



TAM 

TAM, Pioneer in Providing Engineering Solutions

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Introduction

TAM Iran Khodro is an international company active in engineering, construction and industrial fields. Since its early history as an EPC company, it has relied on its human resources' knowledge to apply modern technologies effectively and has experienced remarkable progress in engineering and implementation of various projects in different fields and areas.

Dynamic new management and commitment to the values of meritocracy as well as localization of new global technologies are a part of TAM's achievements.

TAM provides services and products in different areas such as automotive industry, industrial automation, oil, gas and petrochemical industries, Transportation and infrastructure, mining industries and power plants.

History

1997: TAM foundation

1998: design and construction of IKCO robotic manufacturing lines

2003: localization of knowledge & entry into mining, power plant, oil, gas and petrochemical, transportation and infrastructure, control and instrumentation markets by relying on EPC experiences

2009: commencement of solution providing activities in the form of EPC contractor

2018 onward: equipping services with new technologies and entering design & manufacturing of high technology automotive components



Introduction



Introduction

Vision

TAM is an agile and pioneer company in providing engineering solutions

Mission

As a knowledge base company, we rely on our creative and qualified employees and are active in design, engineering, procurement and implementation of industrial and civil projects, domestically and globally.

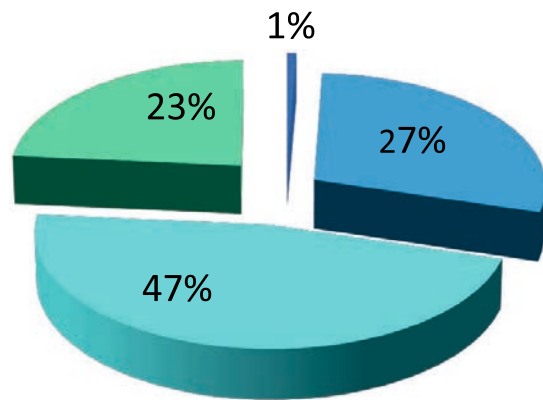
Values

- Attentive and responsive interaction with customers, shareholders and partners
- Professional ethics, excellence and value creation
- Caring for staff's development
- Social responsibilities
- Results-oriented, risk-taking and teamwork



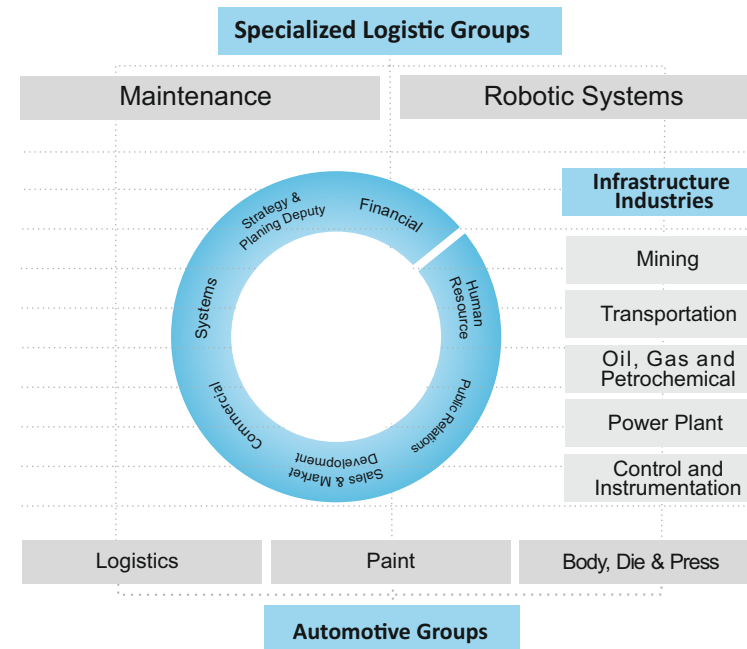
Human Resources

From the start, TAM has managed to employ highly committed young Iranian expert, educated in the best universities around the world. Today the company enjoys more than 478 employees with tries to create values for the stakeholders.

