

NEW VISION

AND SMART SOLUTIONS



INTERRA General Presentation For Repair Activities



Who We Are:

INTERRA is a Company established in the year 2011, as the local repair service provider in Egypt for special repair projects.

We have performed many repair jobs, Maintenance Jobs and fabrication for petroleum and non petroleum sectors.

We have a good activity for providing tools, equipment, spare parts and chemicals.

Why INTERRA:

During the past years, the Egyptian industry has been significantly enlarged and improved. Obviously, the need of having strong supporting services national entities had became top priority.

INTERRA company had been established to serve both Petroleum and non Petroleum Industry to be always as a supporting team **STANDING BEHIND OUR CUSTOMERS.**



Our Mission

To be recognized as the best products & service provider for our clients in the MENA



Our vision

We will provide branded products & services of superior quality and value to all and every production industry as (Water & sewage, electricity, Chemical factories, Oil & Gas, others) which will enhance equipment performance, eliminates shutdown, recover junk equipment to service & save millions of dollars annually.



Sectors we proud to serve:

MARINE



Offshore

ENERGY



Oil & Gas



Offshore



Utility

INDUSTRY



Cement



Water



Metals



Petrochem.



Transport .



Paper



Our Value

Integrating together to implement the most smartest, simplest & reliable and customized service package that will restore your equipment performance, eliminate shutdown, maintain smooth production and saves millions annually with value for money concept. In addition to restoring junk equipment to perform in service with superior quality technologies & services.



Our partners, Suppliers & Manufacturers:



APAR INDUSTRIES LTD.

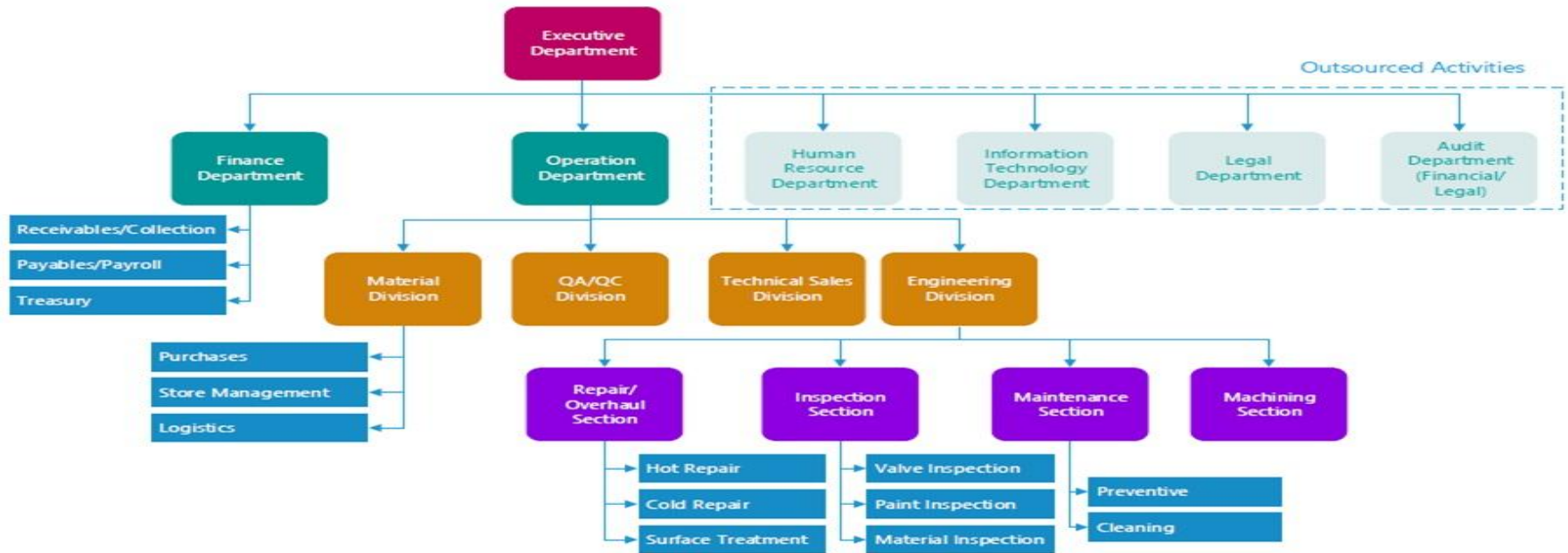


Our Package Of Services

We are able to support our customers in one of the following activities:

