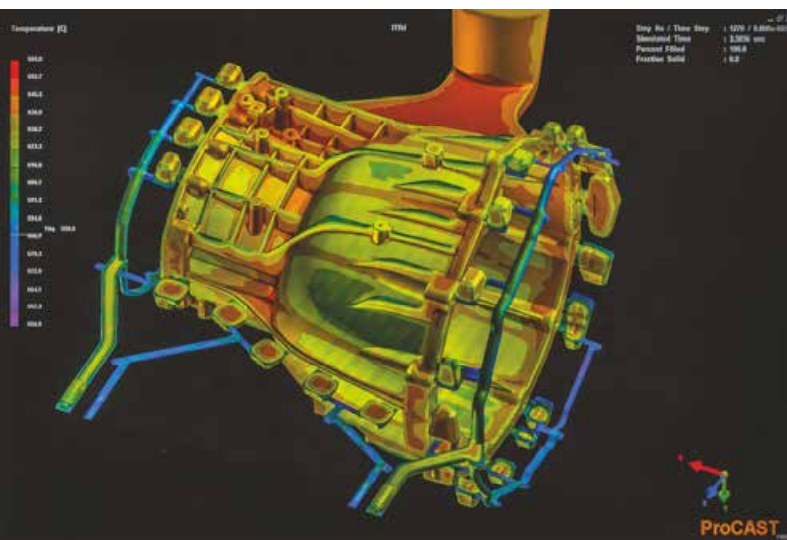




Casting End-to-End Solutions

CASTING

End to End Solutions



- High Pressure Die Casting • Gravity Die Casting • Tool Design and Manufacturing
- Machining and Sub-assembly • Auto Components

JAYA HIND INDUSTRIES PRIVATE LIMITED

A Dr. Abhay Firodia Group Company

Our Founder



NAVALMAL FIRODIA

(1910 - 1997)

One Luminous Life, Three Lifetimes of Achievement

Young Freedom Fighter

Imprisoned at the age of 21 for active participation in Mahatma Gandhi's **non co-operation movement** in 1932, he endured brutal hardship with courage and dignity. Yet again, he suffered incarceration for a leading role in the **'Quit India' movement** of 1942.

Pioneering Industrialist

Navalmal Firodia gave us two of India's most iconic vehicle concepts – for passenger and goods transportation.

The **'Auto-rickshaw'** – a name he coined himself – has endured for half a century.

Followed by the **'Tempo'**, a term now generic to any kind of small goods vehicle in every town in India.

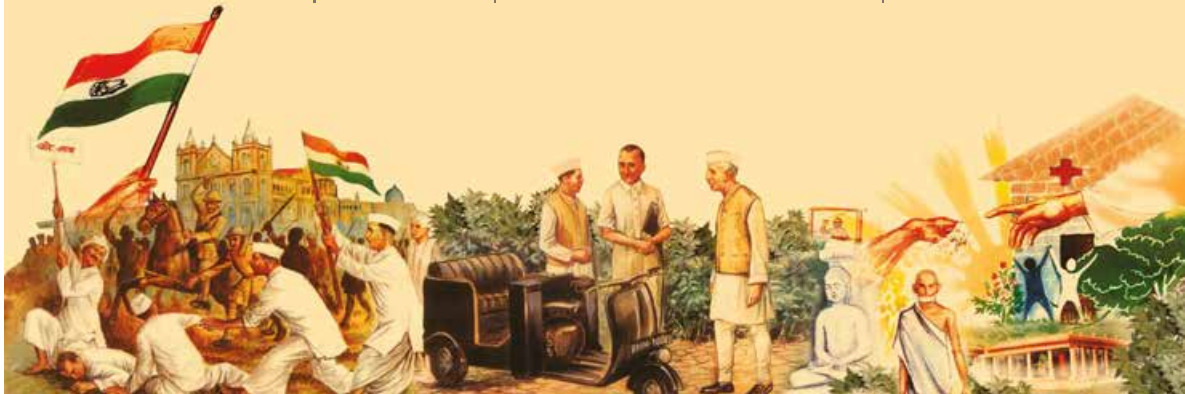
Passionate Philanthropist

Contributing generously of his time and wealth, he helped establish and strengthen several institutions working for the poor and destitute, for leprosy patients, for the sick and elderly, for rural education, for encouraging women's empowerment and the spiritual upliftment of society.

