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***Manufacturing of***

# **Steel Shots and Grits**

***Profitable Business***

***Opportunities in Steel Abrasives***



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# An Introduction to Steel Shots and Grits



**Steel shots and grits, also known as steel abrasives, are formed from melted recycled steel through the use of various metal processing equipment, including metal grinding and shearing machines. These steel abrasives are then shipped to end users who machine or grind products made of steel, including metal gears, metal saw blades, and concrete countertops.**





**It's important to note that steel shots and grits are significantly more cost-effective than aluminum or ceramic abrasives because they have much longer life spans and less easily wear down due to their high density properties.**

- ***Related Feasibility Study Reports: [Steel and Steel Products, Iron and Steel, Ferrous Metals Products, Alloy Steel , Cold Rolling, Foundry , Hot rolling , Pelletizing , Rolling , Rolling Mill , Stainless Steel , Steel Mill , Tinplate, Carbon Steel, Forge Products, Mild Steels Projects](#)***

# Uses of Steel Shots and Grits:




**Steel shots are used primarily in grinding and polishing applications, but can also be found in cutting or drilling applications where a high degree of surface finish is required. The industrial uses for steel shots include grinding and honing steel, stone and other materials.**

➤ *Visit this Page for More Information: [Start a Business in Steel Industry](#)*



**In addition to industrial applications, these products find their way into everything from household tools such as drills and saw blades to new appliances, home electronics and vehicles like cars. Steel grits are another type of abrasive that finds its way into many types of manufacturing processes.**



**They are often used in conjunction with steel shot in order to achieve even higher levels of surface quality. This combination is commonly referred to as shot blasting. These products have been designed specifically for use on metals and glass.**

**While they may not be able to cut through metal like some of their counterparts, they do provide an excellent finishing option when a high level of precision is needed. These products are also extremely durable and long lasting, which means you'll get more bang for your buck over time.**



# Manufacturing Process of Steel Shots and Grits:



**Steel shots and grits is an abrasive material that helps to smoothen metals and other materials. The production of steel shots and grit involves mixing iron ore, coke, limestone, dolomite or coal with a small amount of clay or alumina. The mixture is then fired at high temperatures in furnaces until it becomes fine particles.**



**These particles are then ground into smaller sizes and mixed with water to create slurry. This slurry is poured into molds made from sandstone, which are used for sintering by heating them up to 1,400 degrees Fahrenheit (760 degrees Celsius). After cooling down for a few hours, these molds are broken open to reveal steel shots and grits.**



# Benefits of Starting this Business:

**Because steel shots and grits are used in a variety of different industries, their use is very widespread. They can be used in abrasive blasting, cutlery (steel shot), construction, refractory materials for metallurgy industries, etc. Their range of applications makes them an excellent investment for anyone looking to manufacture these products as a business.**





**In fact, even with steel's current price point fluctuations, it still remains one of the most commonly used metals in manufacturing processes. This means that regardless of how much or little fluctuation there is on a given day, you'll still have plenty of customers who need your product.**

➤ ***Read our Books Here: [Steel, Iron, Ferrous, Non-Ferrous Metals with Casting and Forging, Aluminium, Ferroalloys Technology](#)***



**Furthermore, if you decide to expand your operation at some point down the line, it will likely be much easier to find new uses for your steel than it would be if you were dealing with another material. The versatility of steel makes it especially appealing when starting up a business; many companies start out small and grow over time by adding new products or expanding into other markets.**

# Steel Abrasive Market Outlook:



**The Steel Abrasive market is expected to reach millions in 2022 and is projected to grow at an approximate CAGR during the reporting period. The steel abrasives market is expected to grow at a good rate in the coming years. Rapid industrialization and expansion of automotive production are the key trends stoking market growth.**



**To decrease environmental issues, leading manufacturers in the automobile sector are manufacturing low-weight products, which emit low carbon dioxide, which are economical and yet provide superior performance. Leading abrasive manufacturers look to capitalize on this trend by offering products that provide high quality auto components with a polished surface finish.**



