Yasna Arman Zendegi Engineering Co. (Mahyaz)



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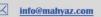
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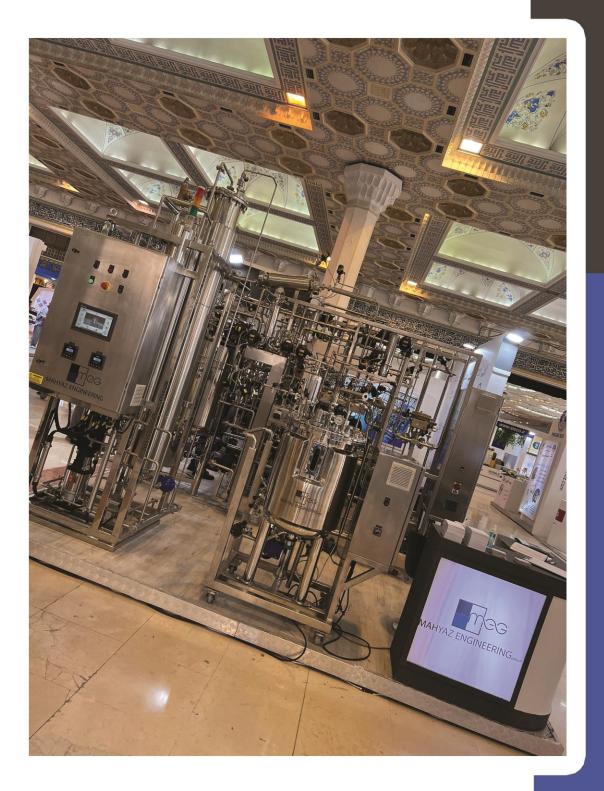
About Us

Yasna Arman Zendegi Engineering Company was established in 2015 to produce and supply equipment for the pharmaceutical, food, cosmetic and health industries, from smaller portable tanks to larger processing vessels, we have the capabilities and engineering, manufacturing, and documentation resources to deliver custom vessels as required. In order to improve product quality and meet the needs of the customers and stakeholders, the CEO of this organization has implemented integrated quality management systems (IMS) based on international standards ISO9001:2015, ISO14000:2015, ISO45001:2018.





Yasna Arman Zendegi Co. Services 1- Designing and manufacturing equipment for the pharmaceutical and biotechnology industries 2- production of purified water and clean steam systems (PS, PW, WFI) 3- Conceptual and technical design of pharmaceutical plant and implementation of clean room 4- production of stainless-steel equipment 5- Automation services and instrumentation 6- pharmaceutical piping, including sterile pipelines and **CIP** pipelines 7- Carrying out all activities related to validation (OQ, IQ, DQ) MAHYAZ ENGINEERING



Our Goals

- Our goal is to provide high quality equipment, excellent service and innovation for the food and drug industry.
- Compliance with the legal and regulatory requirements of the Ministry of Health, in accordance with GMP.
- Increasing production with high quality and developing products with variety according to customer demand in pharmaceutical and non-pharmaceutical industry.
- Increasing the satisfaction of customers and the job satisfaction of employees.
- effective functioning of the quality system using skilled and trained personnel.
- Business development and export strategy to enter global markets.



With experienced engineers and technicians, Mahyaz designs and manufactures all kinds of equipment according to customer orders and ASME BPE standards, which can be mentioned as follows:

MAHYAZ ENGINEER

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Design and manufacture of CIP and SIP equipment

Design and manufacture of chromatography columns

Design and manufacture of filtration systems

Design and manufacture of bioreactors and fermenters

Design and manufacture of heat exchangers and condensers

Design and manufacture of biological waste inactivation tank (Kill Tank)

Design and manufacture of clean room equipment for pharmaceutical industries

Design and manufacture of vessels and machines used in the pharmaceutical industry

The documentation that can be provided will include drawings, quality control inspections, surface roughness reports, and the results of the performed tests.

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Production of process vessels (bioreactor, fermenter and storage tanks)

Process vessels play a vital role in chemical, pharmaceutical and food manufacturing plants. Process products are prepared and stored in these vessels by controlling basic parameters such as temperature, pH, mixing speed, pressure, etc.

Process vessels in Mahyaz are made in accordance with the world's standards and can compete with reputable global brands.