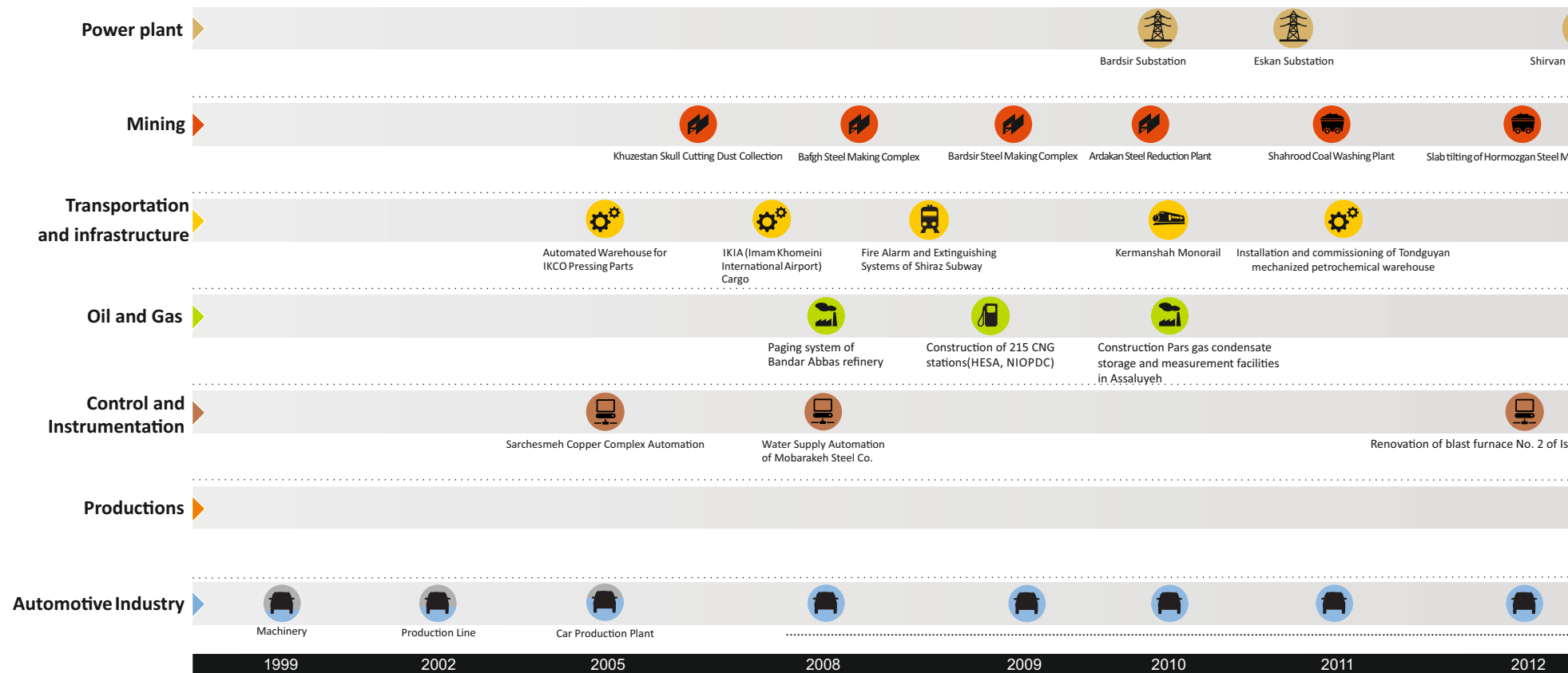


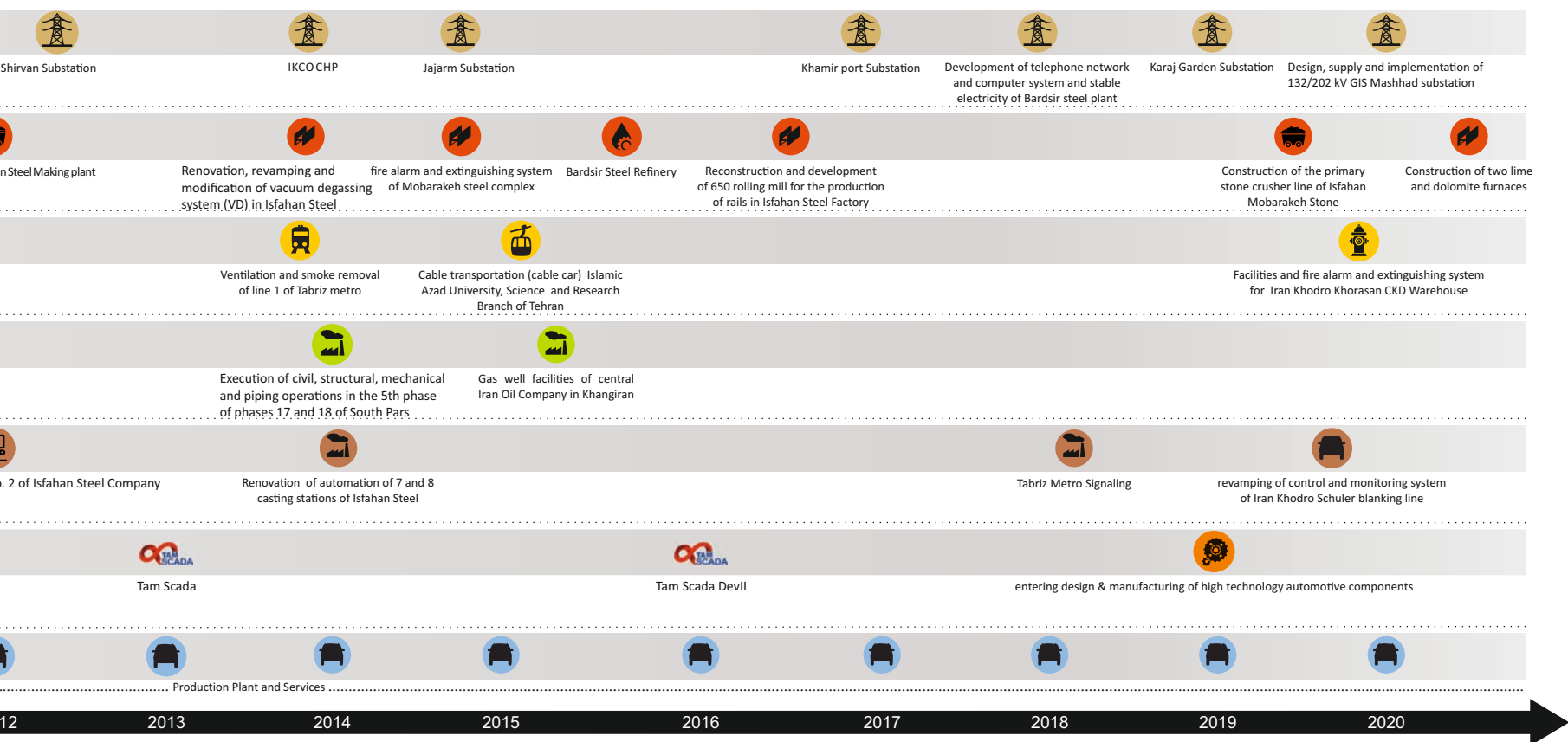
TAM Human Resources Graph in 2021

■ PHD ■ Master's Degree ■ Bachelor's Degree ■ Associate's Degree

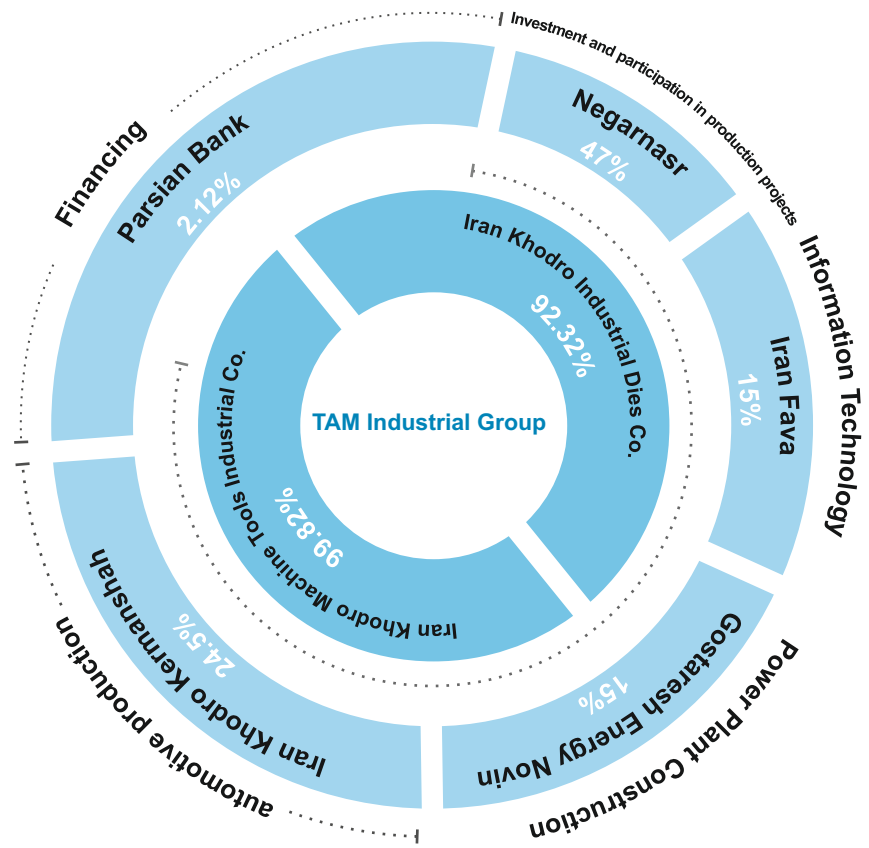


TAM in Different Business





Investment In Other Companies



Subsidiaries

In line with its activities, TAM Iran Khodro has invested into different companies and organizations.

- **Iran Khodro Industrial Dies Co. (IKID):**

Design and development of automotive stamping dies and panel gauges as well as required equipments for car production lines and other industries with the capacity of 1460 tons a year

- **Iran Khodro Machine Tools Industrial Co.**

Design and development of special machineries





Areas Of Business

Automotive Industry

