

**Start Manufacturing of**

# **Alloy Wheels for 2 Wheeler**

**(Motorcycle, Bikes)**

**Highly Profitable Business Ideas in Automobile Industry.**



# Introduction

**Alloy wheels are wheels produced from an aluminium or magnesium alloy in the automotive industry. Alloys are metal-and-other-element mixes. They are typically stronger than pure metals, which are typically softer and more ductile. Aluminium and magnesium alloys are often lighter for the same strength, have better heat conduction, and have a better cosmetic appeal than steel wheels.**

**Despite the fact that steel, the most common material used in wheel manufacturing, is an iron-carbon alloy, the name "alloy wheel" is normally reserved for wheels manufactured of nonferrous alloys. Magnesium alloys were used to create the first light-alloy wheels. Alloy wheels are normally made by casting or forging, while other methods have been used in the past, such as gravity casting.**



**In the end, they're promoted as being lighter than steel wheels, and forged wheels are generally more durable than cast wheels. The manufacturing methods, whether casting or forging, allow for complicated designs, which allows alloy wheels attain the aesthetic that many drivers desire to suit the styling of their automobiles.**



# Advantages of Using Alloy Wheels

**1. Lighter than Steel:** Alloy wheels are significantly lighter than steel wheels of comparable size. This is due to the fact that aluminium and magnesium are both lighter metals than steel. These wheels' minimal weight is beneficial not just in terms of weight reduction, but also in terms of performance and vehicle handling. They also make it easier to steer the car.

**2. Attractive:** Steel wheels will never look as nice as alloy wheels, and the cosmetic update, as well as the increased visual impact supplied by alloy wheels, is one of the main reasons why people choose them.

**3. Improved Heat Conduction/Dissipation:** Alloys were first used in the industrial industry for one reason: they are better heat conductors than pure metals. In autos, this trait has been expanded, and alloy wheels can dissipate heat more effectively than typical steel wheels.

**4. Enhanced Fuel Economy:** Because alloy wheels are lighter than steel, as previously stated, improved performance and handling improve the vehicle's fuel efficiency to some extent. Light wheels imply the automobile will pull less weight, lowering fuel consumption, which is an important consideration for car owners these days.



# Manufacturing Process

**Alloy wheels are standard on most current automobiles. How are they manufactured, will pique the interest of curious minds. These are the ten steps in the alloy wheel manufacturing process:**

**Step 1:** The plant receives raw aluminium. Aluminium is mined and transported to a facility for processing.



**Step 2: *Analyze The Chemical Composition of the Raw Materials:*** Along with employee inspections, the raw material is subjected to extensive chemical testing to guarantee that it is, in fact, aluminium. Machines test the chemical balance and any materials that do not meet the required standards are discarded.

**Step 3: *The Melting Process:*** The next stage is to begin the construction process. To begin the melting process, the acceptable material is placed in the oven.

**Step 4: *Enamel Casting:*** Low-pressure die-casting technology is used to produce alloy wheels. Yxlon automatic X-ray equipment are used to inspect the castings.

**Step 5: *X-Rays:*** The wheels are inspected for quality and any damage or faults.

**Step 6: *Tilt Milling:*** After the wheels have been tested for quality, they go through the tilt milling process. Employees use a tilt mill tool to remove metal from a moving work piece by spinning a multi-tooth cutter.

**Step 7: Inspection:** The wheel is subjected to a manual inspection to look for flaws. They take measurements of the wheel's separate components to ensure that they meet the design specifications. A 'brute force' inspection is also carried out, in which the wheel is subjected to extreme pressure in order to determine its breaking point.



## **Step 8: *Finishing Touches and Finishing***

***Touches:*** After that, the wheel is moved to the stage of painting and treatment. The wheel goes through a variety of steps to safeguard it from the constant wear and tear that automobiles can cause. The process is fully automated thanks to a series of equipment.



**Step 9: *Quality Assurance*:** The wheel is then examined for quality, similar to the inspection step. Following the painting and protection, an employee will sit beside the conveyor belt and inspect the wheel for any blemishes or dents that would prevent it from being sold.

**Step 10: *Shipment*:** After the wheel has been produced and inspected, it is ready to be shipped to its final destination.