**The environment friendly nature of steel abrasives in terms of more recyclability and low waste generation is a driving factor for adoption of steel abrasives over a wide range of other similar abrasives. Demand for manufactured industrial products with high precision finish in end use industries is likely to trigger the sales of steel abrasives.**

➤ ***Business Plan: [Steel Shots & Grits \(Steel Abrasives\) Manufacturing Business](#)***



**Asia Pacific is expected to be the largest market for steel abrasives as it has shown significant growth in industrial application in the last five years. Some of the major economies with high growth potential for the market include India, China, Russia, Brazil, and South America.**

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# Global Steel Grits Market:



**In terms of grade, the global steel grits market can be classified into GS, GM, GL, GH, and others. In terms of demand, GH and GM segments are likely to expand significantly during the forecast period. Rapid industrialization and urbanization is a key driver of the global steel grits market.**





**Investments in automobile, aerospace, metalwork, and metal fabrication industries have increased over the last few years. This has boosted the demand for steel grits. The trend is expected to continue during the forecast period. Asia Pacific is expected to dominate the global steel grits market during the forecast period.**



**The market in the region is estimated to expand at a significant pace during the forecast period. This can be ascribed to rapid industrial development in the region. China, India, Japan, and Singapore are the leading countries in the region.**


- **Watch other Informative Videos: [Steel and Steel Products, Iron and Steel, Ferrous Metals Products, Alloy Steel, Tinsplate, Carbon Steel, Steel Mill, Forge Products, and Mild Steels Projects](#)**


## Key Players:

- ***Rotocast Industries Ltd.***
- ***Silcal Metallurgic Ltd.***
- ***Tata Steel Ltd.***
- ***Vinayak Steels Ltd.***
- ***Wheelabrator Alloy Castings Ltd.***

# Project At A Glance

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site Development Exp.	0.00	71.25	71.25	Capital	0.00	471.07	471.07
Buildings	0.00	232.00	232.00	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	722.00	722.00	Other Type Share Capital	0.00	0.00	0.00
Motor Vehicles	0.00	15.00	15.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation Equipments	0.00	564.50	564.50	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	50.00	50.00	Internal Cash Accruals	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	1413.21	1413.21
Preliminary & Pre-operative Exp	0.00	10.00	10.00	Debentures / Bonds	0.00	0.00	0.00
Provision for Contingencies	0.00	69.00	69.00	Unsecured Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	150.53	150.53				
<b>TOTAL</b>	<b>0.00</b>	<b>1884.28</b>	<b>1884.28</b>	<b>TOTAL</b>	<b>0.00</b>	<b>1884.28</b>	<b>1884.28</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				
						%		%		No.of Times	
1-2	4.68	9.05	14.68	24.00	0.00	100.00	4.68	0.00	4.68	1.00	0.00
2-3	8.15	11.97	22.83	18.00	0.00	100.00	8.15	0.00	8.15	1.00	0.00
3-4	11.60	14.94	34.43	12.00	0.00	100.00	11.60	0.00	11.60	1.00	0.00
4-5	14.98	17.90	49.41	6.00	0.00	100.00	14.98	0.00	14.98	1.00	0.00
5-6	18.27	20.83	67.69	0.00	0.00	100.00	18.27	0.00	18.27	1.00	0.00
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Year	D. S. C. R.			Debt / - Deposits Debt	Equity as- Equity	Total Net Worth	Return on Net Worth	 <b>Profitability Ratio</b>					Assets Turnover Ratio	Current Ratio
	Individual	Cumulative	Overall					GPM	PBT	PAT	Net Contrib ution	P/V Ratio		
	(Number of times)			(Number of times)		%	%	%	%	%	%			
Initial				3.00	3.00									
1-2	1.35	1.35		1.64	1.64	2.27		12.35%	7.22%	5.26%	2447.09	58.40%	1.89	1.02
2-3	1.73	1.53		0.79	0.79	1.26		15.91%	11.86%	7.85%	2846.20	58.22%	2.04	1.37
3-4	2.18	1.73	2.18	0.35	0.35	0.70		18.42%	15.20%	9.78%	3252.59	58.22%	2.05	1.84
4-5	2.71	1.95		0.12	0.12	0.39		20.23%	17.65%	11.23%	3658.98	58.21%	1.95	2.39
5-6	3.33	2.18		0.00	0.00	0.22		21.55%	19.48%	12.32%	4065.38	58.21%	1.81	4.23

