

EMIP

Electro Mohareke Parsian

Designing, Manufacturing and Supplying
Industrial, Hydraulic & Pneumatic Equipment

Knowledge and Creativity, Customer focused, Sustainable growth and Development

www.emparsian.com

Electro Mohareke Parsian

Our Vision

Electro Mohareke Parsian company with the aim of determining a learner, creator, dynamic and knowledge-based organization with benefit From the D&R system, A value-creating set for specialized and motivated forces with a system structure and Criteria-based, make its vision to become one of the most successful and reputable Manufacturing companies and Supply of hydraulic and pneumatic equipment in Iran under world-renowned standards and wholesales of products It has put itself online and providing comprehensive services to domestic and foreign customers

Mission

Production and supply of products with highquality and comprehensive services, in the shortest time at the most reasonable prices To attract customer satisfaction and increase market share



شرکت علمی و تحقیقاتی اصفهان



وزارت
صنعت، معدن
و تجارت



اتاق بازرگانی صنایع معادن و کشاورزی ایران



ریاست جمهوری
معاونت علمی و فناوری



راه آئین جمهوری اسلامی ایران



Design and construction of Wastewater Treatment Plant
Electro Mohareke Parsian



Features Of Non-Metallic Equipment

- Durable and high strength
- Reliable performance and very low energy consumption (up to 80% reduction) compared to metal ,very high abrasion resistance
- Very light and resistant to corrosion of any chemical
- Reliable and easy to repair and maintain
- Very long life up to ten times longer than metal samples
- Silent performance during work

Refinery Equipment Design

- Design and manufacturing of DAF Wastewater Treatment Plant

Design ,Construction and implementation of API separator refinery wastewater treatment plants according to API421 standard

- Design and manufacture of non-metallic wastewater equipment according to the standard and quality of probig company

- The use of advanced non-metallic materials in the world in the manufacture of mechanical equipment for wastewater (high tech non-metallic materials)

- Implemented in Shazand Arak Refinery , API separator refinery wastewater





Tube bundle re-tubing equipment Manufacturing

Electro Mohareke Parsian

Tube Bundle Extractor

Tube Bundle Puller or Extract Bundle tube is Secure and automatic high-speed device to reduce the problems of pulling out and inserting the tube bundle in shell and tube replacements

The advantages of this device

- Save time and reduce overhaul time
- Reduce the number of workers involved
- Increased level of safety
- Reduce the risk of failure
- Eliminate unconventional methods
- Simple and safe transportation of large tube bundles
- Increasing competition to service providers and thus increasing production efficiency
- Requires minimal equipment to serve converters
- This device can be provided with various capacities from 25 to 100 tons



Tube Bundle Extractor

Tube bundle extractor with different capacities from 25 to 100 tons with the following features are available:

| Extractor model | 25T 6100x1600E | 45T 8000x2000E | 65T 9000x2750E | 80T 9000x3000E | 100T 10000x3300E |
|--|-------------------|-------------------|-------------------|-------------------|---------------------|
| Max.bundle weight,kg | 20000 | 45000 | 65000 | 80000 | 100000 |
| Length of the tube bundle,mm | 7100 | 9000 | 10000 | 11000 | 12000 |
| Max. bundle diameter for extractor with standard lifting frame | 1600 | 2000 | 2750 | 3000 | 3300 |
| width of hosting frame in operational position,mm | 1953 | 2425 | 3250 | 4000 | 4000 |
| width of main frame,mm | 900 | 1270 | 1270 | 1270 | 1270 |
| height of extractor in operational position,mm | 2579 | 3563 | 4500 | 5500 | 6000 |
| operational weight | 5000 | 11500 | 13500 | 15000 | 16500 |
| diesel engine, air cooled | 25hp | 25hp | 25hp | 25hp | 25hp |
| standard hydraulic pressure, ba | 190 | 190 | 190 | 190 | 190 |
| Max.pulling force | 25000 | 50000 | 50000 | 80000 | 100000 |



Tube Bundle Roller

Tube bundle Roller machine is used to service shell and tube converters. This machine is used to rotate the tube bundle during washing of tube with a jet in the washing area.

The advantages of this device

- Save time and reduce overhaul time
- Ease of washing the converter
- Easy control and ensure the accuracy of the washing operation
- Operator safety
- No damage to the bundle tube
- Reduce converter service time



Tube Bundle Lifter

Tube Bundle Lifter is a device used to move bundle tubes in various refineries and workshops. In many cases, it is necessary to rotate the tube bundle properly on the insole or truck before loading. With this device, the tube bundle is easily rotated, lifted and loaded onto the truck.