- 1- Upstream & Drilling Services
- 2- Maintenance, Repair & Protection of Equipment
- 3- Electrical Transformers Maintenance, Repair & Protection.
- 4- Supplying of spare parts, tools and well head equipment's





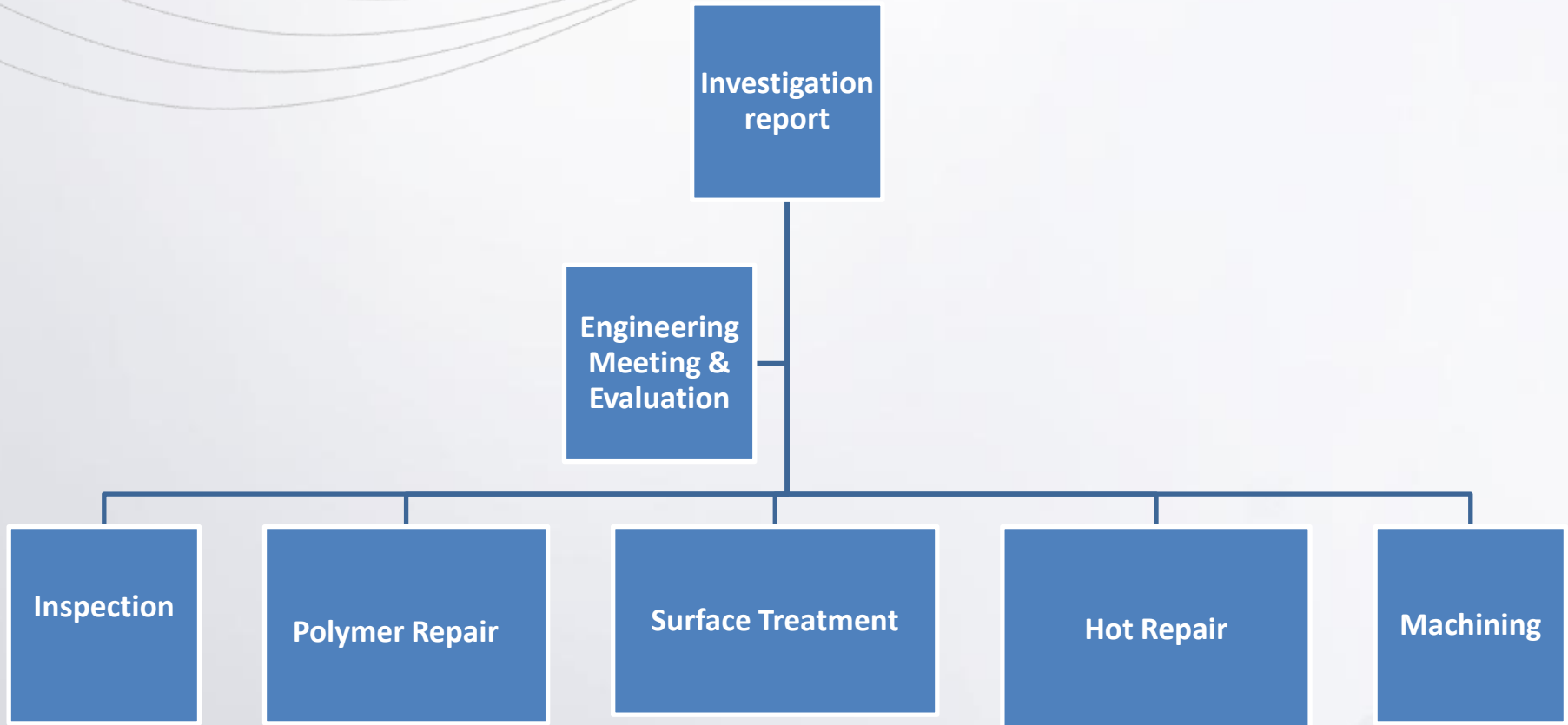
Interra Organigram & Business Units



Interra Process for job implementation



Interra Technologies of repair



COLD WELDING Tech.

