





Machine Sazi Arak Co. (MSA) was founded in 1967 in an area of 134 hectares in Arak city to meet the country's industrial needs and build industrial units, produce all kinds of machinery, equipment and other industrial products as the first Iran heavy industry.

MSA has the ability to carry out large national and international projects and produces 77 different types of products in the following business areas:

- ☑ Oil, Gas, Refining and Petrochemical Industries
- ☑ Heating Facilities and Boilers
- ☑ Power Plants and Renewable Energies

- ☑ Mineral and Steel Industries
- ☑ Alloy Casting and Forging
- ☑ Bridge, Steel Structures and Port Facilities



Board Members





Reza Saraie

Managing Director and Vicechairman of the Board



Abulfath Ebrahimi, Chairman of the Board



Mohammed
Saadatmandi
Member of the Board



Abbas Naeimi Member of the Board



Esmail Farhadi Moghaddam Member of the Board

Certification



- I. ISO 9001-2015 from TUV INTERCET
- 2.ISO 14001-2015 from TUV INTERCET
- 3.ISO 3834 from International Welding Institute
- 4. Global Quality Management (GQM) from UK
- 5. National Standard Certificate from Iranian Institute for Standard & Industrial Research (for steam boilers)
- 6. Lioyd's Register Certificate for Valves
- 7. Organizational Excellence Certificate based on EFQM
- 8. Green Economy Crystal Statue (Twice)
- 9. Product Quality Certificate from Iranian Petroleum Association (NACI)
- 10. Kaizen Official Citation
- 11. Qualification certificate of the company as a contractor awarded by Vice Presidency for Strategic Planning and Supervision
 - Grade 1 for industry and mine
 - Grade 1 for oil and gas field
 - Grade 3 for Installations & Equipment
 - Grade II for Power / Electricity
 - Grade 3 for road and transportation
 - Grade 4 for water

Certification



12. Certificate of competency for engineering and construction

Grade 1 for Oil and gas

The company has a basic contractor certification for an oil and gas field under the field of "transmission lines, tanks, pumps and oil and gas networks.

13. Certificate of competency for consulting services

Grade 1 for oil and gas transmission lines

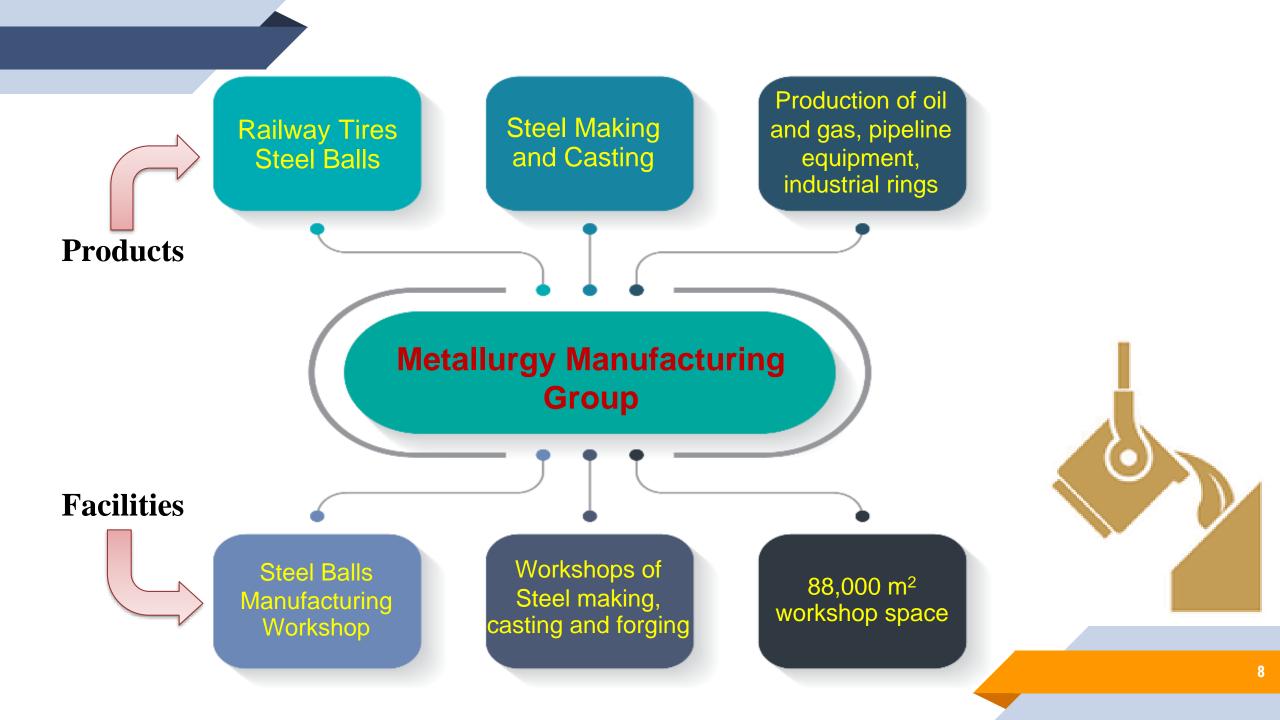
- 14. Qualification certificate of Designing and Fabrication awarded by Vice Presidency
- 15. Crystal Statue for Sport, Labour and Industry
- 16. Total Quality Management (TQM)
- 17. Superior exporter of the country in 2001
- 18. Superior industrial unit for productivity in two consecutive years 2001 & 2002
- 19. Certificate awarded by Khwarizmi Festival and Ministry of Industries & Mines in 2001 and 2002
- 20. Superior R & D Unit for Izeh Open Spandrel Arch Bridges
- 21. Official Citation awarded by the Ministry of Petroleum for successful execution of South Pars Gas Field Development Project Phases 4&5
- 22. Certificate awarded by the Department for Supervision over Industrial Safety of the Republic of Belarus.

