Iran Tractor Foundry Company

ITFCO.

شرکت ریخته گری تراکتور سازی ایران

IRAN TRACTOR FOUNDRY COMPANY

The Largest Designer and Manufacturer of Complex Cast-Iron Parts for Vehicles & Industries in IRAN

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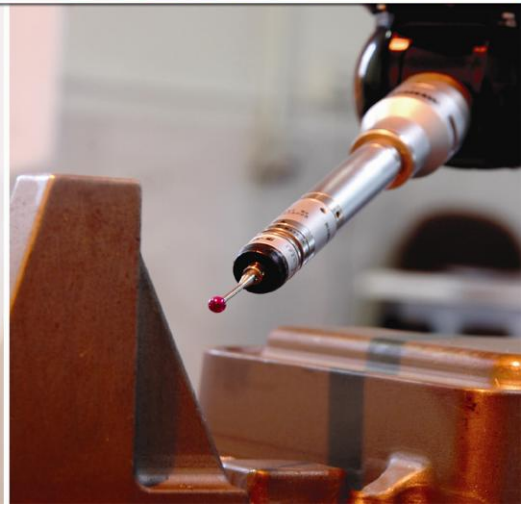
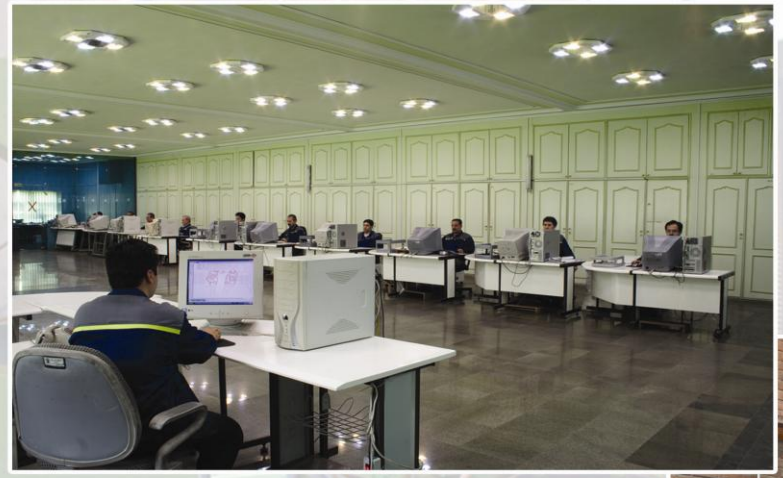
IMS
ISO 9001
ISO 14001
ISO/TS 16949
OHSAS 18001

The Foundry of Iran Tractor Manufacturing Company was established in Tabriz in 1974 with the aim of producing cast-iron parts for Massy Ferguson tractors as well as Perkins engines. ITF Co. the largest foundry in IRAN , has paid special attention to taking on specialists and employees who on the basis of years of experience in efficient utilization of cost-reduction managment and technical know-how, can meet the requirements for manufacturing complex and elaborate components for , tractors , vehicles and other industrial purposes . Also , customer satisfaction has always been regarded as the top agenda of the entire company policy . Different kinds of gray , ductile , and ADI cast -iron can be produced in this leading factory, that covers an area of 513,296 square meters and 61,800 square meters of diffrent roofed workshops .



Technology & Pattern Shop



In I.T.F Co. pattern shop utilizes dexterous, old-handed experts as well as special computer aided factilities such as Solid Work, Power Shape, Power Mill , Catia & etc . Different types of pattterns, core boxes and fixtures for a variety of cylinder blocks, cylinder heads,crank shafts, central housings,hubs,axels, etc, have been desinged and manufactured in this complex, according to customers requirments. Also , tooling department is equipped with high-tech CNC(s), different types of universal milling machines, and CMM machine. This department has the capability of producing various methods of casting patterns, such as lost foam, green-sand, die-cast and other industrial facilities.

Line A

Molding line A, with 240 mold capacity per-hour and flask dimensions of 610 * 457 *152 * 152 mm, can produce cast-parts from 100 g, up to 25 kg . The speciality of this line is its great flexibility in manufacturing small size cast-parts using high pressure & high - speed squeeze technology.

