any material which they present to us.

There are three available furnaces with temperatures range up to 1200 °C allowing heat treatment services to include Normalizing, Annealing, Austenizing, Tempering and Stress Relieving to be offered.

FURNACE DIMENSIONS

	Length	Width	Height
Furnace 1	8.5m	2.8m	1.5m
Furnace 2	6m	3m	3m
Furnace 3	1.5m	1.5m	1.5m



MACHINING

The SPW machine shop has been established to deliver world class deep hole boring, drilling and honing solutions to all industrial sectors including Oil & Gas Industries and Power Generation. We are equipped with a range of machines including Beveling Machines, CNC Milling, CNC Turning, Horizontal and Vertical Boring, Center Lathes and Spilt Frame Beveling machines. We are focused on supplying value added services to meet our client's ever demanding specialized needs. SPW FZE offers these services as a one stop machining solution.

Capacity For **Honing Machine**

Minimum Bore	100mm
Maximum Bore	800mm
Maximum Length	8500mm

Capacity For **Boring Machine**

Solid Boring	45-125mm
Trepanning	Maximum 250mm
Counter Boring	Maximum 250mm
Maximum Length	6500mm

SPECIAL PIPING WORKS FZE



SERVICE RANGE

- Weld Overlay Cladding
- Induction Bending Solutions
- Deep Hole Boring, Drilling and Honing
- Heat Treatment
- Pipe Spooling & Fabrication
- Full Site Installation and Fabrication

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