Manufacturing Group

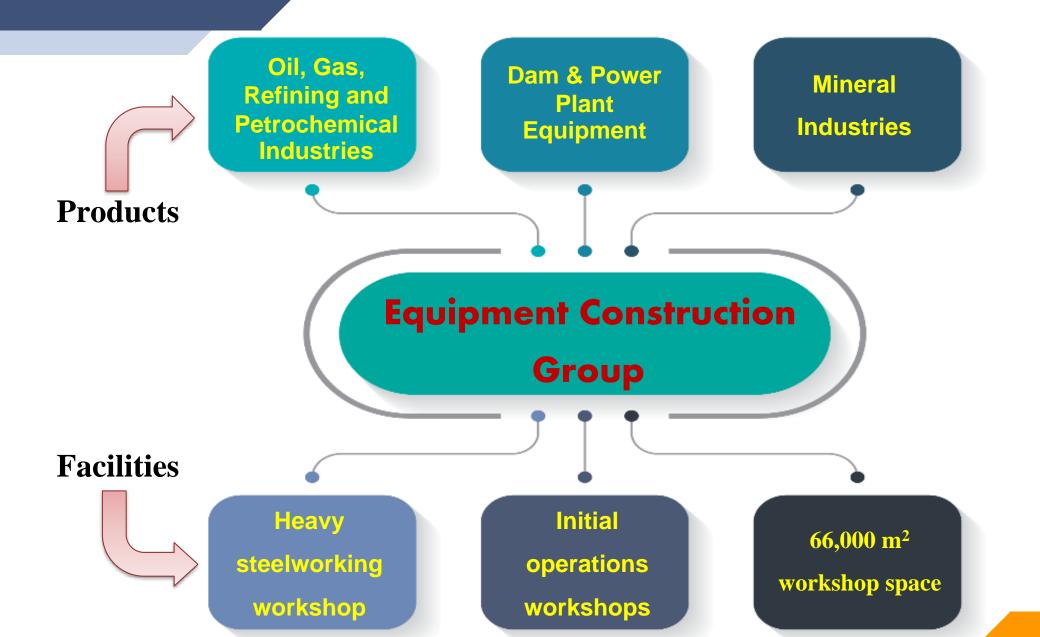


Machine Sazi Arak is the only industrial complex in the country that has a wide range of various production and implementation of industrial projects and has an organization consisting of various manufacturing groups and executive departments in form of five manufacturing groups:

- Metallurgy Manufacturing Group
- Equipment Manufacturing Group
- Steam Boiler Manufacturing Group
- Bridges and Steel Structure Manufacturing Group
- Machining and Assembly Group









New Products



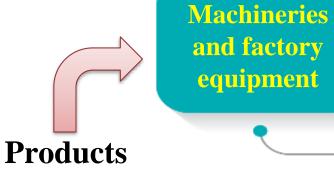
Dena petrochemical industries and Siraf energy Petrochemical Equipment











Dam, power plant and cement equipment

Wellhead equipment

Machining & Assembly Group

Facilities



Heavy machining workshop Modern and advanced machineries and production lines

34,000 m² workshop space



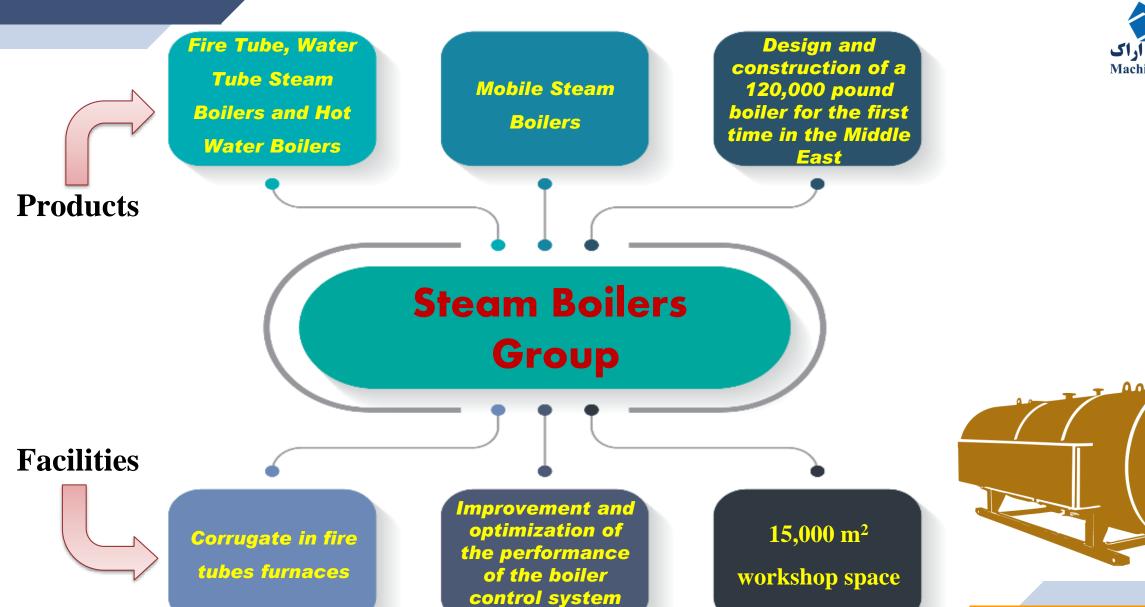


Modern and advanced machineries

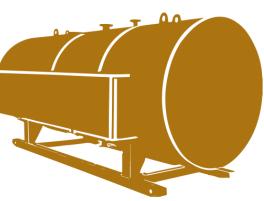
















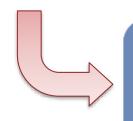


Design of floating bridges with different spans for critical times

The only designer and manufacturer of steel arc bridges in Iran

Bridge & Steel Structures Group

Facilities



Design of new truss bridges

Design, construction and install a variety of steel structures

12,000 m² workshop space













Business areas



Products



The major products in the field of oil, gas, refining and petrochemical

- **Gas indirect heaters**
- Launcher and Reach
- **❖** Gas straight heaters
- * Storage tanks
- * Ball valves
- * Gate valves
- * Wellhead equipment
- * Christmas Tree
- **❖ Safety gate valves**
- * Draw works
- * Drilling rig