Line C

Molding line C , with 110 molding capacity per-hour and flask dimensions of 1,420*915*405*405 mm , is one of the greatest molding lines incorporating great dimension, high speed and consequently great cast-part both in quality and volume, up to 250 kg . This Line is generally for production of several kinds of cylinder blocks and other heavy duty requirements of gray and cast-iron components . Jolt, high pressure and squeeze methods are applied in this line to reach optimum cast-part quality.

Iran Tractor Foundry Company

Lost Foam

In lost-foam casting process a pattern of the desired cast-part is made from expanded materials (foam) , then the pattern is dipped into a ceamic coating and after drying, it is put in molding sand.After pouring the melt, the foam is lost and vaporized and the cast-part is formed .Lost foam process has several advantages over other casting methods :

1- Environmentally friendly,pollution reducing process.
2- Better quality in acquiring necessary smoother surface quality.
3- Cost reduction in cast-part machining.
4- Flexibility in designing complex components .
5- Omission of sand cores in molds.
6- Additional possibility for weight reduction .

Lost-foam is one of the most intricate and advanced casting processes, aimed at cost-reduction.

Quality control

One of the key factors in competitive markets is quality attainments.
Quality control department in I.T.F Co. has three tasks :
1- Controlling of inlet materials .
2- Supervising the production process.
3- Final complete control of mechanical , metallurgical properties and specifications of components .

Of course modern equipment have been of great aid and importance in measuring and coordinating product quality by constant testing in sand , mechanical , wet chemistry, metallographic, none-destructive tests , quantometer , and X-ray laboratories that do their best to give the customer the desired standard end-product.

I.T.F.Co Departments

Melting shop is equippped with 5 coreless induction furnaces each with 14 tons capacity , and 3 channel holding furnaces each with 45 tons capacity,there are also 5 automatic melt pouring machines ranging from 7 to 10 tons of melt per-hour . Around 90,000 tons of melt can be supplied yearly to 4 molding lines consisting of gray, ductile, and ADI cast-iron types . Quantometer, automatic pouring time and inoculation control system are other facilities of melt-shop .

Sand-shop in I.T.F Co. has experienced technicians operating modern equipment to supply molding sand mixture needed in three lines (A.B.C) through huge conveyor-belts. About 400 tons, per-hour , of prepared molding sand is supplied to three lines undergoing nearly 20 specific property tests in laboratories.

Core - shop .There are over 30 core producing machines in 5 types capable of producing 25,000 tons of complex cores ranging from10 grams to 50 kg . The method of core production is cold-box system . For large and complex components several cores are assembled ,coated and put in molds by special fixtures rendering more accuracy.

Molding line B,with 180 mold capacity per-hour and flask dimensions of 965*711*305*305mm can produce cast-parts up to 60 kg . This unique line has a very high-tech of computer controlled operation to achieve modern specifications of top quality molds & cast-parts. The Dynapulse process causes a high degree of uniform density throughout the mold,that is each area of the molding sand is pressed with a pre-set and desired pressure to obtain higher dimensional accuracy and smoother cast-part surface.

Molding line E , with 180 molding capacity and flask dimensions of 700*550*280*280 mm,is a high-tech line that with regard to its economical productivity specifications can offer an acceptable spectrum for dimensional accuracy in cast parts.

Shot blast workshop consists of two mono-rail shot-blast machines from GF and carlo-banf companies . This workshop has the capacity to shot 185 tons of cast-parts everyday, rating from 0.5 kg to 500 kg .

IRAN TRACTOR FOUNDRY CO.

Name : Piston 5093
Material : Gray
Weight : 14.350 Kg

Name : Hub 2214
Material : Gray
Weight : 17.570 Kg

Name : Polly Fan
Material : Gray
Weight : 3.750 Kg

Name : Piston 6486
Material : Gray
Weight : 10.700 Kg

Name : Support
Material : Ductile
Weight : 4.600 Kg

Name : Support 2464
Material : Ductile
Weight : 8.850 Kg

IRAN TRACTOR FOUNDRY CO.