In the design and construction of these vessels according to ASME BPE standards and GMP principles, detail such as CIP and SIP capabilities:

- Product contact parts SS316L
- Surface roughness Ra <= 0.4
- Passivation and electropolishing of surfaces
- Performing quality control tests along with Providing certificates are fully respected
- Vessels automation system are equipped with PLC control with HMI or PC



Design flexibility

Mahyaz produces all kinds of bioreactors and fermenters in laboratory and industrial scale. We provide the best solution for the optimal design and construction of a fermenter or bioreactor by using experienced engineers and personnel, which leads to economic production and at the same time with high reliability.





CIP and SIP systems

One of the most important services of Yasna Arman Zendegi Engineering Company (Mahyaz) is the production of various types of CIP systems according to customer requirements.





Capability:

- Central or mobile system
- Compact design
- Minimum maintenance cost
- Use of the most accurate tools to observe safety PLC controller system
- Automation system that can be synced to the destination equipment
- High resistance of the system against corrosion
- Skid-mounted
- Material structure of SSY19L



Manufacturing of purified water and clean steam systems (PW, WFI and PS)

Mahyaz Group designs and manufactures suitable water systems for pharmaceutical industries in accordance with BP and USP standards. It is possible to design and build water for injection (WFI) and pure steam (PSG) systems in requested capacities according to the available standards.





Conceptual and technical design of pharmaceutical plant and implementation of clean room

Clean room is an enclosed space in which airborne particulates, contaminants, and pollutants are kept within strict limits.



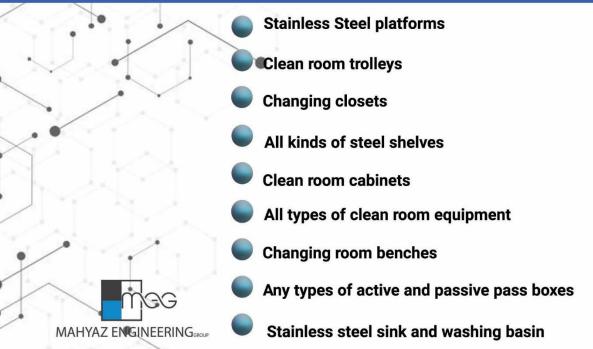




Supply and implementation of clean room and antibacterial flooring, supply of all electrical and installation infrastructures, implementation of ventilation systems according to the class of clean room, control and monitoring systems are among the necessary activities. Mahyaz engineering and process team provides the best solutions for optimal use of space and cost reduction in compliance with GMP standards, according to customer needs in various production and operational processes.

Stainless steel furniture:

Manufacturing of stainless steel furniture and accessories with the highest quality using stainless steel (316 and 304):



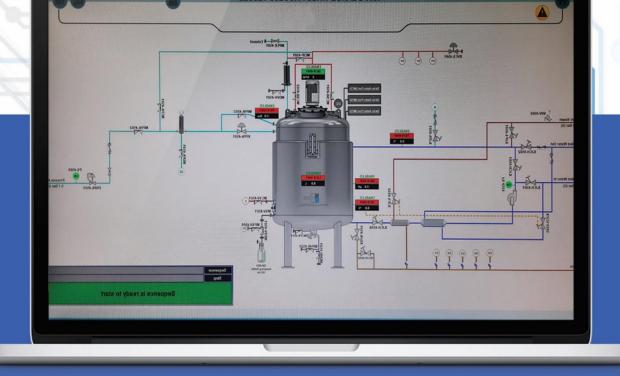




Automation services

Simplifying complex processes using automation in the very challenging environment of pharmaceutical and biopharmaceutical production is one of the most important services of Mahyaz Engineering Company.

Complex processes in the automation sector will be solved using 21CFR Part 11 solutions. By using automation technology, it is possible to monitor, record, analyze and control all operations.







our services

Mahyaz automation team engineers with good experience in automation systems, offers the following services to its customers:

- Design and development of automation systems for various industries
- Installation, commissioning and automation of pharmaceutical, food, cosmetic and oil industry
- Consulting regarding the design and implementation of automation systems according to customer needs
- Overhauling all electronical cabinet and electronic boards of machines including power, various types of interfaces, network cards, I/O Remote and ...





Piping

In the pharmaceutical and food industries, piping systems and fluid transfer are divided into two parts:

- 1- Hygienic piping system (Clean Utility)
- 2- Utility piping system (Black Utility)

The fluids used in the production process with direct contact with the product and the raw material are of the hygienic type, and the fluids that are for providing energy and indirect contact with the product or the raw material are the utility type.