# Market Outlook

**The demand for light weight wheels with the same strength as steel wheels, as well as good thermal stability and ductility, is driving the growth of the automotive alloy wheel market.**

**Automotive alloy wheels are made of magnesium or aluminium alloys, or a combination of the two. Automotive alloy wheels are light-weight wheels that help a car's steering and speed.**

**During the period 2021-2025, the alloy wheel market is expected to increase by USD 3.41 billion, with a CAGR of above 4%. Due to changing weather conditions, there is a growing demand for light weight and corrosion resistant alloy wheels, which is a major factor driving the growth of the automotive alloy wheel market. Tubeless tyres are supported by automotive alloy wheels, which also provide improved brake grip.**

**These are some of the advantages that are projected to boost demand for automobile alloy wheels, accelerating the expansion of the automotive alloy wheel market in the future years. Other major elements that will drive the expansion of the automotive alloy wheel market include a minimal reduction in fuel consumption and precise steering control.**





# Key Players

- 1. Alcoa India Pvt. Ltd.**
- 2. Aicon Castalloy Ltd.**
- 3. Enkei Wheels (India) Ltd.**
- 4. Fast Track Distributors Pvt. Ltd.**
- 5. S A B Industries Ltd.**
- 6. Steel Strips Wheels Ltd.**
- 7. Superior Industries Ltd.**
- 8. Wheels India Ltd.**

# Machinery Photographs



## Die Casting Machine



## Curing Chamber



## Air Compressor

The background of the slide features two black alloy wheels, one slightly behind and to the right of the other, creating a sense of depth. The wheels have a multi-spoke design.

# Project at a Glance

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site Development Exp.	0.00	275.00	275.00	Capital	0.00	222.76	222.76
Buildings	0.00	316.00	316.00	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	133.00	133.00	Other Type Share Capital	0.00	0.00	0.00
Motor Vehicles	0.00	10.00	10.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation Equipments	0.00	69.50	69.50	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	20.00	20.00	Internal Cash Accruals	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	668.28	668.28
Preliminary & Pre-operative Exp	0.00	2.00	2.00	Debentures / Bonds	0.00	0.00	0.00
Provision for Contingencies	0.00	11.80	11.80	Unsecured Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	53.74	53.74				
<b>TOTAL</b>	<b>0.00</b>	<b>891.04</b>	<b>891.04</b>	<b>TOTAL</b>	<b>0.00</b>	<b>891.04</b>	<b>891.04</b>

Year	Annualised		Book Value	Debt	Dividend	Retained Earnings		Payout	Probable Market Price	P/E Ratio	Yield Price/ Book Value
	EPS	CEPS	Per Share		Per Share	Per Share				No.of Times	
						%		%			%
1-2	5.99	8.84	15.99	24.00	0.00	100.00	5.99	0.00	5.99	1.00	0.00
2-3	9.05	11.57	25.04	18.00	0.00	100.00	9.05	0.00	9.05	1.00	0.00
3-4	12.04	14.27	37.08	12.00	0.00	100.00	12.04	0.00	12.04	1.00	0.00
4-5	14.91	16.89	51.99	6.00	0.00	100.00	14.91	0.00	14.91	1.00	0.00
5-6	17.65	19.41	69.65	0.00	0.00	100.00	17.65	0.00	17.65	1.00	0.00

Year	D. S. C. R.			Debt / - Deposits Debt	Equity as- Equity	Total Net Worth	Return on Net Worth	Profitability Ratio					Assets Turnover Ratio	Current Ratio
	Individual	Cumulative	Overall					GPM	PBT	PAT	Net Contribution	P/V Ratio		
	(Number of times)			(Number of times)		%	%	%	%	%	%			
Initial				3.00	3.00									
1-2	1.32	1.32		1.50	1.50	2.07	18.14%	10.68%	7.03%	898.83	47.33%	1.77	0.95	
2-3	1.68	1.50		0.72	0.72	1.14	20.39%	14.17%	9.10%	1046.21	47.22%	1.88	1.29	
3-4	2.09	1.68	2.08	0.32	0.32	0.64	21.93%	16.64%	10.59%	1195.61	47.22%	1.88	1.73	
4-5	2.56	1.88		0.12	0.12	0.37	22.98%	18.40%	11.66%	1345.01	47.22%	1.81	2.24	
5-6	3.10	2.08		0.00	0.00	0.21	23.68%	19.64%	12.42%	1494.41	47.22%	1.69	3.95	