- Our grateful tribute



SHRI FIRODIA TRUST



About Us

Jaya Hind Industries Private Limited is part of Dr. Abhay Firodia Group. Established in 1947 by Late Shri. N. K. Firodia, a freedom fighter and pioneering industrialist, the company started manufacturing auto components primarily to support its vehicle manufacturing venture. Today, Jaya Hind is among India's largest and most trusted, end-to-end solutions provider for aluminum castings for global original equipment manufacturers.

Jaya Hind Industries Private Limited has developed a wide portfolio of critical parts ranging from 5gm to 30kg, serving variety of industries in automotive as well as non-automotive fields. With intelligent investments in tool design, tool manufacturing on the upstream side, and in machining and assembly on the downstream side, Jaya Hind offers the complete range of solutions to auto manufacturers for weight reduction and localisation.

With manufacturing facilities at Akurdi and Urse (Maharashtra), Pithampur (Madhya Pradesh) and Chennai (Tamil Nadu), Jaya Hind Industries Private Limited has the largest in-house tool design and manufacturing capacity and one of the largest die-casting capacities in India.

Core Competencies

High Pressure Die Casting

Capability to manufacture most complex and challenging automotive parts

Gravity Die Casting

Specialised in manufacture of complex automotive cylinder heads

Auto Components

Wide range of automotive clutches, disc brakes, etc.

Tool Design & Manufacturing

Largest in-house tool design and manufacturing capability

Machining and Sub-Assembly

High precision machining and fully automated gauging setup



High Pressure Die Casting



The company has a comprehensive range of High Pressure Die Casting machines from 160T to 3200T, with the ability to manufacture parts weighing from 20 gm to 40 kg.

- Total of 45 HPDC machines of which 25 are 1000 tonnes and above.
- Fully automatic die casting cells with robotic extraction, dosing furnace, auto-sprayers, real time controls, in-line trimming presses with state-of-the-art technologies such as heating cooling units for dies, vacuum equipment, jet cooling, etc.
- Globally best technology deployed through world-class suppliers like Bühler (Switzerland), Frech (Germany), etc.
- Highly skilled manpower trained in Switzerland and Germany.



Real time process controls on HPDC machines



Completely integrated cells with robotic extraction, auto-sprayers, dosing furnaces, and integrated trimming presses.



Comprehensive range of HPDC equipment ranging from 160T to 3200T locking force

Tool Design and Manufacturing

Jaya Hind Industries Private Limited has one of the largest in-house tool design and manufacturing set ups in the Indian die casting industry, with the ability to manufacture critical High pressure die casting (HPDC) dies and critical gravity die casting tools.

- HPDC dies suitable for 160T to 3200T machines.
- Cylinder head dies and core boxes through gravity die cast process.
- Extremely critical dies for cylinder blocks, ladder frames and large transmission cases.
- Over 200 personnel engaged in design and manufacturing .
- 40 engineers working on cutting edge design and simulation software like IDEAS, TEBIS, Unigraphics, CATIA and Pro-CAST .
- World's best manufacturing equipment sourced from Charmilles (Switzerland), Bridgeport (UK), HAAS (USA), Mazak & Makino (Japan) and deployed for high productivity processes like CNC EDM, CNC Wire-Cut, 5-axis high speed milling (Ixon - Gun drilling machine, die spotting and matching, graphite electrode machining, etc.)
- Coordinate measuring machine with software to compare actual tool with 3D model.



Hi tech design / engineering center



Die manufacturing and assembly



5-axis High speed CNC milling machines

Machining and Sub-Assembly



The company has a dedicated process engineering set up for planning optimum machining and sub assembly of fixtures, tools and gauges that are designed in-house.

- Best-in-class machining centers like Mazak and Makino (Japan), BFW (India), etc.
- High productivity dedicated cellular lines for high volume parts.
- Temperature controlled environment for sensitive parts.
- Over 100 horizontal and vertical CNC machining centers deployed.
- World-class quality of parts capable of direct-online deployment at customer assembly line.



State-of-the-art machining centers



Machining Cell 2



Dedicated machining cells for high volume parts

Auto Components



Jaya Hind Industries Private Limited manufactures wide range of automotive clutches ranging from 160mm dia to 430mm dia, covering vehicle platforms from small commercial vehicles, passenger cars to heavy commercial vehicles.

- All India network of dealers for efficient distribution of clutches in every corner of the country.
- Rigorous in-house development and testing of clutches before introduction to the market.
- Other products like caliper brakes, water pump assembly, thermostat assembly, oil pump assembly for aftermarket application.