TAM started working in this area in 1997. Improving the quality of cars and boosting up the efficiency of car production were the main purpose of TAM was to enter this area. TAM also aimed to transfer latest global automotive technologies into Iran and localizing it based on the global standards.

Some of the main activities of this group are as follows:

- Project Management
- Process Design
- Equipment Design
- Equipment Development and Supply
- Installation and Commissioning

Automotive Industry consists of Body, Logistics, Painting and Power train sectors..

Body, Die and Press Group

Having many years of effective experience in successful performing and conducting of projects, TAM shows that it has great capabilities in building and installing car production and assembly lines. Production lines established by TAM, enjoy the world's most modern technologies and based on the client's order, they would fulfill different ranges of production capacity from one to twenty four cars per hour.

These services provided by this group includes a variety of activities and based on the clients' demand and the nature of the project; they would be delivered to the clients as a turnkey projects with the following services.



Plant design and layout

- Design of body assemblies process and preparation of required documents
- Concurrent engineering designs of car body
- Modeling and simulation of manufacturing processes
- Optimization of existing lines

Paint Group

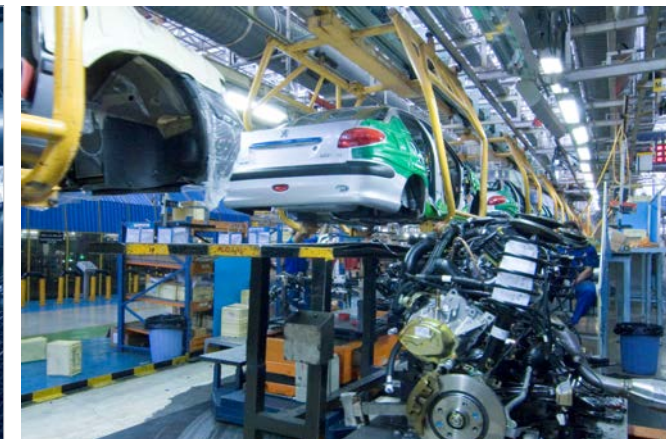
This group enjoys high capabilities in design, implementation and commissioning painting as a Turnkey projects for cars, wagons and airplanes at any capacity and level of automation. This group considers energy and emission reduction as its main goals.