Name : Crank Shaft 596
Material :Ductile
Weight : 4 Kg

Name : Crank Shaft 496
Material : Ductile
Weight : 3.170 Kg

Name : Crank Shaft 606
Material : Ductile
Weight : 5.100 Kg

Name : Crank Shaft
Material : Ductile
Weight : 4.470 Kg

Name : Cover
Material : Ductile
Weight : 6 Kg

Name : Support 3961
Material : Ductile
Weight : 8.900 Kg

Name : Fork
Material :Ductile
Weight : 2.100 Kg

Name : Fork 583
Material : Ductile
Weight : 5.300 Kg

Name : Support 8635
Material : Ductile
Weight : 2.170 Kg

Name : Support Barra
Material : Ductile
Weight : 2.400 Kg

Name : Support 1759
Material : Ductile
Weight : 8.750 Kg

Name : Fork 393
Material : Ductile
Weight : 5.470 Kg

Product Samples
IRAN TRACTOR FOUNDRY CO.

Name : Spider
Material : Ductile
Weight : 31.500 Kg

Name : Hub 2100
Material : Ductile
Weight : 21.500 Kg

Name : Hub 6703
Material : Ductile
Weight : 35 Kg

Name : Suppot 2538
Material : Gray
Weight : 5.200 Kg

Name : Hub 2200
Material : Ductile
Weight : 14.900 Kg

Name : Hub 4692
Material : Ductile
Weight : 34.900 Kg

IRAN TRACTOR FOUNDRY CO.

Name : Spicer
Material : Gray
Weight : 46.300 Kg

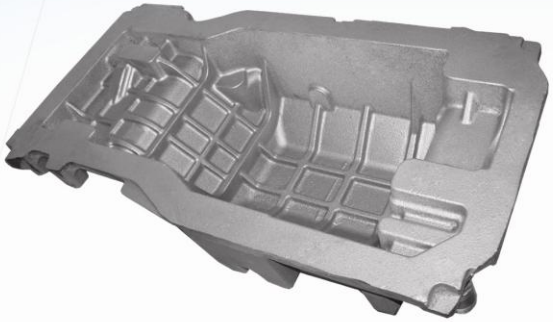
Name : Hub 6096
Material : Ductile
Weight : 60.800 Kg

Name : Support 1244
Material : Ductile
Weight : 9.650 Kg

Name : Axle
Material : Gray
Weight : 59.450 Kg

Name : Housing
Material : Ductile
Weight : 28.800 Kg

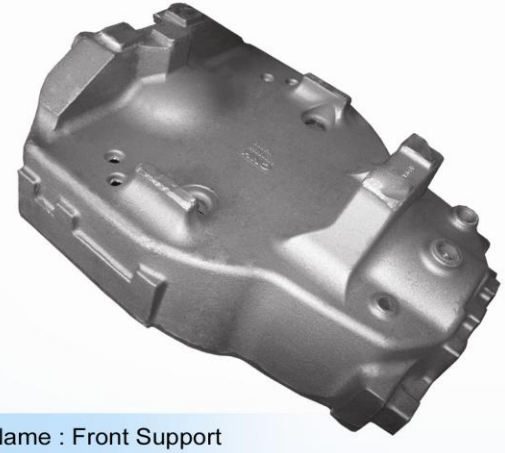
Name : Center Housing 456
Material : Gray
Weight : 58 Kg



Name : Hydrostatic Cover
Material : Gray
Weight : 71.250 Kg

Name : Hub 2935
Material : Ductile
Weight : 34.150 Kg

Name : manifold
Material : Ductile
Weight : 4 Kg



Name : Front Support
Material : Gray
Weight : 234 Kg

Name : support 7184
Material : Ductile
Weight : 10.650 Kg

Name : Bar Axle Wheel (Conic Bach)
Material : Ductile
Weight : 21.500 Kg

Product Samples
IRAN TRACTOR FOUNDRY CO.

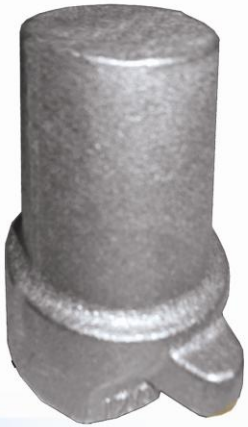
IRAN TRACTOR FOUNDRY CO.

