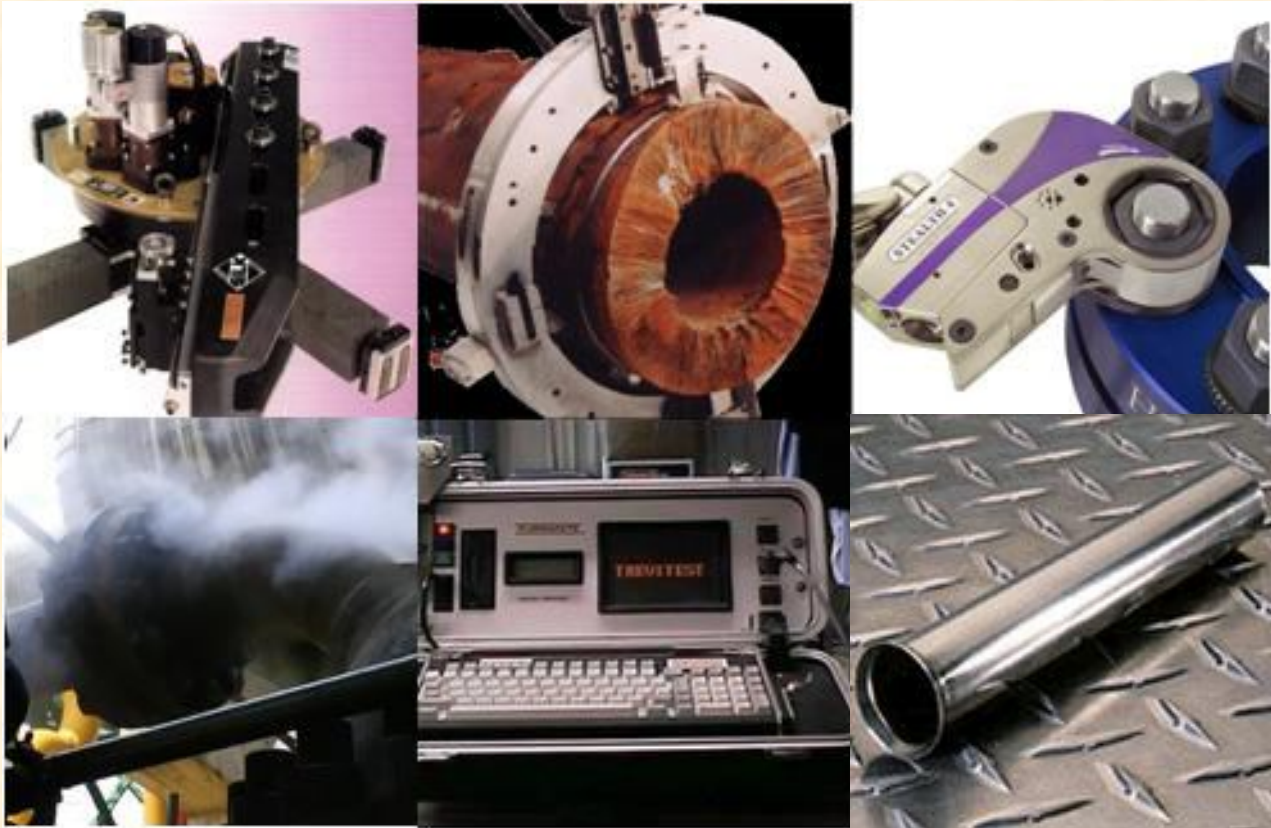


FURMANITE

MAXIMISING UPTIME



SERVICES

Onsite Machining • Pipe Cold Cutting and Beveling • Cold and Hot Bolting
FURMANITE-IPSCO Hot Tapping • "TREVITEST" Online Safety/Relief Valve Testing
CTI – Tube Insert • Online Leak Saling • Composite Repair

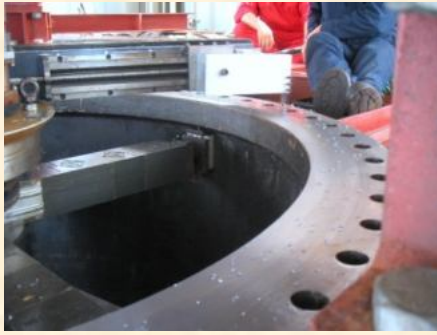
ADVANTAGES

Local Availability, Quick Responses, International Support, Wide range of Services, Vast Experiences

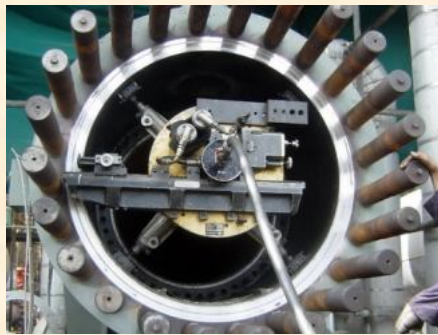


PT HEXAREKA NIAGATAMA, Jl. Cipinang Muara I no.21B, Jakarta 13430, Indonesia
Phone: +62 21 8607367/68, Fax: : +62 21 8605385, email: hexareka@furmanite.co.id

ONSITE MACHINING



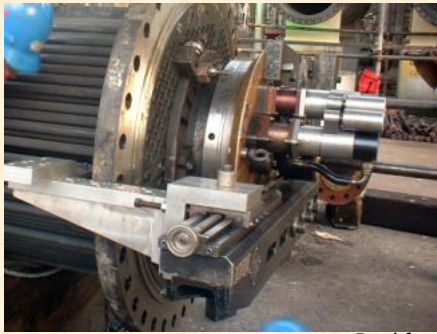
Horizontal



Vertical



Overhead



Backface



Compressor Seat Repair



XY Milling Machine



Exchanger Partition Milling

FLANGE FACING

- Heat Exchangers, flange connections, valve seat, manways (round/oval), etc.
- Orientation: backface, overhead, vertical, horizontal
- Mounting:
 - Inside mounting
 - Outside mounting
- Up to 120 inch diameter and more

MILLING

- H/Exchanger division plates, bedplates, pedestal tracks, keyways etc
- XY Milling machine available

RELATED SERVICES

Journal Turning, Drilling, Trepanning, Fine Boring and Reaming, Grinding and Polishing, Stud drilling

Make: Furmanite - SILK

PIPE COLD CUTTING and BEVELING



SERVICE

Externally mounted portable pipe cutting and beveling system.