## BEP

<b>BEP - Maximum Utilisation Year</b>	<b>5</b>
<b>Cash BEP (% of Installed Capacity)</b>	<b>55.76%</b>
<b>Total BEP (% of Installed Capacity)</b>	<b>58.38%</b>

## IRR, PAYBACK and FACR

<b>Internal Rate of Return .. ( In %age )</b>	<b>25.86%</b>
<b>Payback Period of the Project is ( In Years )</b>	<b>2 Years 4 Months</b>
<b>Fixed Assets Coverage Ratio ( No. of times )</b>	<b>5.333</b>

# Major Queries/Questions Answered in the Report?

- 1. What is Alloy Wheels for 2 Wheeler (Motorcycle, Bikes) Manufacturing industry ?**
- 2. How has the Alloy Wheels for 2 Wheeler (Motorcycle, Bikes) Manufacturing industry performed so far and how will it perform in the coming years ?**
- 3. What is the Project Feasibility of Alloy Wheels for 2 Wheeler (Motorcycle, Bikes) Manufacturing Plant ?**
- 4. What are the requirements of Working Capital for setting up Alloy Wheels for 2 Wheeler (Motorcycle, Bikes) Manufacturing plant ?**

- 5. What is the structure of the Alloy Wheels for 2 Wheeler (Motorcycle, Bikes) Manufacturing Business and who are the key/major players ?**
- 6. What is the total project cost for setting up Alloy Wheels for 2 Wheeler (Motorcycle, Bikes) Manufacturing Business?**
- 7. What are the operating costs for setting up Alloy Wheels for 2 Wheeler (Motorcycle, Bikes) Manufacturing plant ?**
- 8. What are the machinery and equipment requirements for setting up Alloy Wheels for 2 Wheeler (Motorcycle, Bikes) Manufacturing plant ?**

**9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Alloy Wheels for 2 Wheeler (Motorcycle, Bikes) Manufacturing plant ?**

**10. What are the requirements of raw material for setting up Alloy Wheels for 2 Wheeler (Motorcycle, Bikes) Manufacturing plant ?**

**11. Who are the Suppliers and Manufacturers of Raw materials for setting up Alloy Wheels for 2 Wheeler (Motorcycle, Bikes) Manufacturing Business?**

**12. What is the Manufacturing Process of Alloy Wheels for 2 Wheeler (Motorcycle, Bikes)?**

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**14. What will be the income and expenditures for Alloy Wheels for 2 Wheeler (Motorcycle, Bikes) Manufacturing Business?**

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A black and white illustration of a car wheel with a multi-spoke design is centered in the background. The wheel has five main spokes and a central hub with a circular logo. The text is overlaid on this image.

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- ✓ **This report helps you to identify a profitable project for investing or diversifying into by throwing light to crucial areas like industry size, market potential of the product and reasons for investing in the product**
- ✓ **This report provides vital information on the product like it's characteristics and segmentation**
- ✓ **This report helps you market and place the product correctly by identifying the target customer group of the product**

- ✓ **This report helps you understand the viability of the project by disclosing details like machinery required, project costs and snapshot of other project financials**
- ✓ **The report provides a glimpse of government regulations applicable on the industry**
- ✓ **The report provides forecasts of key parameters which helps anticipate the industry performance and make sound business decisions**





# Our Approach

- **Our research reports broadly cover Indian markets, present analysis, outlook and forecast for a period of five years.**
- **The market forecasts are developed on the basis of secondary research and are cross-validated through interactions with the industry players**
- **We use reliable sources of information and databases. And information from such sources is processed by us and included in the report**

# Scope of the Report

The report titled “Market Survey cum Detailed Techno Economic Feasibility Report on Alloy Wheels for 2 Wheeler.” provides an insight into Alloy Wheels for 2 Wheeler market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Alloy Wheels for 2 Wheeler project. The report assesses the market sizing and growth of the Indian Alloy Wheels for 2 Wheeler Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line. And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:

- **Good Present/Future Demand**
- **Export-Import Market Potential**
- **Raw Material & Manpower Availability**
- **Project Costs and Payback Period**

We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in the Alloy Wheels for 2 Wheeler sector in India along with its business prospects. Through this report we have identified Alloy Wheels for 2 Wheeler project as a lucrative investment avenue.