- * Pressure Vessels
- Oil and Petrochemical Towers
- * Heat exchangers
- * Air conditioners
- * Spherical tanks
- **❖** Gas stations
- * Scrubber
- Filter separator
- Dry gas filters

Pressure Vessels



Pressure vessels are designed and manufactured in various sizes and applications.

Machine Sazi Arak have a good experience in refineries and petrochemical plants including phases 1, 4, 5, 6, 7, 8, 9, 10, 14, 15, 16, 17, 18, 20, 21 South Pars, Ilam petrochemical tanks, Arvand Petrochemical, Ilam Gas Refinery Tanks, Separator of South Oil, Gas Refining Khangiran and in foreign countries including Turkmenistan, Sudan, Cyprus.



Towers of oil and petrochemical industries



Machine Sazi Arak is honor to participated in most refineries and petrochemical plants such as Imam Khomeini Refinery, Shazand- Arak, Towers 14,8,7,6,1, Phases of South Pars, Ilam petrochemical towers, Arvand Petrochemical tower, towers Methanol fourth and Fifth, Ilam Gas refinery towers, Jam Petrochemical and have effective role in the design and construction of their towers.





Shell heat exchanger tubel two-tube







Heat exchangers constructed by Machine Sazi Arak



- 5 heat exchangers for Baku, Azerbaijan Gas Refinery
- 8 heat exchangers for Sri Lanka Refinery Gas
- 35 heat exchangers for Amir Kabir Petrochemical Sixth Olefins No. 35 in 17 types
- 41 heat exchangers for South Pars Phase 1
- 50 heat exchangers for South Pars phases 4 and 5
- 94 heat exchangers for South Pars phases 6, 7 and 8
- 81 heat exchangers for South Pars Phase 14- 60 heat exchangers for Ghatran Project
- 6 heat exchangers for Amir Kabir Petrochemical HDPE
- 23 heat exchangers for Petrochemical PART XYLENE
- 82 heat exchangers for Bandar Abbas Refinery
- 4 heat exchangers for Gas Refinery Khangiran
- 25 heat exchangers for Lavan refinery
- 8 heat exchangers for Methanol of Kharg
- 26 heat exchangers for Ilam Petrochemical
- 51 heat exchangers for Arvand Petrochemical
- 1 DEU heat exchangers with a design pressure of 195 bar design temperature of 272 ° C
- SA266 / SA336 and weight of 34 tons Isomax for single for Arak Refinery

Air Coolers



Air coolers are one of the most important equipment in the refining, petrochemical and gas stations which are used by blowing air over the fins of the tubes and reduces heat of fluid inside the pipe. The fluid may be natural gas, liquids, oil and water. In terms of technology header of air coolers have very high sensitivity and in a state of Induced / Forced Draft so designed and produced according to the standards of API-661, ASME, TEMA





Some air coolers which manufactured by Machine Sazi Arak



- South Pars Phase 1: 16 units with weight of 748 tons
- South Pars phases 4 and 5: 78 units
- South Pars Phase 14: 52 units with weight of 3,200 tons
- Yasouj Compression Station: 69 units with a design pressure of 91 bar and weight of 1,100 tons
- National Drilling Project: 18 units with a design pressure of 150 PSI and weight 36 tons
- Lavan Project: 10 units with pressure ranging from 20 to 38.7, with the weight of 138 tons
- Ramshir Project: 3 units with design pressure of 304 bar and weighing 50 tons
- Sarkhon Project: 1 unit with design pressure of 92/13 bar and weight of 10 tons
- Esfahan Mobarakeh Steel Co.: 2 units with design pressure of 3 bar and weight of 271 tons
- Arak Petrochemical: 1 unit with design pressure of 3/79 and weight of 370 tons
- Bandar Abbas Refinery: 16 units with design pressure of 3/79 and weight of 200 tons
- Ilam Petrochemical: 17 units with design pressure of 30 bar and weight of 500 tons

Spherical tanks



Spherical tanks are manufactured for the first time in the country by Machine Sazi Arak. Constructing about 90 spherical tanks in Iran and other countries are the glories of Machine Sazi Arak. All mechanical and structural design, purchase of raw materials, forming sheets, cutting, assembly and installation is done by the company. Spherical tanks are using for storage of petroleum refineries and petrochemical industries at high volume and pressure.



Spherical tanks



The first spherical tank in Iran designed and constructed by Machine Sazi Arak for Petrochemical Complex of Isfahan.

Construction and installation of spherical tanks for the followings owners:

Bandar Abbas Refinery, Imam Petrochemical MTBE Project, Tabriz Petrochemical, Arak Petrochemical, Amir Kabir Petrochemical, Bu Ali Petrochemical, Turkmen Kianly Port, Persian Gulf Refinery, Tehran Refinery



Gas stations



Natural gas in mail pipeline of gas have high pressure which may not be suitable for use in home and industrial usage. Gas stations reduce the gas pressure in main lines and adjust it according to the distribution lines pressure. Other operations, such as measuring the flow of gas stations, heating, filter and odor of gas can be performed.