Name : support Mensolla
Material : Ductile
Weight : 117 Kg

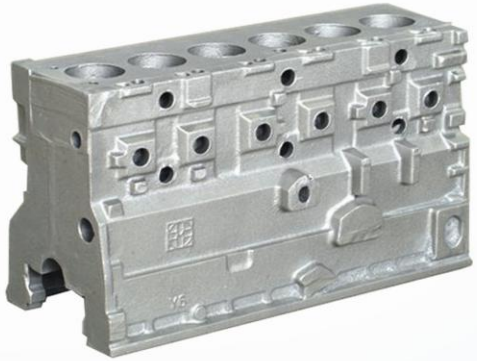
Name : Hub 2935
Material : Ductile
Weight : 34.150 Kg

Name : ROA Cylinder Block
Material : Gray
Weight : 36.450 Kg

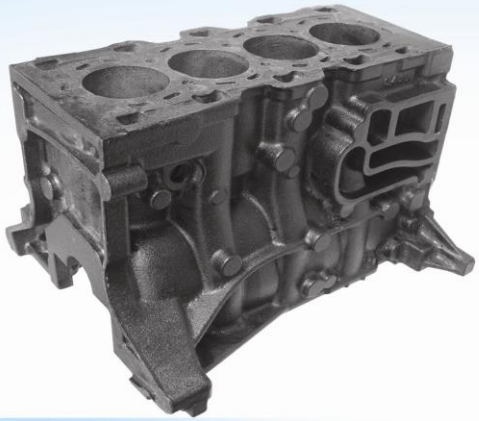
Name : Bar Axle Wheel (Conic Bach)
Material : Ductile
Weight : 21.500 Kg



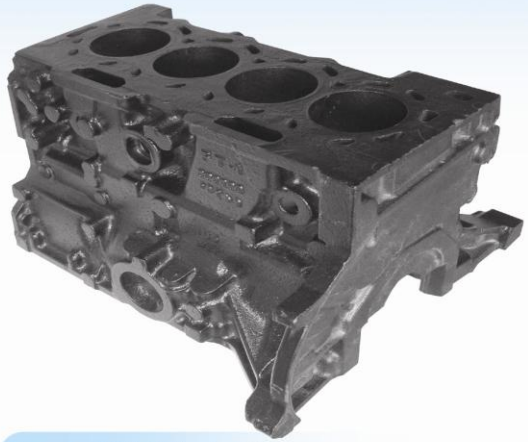
Name : Control Valve
Material : Gray
Weight : 2.800 Kg



Name : Tractor 6 Cylinder Block
Material : Gray
Weight : 187.700 Kg

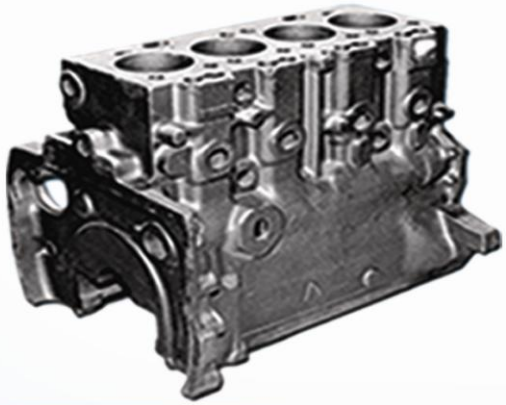


Name : EF7 Cylinder Block
Material : Gray
Weight : 47.250 Kg



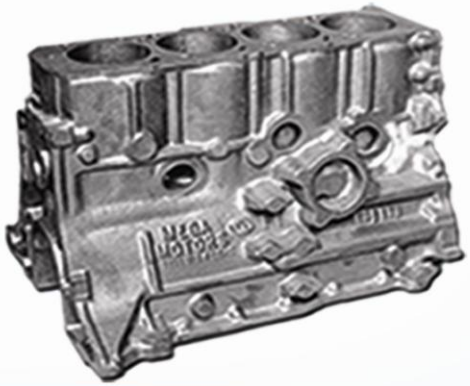
Name : TU5 Cylinder Block
Material : Gray
Weight : 48.700 Kg