## BEP

**BEP - Maximum Utilisation Year**

**5**

**Cash BEP (% of Installed Capacity)**

**63.53%**

**Total BEP (% of Installed Capacity)**

**66.50%**

## IRR, PAYBACK and FACR

**Internal Rate of Return .. ( In %age )**

**27.86%**

**Payback Period of the Project is ( In Years )**


**2 Years 3 Months**

**Fixed Assets Coverage Ratio ( No. of times )**

**7.230**



- 1. What is Steel Shots & Grits (Steel Abrasives) Manufacturing industry ?**
- 2. How has the Steel Shots & Grits (Steel Abrasives) Manufacturing industry performed so far and how will it perform in the coming years ?**
- 3. What is the Business Feasibility Study of Steel Shots & Grits (Steel Abrasives) Manufacturing Plant ?**
- 4. What are the requirements of Working Capital for setting up Steel Shots & Grits (Steel Abrasives) Manufacturing plant ?**

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  - 6. What is the total Startup Cost for setting up Steel Shots & Grits (Steel Abrasives) Manufacturing Business?**
  - 7. What are the operating costs for setting up Steel Shots & Grits (Steel Abrasives) Manufacturing plant ?**
  - 8. What are the machinery and equipment requirements for setting up Steel Shots & Grits (Steel Abrasives) Manufacturing plant ?**

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**9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Steel Shots & Grits (Steel Abrasives) Manufacturing plant ?**

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- 2. ISO 629: 1982 Steel & Cast Iron - Determination of Manganese Content - Spectrophotometric Method.***
- 3. IS 4290: Part 2: 1992 Roughness Comparison Specimens: Part 2 Spark-eroded, Shot-blasted and Grit***
- 4. IS 4683: 1968 (Reaffirmed Year: 2019) Chilled Iron Shot and Grit for use in Foundries***
- 5. IS 9139: 1979 Specification for Malleable Iron Shots and Grits for Use in Foundries***
- 6. ISO 11125-5: 1993 Preparation of Steel Substrates before application of Paint and Related Product.***
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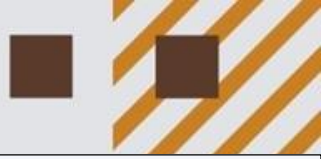
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- 
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  - ✓ **This report provides vital information on the product like it's characteristics and segmentation**
  - ✓ **This report helps you market and place the product correctly by identifying the target customer group of the product**

- 
- ✓ **This Business Plan helps you understand the viability of the project by disclosing details like machinery required, project costs and snapshot of other project financials**
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- **The market forecasts are developed on the basis of secondary research and are cross-validated through interactions with the industry players**
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- **Export-Import Market Potential**
- **Raw Material & Manpower Availability**
- **Project Costs and Payback Period**

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**Working Capital Requirement, uses and applications, Plant Layout, Project Financials, Process Flow Sheet, Cost of Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis. The DPR (Detailed Project Report) is formulated by highly accomplished and experienced consultants and the market research and analysis are supported by a panel of experts and digitalized data bank.**

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**A trusted and leading name in the industry, we have been putting forth exceptionally integrated and comprehensive technical consultancy services. We believe that project consultancy serves as a critical element for the success of your projects. Moreover, we keep in mind that no client is the same and nor are the requirements. Therefore, we ensure uniqueness in every service you avail from us.**

# What do we offer?

- **Selection of Right Business Ideas For You (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

## **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

# Our Approach

Requirement collection

Thorough analysis of the project

Economic feasibility study of the Project

Market potential survey/research

Report Compilation

## 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
- 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

## Sectors We Cover *Cont...*

- 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
- Infrastructure Projects
- Jute & Jute Based Products

## Sectors We Cover *Cont...*

- 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.