Indirect gas heaters



Indirect gas heaters are widely used in manufacturing, processing and distribution of oil and gas. The most important use of indirect gas heaters is heat transfer to the high-pressure gas flow.



Reactors



Reactors in a wide range of temperatures and pressures and with different materials ranging from carbon steel, stainless steel, Cold, Duplex, Inconel, chrome, molybdenum, etc., and according to various standard such as ASME, PD5500, AD_Merkblatt, UBC, ANSI, ... and with refractory lining and the use of the Half Pipe Full Pipe are designed and built outside reactors.





Storage tanks



These tanks are used to store petroleum materials, including crude oil, semi-finished products and final products available to the market in most refineries and petrochemical complexes.

Fixed roof tanks are in two types: dome roof tanks - convenient roof tanks

Floating roof tanks are of two types: Panton floating roof tanks (one wall) - floating roof tanks with

double store (double wall roof)



Ball Valve



Depending on the needs of the Iranian and region market, as well as our capabilities and potentials to design and construction of ball valves in sizes 2 to 56 inch and 300 to 2200 class rates in accordance with 6D API standard and from size 2 to 9 inch and work pressure has come from 3000 psi to 10,000 psi in accordance with the API 6A standard and has so far designed and manufactured from size 2" to 30 "with 300 to 900 working class.



Wellhead Gates



This type of valve covers all standard API 6A requirements and encompasses a wide range in size, pressure class, type of material and quality levels.



42-inch Gate Valves



For the first time in the Iranian oil industry, construction of 42-inch gate valves compatible with sour fluids is on the agenda of Machine Sazi Arak, and now the process of manufacturing these valves to be used in the pipeline to transfer crude oil from Goreh to Jask is underway.

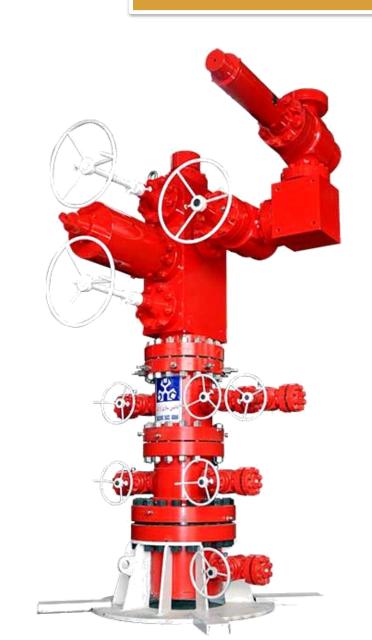




X-MAS TREE & Tubing Head Spool



MSA with modern machinery, advanced production lines and experienced engineering staff, produces all kinds of valves and equipment used in the oil, gas petrochemical industries in and with the latest accordance valid standards. In all stages of construction and testing of these valves steel making high facilities used to provide the required raw





Surface Safety Valve (SSV) with Hydraulic Actuator



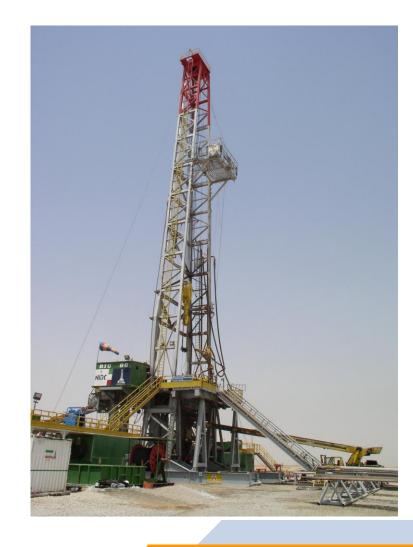
SSV is a gate valve used for providing safety in pipeline and wellhead equipment. These valves are designed as per API 6A and NACE MR 0175. In normal conditions when there is not sufficient pressure in actuator's housing, a strong spring retains the valve in closed state. The valve opens as soon as enough pressure exists in actuator's housing.



Drilling Rig



Drilling rig is very important equipment in oil and gas upstream industries through which drilling and preparation of wells for operation is accomplished. In 2006, Machine Sazi Arak Co. fabricated the structure of Fath 86 drilling rig currently in service for National Iranian Drilling Company. This is a pyramid type structure weighing 210 tons, 54 m height with a Derrick floor area of 100 m2. This mechanism is capable of resisting a force of 1000,000 pounds and drilling to a depth of 6000m.



Draw works



Machine Sazi Arak has, for the first time in Iran, accomplished the design and manufacture of draw works or the main driving part of a drilling rig, with input HP rating 2000. This 50-ton assembly with two DC traction motors is employed for Rig up, Rig down and pull out of hole & Run in hole of Drill string & Casing string.



Fire Tube Steam Boilers and Hot Water Boilers

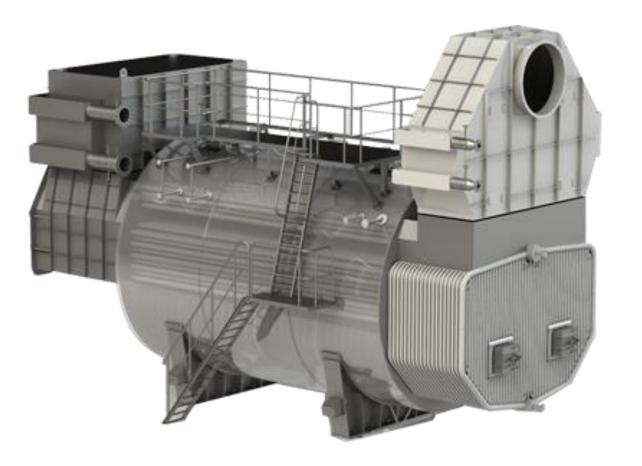


In this type of boilers, combustion products are driven into the pipes intended to transfer heat after passing through the furnace and transmit their thermal energy to the water that swept these pipes, so the name of this boiler have fired tube fires



Design and construction of a 120,000 pound boiler for the first time in the Middle East







Mobile Steam boilers



Mobile boilers produce in various sizes and pressures according to the order of industries such as road construction, rubber, mines, concrete processing, especially in cold areas, oil pipelines and industries, airplanes, accident disaster headquarters during natural disasters and also emergency boilers are used when major repairs to various industries, especially foodstuffs.

