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IRAN KHODRO Aluminium Casting Company (private joint stock), has been registered in 2000, in order to provide IRAN KHODRO INDUSTRIAL GROUP's car engine aluminium casting parts beside Country's other market vehicles. In 2004, the Company succeeded to obtain Production Part Approval Process (PPAP) from Peugeot France. The company's factory is located near Abhar, a city nearby west of Tehran by 230 kilometres.

#### Future Perspective:

As one of the main companies of Iran Khodro Industrial Group, becoming one of the leading producer and exporter of aluminium casting components in terms of quality and quantity and preserving all beneficiaries' interest including customers, staffs and shareholders have been our main objective.

#### Core Values:

Iran Khodro Aluminium Casting Company's managers and staffs have adhered to human values and Islamic beliefs and values. In this regard, efficient human resources are considered as the largest and most important Company's capital so, the Company takes benefit of all employee's consultation in its activities.

In this regard, the following fundamental values are taken into consideration:

- \* Producing high quality products to satisfy customers
- \* Train employees and improve their knowledge level
- \* Emphasize human height values and improve employees satisfaction
- \* Having job commitment, creativity and perseverance
- \* Organizational excellence and adherence to social responsibilities and environmental preservation





stock:

Production capacity:

Production Type:

Ground area:

Area of heavy halls foundation:

Area of light halls foundation:

Area of office buildings and dormitories foundation:

Electrical power:

water:

Water purification system:

Gas:

Registered Capital:

Number of employees:

100% IKIDO

15,000 tons per year expandable to 30,000

tons per year

Driving force and engine's Aluminium alloy

casting parts

32 acres

7528 square meters and 18 meters height

11096 square meters and 8.5 meters height

2000 square meters

6 MW

Well, 7 litres per second output

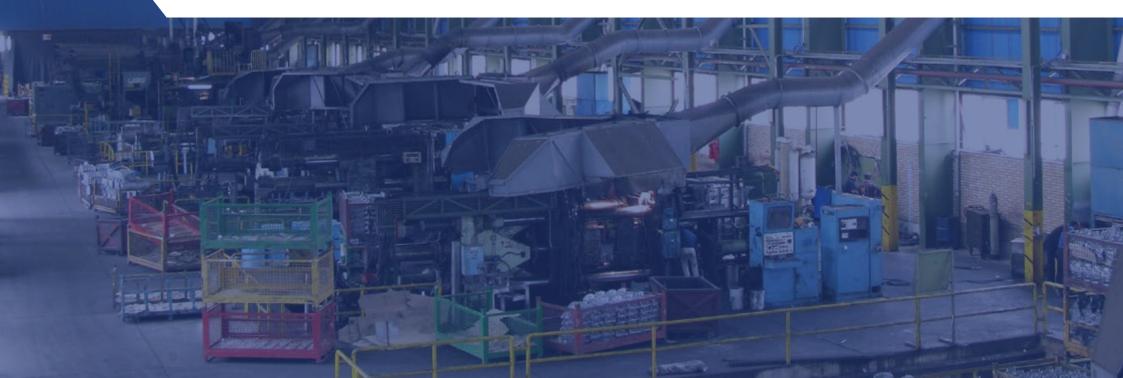
6 cubic meters per hour

Natural Gas Network and 40 tones LPG capsule

300 Billion Rials

588 people







#### **Production Facilities**

- A) Melting unit
- B) Gravity casting units for production of XU7, TU3, TU5 and EF7 Cylinder Heads
- **C)** High Pressure Diecast Unit (H.P) for production of all types of Cylinder Blocks, clutch Housing, Gearbox Housing, Differential Housing, Odometer gauge Housing, TU3 BEARING HOUSING and (EF7) national engine parts
- **D)** Core making unit (Cold Box and Hot Box)
- E) Laboratory units (mechanical, metallurgical, X-ray, quantometer, sand, measurement and calibration)
- F) Research Unit
- **G)** Molds repair and maintenance units









#### **Melting Equipments**

- 3 units of 13 tons Furnaces (capacity 1500 Kg/h)

- 3 units of 3 tons Furnaces (capacity 600 Kg/h)

- 6 units of 400 Kg Furnaces (capacity 1100 Kg/h)

- 2 units of 2 tons Furnace

- Degasification Equipment

















#### **Gravity Casting Machines**

- 2 Automated Gravity Casting Lines for Cylinder Head Casting (Made by Italian FATA Co.) (6 units)
- 1 Automated Gravity Casting Line for TU5 Cylinder Heads (made by TAM) (3 units)
- An automatic Gravity Casting Line for Cylinder Head (line L3) (2 units)
- 1 Automatic Rotary Gravity Casting Line for Cylinder Head (Making IKACO) (3 units)





## High Pressure Die Cast Machines H P (Die Casting machine)

- Die cast machine 2500 tons: 1 device

- Die cast machine 2300 tons: 2 devices

- 1600 tons machine: 4 devices

- 1200 tons machine: 1 device





#### **Cylinder Head Trimming Machineries**

- 3 Automatic Decoring machines
- 2 Feeding Cut Machines (made by TAM Co.)
- 2 Cubing machines (made by TAM Co.)
- 5 Grinding Machines
- 2 Drilling machines





# Coring Systems (Cold box & Hot box )

- Fully Automatic Cold Box Sand Core Making System (5 tons/h)