Services provided by the paint group

- Paint process design based on the products requirements
- Paint shop layout designs
- Modeling and simulation of equipments
- Optimization and renovation of existing lines
- Improving automation level in production lines
- Executive management of paint projects
- Providing consultation and evaluation of economic feasibility of paint projects

Logistics Department

Logistics group started its career with design and development of material transportation systems such as overhead conveyors, floor conveyors, special handling equipments, installation and commissioning of final assembly lines and final acceptance shops. Working areas of this group consists of final assembly, trim shops, test and final acceptance shops, material transportation systems for different industries, automated storage and retrieval systems, cargo terminals, layout design, simulation and balancing of production lines. This group provides related services to boost up the quality of products and customers' satisfaction. These services are available from feasibility evaluation phase to end of the project and the whole guaranteed period.





Oil, Gas & Petrochemical

Engineering, procurement, manufacturing, construction & commissioning services in oil, gas & petrochemicals on the basis of turnkey projects, such as:

- Process plants
- Oil depots & terminals
- Oil pump stations
- Compressed natural gas stations
- Electrical & mechanical systems
- Utility units: HAVC, F&G, Air, Nitrogen
- Skid mounted metering systems for measuring oil & gas products
- Oil and Gas pipelines

projects:

- Construction of Assaluyeh condensate storage tank farm with nominal capacity of 640000 cubic meters a year
- Installation of 115 dual-purpose CNG refueling stations
- Installation of 110 single-purpose CNG refueling stations
- Assaluyeh drinking water supplying project
- Paging system for Bandar Abbas refinery
- Civil works, structural, mechanical and piping operations in phases 17 and 18 in South Pars gas fields
- 10000 Tons Storage of gasoline





Areas Of Business



● **Transportation and infrastructure**

As a general contractor, this group is capable of providing engineering solutions and managing EPC development projects in design, development and commissioning urban and interurban railroads.

Full implementation of urban and interurban railroads

- Civil works, structural and architectural operations (infrastructure, pavement, stations, control centers, depots and parking lots)
- Electrical and Mechanical Equipments:
 - Signaling, communication and control
 - Power supply, distribution and traction substations, overhead network and third rail
 - Fire alarm and extinguishing systems
 - Ventilation of tunnels, stations and control buildings
- Supervisory Control and Data Acquisition (SCADA) and Building Management
 - (BMS) Systems
 - Elevators and escalators
 - Automatic ticket issuing and controlling systems
 - Depot equipments
 - Supplying required fleet for urban and interurban railroads (monorail, subway, electric and diesel locomotives)
- **Design and supply requirements for maintenance terminal of urban railroads and subways like:**
 - Factory design
 - Process engineering
 - Implementation of robot applications in manufacturing processes of different parts such as body and bogies





Mining Industry

This group implements various types of projects in the field of mining and metal industries under EPC contracts. The modified fields of activities are establishment of Steel Making plants and related subsidiaries, establishment of reduction plants to produce sponge iron, concentration plants, pelletizing plants and performing EPC projects in Aluminum, copper and coal fields.

Projects:

- Bafgh Steel Making Complex
- Bardsir Steel Making Complex
- Ardakan Steel Reduction Plant
- Shahrood Coal Washing Plant
- HSCo. Steel Slab Tilting Device
- KSCo. Skull Cutting Dust Collection



TAM

Areas of Business



Areas Of Business



Power Plant

Design, Engineering, Procurement, installation & Commissioning services in power fields such as:

- Gas Turbines & Generators
- Steam Turbines & Generators
- Combined Cycle Power Plants, Combined Heat And Power(chp)Projects
- Design, Supply, And Installation Of Electrical Substations
- Design, Supply, And Installation Of Dcs And Plc Systems
- Design, Supply, And Installation Of Mechanical And Electrical Bop

Projects:

- Design, Procurement And Installation Of IKCO 50 Mw Combined Heat And Power Projects.
- Design, Procurement And Installation Of Total Integrated Fire Protection And Alarm System Of IKCO
- Design, Procurement And Installation Of Seniran(senegal Samand Car Factory) Mechanical And Electrical Utilities.
- Design, Procurement And Installation Of Siamco(syria-damascus Samand Car Factory) Mechanical And Electrical Utilities.
- Design, Procurement And Installation Of Mechanical And Electrical Utilities Of Tehran Imam Khomeini International Airport Cargo Terminal.