This type of boiler due to the ability to move to different locations for cross-sectional and short-term applications, without the need for road escorts, and independence on additional facilities.



Water tube steam boilers



Due to the lack of sufficient production of this kind of boilers for domestic firms and high demand of customers and their referral to foreign companies, MSA began to design this kind of stream boilers besides production of fire tube boilers and steam generators of the HRSG power plant. Now MSA has produces water tube steam boilers in three types of O-Type, A- Type, D-Type, which builds on a variety of capacities and pressures combined with super heater and economizer, either in the form of a package or installation.



Combined steam boilers



Combined steam boilers are fire tube steam boilers with water tube combustion chamber which, like other conventional boilers, have furnace and heat transfer in two stages.

Special features of this design are the possibility of installing

super heater in the combustion chamber. So the resulting steam temperature will increase dramatically.

225 psi / 15/5 bar g working pressure

Outlet steam temperature with super heater: 320 ° C

Capacity: 15ton / hr.



HRSG Combined Cycle Boilers



Combined Heat Cycle Boilers or Heat Recovery Steam Generator (HRSG) is used in power plants to generate electricity and produce higher fuel efficiency. Hot gas from the gas turbines, which is about 550-560 C is passed through the equipment and convert water to steam. The resulting steam is simply used to turn the steam turbines for power generation.



Bridges & Heavy Steel Structures Products



- Composite plate girder bridges
- *** Emergency truss bridges**
- * Arch bridges
- Continuous composite plate girder bridges
- Composite box girder bridges
- Special truss bridges
- Railway bridges
- Cable stayed bridges
- Steel Structures

Composite plate girder bridges



Length: 203 m

Width: 41 m

Weight: 2150 tons

Material: ST52-3

Location: Hamedan Province





Emergency truss bridges



Length: 86 m

Width: 6 m

Weight: 3100 tons

Material: ST52-3

Location: Sistan Province

Usage: water piping line



Arch bridges



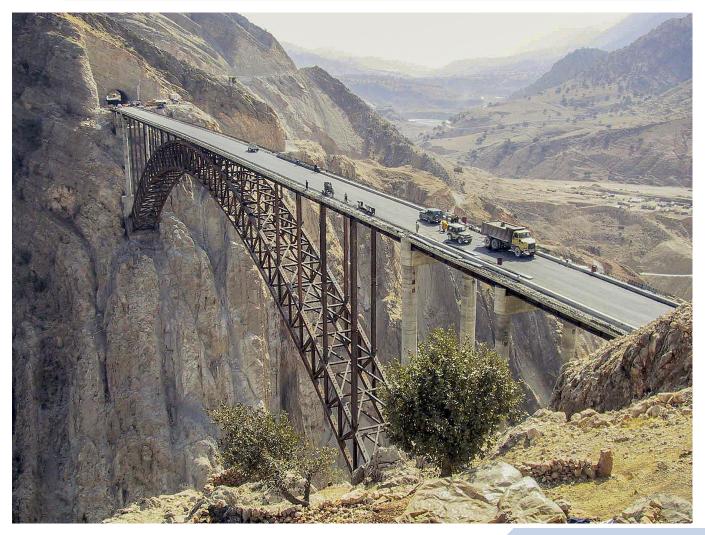
Length: 380 m

Arch Span: 300 m

Width: 11/8 m

Weight: 3800 tons

Location: Karoun 4 dam lake



Continuous composite plate girder bridges



Length: 259 m

Width: 9/27 m

Weight: 1760 tons

Materials: ST37-2

Location: Arak



Composite box girder bridges



Length: 1300 m

Width: 22 m

Weight: 800 tons

Location: Tehran



Railway bridges



length: 800 m

Width: 9 m

Weight: 4000 tons

Location: Bandarabbas-Bafgh



Cable stayed bridges



Length: 3800 m

Width: 20/9 m

Weight: 1900 tons

Location: Karoon 4 dam's lake



Steel Structures



Fabrication and erection of triplet salon steel structure roof Tehran Shahr-e-Aftab Exhibation

Total width: 2700 tons

Location: Tehran





This project is located in Khuzestan in 160 kilometer north-east of Ahvaz and 25.5 kilometer north-east of Masjed Soleiman city. Masjed Soleiman dam is located on Karun River in 26 kilometer downstream of Shahid Abbaspour dam (Karun 1)

Having the greatest spillway in country with the discharge capacity of 21700 m3/s Using the most advanced technologies in power industry



Masjed Soleiman Dam and power plant



Fabrication and erection of orifice and steel
Structures of Kaoun 3 Dam and Power plant
Karun 3 dam and powerhouse are located in 28
km of Izeh City in 610 km of Karun River-mouth
in north-east of Khuzestan Province.