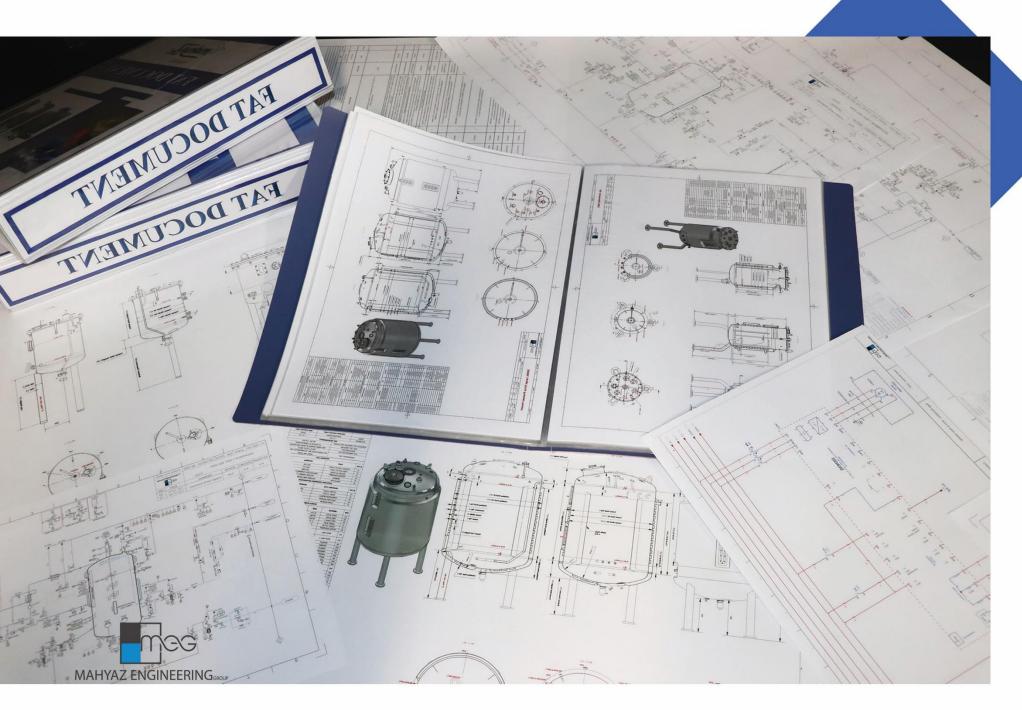












Documentation and validation

Mahyaz Engineering Company, has years of experience in this field and implementation of projects in the pharmaceutical and other industries. Therefore, consulting and preparation of all documents related to documentation and validation of pharmaceutical machines and devices will be done by Mahyaz engineering team in order to improve the quality of pharmaceutical companies' documentation.

Material traceability is stablished with the purchase and receipt inspection of materials and is systematically maintained throughout the manufacturing and assembly processes.

Quality Assurance The quality assurance system is one of the most important parts of production and it is called the regular monitoring and evaluation of various aspects of a project. Quality assurance documents are as below: - Design Qualification (DQ) - Installation Qualification (IQ) - Operation Qualification (OQ) - Factory Acceptance Test (FAT) - Site Acceptance Test (SAT)

Projects of Mahyaz Engineering Company (Clients)

