

# EMIP

**Electro Mohareke Parsian**

Designing, Manufacturing and Supplying  
Industrial, Hydraulic & Pneumatic Equipment

Turning Ideas Into Action

[www.emparsian.com](http://www.emparsian.com)



## **Electro Mohareke Parsian**

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## 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 امشپان



تایید بازرگانی صنایع مایه و گشاده زنی ایران



ریاست جمهوری  
معاونت علمی و فناوری



رأه آهین 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	25 T 6100*1600E	45 T 8000*2000E	65 T 9000*2750E	80 T 9000*3000E	100 T 10000*3300E
Max.bundle weight ( kg )	25000	45000	65000	80000	100000
Length of the tubel 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 ROLLER



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<b>MODEL NUMBER</b>	TBR-21
<b>TOTAL WEIGHT (including 2 set of rollers)</b>	2100 Kg
<b>HEIGHT</b>	600 mm
<b>TOTAL WIDTH</b>	1480 mm
<b>TOTAL LENGTH</b>	1500 mm
<b>CENTER/center size between the rollers (Adjustable)</b>	540 mm to 800 mm
<b>CAPACITY</b>	Up to 45 ton
<b>REQUIRED SUPPLY</b>	230 v - 3 phases
<b>MIN. BUNDLE DIAMETER</b>	0.3 m
<b>MAX. BUNDLE DIAMETER</b>	3 m



## 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



## TUBE BUNDLE LIFTER



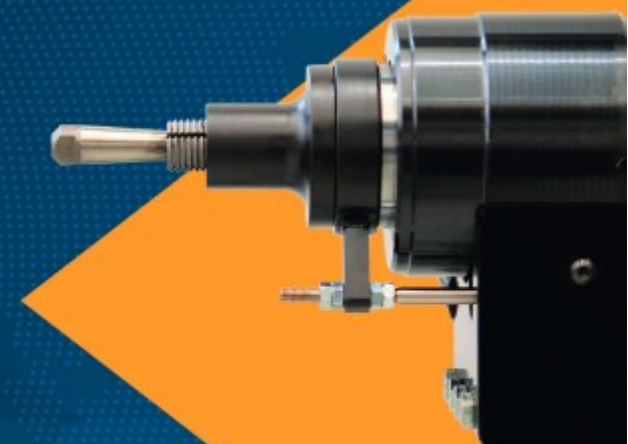
MODEL NUMBER	OVERALL LENGTH mm	MAX BUNDLE O.D. mm	MAX LIFE WITH SHOCK LOAD Kgs	MAX LIFE WITHOUT SHOCK LOAD Kgs	WEIGHT Kgs
EMP-TBL-40	2740	1000	9,000	13,600	1,130
EMP-TBL-45	2740	1140	9,000	13,600	1,220
EMP-TBL-60	3650	1520	13,600	22,700	2,720
EMP-TBL-65	3650	1650	22,700	29,400	3,400





# Grippul Quick Attaching Hydraulic Stub Puller

Stub Puller of heat exchanger or Grippul is a completely hydraulic device for pulling out the pores in u type heat exchangers.



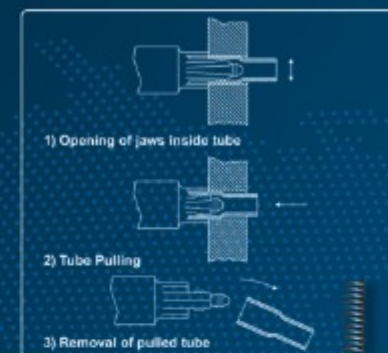
MODEL	PULLING FORCE (ton)	DISCRIPTION (Inch)
EMP-GP-11	13	1/2" to 1.1/4"
EMP-GP-21	30	1.1/4" to 2"

## GRIPPUL Quick attaching hydraulic stub puller



### The advantages of this device

- Rapid removal of iron tube from condensers, heat exchangers and boilers
- Low volume and low weight components in a shortened gun for easy and fast use by the operator
- Low setup time and easy to use
- Disconnecting and unplugging expanded clay comfortably and automatically after pulling out
- Remove the tube without the slightest damage to the tube sheet
- Significant time and cost savings compared to conventional pipe removal methods
- Ability to remove tube from size 15.8 mm to 50.8 mm