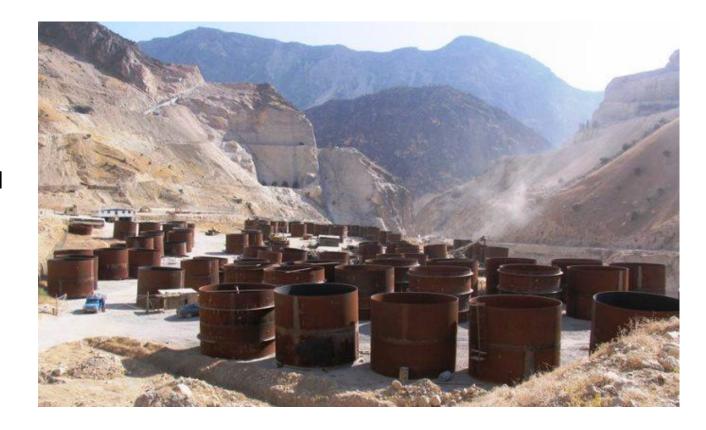




Steel lining of Karoun 4 Dam and Power Plant

There are 4 steel lined and concreted under ground tunnels with the of 850 meters. The diameter of steel lining is from 5 to 6.5 meters.

MSAEC Co. was responsible for design, fabrication and installation of these equipment with weight of 9610 ton.





Siah-Bishe Pumped Storage Power Plant

Construction and installation of steel lining.

The most important factors of this project are fabrication of steel lining in the temporary workshop and installation of constructed lining in an inclined shaft with angle of 56 degree and length of 450m





Main chimney of Shahid Rajaie power plant with height of 220m, and weight of 5300 ton. the highest of its kind in Iran is used to discharge of resultant fumes from power plant boilers. The chimney four cylinders each with the diameter of 5.75m.





Casting

The casting section of Machine Sazi Arak Co. Metallurgy Group using electric arc furnaces, LF, VODC (Vacuum Oxygen Decarburization Convertor), one of the most advanced methods of steel refinement, is capable of producing carbon steel, low-alloy and high-alloy steel and special steels such as stainless and refractory steels of high qualities.







Flange

MSA metallurgy production group employing first-rate services of forging equipment such as hydraulic hammers, presses, ring rolling machines and research and laboratory facilities is one of the greatest manufacturers of high pressure flanges used in oil and gas industries and low pressure water flanges as per the latest universally acknowledged standards.















Anchor flanges

Anchor flanges are among main parts of oil and gas pipelines carrying high pressure fluids and MSA metallurgy production group, possessing the required technological capabilities, knowledge and equipment, is the manufacturer of these parts in different sizes up to 56" made of carbon steel and micro-alloy steels such as ASTM A105 and all grades of ASTM A694.





Industrial Rings and Bushes

Various industrial rings and bushes used in oil, gas and other industries are produced in MSA metallurgy production group in different sizes as per the customer specifications and requirements. These parts are produced with modern ring rolling machines using hot rolling method and 1600- ton press employing mandreling method.

All forgeable materials such as carbon steel, stainless steel and other UH alloy steels are used in the production of these items as per EN10025, DIN17350, EN10083 standard and/or any other standards required by customers under the general standard of open die forging DIN7527.

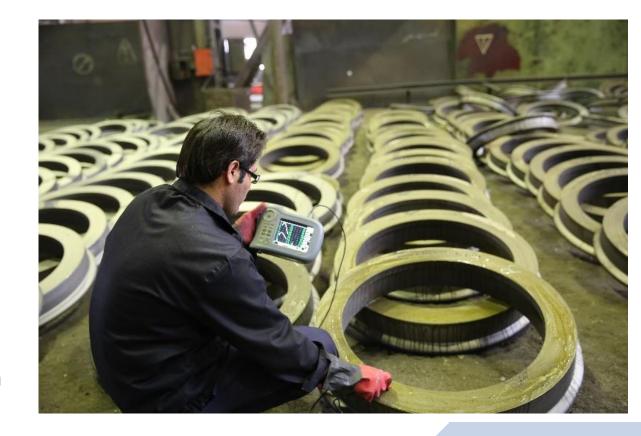




Railway Tires

Railway tires are among routine products of MSA metallurgy production group. Different production stages of which consist of steel making, ingot casting, cutting, forging, rolling, heat treatment, shot blasting and packing delivered to customers as normalized forgings.

Different mechanical tests such as tensile, impact, and hardness tests, macroscopic and microscopic structural examinations,100% ultrasonic tests along with constant inspections and controls during production processes emphasized in the related QC plan are all measures taken to ensure high quality of the products.





Steel Parts and Sections

Steel sections/segments such as plain and stepped sections, round and square bars, steel blocks and other special sections are produced in this production group using open die forging technique. All forgeable materials such as carbon steel, stainless steel and high alloy steels are used in the production these items as per EN10025, DIN17350, EN10083 and/or any other standards required by customers under the general standard of open die forging DIN7527.





Steel Balls

MSA metallurgy production group, the first manufacturer of steel grinding balls, enjoying its exclusive equipment facilities in steel making, forging and rolling, is actively involved in producing steel grinding balls used in copper, iron ore, cement, coal, phosphate, and gold mines/industries and aeronautic structures etc. as per the latest well-known international standards up to 100 mm. in dia. Using rolling and from 100 mm. to 300 mm. dia. using die forging.



INCINERATORS



H.P. TYPE INCINERATORS RANGE 150 TO 1000 KG/H TECHNICAL FEATURES

For the first time in the country with the participation of a reputable French company, ATI, an HP1000 industrial waste incinerator with a capacity of 3 tons per day according to the latest European Environmental Standard (Directive2000/76/EC) for Tehran Oil Refinery.





- * Mahshahr Oil Product Terminal Revamp On Shore
- * Engineering, Procurement and Construction of Karun 4 Bridges
- * Engineering, Procurement and Construction of Karun 4 Cable Stayed Bridges for Oil Pipeline
- Borzoueh Perochemical
- ❖ South Pars gas field development phase 14 (SPGFD Phase 14)



Mahshahr Oil Product Terminal Revamp - On Shore

The plan of Mahshahr Export Port was handed over to Machine Sazi Arak, Khatam-ol-Anbia and Rampco companies via National Iranian Oil Products Distribution Company as the owner of project in three parts of land, offshore and pipelines in the form of three EPC projects.