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Pharmaceutical industry

-0-	00000				
0	Aryogen Pharma Company	3 No. 2000L Mobile Vessel			
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-	000000000000000000000			0000000	
0	Aryogen Pharma Company	4 No. Bioreactor (25, 100, 500, 2000)L		0000000	
- 0					
1					
	Aryogen Pharma Company	4 No. 100L Mobile Vessel			
	0 00000				
	Aryogen Pharma Company	500L CIP Station, 300L Media Preparation Vessel, Filtration Ski	id, 1500L Media Preparation Vesse		0
					0.0
,	000000				
	Aryogen Pharma Company	500L Buffer Storage, 2000L Media Preparation, 1000L	Dilution, 2000L Mobile Vessel		
					9.0
	Abidi	PW Subloop distribution (1000L tank, distribution syste	em)		
					00
					00
	Raya Pardis Pharmed Alborz	1700L/h PWG, 1000L/h WFIG, 5000kg/h PSG			9.0
		000000000000000000000000000000000000000			
					0.0
1	Atrazist Aray	2000I/h PWG, 1000 I/h WFIG, 700kg/h PSG		00000000000000	00
	,,	2000, 111 110, 1000 (/1 11110, 700kg/111 00			
	Fakhra vaccine project	PW Generator 500Lit , PW Tank 1000L			0.0
	· aa racee p.e,cer			00000000000000	0.0
1	Omid Parsina Damavand	PW Generator 500Lit , PW Tank 3000Lx2			0.0
ı	Ollilu Parsilla Dalliavallu	FW Generator Soulit, FW lank South2		0000000000	0.0
1	Behnood Pharmed	PSG (Pure Steam Generator) 350 kg/h			
	Beillioud Filarified	P30 (Pure Steam Generator) 350 kg/m		000000000	
				0000000	
1	Pouyesh Darou	3 No. Fermentor (25,100, 500)L			
	Fouyesii Daiou	3 No. Fermentor (25,100, 500)L			
				00000000	
7	00 0000	0000		00000000	
	Fakhra vaccine project	31 process vessels, 20 to 1200 liters with automation			
,	0000000000			000000	
	Vira Vaccine company	46 process vessels, 50 to 4000 liters bioreactors and fermente	rs with piping and automation	000000	
	moo				



<u></u>	Biosun pharmed company	Vaccine Project for PPG company
6	Bonda company	19 process vessels and fermenters, 10 to 1250 liters
ैं	Biosun pharmed company	Piping of PW, WFI, CS lines for STILMAS company (Peptide project)
<u>6</u>	Biosun pharmed company	Piping of PW, WFI, CS lines for STILMAS company (Biosimilar project)
6	Abidi pharma company	Piping of HPW, CS lines for STILMAS company
<u>©</u>	Pouyesh Pharma company	Piping of PSG-BWT and bioreactors and fermenters
6	Aryogen pharma company	Piping of PW, WFI, CS and laboratory gas lines
<u></u>	Samen pharma company	WFI, CIP and water room piping
6	Sinagen pharma company	Piping of PW, WFI, CS and laboratory gas lines
<u></u>	Daroo pakhsh company	Orbital welding and vessels electropolish
េ	Novagen pharma company	PW, Air and water room piping
6	Aryatinagen company	PW, Air and water room piping and pump installation
ैं	Tolid daroo pharma company	PW, Air and water room piping (orbital welding) with complete drawing and documentation and pump installation
ि	Tofigh droo pharma company	Piping of PW, WFI, CS
S	Neshat daroo pharma company	PW, compressed air and water room piping with documentation
ि	Minoo pharma company	PW, compressed air and water room piping with documentation

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Projects of Mahyaz Engineering Company (Clients)

<u>6</u>	Actoverco company	Piping of process line for Biozeen vessels (BIOZEEN project)
6	Zistdaroo pharma company	Sewer piping and PW lines modification
<u>6</u>	Biosun pharmed company	Compressed air and N2 Piping - drain lines piping
6	Iran hormone company	PW and water room piping
G i	Pars daroo pharma company	PW and water room piping
6	Alborz daroo pharma company	PW and water room piping with orbital welding
6	Abooreyhan pharma company	Clean steam and black steam piping
6	Spadana pharma company	PW and water room Piping
6	Temad Company	Piping of PW, WFI, CS lines
6	Eksir pharma company	Piping of PW, WFI, CS lines
6	Imen vaccine pharma company	Compressed air, laboratory gas lines and water room piping Chilled water and clean steam piping
6	TakGen pharma company	PW and clean steam piping
<u>6</u>	Aryan Salamat Sina pharma company	Piping of PW, WFI, CS, CHS, CHR lines with complete documentation
6	Padra serum pharma company	PW, WFI, CS lines and compressed air piping



8	Vira Vaccine pharma company	PW, WFI, CS lines and compressed air piping (Shaya project)
000	Behnoodgen pharma company	PW, WFI, CS lines and compressed air and water room Piping
	Roozdaroo pharma company	PW, WFI, CS lines and compressed air and water room Piping
	BooALi research organization	Piping of PW and compressed air line Laboratory gas lines and water room piping
	Food and dairy indus	
	Pegah Milk company (Tehran)	Sterile unit piping and welding
	Pegah Milk company (Zanjan)	Ammonia unit piping and welding
	Bakhtar Milk Company	Compressed air, water line and sterile unit piping and welding
	Chemical industry	
l	Paksan company	Ammonia unit piping and welding
	Razavi Hospital	Compressed air and utility piping