## 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-UN-300
EMP-GRP-15	15	1	100	3.3
EMP-GRP-30	30	1.1/2	100	2
EMP-GRP-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 cost
- Removes tube without damaging tube sheet
- Saving time and money compared to old retubing methods



## TUBE EXPANDER



A Tube Expander is a specialized tool which used to enlarge the internal diameter of tubes in heat exchanger, boiler, and condenser

Tube Expander comes in different designs for different requirements, it can be manual, hydraulic or pneumatic

One of the key components of this device is Mandrel, which is inserted into the tube and by applying pressure it will expand the internal diameter of the tube



### Advantages of Tube Expander

- Ease of use
- Simple design
- Reduce operation time



# TUBE EXPANDER



Model	Tube OD	RPM	Max Torque(NM)	Chuck size	Air Consumption Liter/Min CFM	
EMP-58	up to 5/8"	1250	12.2	1/4"	1700	60
EMP-100	up to 1"	600	21.8	3/8" & 1/2"	1700	60
EMP-114	up to 1.1/4"	400	36	3/8" & 1/2"	1700	60

Drive model	Suitable tube OD range	Chuck square size	Voltage
EMP-Drive-1	1/4"-3/8"	1/4"-3/8"	230
EMP-Drive-2	1 <sup>st</sup> speed 3/8"-1/2" 2 <sup>nd</sup> speed 1/2"-5/8"	3/8"	
EMP-Drive-3	1/2"-3/4"	3/8" & 1/2"	
EMP-Drive-4	3/4" -1.1/2"	3/8" & 1/2"	
EMP-Drive-5	1 <sup>st</sup> speed 5/8"-3/4" 2 <sup>nd</sup> speed 3/4"-1"	3/8" & 1/2"	
EMP-Drive-6	1 <sup>st</sup> speed 1"-1.1/2" 2 <sup>nd</sup> speed 1.1/2"-2"	1/2" & 3/4"	
EMP-Drive-7 (Drive3+Gearbox)	GB-1 1"-1.1/2" GB-1 1.1/2" -2"	1/2", 3/4" & 1"	
EMP-Drive-8 (Drive4+Gearbox)	GB-1 2"-2.1/2" GB-1 2.1/2" -4"	3/4" & 1"	
EMP-Drive-9 (Drive5+Gearbox)	1.1/2" -3"	1/2", 3/4" & 1"	
EMP-Drive-10 (Drive6+Gearbox)	2"-5"	3/4"	



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

Flange Facer is a very efficient device in the industry.

Due to the fact that the flanges used in various industries, both in heat exchangers and in fluid transfer industries or any other part of the industry, will be damaged over time due to corrosion, which will cause damage to the face of the flanges. Abandonment cannot be done completely and leakage can occur.

**To solve this problem, Flange Facer device, which is a portable lathe, is recommended.**

Different devices for different sizes of flange are provided by this company.

Each device is recommended for a certain size range of flanges. Electro Mohareke Parsian Company is ready to provide the services of Flange Fisher, by contacting the technical officials of this company and announcing the size of its flanges, you will be offered the best and most suitable device.



## 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



### External Clamping

DESCRIPTION	SIZE (INCH)	TYPE
EXTERNAL	0-8"	EMP-MM200E
EXTERNAL	0-12"	EMP-MM300E
EXTERNAL	0-24"	EMP-MM600E
EXTERNAL	0-30"	EMP-MM760E
EXTERNAL	0-70"	EMP-MM1775E
EXTERNAL	0-80"	EMP-MM2000E



## VALVE GRINDER & LAPPING

is a portable valve grinding machine used for lapping 300-EMP 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
- handy and portable
- light weight
- one-man operation
- usable for a wide range of valves

VALVE GRINDER EMP 300	
Working range	2-18"
Submerging depth	700 MM
Number of revolution of grinding / Lapping heads	50-350 min <sup>-1</sup>
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)





Design And Manufacture Of Hydraulic & Pneumatic Equipment

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## 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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LESER

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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



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