The advantages of this device

- Ease of moving the bundle tube
- Easy and safe tube bundle transportation
- Operator safety
- No damage to the bundle tube
- Increased level of safety
- Reduce the risk of failure

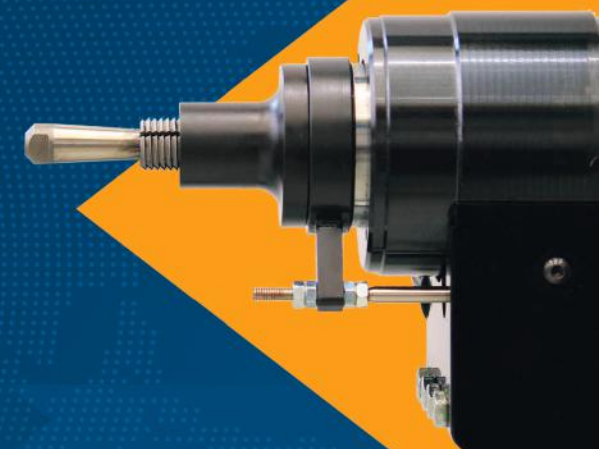


GRIPPUL Quick attaching hydraulic stub puller

Stub Puller or Grippul is a completely hydraulic device used for pulling out the tubes in straight/U type heat exchangers.

Models which can be manufactured by this company :

| MODEL | PULLING FORCE (ton) | DISCRIPTION (Inch) |
|-----------|------------------------|-----------------------|
| EMP-GB-11 | 13 | 1/2" to 1.1/4" |
| EMP-GB-21 | 30 | 1.1/4" to 2" |

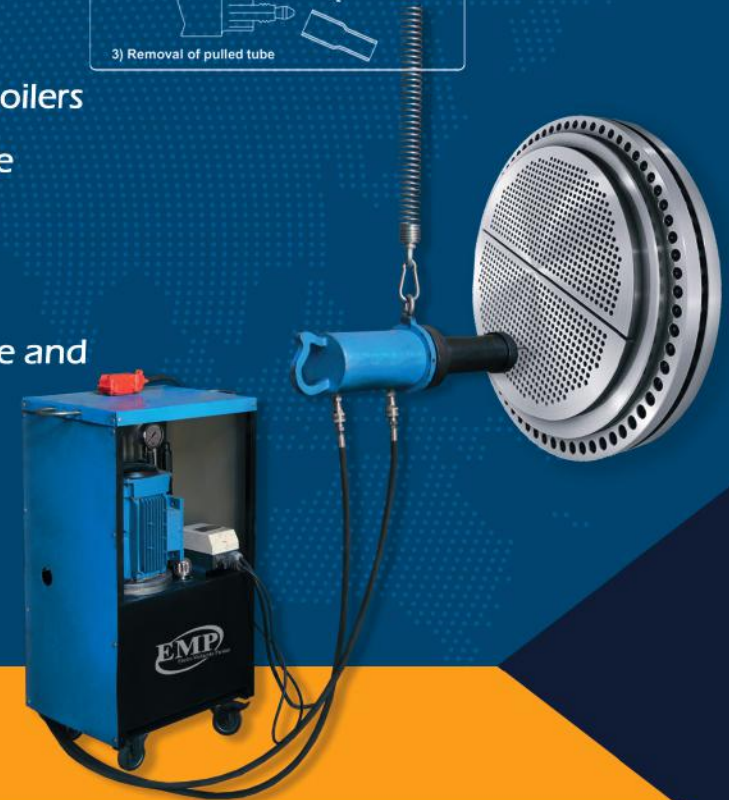
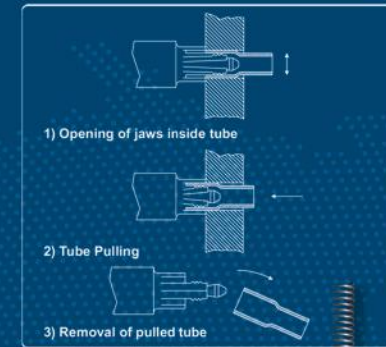


GRIPPUL Quick attaching hydraulic stub puller



The advantages of this device

- Rapid removal of steel/nonsteel tubes from condensers, heat exchangers and boilers
- The device's fast performance allows the operator to remove 3 tubes per minute
- Gripping and pulling is done simultaneously
- Remove the tube without the slightest damage to the tube sheet
- Fast and automatic removals from low pressure and high flow to high pressure and low flow during operation time
- Time saving compared to conventional tube removal methods
- Ability to remove tubes for different tube size ranges



TUBE PULLER (ONLYPUL)

semi automatic tube puller

Tube puller is a kind of Tube removal tool which is a notable device among customers.