The project site of the Mahshahr Export Port is located at a distance of 11 kilometers from Imam Khomeini port and has 6 berths for loading oil products. P



The outline of the EPC works done in this project is as follows:

- Engineering and implementation of protection dikes
- Gasoline and fuel oil storage tanks,
- Land extraction from the sea of 32 hectares and pre-loading
- with soil and water
- Piping
- Power line and Substation
- Fire extinguishing and Terminal control system
- Electrical Equipment
- Pumps and two fuel oil heater units.



Engineering, Procurement and Construction of Karun 4 Bridges



Bridge type: Arch

Deck Type: Orthotropic

Deck length: 380 meters

Arc span: 300 meters

Arch deflection: 70 meters

Deck width: 11.8 m

Weight: 3800 tons

Owner: Iran Water and Power Resources

Development Company



Engineering, Procurement and Construction of Karun 4 Cable Stayed Bridges for Oil Pipeline

This project includes engineering, procurement, construction and commissioning of a large cable stayed bridge with a length of about 380 meters on the Karun 4 dam for passage of oil and gas pipelines which was carried out by Machine Sazi Arak Co. within 18 months



Bridge type: Cable Stayed

Deck Type: Orthotropic

Total length of the bridge: 380 m

Width: 9.2 m

Weight of deck and pylons: 1900 tons

Weight of cable: 100 tons

Owner: Iran Water and Power Resources

Development Company



Borzoueh Petrochemical

Civil and structure activities and engineering, procurement and construction of 6 spherical tanks with capacity of 9000 m different capacities and 4 fixed roof storage tanks and 8 floating roof storage tanks including piping ,firefighting, mechanical equipment(pumps, drums, thermal transformers, compressors and etc.), electrical activities, instrumentation and insulation equipment with a total weight of 34000 tons.





South Pars gas field development phase 14 (SPGFD Phase 14)

Designing, constructing, installing and commissioning four sea platforms equipped with 44 wells including 2 appraisal wells, 2 vertical wells and 40 development wells. These platforms also provide sewage water separation facilities along with gas from platforms and MEG injection and other related equipment.



Design, implementation and commissioning of two 32 inch marine pipelines to connect the platforms to the refinery with length of 211 km.

The design, implementation and commissioning of two 18-inch sea-line pipelines, with length of 16 km, and installation of 4-inch sea pipelines on the pipelines 32" and 18" for the transfer of glycols (inhibitor) with length of 228 km.

Design, construction and commissioning of a refinery on 170 hectares of land in the Pars-2 region including sour gasification facilities, extracting gas condensate, producing and exporting

LPG, Ethan and Sulfur.

Mining and steel industry



Due to the capabilities of MSA in the design and construction of precision structures of mineral and steel equipment and due to the high range of iron ore mines in the country, MSA with the participation of large and reputable domestic companies in the field of mining start to design and manufacture of precision and heavy equipment needed for the extraction and processing industries.

The manufacture, assembly and installation of autoclaves, well drilling machine, resuscitation furnace, are more than other products in this area.

Currently, the first Iranian hydraulic hammer has reached the production stage.



















Some equipment made MSA in Mining and Steel Industries



- 1. Azerbaijan Refinery equipment; Steam boiler
- Bangladesh Steam boiler; LPG tanks; Storage tanks, the huge Shisha bridge
- 3. **Belgium** Air conditioner
- 4. **Cyprus** Mobile liquefied gas tanks
- 5. **Turkmenistan** Refinery equipment, Steam boiler
- 6. France Cranes and oil wellhead parts
- 7. **England** Flanges of the oil industry
- 8. Oman Steam boiler
- 9. Jordan LPG tanks
- 10. Italy- Crane
- 11. Korea LPG tanks
- 12. Kuwait Steel flanges, Steam boiler

- 13. **Pakistan** Mobile liquefied gas tanks
- 14. Belarus Steam boiler
- 15. **Afghanistan** Steam boiler
- 16. Pakistan Clifton Strategic Bridge
- 17. Qatar Pressure tanks and boilers
- 18. Saudi Arabia Flanges of the oil industry
- 19. **Sudan** Boilers, fixed and mobile gas tanks
- 20. Syria Steam boiler, Crusher hammers
- 21. **UAE** LPG tanks, Oil equipment
- 22. Yemen LPG tanks, Oil equipment
- 23. Sri Lanka Heat exchangers
- 24. **UAE** Steam boiler, Flanges of the oil industry
- 25. Iraq Steam boiler, Bridge



Pakistan Clifton Bridge



Type: Continuous rigid frame

Length: 606 m

Width: 15/4 m

Weight: 2300 tons

Max. height: 17/25 m

Location: Karachi Pakistan



One Million Barrels Tanks at Chita Gong Refinery (Bangladesh)

Double Deck & Floating roof, inadequate access to technical facilities on site, frequent street strikes in Chittagong, torrential rains, swamps and seasonal storms were some of the problems with the project. Landscaping, foundation laying, installation and commissioning of this 3,000 ton project, after the hydrostatic part, was successfully handed over to the project employer, the Government of Bangladesh.





Export of 40 mobile tanks to Jordan

The design, construction and installation of liquefied natural gas storage tanks on bogies. It is noteworthy that each of these tanks had a capacity of 12,000 gallons of liquefied gas.





9800 gallon LPG tanks exported to Pakistan

These tanks were also produced and exported to Pakistan by the order of Pakistan Foundation Case Co. in an international tender. The capacity of each of these mobile tanks was 9800 gallons of liquefied gas.