- 13 Cold Box Core Making machines

- 6 Cold Box Core Making machines





## **Trimming Line for Many Kinds of:**

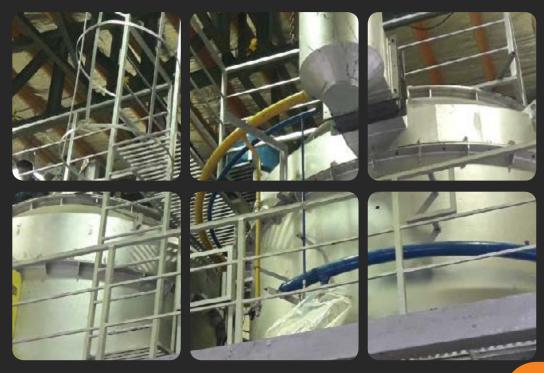
- Cylinder Blocks
- Clutch Bearing
- Clutch Housing
- Gearbox
- Differential
- National Engine Parts



www.ikaco.ir IRAN KHODRO Aluminum Casting Company (IKACO)



**Thermal Line** 





- Oil Carter Line Machining XU7
- Ammines Scriber Equipment

- Core Discharge Equipment,
Leak Testing, Leakage,
Finishing

- Core Discharge Equipment,
Leak Testing, Leakage,
Finishing

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#### Measuring & Testing Equipments

- 2 CMM Machines
- 2 Spectrometers
- 2 Radioscopy Machines
- 1 Electronic Microscope
- 1 Light Microscope
- 6 Impregnation Test Machines (Air Water)
- Complete Metallographic Equipment
- Melting Aluminium Density testing Machine
- Complete Sand Testing Equipment( Measurement and Analysis )
- Strength Testing Machine
- Hardness Testing Machine















- Gel Time Measuring system
- Tool Calibration equipment
- Viscosity of Resin-Leakage
- X-Ray
- Various Dimension Control fixtures
- Air test Machine













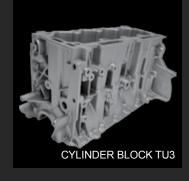


Product		od of action	Row	Product	Method of Production	Row
CYLINDER BLOCK XU7	Die Cast	(high pressure)	1	CYLINDER HEAD TU3	Gravity Casting (low pressure)	۱۸
CYLINDER BLOCK IP 16			۲	CYLINDER HEAD TU5		۱۹
CYLINDER BLOCK TU3				CYLINDER HEAD XU7		۲٠
CLUTCH HOUSING EF7			۴	CYLINDER HEAD IP 16		71
CLUTCH HOUSING XU7			۵	CYLINDER HEAD XUM		77
GEAR BOX HOUSING EF7			۶	CYLINDER HEAD EF7	C	۲۳
GEAR BOX HOUSING XU7			Υ			
GEAR BOX HOUSING RC			٨			
DIFFRENTIAL HOUSING			٩			
LADDER FRAME EF7			1.			
VALVE COVER EF7			11			
OIL SUMP XU7			۱۲			
BEARING HOUSING EF7			17"			
BEARING HOUSING TU3			14			
AXEL OUTLET HOUSING			۱۵			
Light bubble			18			
Turtle bowl			١٧			

#### **Product Basket**

#### A) Die cast (high pressure):

- CYLINDER BLOCK XU7
- CYLINDER BLOCK IP16
- -CYLINDER BLOCK TU3
- CLUTCH HOUSING EF7
- CLUTCH HOUSING XU7
- GEAR BOX HOUSING EF7
- GEAR BOX HOUSING XU7
- GEAR BOX HOUSING RC
- DIFFRENTIAL HOUSING
- AXEL OUTLET HOUSING EF7
- AXEL OUTLET HOUSING XU7

















- LADDER FRAME EF7
- VALVE COVER EF7
- OIL SUMP XU7
- BEARING HOUSING EF7
- BEARING HOUSING TU3
- LIGHT BUBBLE
- TURTLE BOWL















# B) Gravity Casting

-CYLINDER HEAD TU3
-CYLINDER HEAD TU5
-CYLINDER HEAD XU7
-CYLINDER HEAD IP 16
-CYLINDER HEAD XUM
-CYLINDER HEAD EF7















# C) Future Products

-CYLINDER HEAD TU5 +

-CYLINDER HEAD EF7 +

- MAHLE Engine Parts: CYLINDER BLOCK BEARING HOUSING CYLINDER HEAD















#### INTERNATIONAL

#### This is to certify that the Occupational Health and Safety Management Systems of:

#### Khodro Aluminium Casting Co. Certificates

- Country's green industry unit Silver Statue Award (2016-2018)
- SAPCO B Grid Since 2010
- MEGA MOTOR B Grade Since 2012
- ISO / TS16949 Certificate from DQS
- Safety Management Systems
- Production Part Approval Process (PPAP) from Peugeot France
- Occupational Health and Environmental Standards:

ISO14001: 2004 and OHSAS 18001: 2007







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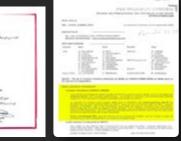




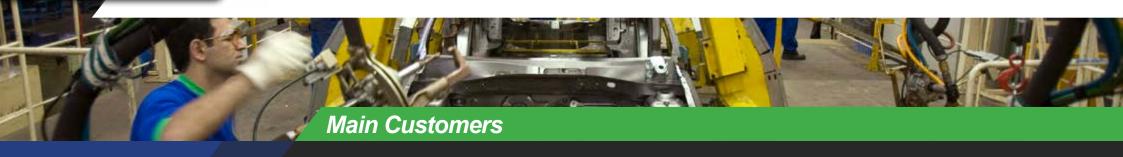
يحاكم الوسيدان لاعوس 007 physiological موالدائي أوام اول طوأالد المها











- SAPCO is our current main customer
- Approximately 100% of Production is sent to IKCO's Main Lines
- A Part of Company's Products is Offered to After Market