Control and Instrumentation

This group undertakes projects in industrial automation, control and instrumentation systems on EPC bases. The main fields of this group's activities are:

- Distributed Control System (DCS)
- Supervisory Control and Data Acquisition (SCADA)
- Instrumentation
- Robotic Control

Projects:

- Sarchesmeh Copper Complex industrial automation
- Renovation of blast furnace automation in ESCO.
- Renovation of automation in foundry ESCO.
- Installation and commissioning of automated warehouse in Tondgooyan Petro-chemical Co.
- Renovation of water supply automation in Mobarakeh Steel Co.
- Commissioning Hezar Aluminium Industries Company (HAIC) in Kerman province
- Control systems in IKCO production lines, press shops, body shops, paint shops, trim shops, engine shops, machining shops, transmission lines and automated warehouse



TAM

Areas of Business



Technical
Department



Robotic Systems

The main activities of robotic systems group are as follows:

- Design, supply, installation and commissioning of robotic lines and cells for different purposes like welding, transmission of materials, sealer and PVC spraying, painting, 3D measuring, labeling, casting
HP water jet cutting, drilling, cleaning, picking, packaging and placing, burnishing and polishing
- Design, supply, installation and commissioning different types of industrial manipulators (pneumatic and electric)
- Design, supply, installation and commissioning special machines
- Providing training services for operation and programming industrial robots

Maintenance Group

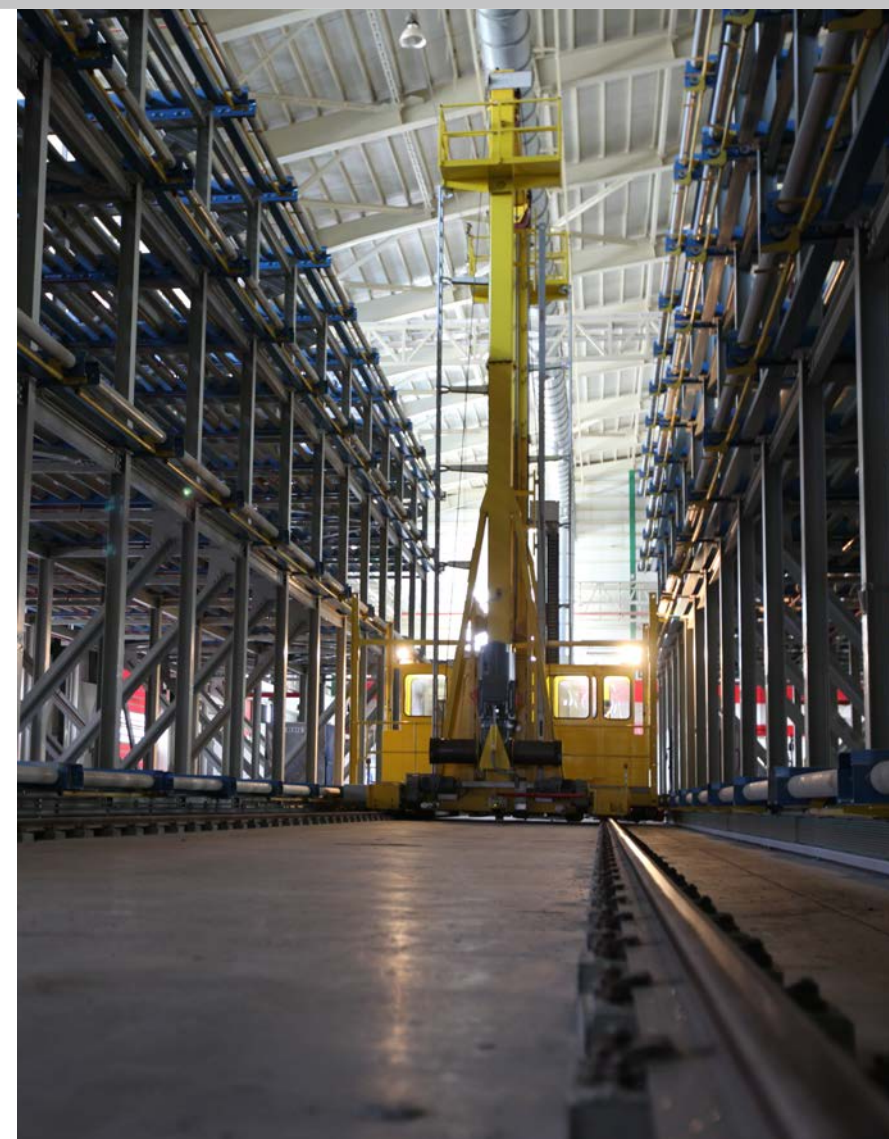
This group provides consulting services and performs maintenance projects on mechanical, electric, hydraulic, pneumatic equipments, designs and makes maintenance manual and automatic systems which of that provides professional training related to maintenance.