# Tags

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- ❑ Project Costs and Payback Period**

**The detailed project report covers all aspect of business, from analyzing the market, confirming availability of various necessities such as Manufacturing Plant, Detailed Project Report, Profile, Business Plan, Industry Trends, Market Research, Survey, Manufacturing Process, Machinery, Raw Materials, Feasibility Study, Investment Opportunities, Cost and Revenue, Plant Economics, Production Schedule,**

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- **One of the leading reliable names in industrial world for providing the most comprehensive technical consulting services**
- **We adopt a systematic approach to provide the strong fundamental support needed for the effective delivery of services to our Clients' in India & abroad**



**We at NPCS want to grow with you by providing solutions scale to suit your new operations and help you reduce risk and give a high return on application investments. We have successfully achieved top-notch quality standards with a high level of customer appreciation resulting in long lasting relation and large amount of referral work through technological breakthrough and innovative concepts. A large number of our Indian, Overseas and NRI Clients have appreciated our expertise for excellence which speaks volumes about our commitment and dedication to every client's success.**

**We bring deep, functional expertise, but are known for our holistic perspective: we capture value across boundaries and between the silos of any organization. We have proven a multiplier effect from optimizing the sum of the parts, not just the individual pieces. We actively encourage a culture of innovation, which facilitates the development of new technologies and ensures a high quality product.**

# What do we offer?

- **Project Identification**
- **Detailed Project Reports/Pre-feasibility Reports**
- **Market Research Reports**
- **Business Plan**
- **Technology Books and Directory**
- **Industry Trend**
- **Databases on CD-ROM**
- **Laboratory Testing Services**
- **Turnkey Project Consultancy/Solutions**
- **Entrepreneur India (An Industrial Monthly Journal)**

## How are we different ?

- We have two decades long experience in project consultancy and market research field
- We empower our customers with the prerequisite know-how to take sound business decisions
- We help catalyze business growth by providing distinctive and profound market analysis
- We serve a wide array of customers , from individual entrepreneurs to Corporations and Foreign Investors
- We use authentic & reliable sources to ensure business precision

# Our Approach

**Requirement collection**

**Thorough analysis of the project**

**Economic feasibility study of the Project**

**Market potential survey/research**

**Report Compilation**



## Who do we Serve?

- ❖ **Public-sector Companies**
- ❖ **Corporates**
- ❖ **Government Undertakings**
- ❖ **Individual Entrepreneurs**
- ❖ **NRI's**
- ❖ **Foreign Investors**
- ❖ **Non-profit Organizations, NBFC's**
- ❖ **Educational Institutions**
- ❖ **Embassies & Consulates**
- ❖ **Consultancies**
- ❖ **Industry / trade associations**

## Sectors We Cover

- ❖ **Ayurvedic And Herbal Medicines, Herbal Cosmetics**
- ❖ **Alcoholic And Non Alcoholic Beverages, Drinks**
- ❖ **Adhesives, Industrial Adhesive, Sealants, Glues, Gum & Resin**
- ❖ **Activated Carbon & Activated Charcoal**
- ❖ **Aluminium And Aluminium Extrusion Profiles & Sections**
- ❖ **Bio-fertilizers And Biotechnology**
- ❖ **Breakfast Snacks And Cereal Food**
- ❖ **Bicycle Tyres & Tubes, Bicycle Parts, Bicycle Assembling**

## Sectors We Cover *Cont...*

- ❖ **Bamboo And Cane Based Projects**
- ❖ **Building Materials And Construction Projects**
- ❖ **Biodegradable & Bioplastic Based Projects**
- ❖ **Chemicals (Organic And Inorganic)**
- ❖ **Confectionery, Bakery/Baking And Other Food**
- ❖ **Cereal Processing**
- ❖ **Coconut And Coconut Based Products**
- ❖ **Cold Storage For Fruits & Vegetables**
- ❖ **Coal & Coal Byproduct**

- ❖ **Copper & Copper Based Projects**
- ❖ **Dairy/Milk Processing**
- ❖ **Disinfectants, Pesticides, Insecticides, Mosquito Repellents,**
- ❖ **Electrical, Electronic And Computer based Projects**
- ❖ **Essential Oils, Oils & Fats And Allied**
- ❖ **Engineering Goods**
- ❖ **Fibre Glass & Float Glass**
- ❖ **Fast Moving Consumer Goods**
- ❖ **Food, Bakery, Agro Processing**