By using cold welding Technology INTERRA can perform repairing and maintenance of various tools and equipment for, but not limited to oil and gas industry for any part **MADE OF METAL.**

Cold welding Tech. can withstand high internal pressure up to **300 Bar** and compressive stress over **3000 Bar** this beside high Temperature up to **+/- 280C in dry conditions.**

The process can also be conducted in hazardous area up to **API Zone - 0** as well as underwater.



Polymer Repair Similar Applications



Polymer Repair Similar Applications



Components to be repaired by Polymer Tech.

Generally we could say: `` ANY PART MADE OF METAL``, but always avoid high knocking, hammering, high vibration rates, rather than that it could be used with any ROTATING or STATIONARY equipment, such as:

- Tanks corrosion *Vessels & Desalters *Pumps
- Pipe line corrosion repair, pitting repair & strengthen
- Compressors *Shafts *Valves (Shell & Parts)
- Transformers *On-Line Leak Sealing compounds & clamps
- Any part made of metal

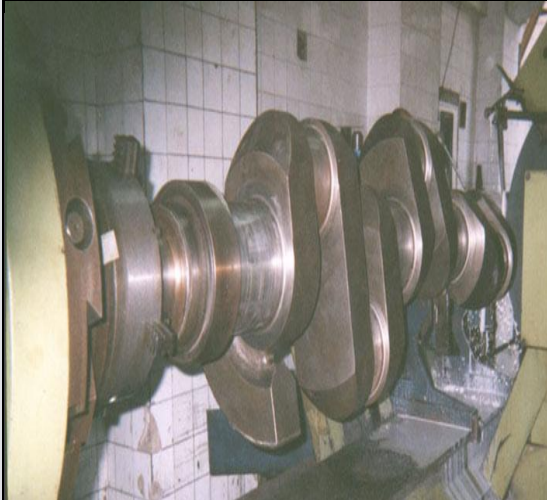
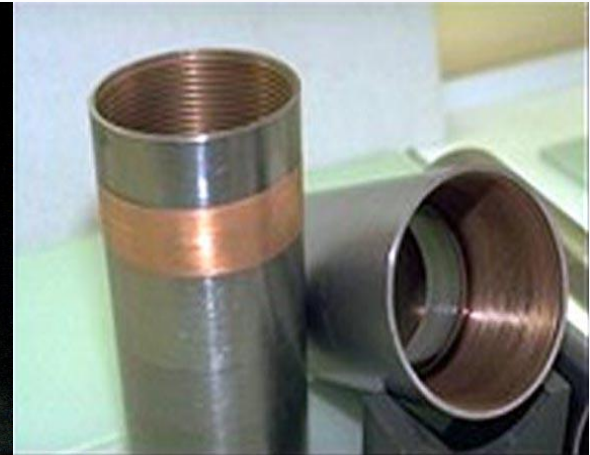
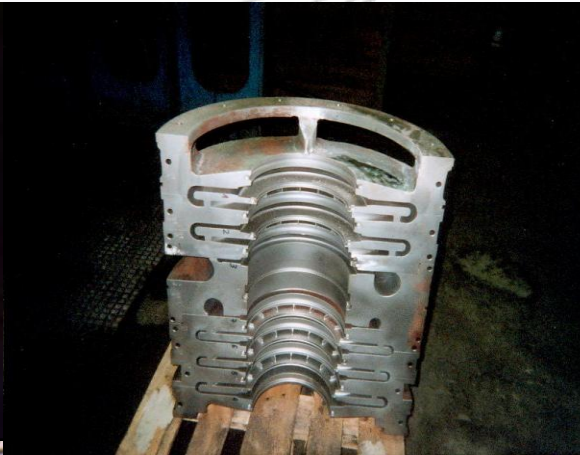


ELECTRO CHEMICAL PLATING & Metal Spray

INTERRA is representing a French technology that is specialized in metal repairing and protection since 1932. This technology is used in a wide range of applications to repair, rebuild, and protect the metal surface. It's used intensively in Aero Space maintenance and manufacturing companies as Boeing & Airbus, Electricity Sectors in rotors, turbine shafts, Blades, etc..., In Oil & Gas Sector in most of rotating or fixed parts, in Rail ways for axles and traction motors, and most of power sectors.