This group is currently running the following maintenance projects:

- Car body production lines
- Transmission including overhead conveyer, D/L, Shuttle, P&F and EMS
- Paint shops
- Automatic press shops
- Transmission assembly & production lines
- Spare parts preparation such as Ram, Axel, etc.
- All industrial robots (KUKA, ABB, Hyundai)



Project name	Executive
<p>Peugeot 206 SD Body and trim production Line The aim of this project was design and development of Peugeot 206 SD in IKCO for the first time. The capacity of this fully automated production lines is 25 cars an hour.</p>	Automotive Group
<p>Infrastructural Utilities of Senegal Samand plant The project consists of all electrical and mechanical utilities together with safety and security systems of paint shop, body shop, final assembly shop and warehouses of Samand production plant in Thiès, Senegal.</p>	Automotive Group
<p>Automated warehouse and transmission lines for Pressing Parts The aim of this project was design and development of Peugeot 206 SD in IKCO for the first time. The capacity of this fully automated production line is 25 cars an hour.</p>	Control and Instrumentation Group
<p>Syria Samand production plant The project included design, engineering, supply and manufacturing of body shop, paint shop, final assembly line as well as complete construction of electrical and mechanical installations of Samand production plant in Syria.</p>	Automotive Group
<p>Senegal Samand production plant The project included design, engineering, supply and manufacturing of body shop, paint shop and final assembly line as well as complete construction of electrical and mechanical installations of Samand production plant in Senegal.</p>	Automotive Group
<p>Sarchesmeh Copper Complex Automation Renovation and revamping of control system and instrumentation of all Sarcheshmeh cooper complex plants without any interruption in the production under an EPC contract.</p>	Control and Instrumentation Group
<p>Automation of Water Supply in Mobarakeh Steel Co. Replacement, upgrading and renovation of old control and monitoring systems without any interruption in water supply of casting units.</p>	Control and Instrumentation Group
<p>Commissioning of CNG Stations Design, supply and installation of 115 dual purpose CNG refueling stations in various provinces all over the country.</p>	Oil, Gas & Petrochemical Group
<p>Khorasan Steel Co. Skull Cutting Filtration System TAM implemented a skull cutting filtration system project in Khorasan Steel Co. This system removes dust and other pollutants form melting ladles caused by skull cutting process during melting phases.</p>	Mining Group
<p>Development and Completion of IKCO Engine Shop No.3 The project was to design, manufacture, install and commission IKCO Engine Shop No.3 and related after sales services. The capacity of this engine shop is 250000 engines per annum.</p>	Automotive Group
<p>Cargo Terminal of Imam Khomeini International Airport This smart cargo terminal is able to separate, pack and warehouse 450000 tons of cargos a year.</p>	Automotive Group
<p>Commissioning of 100 CNG refueling stations Design, supply and installation of 100 single purpose CNG refueling stations in various provinces all around the country .</p>	Oil, Gas & Petrochemical Group