Name : Turbo Cylinder Block
Material : Gray
Weight : 122 Kg



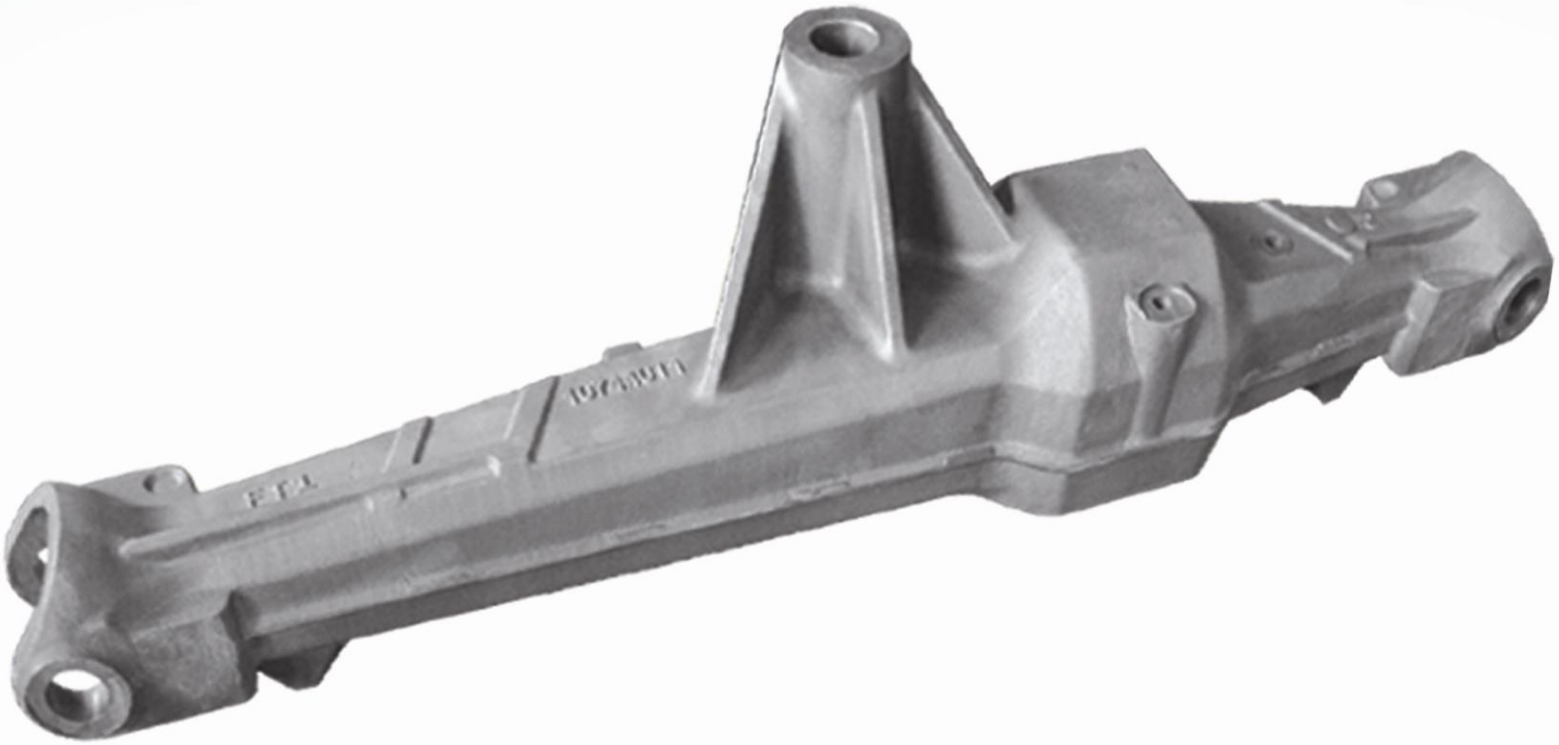
Name : Tractor Cylinder Block
Material : Gray
Weight : 129.400 Kg

Name : KIA Motors Cylinder Block (Pride)
Material : Gray
Weight : 37.250 Kg



Name : Nissan Cylinder Block
Material : Gray
Weight : 57.300 Kg

Product Samples
IRAN TRACTOR FOUNDRY CO.



Name : 2 Diff Axle
Material : Ductile
Weight : 100 Kg

Notes :

جهان گرافیک
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