Tube Puller or Run puller is a device used to remove both ferrous and non-ferrous tubes from condensers, chillers and heat exchangers.

| Gun Model | Pulling Capacity (tones) | Max Tube OD Thru gun (inch) | Stroke Length (mm) | Free Pulling Speed (meter/min) with EMP-STPP-300 |
|-------------|--------------------------|-----------------------------|--------------------|--|
| EMP-SHPG-15 | 15 | 1 | 100 | 3.3 |
| EMP-SHPG-30 | 30 | 1.1/2 | 100 | 2 |
| EMP-SHPG-45 | 45 | 3 | 100 | 1.3 |

Advantages of Hydraulic Tube Puller :

- Low setup time and ease of operation
- Simple and fast retubing process
- Grabbing and pulling happen at the same time
- easy to use
- Low maintenance cos
- Removes tube without damaging tube sheet
- Saving time and money compared to old retubing methods



VALVE GRINDER & LAPPING

| VALVE GRINDER EMP 300 | |
|--|---|
| Working range | 2-18" |
| Submerging depth | 700 MM |
| Number of revolution of grinding / Lapping heads | 50-350 min ⁻¹ |
| Seats & Valve gates | Vertical / Horizontal |
| Lapping head | Orbital lapping head with mechanical drive |
| Configuration | 2 Types: valve gate and valve seat |
| Large set of abrasives supplied | Small, medium and large (with different grits) |

EMP-300 is a portable valve grinder machine used for grinding and lapping of sealing faces in valves, valve disks, gate valves, parallel slide valve, check valve, wedge disks and also flanges.

Features :

- Simple operation
- Wear-resistant tool
- Cost effective
- High efficiency
- Rigid construction
- rectangular tube
- handy and portable
- light weight
- one-man operation
- usable for a wide range of valves





Alligator metal shear

Electro Mohareke Parsian

Alligator metal shear

The waste cutting machine which is totally hydraulic is used for cutting different sorts of profiles, including different types of rebar with various sizes.

This type of rebar cutting machine which is mentioned above is made by ELECTRO MOHAREKE PARSIAN Company.

Also because of its appearance, it is recognized as a crocodile alligator metal shear.

This device consist of two parts named : rebar holder and the cutting jaw, which their imposing vigor is adjustable.

Technical specifications of the device:

- In order to cut segments (parts) crocodile alligator metal shear can impose the pressure of 120 tons.
- This device can be controlled by two automatic and manual methods.
- In automatic mode, the holder jaw and the cutting jaw move back and forth automatically.
- In manual mode, the device and all functions can be controlled by a foot pedal.





Flange Facer

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FLANGE FACER



Flanges used in various industries can be damaged due to corrosion, which can cause leakage in the system. Therefore, flange facer as a portable facing machine has introduced to the market to save time. Flange facers are tools suitable to machine the surface of flanges, in order to preserve the flatness and tightness of flange connections.

Applications :

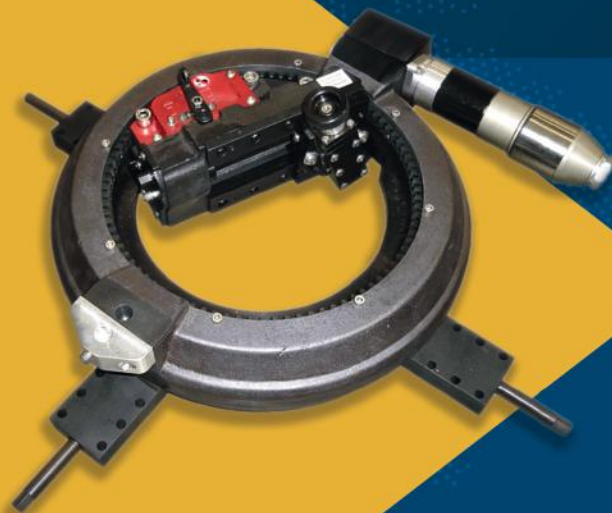
- Heat exchanger flanges
- RTJ grooves
- Rise face flanges
- Swivel ring flanges
- Techlok flanges
- Recessed gaskets and spigots
- Weld preps
- Hub profiles
- Lens ring joints
- SPO compact flanges
- Swivel ring flanges