- ❖ **Fruits & Vegetables Processing**
- ❖ **Ferro Alloys Based Projects**
- ❖ **Fertilizers & Biofertilizers**
- ❖ **Ginger & Ginger Based Projects**
- ❖ **Herbs And Medicinal Cultivation And Jatropha (Biofuel)**
- ❖ **Hotel & Hospitality Projects**
- ❖ **Hospital Based Projects**
- ❖ **Herbal Based Projects**
- ❖ **Inks, Stationery And Export Industries**

## Sectors We Cover *Cont...*

- ❖ **Infrastructure Projects**
- ❖ **Jute & Jute Based Products**
- ❖ **Leather And Leather Based Projects**
- ❖ **Leisure & Entertainment Based Projects**
- ❖ **Livestock Farming Of Birds & Animals**
- ❖ **Minerals And Minerals**
- ❖ **Maize Processing(Wet Milling) & Maize Based Projects**
- ❖ **Medical Plastics, Disposables Plastic Syringe, Blood Bags**
- ❖ **Organic Farming, Neem Products Etc.**

- ❖ **Paints, Pigments, Varnish & Lacquer**
- ❖ **Paper And Paper Board, Paper Recycling Projects**
- ❖ **Printing Inks**
- ❖ **Packaging Based Projects**
- ❖ **Perfumes, Cosmetics And Flavours**
- ❖ **Power Generation Based Projects & Renewable Energy Based Projects**
- ❖ **Pharmaceuticals And Drugs**
- ❖ **Plantations, Farming And Cultivations**
- ❖ **Plastic Film, Plastic Waste And Plastic Compounds**
- ❖ **Plastic, PVC, PET, HDPE, LDPE Etc.**

- ❖ **Potato And Potato Based Projects**
- ❖ **Printing And Packaging**
- ❖ **Real Estate, Leisure And Hospitality**
- ❖ **Rubber And Rubber Products**
- ❖ **Soaps And Detergents**
- ❖ **Stationary Products**
- ❖ **Spices And Snacks Food**
- ❖ **Steel & Steel Products**
- ❖ **Textile Auxiliary And Chemicals**



- ❖ **Township & Residential Complex**
- ❖ **Textiles And Readymade Garments**
- ❖ **Waste Management & Recycling**
- ❖ **Wood & Wood Products**
- ❖ **Water Industry(Packaged Drinking Water & Mineral Water)**
- ❖ **Wire & Cable**

The main title 'Market Research Report' is centered on the page. It is written in a large, bold, blue, sans-serif font with a prominent yellow outline. The text is arranged in three lines: 'Market' on the top line, 'Research' on the middle line, and 'Report' on the bottom line. The background of the entire page is a low-angle photograph of a modern skyscraper with a glass facade, looking up towards a clear blue sky. A person in a business suit is partially visible in the lower right, looking towards the camera.

# Objective

- To provide forecasts of key parameters which helps to anticipate the industry performance
- To help chart growth trajectory of a business by detailing the factors that affect the industry growth
- To help an entrepreneur/manager in keeping abreast with the changes in the industry
- To evaluate the competitive landscape of the industry by detailing:
  - ❑ Key players with their market shares
  - ❑ Financial comparison of present players

# Clientele

- Venturist/Capitalists
- Entrepreneur/Companies
- Industry Researchers
- Investment Funds
- Foreign Investors, NRI's
- Project Consultants/Chartered Accountants
- Banks
- Corporates

[Click here for list](#)

# Data Sources



# Scope & Coverage



## Our Team

- Our research team comprises of experts from various financial fields:**
- MBA's**
- Industry Researchers**
- Financial Planners**
- Research veterans with decades of experience**

# Structure of the Report

- 1. Overview**
- 2. Market Analysis**
  - 2.1 Growth Drivers**
  - 2.2 Emerging Trends in the Industry**
  - 2.3 Regulatory Framework**
  - 2.4 SWOT Analysis**
  - 2.5 Herfindahl–Hirschman Index (HHI)**
- 3. Market Forecasts**
- 4. Key Players**



# Structure of the Report

- 5. Key Financials and Analysis**
  - 5.1 Contact Information**
  - 5.2 Key Financials**
  - 5.3 Financial comparison**
- 6. Industry Size & Outlook**



CONTACT US



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**Take a look at *NIIR PROJECT CONSULTANCY SERVICES* on #StreetView**

**[google-street-view](https://www.google.com/maps/@28.644877,77.033391,15z)**

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**THANK YOU**

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