How to Start a Razor Blade Manufacturing Company
Introduction

Razor blade steel is a martensitic stainless steel with a composition of chromium between 12 and 14.5%, a carbon content of approximately 0.6%, and the remainder iron and trace elements. The demands on razor blade steel are high. The risk for edge tear-outs must be minimized. A flat and fine surface is important in order to ensure a smooth and comfortable shaving. The thin edge has to have good strength and high sharpness in order to achieve the best shaving result.

Straight razors consist of a blade sharpened on one edge. The blade can be made of either stainless steel, which is slower to hone and strop, and holds an edge longer, or high carbon steel, which hones and strops quickly, but has a less durable edge. Since primitive times, shaving has been an important cultural grooming practice. Cave painting show that even the prehistoric men practiced shaving by scraping hair off with crude implements such as stones, flint, clam shells, and other sharpened natural objects. With the advent of the Bronze Age, humans developed the ability to forge simple metals and began to make razors from iron, bronze, and even gold.
The ancient Egyptians began the custom of shaving their beards and heads, which was eventually adopted by the Greeks and Romans around 330 B.C. This practice was advantageous for soldiers because it prevented enemies from grasping their hair in hand-to-hand combat. The unshaven, unkempt tribes they fought became known as barbarians, meaning the unbarbered.

Until the nineteenth century, the most common razor was still a long handled open blade called a "cut-throat" razor which was difficult to use, required repeated sharpening, and was usually wielded by professional barbers. Credit for the first safety razor is generally given to a Frenchman, Jean-Jacques Perret, who modeled his design after a joiner's plane. He even wrote a book on the subject entitled Pogonotomy or the Art of Learning to Shave Oneself. As with the razors of today, Perret's design covered the blade on three sides to protect the user from nicks and cuts. However, it still required periodic sharpening to give a good shave. Similar inventions were introduced throughout the 1800s. Nonetheless, even as late as the early 1900s most men were still shaved periodically at the barber.
Stainless Razor Blade Steel is a special martensitic stainless steel with good punching properties, good hardenability and toughness. These material properties and narrow tolerances in width, thickness, flatness and straightness allow efficient processing in the final production lines as well as extraordinary consumer comfort. Uddeholm cold rolled razor blade steel is rolled in mills especially designed for this purpose. Modern heat treatment equipment and automatic gauge controls allow us to produce faultless products according to the required specifications.

Some major razor blade manufacturing steps are:

- Blanking
- Degreasing
- Hardening and tempering
- Grinding
- Sputtering / PFTE-coating
Razor Blade Steel Characteristics

• Low content of non-metallic inclusions.

• Smooth dull surface.

• Very close tolerances and high accuracy on flatness and straightness.

• Good blanking and hardening properties.

• Good grinding and honing properties.
Property of Razor Blade Steel

Razor blade steel, also known as razor steel, is a special type of stainless steel designed specifically to be used as a razor blade. Its defining characteristics are its chemical composition and shape. Jindal Stainless is the world's largest producer of razor blade stainless steel.

Chemical composition
Razor blade steel is a martensitic stainless steel with a composition of chromium between 12 and 14.5%, a carbon content of approximately 0.6%, and the remainder iron and trace elements.

Shape
The United States International Trade Commission defines that the shape of the material must be flat rolled coils that are not more than 23 mm (0.91 in) in width. The thickness cannot exceed 0.266 mm (0.0105 in).
Market Outlook

The expansion of the global razor and razor blade industry is forecast to reach 1.3% p.a. in the coming years. Between 2008 and 2014 the market increased with an average annual growth of 4.0%. Currently, razors account for 55.2% of the global demand while the remaining market share is divided between safety razor blades (40.2%) and parts of non-electric razors (4.6%).

China, Germany, Japan, Poland and the United States represent the largest razors and razor blades markets while the strongest annual growth is forecast to occur in Panama (16.9%), Vietnam (10.9%), Iran (8.6%), Moldova (8.1%), and Bolivia (7.3%).
Global blades & Razor Market

Global Blades & Razors Market by Volume; 2010-2015 (Billion Units)

Global Men’s Blades & Razors Consumption; 2015

Global Women’s Blades & Razors Consumption; 2015

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Global Wet Shaving Market with Focus on Blades & Razors: Size, Trends and Forecasts (2016-2020)” provides an in-depth analysis of global wet shaving market and its products with detailed analysis of market size and growth in terms of value. It particularly focused on the blades and razors segment of the wet shaving market. An analysis of market share by major segments as well as by region is also provided. A comprehensive analysis of global razors and blades market has also been provided in terms of volume and consumption. A brief analysis of the US wet shaving market is provided with description of market share by major players and distribution channels. Annual expenditure on shaving need and the leading brands of the wet shaving products in the US market has also been discussed. It also assesses the key opportunities available in the market and outlines the factors that are and will be driving the growth of the industry. Growth of the overall wet shaving market has also been forecasted for the period 2016-2020 taking into considerations the previous growth patterns, the growth drivers and the current and future trends.
## Project at a Glance

### COST OF PROJECT

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## Project at a Glance

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# Project at a Glance

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1. What is a Razor Blade Manufacturing industry?