Samples Of Applications



Components to be repaired by Plating OR Metal Spray

Plating Technique:

Could be used for any part of metal rotating or stating.
(Shafts, valve component, pistons, journals, bearings, crank shafts, axles, etc...)

Recommended to be used when:

- 1- Defect in microns (1 – 1000 Microns)
- 2- with all elements and alloys
- 3- no grinding required after it
- 4- no dynamic balancing required after it.
- 5- High Temp. & corrosive application as well as high wear resistance

Metal Spray Technique:

Could be used for any part of metal rotating or stating.
(Shafts, valve component, pistons, journals, bearings, crank shafts, axles, etc...)

Recommended to be used when:

- 1- Defect in microns (0.5 –10 mm)
- 2- with all elements and alloys
- 3- grinding required after it
- 4- dynamic balancing required after it.
- 5- sealing of porosity required before grinding.
- 6- high temp & corrosive applications

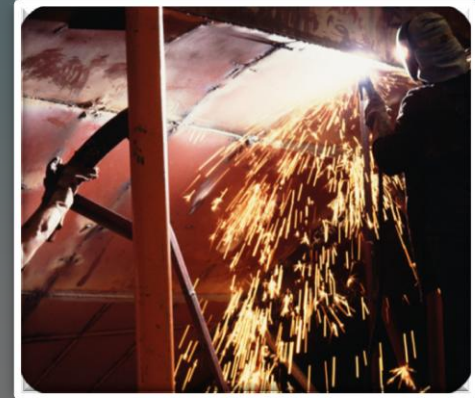


HOT WELDING

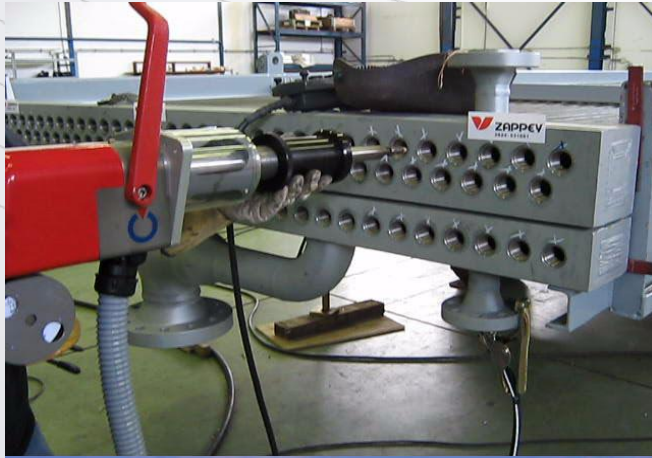
INTERRA is using the specialized hot welding technology and techniques in most of metal Parts repair, and the automated techniques in re-tubing of heat exchangers (bundle/straight).

The experts we have and selectivity of electrodes, welding process and welding techniques are the reason that makes us a leader company in such these applications.

Hot Method has its advantages and disadvantages, but hiring the technique with the well knowledge of what & when to hire is the most effective point and one of the main factors to eliminate the disadvantage of a technique.



Samples Of Applications



Fabrication & Machining

INTERRA workshops have most of the equipment and machines that help us to enhance our support to our valuable customers through the selective machines we have that works in work shop for fabrication as a production lines or/and in-situ machines to easiest and support our customer with his demands.

Machinery lines are considered part of repair lines – not as production lines – but as finishing stage and some times customized manufacturing are mandatory for our repairs and maintenance, based on METALLURGICAL analysis and behaviors we select our alloys that is equivalent to original one.



Electrical Transformers Maintenance

INTERRA has its own skilled manpower to carry on any electrical transformer maintenance activities, these activities covers the following:

- Electrical Tests (Megger, TAN DELATS, Ratios, etc...)**
- Oil Analysis**
- Gaskets Replacement**
- Bushings Replacement**
- Others on inquiry**



INTERRA wishes to represent its gladness and pleasure to present the previous material & its experience which we do hope it would be in a beneficiary position for your services during the near future, and our representative are always ready to handle all of your inquiries.



THANKS FOR YOUR ATTENTION

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