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Technical Data

Xioms dual FBE Coating System for coating welded pipe joints with a nominal outside diameter of 4" to 48", consists of a semi automatic coating module that is suspended on a side boom or crane and lowered onto the pipe joint, the ancillary support equipment is mounted onto the crane truck or second vehicle.

Induction heating technologies are frequently used as part of the field joint coating process to raise the temperature of the pipeline surface for coating application. As part of its commitment to advanced process technologies and high-quality field joint coating solutions, XIOM have at their disposal a comprehensive specialized induction heating generators and coils.

Applications:

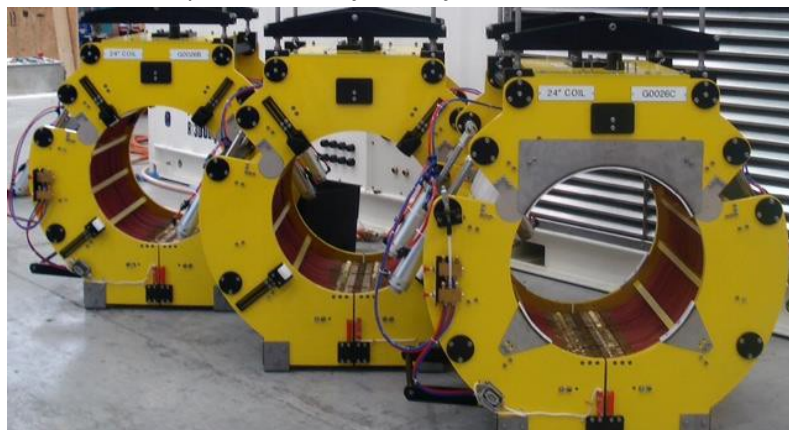
- Induction heating equipment is a key element of Xiom strategy to deliver coating plant standard™ fields joint coatings coating to the onshore and offshore pipeline construction . Portable, diesel-powered generators and clamp-style coils are fast, efficient and give uniform heating to the field joint coating area

Process Control:

- The heating process can be controlled by varying the output power of the generator, heating time and clamp coil design to produce a uniform, heating profile across the surface of the field joint.

High Productivity:

- Induction heating equipment can result in higher coating productivity due to quicker heating cycles and consistent performance, joint to joint.



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Item 1 - FIELD JOINT COATER

SCOPE OF EQUIPMENT

Qty: 1

Description: **Field Joint Coating Machine**, model 6" - 26", comprising: 1 Suspension frame,
Comprising:

- Main drive frame (horse shoe shape), with open bottom
- Frame support pedestals for positioning onto the pipe
- Clamping system to fix position on pipe
- Pipe diameter adjustment & unit centering system (manual setting)
- Rotation ring (horse shoe), allowing oscillating rotation over 360° of the pipe Circumference.
- Electric servo-drive motor to power the rotation ring
- Two mounts, each for fitting a spray box.
- Two pneumatic cylinders for adjusting the spray boxes and to retract it backwards in order to pull off the frame from the pipe
- Spray box suitable for a joint length of 450 mm (to be indicated by the client). The spray box contains the FBE nozzles. The number of nozzles inside the box, depends on the length of the field joint
- Storage spool for suction hoses, integrated in the machine,
- 2 x Storage spool for powder supply hoses, integrated in the machine, size 16" and 20"
- Connections for electric cables, pneumatic hoses
- Hoisting point for use with overhead cranes
- E-stop

Note: for use on small diameter pipe, machine should remain being suspended by the overhead beam



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Qty: 1

Description: **Coating material handling skid**

Comprising:

- Skid frame suitable for forklift pick-up
- 2 Fluidized beds approx.100 L for dual FBE
- Up to 12 connections for powder pumps on each fluid bed
- 12 Powder pumps on each fluid bed
- Pressure controls for powder pumps in order to control the flow to each nozzle. The pressure controls are directly connected to the PLC.
- 1 Set of powder feed hoses for FBE, including protection sleeves

Qty: 1

Description: **Controls**

Consisting Of:

- Operator box, integrated in the manipulator frame
 - Electric connection cables including protection sleeve with connectors, (total length 15mtr)
 - Electric/ pneumatic cabinet integrated with Fluid bed assembly. Fitted with PLC controlled air pressure control modules for the powder guns
 - Main control panel with:
 - power connection
 - control & alarms
 - PLC unit Siemens S7
 - 6" touch screen panel for programming of:
 - the cycle movements
 - the individual pressure/flow settings of each nozzle - the amount of nozzles in operation
- * Controllers for the variable speed drives * E-stop

Qty: 1

Description: **Dustfilter**

Consisting of:

- Cardridge filter with air-jet cleaning system
- Reinforced Housing with Blastpanel, ATEX zone 22 certification (inside) - Ventilator with silencer, 3000 m³/hr capacity, frequency controlled
- Dustbin with slide valve
- Air retraction manifold with suction hoses

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Note: Dust filter can be upgraded for ATEX zone 20 (inside) and flameless pressure relieve system for a surcharge

Qty: 1

Description: **Cable spooling system**

Consisting of:

- Hose guidance frame with guidance rails in 2 longitudinal (stroke approx. 1750 mm) and towards pipe direction (stroke approx. 1250 mm)
- Auto-pull tensioning system for both ventilation hose and powder hoses in order to feed and retract the hoses during spooling / unspooling.



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Item 2 - **FIELD JOINT HEATER**

SCOPE OF EQUIPMENT

Qty: 8

Description: **8 Induction coils, clamp design, for diameters, 4" 6", 8", 12", 16", 20", 24" and 26", each**

Consisting of:

- Heavy duty type with fiberglass body structure
- Heating up to length 450 mm
- External closing clamp, foot operated with locking pin for safety against premature opening
- Lifting hooks
- Silicon heat insulation
- Set of interconnecting cables, consisting of:
 - Length 25 meters, for connection generator to the induction coil

Note: Other sizes can be quoted upon request.

Qty: 1

Description: **Induction generator 120 kW (mobile unit)**

Consisting of:

- Enclosed unit housing with lifting lugs and fuel tank -Powered by diesel motor
- Power control panel
- Contact thermocouple for quick check of pipe temperature
- Remote unit with 25 M cable for start, stop and E- stop
- Automatic power factor adjustment