Project name	Executive
<p>Eskan Power Station The aim of this project was designing and development of Peugeot 206 SD in IKCO for the first time. The capacity of this fully automated production line is 25 cars an hour.</p>	Power plant
<p>Fire alarm and Extinguishing Systems of Line 1 of Shiraz Subway The project includes design and engineering of fire alarm and extinguishing systems of stations, depot and central building of Shiraz line 1 subway and also supplying of foreign and local required equipment, installation and commissioning the whole system and related training.</p>	Railway
<p>Kermanshah Monorail The project includes design and engineering (basic research, phase II research, passive defense, mapping and geotechnical engineering), civil engineering and structural dynamics of the routes, stations, control center, depot, parking lot as well as electrical and mechanical equipments.</p>	Railway
<p>Ardakan Steel Recovery plant The aim of this project is to produce 960 thousands tons of sponge iron form pellets in Midrex method. This project is implemented under an EPC contract.</p>	Mining Group
<p>Bafgh Steel Making Complex Bafgh Steel Making plant is built near to Choghart iron mine. This plant is going to produce 800 thousands tons of steel (billet and bloom) per annum. This is an EPC project.</p>	Mining Group
<p>Bardsir Steel Making Complex Bardsir Steel Making plant is being built near to Bardsir city of Kerman province. The plant is going to produce 800 thousands tons of steel (billet and bloom) per annum. This is an EPC project.</p>	Mining Group
<p>Assaluyeh Condensation Storage Tank Farm and Metering Systems Condensation Storage Tank Farm in Assaluyeh will be constructed for storage of condensates which from a few number of South Pars Gas Refineries with nominal capacity of 640000 cubic meters.</p>	Mining Group
<p>Shahrood Coal Washing plant Shahrood Coal Washing plant is being built in the North East of Shahrood city in Semnan province. This plant is going to produce 700 thousands tons of washed coal. This is an EPC project.</p>	Mining Group
<p>Modernization and Automation of Esfahan Steel Company's Blast Furnace No. 2 Modernization and Automation of Esfahan Steel Company's Blast Furnace No. 2 consist of renovation of control systems, instrumentation, electrical power of loading and peripherals equipments, conveyers, blowing and injection of control units as well as level 2 automation control system.</p>	Control and Instrumentation Group
<p>Installation and commissioning of automated warehouse in Tondgooyan Petro-chemistry Co. phases 1 and 2 The purpose of this project is to install and commission warehouses to store and automate restoration of synthetic cotton bales.</p>	Control and Instrumentation Group
<p>Automated Car Parking System The aim of this project is to supervise project implementation of an Automated Car Parking System with capacity of 168 vehicles in 15 floors, four of which are underground. Parking dimensions are 15*17*20 meters.</p>	Control and Instrumentation Group





Tam moves towards sustainability in global markets

Over a decade of continuous activities in domestic markets such as railways, mining, oil & gas, power, control and instrumentation industries has prepared TAM as a general contractor company to enter into global market.

Identification of opportunities and international tenders , building trusted relationship with local general contractors in target

markets, signing memorandum of cooperation with foreign and participation in tenders held in the target market countries are some of activities Tam has paved the way of expansion of exportation.





Memberships and Certificates

- Iran Association of Industrial Equipment Manufactures
- Society of Iranian Petroleum Industry Manufacturers
- Iran Electrical Industry Syndicate
- Iran Association of Industrial Automation Companies
- Member of UITP
- Iranian Association of Transport Engineering



Certificates:

- Certificate of Competency No. 1 for design and construction in electric and metal industry from vice presidency for strategic, planning and supervision
- Certificate of Competency No. 1 in industry and mine, facilities and equipment and building and Certificate of Competency No. 2 in power generation from vice presidency for strategic, planning and supervision
- Iran's top (A+) Engineering, Procurement and Construction (EPC) contractors in industry and mine from Industrial Management Organization of Iran
- Customers' Right Certificate from the Ministry of Industry, Mine and Trade

Awards and Scores:

1. IMS Certificate in design, engineering, procurement and implementation of industrial projects from TUV NORD including ISO 9001:2008, ISO 14001:2004, OHSAS 1800:2007
2. Most Admired Knowledge Enterprises (MAKE) Awards as one of Iran's three representatives in Asian competition
3. Iran's top technical and engineering company in 2020
4. Crystal Trophy of Seventh National Productivity and Organizational Excellence Award EFQM
5. Approved by knowledge-based companies by the Vice President for Science and Technology
6. Crystal Prize Winner of Financial Management
7. Gold Medal of Research and Development from the Ministry of Industry, Mine and Trade



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