- Cuts and bevels pipe of any wall thickness and any size
- Materials include: Carbon steel, Steel alloys, Hastalloys, Inconels
- Low Clearance operation
- Precise feed for controlled cutting

Make: Wachs

COLD and HOT BOLTING



SERVICE

Hydraulic Torque Wrench – A simple and safe method for ensuring controlled tightening and loosening of bolts.

- Electric / Pneumatic driven hydraulic power pack
- Standard Socket type and Cassette type for Low Clearance operation
- Wide range of sizes

Make: Hytorc

HOT TAPPING



SERVICE

Drilling machine to cut a hole into an in-service, under-pressure piping system.

- Hot Tapping, Line Stopping
- Split Mechanical Pipeline Hot Tap Fitting
- Land and Sub Sea service

Furmanite IPSCO

HOT TAP MACHINE and ACCESSORIES

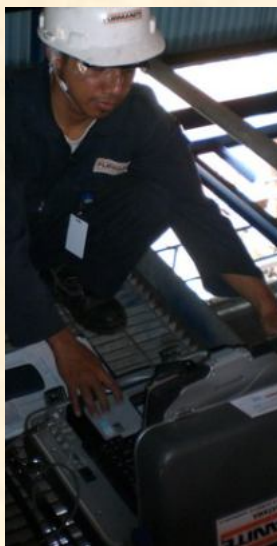
- IP-100 (from ½" -4")
- IP-152 (from 3"-6")
- IP-304 (from 3" - 12")
- IP-406 (from 3"-16")
- IP-508 (from 3" - 20")

APPLICATIONS

Power generation, Offshore oil and gas production facilities and pipelines, Refineries and petrochemical plants, Oil and Gas transmission and dist. pipelines

Make: Furmanite - IPSCO

TREVITEST



SERVICE

Furmanite patented Safety /Relief Valve Testing System under normal operating condition

ADVANTAGES

- No plant downtime required
- Less time required to commission the plant after shutdown
- Only valves that require an overhaul need to be removed from the line
Most spring loaded valves including welded-in valves can be tested online
- No need for temperature compensation for set pressure

CTI TUBE INSERTS



CTI developed a tube repair technique that today is recognized as the most widely used cost-effective system.

CTI Shield/Seal™

Inlet-end erosion, Stress Corrosion Cracking, crevice corrosion or any problems related to the tube-ends.

CTI Full Length Tube Liners™

Some exchangers suffer from full-length problems. CTI Full Length Tube Liners™ can be a very attractive alternative to a partial or full retube.

CTI Industries - www.cti-ind.com

FURMANITE ONLINE LEAK SEALING



Large flange connection



Valve Gland



Pipe body



Small flange connection



Straight pipe / Elbow



FurmaSeal high pressure self-sealing repair clamp



Split Sleeve Repair Clamp (SSRC)

ONLINE LEAK SEALING

Pioneering leak-sealing technology and unrivalled onsite service, Furmanite gives you 'The Standard' in online leak sealing.

- Sealing without plant stop.
- Temp. from sub-zero to 600°C
- Pressure up to +200 kg/cm²
- Sealing all kinds of media leaks (steam, chemical, gas)
- Land, Subsea

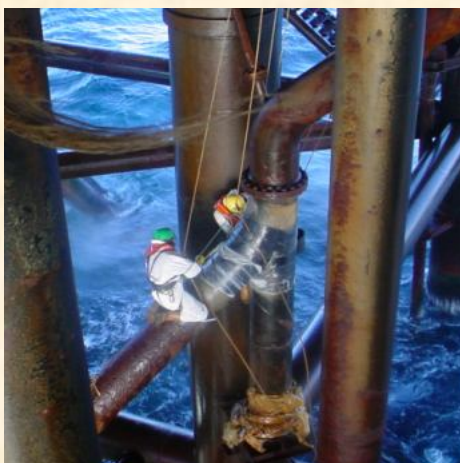
Applications

- Flange connections
- Elbow, tee, union, straight pipe
- Valve gland (operable after repair)
- Other non standard constructions

FURMASEAL SPLIT SLEEVE REPAIR CLAMPS (SSRC)

- Bolted Self Sealing Pipeline Repair Clamps
- Split Sleeve Bolted Mechanical Hot tapping Fittings

FURMANITE COMPOSITE REPAIR



SERVICE

- Permanent repairs
- Equipment longevity
- Structural strengthening and integrity
- Minimal impact to productivity

ADVANTAGES

- Pressure retention capability to 3,072 PSI (209 bar)
- Reliable at temperatures from -13°F to 320°F (-25°C to 160°C)
- May be applied in confined spaces
- Provides leak sealing capability
- Materials conform to irregular shapes, formed to shape on site
- Up to ten times stronger than steel
- Non corroding

APPLICATIONS

Piping, Tanks, Pressure valves, Caisson, Structural components