Full range of clutches from 160mm dia to 430mm dia



Water pumps



Oil pumps



Disc Brakes

Quality

The focus on Quality is integral to Jaya Hind Industries' overall business strategy and in all manufacturing activities. It is aptly reflected in the company's choice of manufacturing and quality control equipment. The quality philosophy is derived and uncompromisingly deployed as per TS / IATF standards.



CMM

Co-ordinate measuring machines from world's best Carl Zeiss and Accurate.



Metallurgy Lab

Advanced Metallurgy laboratory to validate metal composition and mechanical properties of the raw materials and castings.

NABL certified



X-ray Machines

Digital X-ray imaging to identify casting defects like blow holes, porosities and shrinkages during manufacturing.

Five X-ray machines



Standards Room

Modern standard room with state-of-the-art measurement and calibration equipment.

NABL certified



Auto-gauging

Component specific measurement equipment from Marposs (Italy) and Accurate (India) for 100% checking of special characteristics.

Partnerships and Recognition

Certifications



All our plants are certified for IATF standards, ISO 14001 (Environmental Management System) and the OHSAS 18001 (Occupational Health and Safety Assessment Standards).

The Calibration and Testing laboratories at Akurdi and Urse plants are accredited by National Accreditation Board for Testing and Calibration of Laboratories (NABL).

Awards and Recognition



Jaya Hind Industries Private Limited has been recognised consistently for its manufacturing capability and performance.

The company was awarded the Best Foundry in the Large Scale Sector in 2016, 2014, 2010, and 2008 by ALUCAST, the association of aluminium die casters and equipment manufacturers.

Jaya Hind Industries Private Limited has also been awarded for its performance from leading OEMs such as Renault Nissan, Volvo Eicher, Maruti Suzuki, Bosch, Mahindra, etc.

Technology Partners



Technical collaboration to manufacture aluminium cylinder blocks and structural parts



Joint Venture for development and manufacture of automotive cylinder heads



Partnership for finish machining of critical parts like cylinder blocks and cylinder heads

Range of Products



<p>Cylinder Block</p>  <p>20.00 kg</p>	<p>Flywheel Housing</p>  <p>17.00 kg</p>	<p>Clutch Housing</p>  <p>6.00 kg</p>	<p>Gear Box Housing</p>  <p>22.00 kg</p>
<p>Bed Plate</p>  <p>10.50 kg</p>	<p>Crankcase</p>  <p>6.90 kg</p>	<p>Timing Case</p>  <p>4.32 kg</p>	<p>Rocker Lever Housing</p>  <p>6.00 kg</p>
<p>Cam Carrier</p>  <p>1.15 kg</p>	<p>Compressor Housing</p>  <p>2.40 kg</p>	<p>Transmission Case</p>  <p>3.69 kg</p>	<p>Gear Shift housing</p>  <p>4.00 Kg</p>
<p>Intake Manifold</p>  <p>4.50 kg</p>	<p>Gear Housing</p>  <p>6.00 kg</p>	<p>Drip Pan</p>  <p>14.00 kg</p>	<p>Ladder Frame Assembly</p>  <p>5.00 kg</p>
<p>Cylinder Head</p> 	<p>Cylinder Head</p> 	<p>Cylinder Head</p> 	
<p>Oil Sump</p>  <p>5.70 kg</p>		<p>Ladder Frame</p>  <p>9.85 kg</p>	

Global and Domestic Customers

				
 ŠKODA	 Mahindra	 PSA GROUPE		
 Nidec	 FORCE MOTORS	 TATA	 ROYAL ENFIELD	
		 RENAULT	 Vibracoustic	 ASHOK LEYLAND
	 EICHER	 MAGNA	 MARUTI SUZUKI	 SML ISUZU
	 SCHAEFFLER	 FIAT CHRYSLER AUTOMOBILES	 AVTEC Limited	 TEL TURBO ENERGY
 Valeo	 PIAGGIO	 주식회사대승 DAESEUNG AUTOPARTS INDIA PVT. LTD	 GENERAC	 myunghwa
 Brakes India Limited	 TBK	 EATON		 Divgi TorqTransfer Systems
 Simpson & Co. Ltd	 KOHLER ENGINES			

MANUFACTURING UNITS



JAYA HIND INDUSTRIES PRIVATE LIMITED

A Dr. Abhay Firodia Group Company

CIN : U74999PN1947PTC005480

Regd. Office

Akurdi, Pune - 411 035. INDIA

Tel : +91-20-27473981/2 | E-mail : info@jayahind.com

www.jayahind.com