- ❖ The first and largest industrial unit in the country that integrates the ability to melt, cast, design, fabricate and machining to final products
- ❖ The first Iranian company to obtain an international certificate of ISO 9001
- * The first and largest designer and manufacturer of steam boilers in Iran
- ❖ The first manufacturer of mobile oil refinery in Iran
- * The first manufacturer of methanol process equipment for Dena and Siraf petrochemicals
- ❖ The first manufacturer spherical tank in Isfahan Petrochemical Complex
- ❖ The first manufacturer of large arch bridges of Iran
- ❖ The first builder of floating bridges in Iran

Manufacturer of the first and largest industrial equipment in Iran

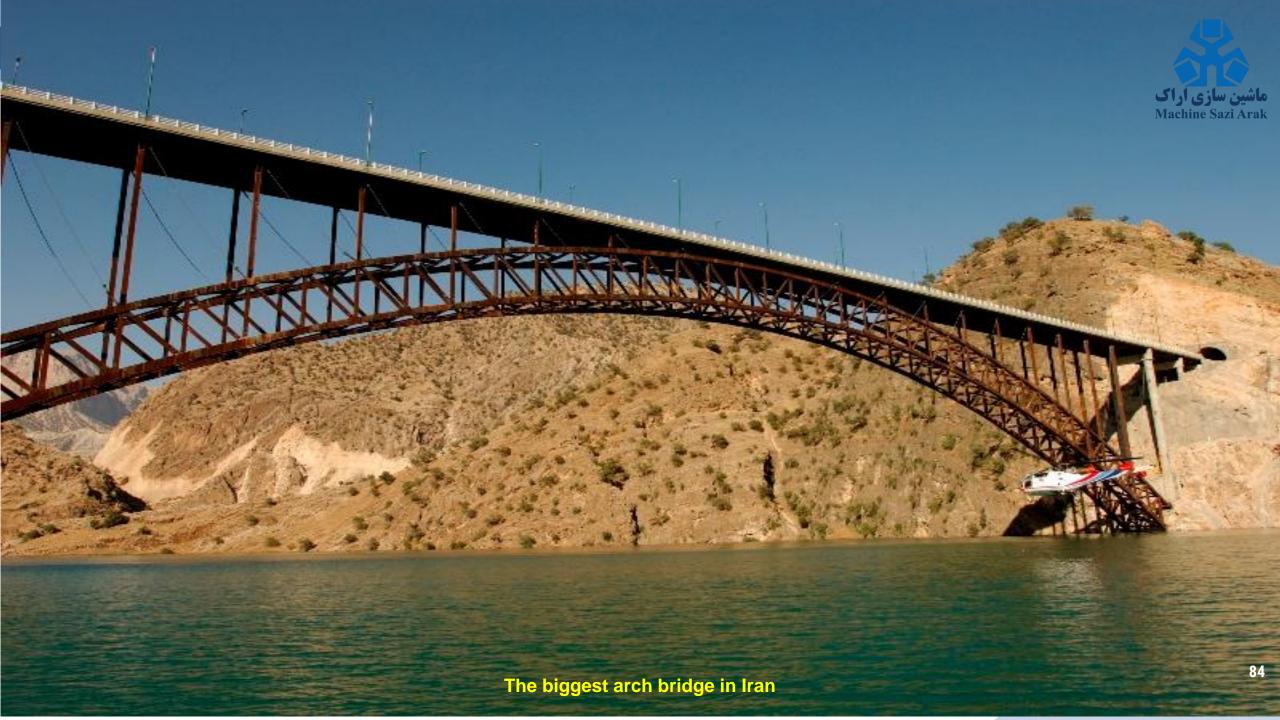


- The first manufacturer of largest distillation tower in Imam Khomeini Refinery
- ❖ The first manufacturer of cereal suction machines in Shahid Rajaee Port
- ❖ The first 42 -inch valve in Iran for Gore Crude Pipeline to Jask
- The first manufacturer of steam boiler in Iran and the Middle East
- The first manufacturer of drilling rig
- triplet salon steel structure roof Tehran Shahr-e-Aftab Exhibation
- The first manufacturer of wind power plant in Iran
- ❖ The first manufacturer of automobile production line in

Manufacturer of the first and largest industrial equipment in Iran

- * The first manufacturer of emergency bridges with corrosion-resistant
- ❖ The first manufacturer of titanium Shell heat exchanger
- ❖ The first manufacturer of gas industry equipment, filters, heaters, launches and receivers
- ❖ The first modern Iranian industrial educational complex
- The first designer and manufacturer of crude oil furnace in Iran (Mahshahr Export Port)
- ❖ Manufacturer of the largest storage tank in Isfahan Refinery 1/33 million barrels
- ❖ Manufacturer of the largest spherical tank in Kangan Petroleum 90,000 cubic meters
- Manufacturer of the largest steel structures for the 747 aircraft with 40,000 square meters and 154 meters span
- * Manufacturer of the largest Iranian power plant chimney at Shahid Rajaee Power Plant
- * Manufacturer of the largest and most thickest distillation tower for Mehrepetrochemi Petrochemical











The first manufacturer of petrochemical methanol equipment







The first builder of floating bridges in Iran









Manufacturer of the largest steel structures for the 747 aircraft with 40,000 square meters and 154 meters span





Training complex



This complex founded in 1969 and has research educational activities and has trained many skilled forces for the country's industries so far.



Area: 92,000 square meters including 22 technical workshops,

14 laboratories,

17 training classes,

2 conference halls,

2 computer sites,

3 dormitories with a capacity of 600 people, libraries and restaurants

Subsidiaries and partners





- MSA Engineering and Construction Company
- Paysaz Company
- Akam Oil and Gas Consortium Company
- Rakpad Company
- Kansar Technology Development Management Company













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Many thanks for your attention Public Relations Dep.