Advantages :

- Eliminate leakage in all types of flanges
- Work as a portable lathe
- Suitable for different flange diameters
- Minimize overhaul time
- Explosion proof
- Quick set up
- Light weight
- Compound Swivels to Machine



FLANGE FACER



| DESCRIPTION | SIZE (INCH) | TYPE |
|-------------|-------------|-------------|
| INTERNAL | 2-12" | EMP-MM305i |
| INTERNAL | 2-24" | EMP-MM610i |
| INTERNAL | 6-34" | EMP-MM860i |
| INTERNAL | 6-40" | EMP-MM1000i |
| INTERNAL | 12-60" | EMP-MM1500i |
| INTERNAL | 24-80" | EMP-MM2000i |
| INTERNAL | 45-120" | EMP-MM3000i |

Internal Clamping Flange Facer

| DESCRIPTION | SIZE (INCH) | TYPE |
|-------------|-------------|------------|
| EXTERTNAL | 0-8" | EMP-MM200E |
| EXTERTNAL | 0-12" | EMP-MM300E |
| EXTERTNAL | 0-24" | EMP-MM600E |

External Clamping Flange Facer



Design And Manufacture Of Hydraulic & Pneumatic Equipment

Electro Mohareke Parsian

Hydraulic Powerpack Design

The hydraulic unit is a set of hydraulic tank, electric motor, pressure, flow and direction control valves and other tools. The task of this unit is to supply the flow pressure control for the flow required by the system. A hydraulic unit is also called a power pack or power unit.

Electro Mohareke Parsian Company has the ability to manufacture and design hydraulic power packs with the following characters:

- Hydraulic units for all types of hydraulic presses
- Hydraulic units with single-phase power generator three-phase and diesel
- Hydraulic units include fixed and variable flow pumps flow control Proportional valves , Coolant and accumulator, etc
- Hydraulic units used in the steel industries
- Hydraulic units used in mines and automobiles
- Required hydraulic units with required pressure and flow



Hydraulic Cylinder Design

Electro Mohareke Parsian Company has the ability to build and design hydraulic cylinders with the following characters:

- Manufacture of hydraulic jacks with piston diameters from a minimum of 25 mm to a maximum of 800 mm
- The force (power) of hydraulic cylinders depends on the design and selection of dimensions and cylinder pressure can be from 100 kg to 1000 tons.
- The normal operating pressure of standard hydraulic cylinders is up to 250 bar. If needed, the company is able to build hydraulic cylinders with a working pressure of 400 bar (up to 800 bar for special applications).
- Normal cylinder speeds range from 0.5 to 10.5 meters per second for special applications, it can be increased up to 15 meters per second by taking measures



Hydraulic Block Design

Hydraulic blocks or Manifold are made to install hydraulic valves as a complex It also eliminates the intermediate between the valves and the piping of the hydraulic system



Advantages of using hydraulic blocks

- Decreased assembly time
- Reduced risk of leakage
- Occupy less space
- Reduction of time and costs of repair and replacement of parts
- Possibility to use catheter valves
- Improving the time response of operators

Supply Of Hydraulic And Pneumatic Equipment

- All kind of pumps (gear pumps, piston pumps, mono pumps, etc.)
- Hydraulic and pneumatic valves
- Hydraulic and pneumatic cylinders
- All kind of hydro motors , electric motors and gear motors
- Oil measuring filters and equipment
- Flange Facer
- Accumulator
- Hydraulic brakes



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MAG



Other Services

- Repair, Detection And troubleshooting hydraulic systems
Design, Construction, Assembly, Installation and commissioning of hydraulic systems
- Repair of hydraulic equipment including all types of pumps (piston pump, blade pump, gear pump, manual pump, etc.)
Hydraulic valves, Power hydraulic units, Hydraulic cylinders, Accumulators, etc.
- Consulting, engineering and simulation of hydraulic systems for factories

Some company's licenses and certificates



Electro Mohareke Parsian

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