## Sectors We Cover *Cont...*

- 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



# Objective

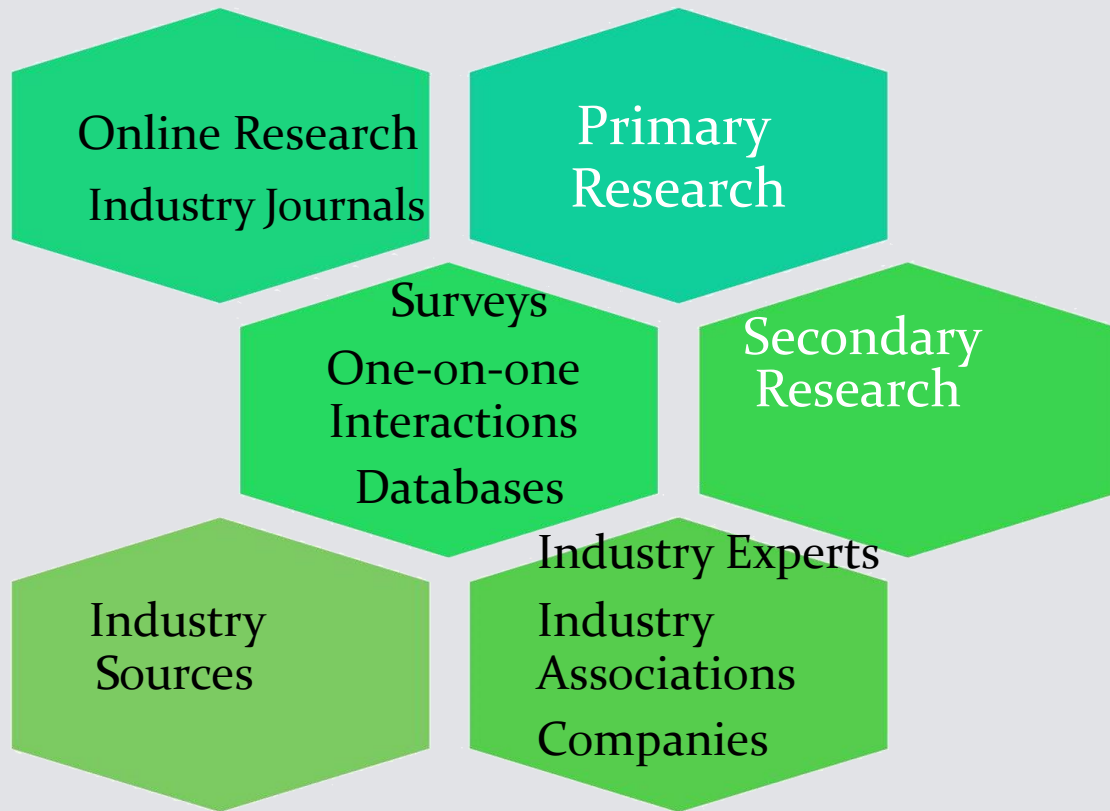
- To get a detailed scenario of the industry along with its structure and classification
- To provide a comprehensive analysis of the industry by covering aspects like:
  - Growth drivers of the industry
  - Latest market trends
  - Insights on regulatory framework
  - SWOT Analysis
  - Demand-Supply Situation
  - Foreign Trade
  - Porters 5 Forces Analysis
- 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

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## ***NIIR PROJECT CONSULTANCY SERVICES***

# **Entrepreneur India**



# Contact us

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# THANK YOU

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