2. How has the Razor Blade Manufacturing industry performed so far and how will it perform in the coming years?

3. What is the Project Feasibility of a Razor Blade Manufacturing Plant?

4. What are the requirements of Working Capital for setting up a Razor Blade Manufacturing plant?
5. What is the structure of the a Razor Blade Manufacturing Business and who are the key/major players?

6. What is the total project cost for setting up a Razor Blade Manufacturing plant?

7. What are the operating costs for setting up a Razor Blade Manufacturing plant?

8. What are the machinery and equipment requirements for setting up a Razor Blade Manufacturing Unit?
9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up a Razor Blade Manufacturing plant?

10. What are the requirements of raw material for setting up a Razor Blade Manufacturing plant?

11. Who are the Suppliers and Manufacturers of Raw materials for setting up a Razor Blade Manufacturing plant?

12. What is the Manufacturing Process of a Razor Blade?
13. What is the total size of land required for setting up a Razor Blade Manufacturing plant?

14. What will be the income and expenditures for a Razor Blade Manufacturing plant?

15. What are the Projected Balance Sheets of a Razor Blade Manufacturing plant?

16. What are the requirement of utilities and overheads for setting up a Razor Blade Manufacturing plant?

17. What is the Built up Area Requirement and cost for setting up a Razor Blade Manufacturing Business?
18. What are the Personnel (Manpower) Requirements for setting up a Razor Blade Manufacturing Business?

19. What are Statistics of Import & Export for a Razor Blade Manufacturing?

20. What is the time required to break-even of Razor Blade Manufacturing Business?

21. What is the Break-Even Analysis of a Razor Blade Manufacturing plant?

22. What are the Project financials of a Razor Blade Manufacturing plant?
23. What are the Profitability Ratios of a Razor Blade Manufacturing plant?

24. What is the Sensitivity Analysis-Price/Volume of a Razor Blade Manufacturing plant?

25. What are the Projected Pay-Back Period and IRR of a Razor Blade Manufacturing plant?

26. What is the Process Flow Sheet Diagram of a Razor Blade Manufacturing project?
27. What are the Market Opportunities for setting up a Razor Blade Manufacturing plant?

28. What is the Market Study and Assessment for setting up a Razor Blade Manufacturing plant?

29. What is the Plant Layout for setting up a Razor Blade Manufacturing Business?
Table of Contents of the Project Report
1. PROJECT PROFILE

1.1. DISTRICT PROFILE & GEOTECHNICAL SITE CHARACTERIZATION

1.1.1. General
1.1.2. Location & Geographical Area
1.1.3. Map
1.1.4. Topography
1.1.5. Administrative set up
1.1.6. Demography
1.1.7. Climate & Rainfall
1.1.8. Flora and Fauna
1.1.9. Resource Inventory
1.1.10. Industry at a Glance

2. INTRODUCTION

3. PROPERTY OF RAZOR BLADE STEEL

3.1. Chemical Composition
3.2. Shape
4. RAZOR BLADE PROPERTIES
   4.1. Material Properties
   4.2. Mechanical Properties

5. USES & SCOPES

6. B.I.S. SPECIFICATION
   6.1. Is 7371: 1982 – Specification For Stainless Steel Safety Razor Blades (Second Revision)
   6.2. Is 9294: 1979 – Cold-rolled Stainless Steel Strips For Razor Blades
   6.3. Is 9476: 1980 – Cold Rolled Steel Strips For Carbon Steel Razor Blades
   6.4. Is 10009: 1981 – Breaker & Holder, Razor Blade, Barraquer's Pattern
   6.5. Is 10198: 1982 – Specification For Carbon Steel, Safety Razor Blades

7. MARKET SURVEY
   7.1. EXIM SCENARIO
   7.2. TRENDS
   7.3. COMPETITIVE LANDSCAPE
7.4. Prospects
7.5. The Guard Razor

8. EXPORT & IMPORT: ALL COUNTRIES
   8.1. Export: All Countries
   8.2. Import: All Countries

9. TYPES OF RAZOR
   9.1. Straight Razors
   9.2. Safety Razors
   9.3. Electric Razors

10. MANUFACTURING PROCESS

11. PROCESS FLOW DIAGRAM

12. PROCESS STEPS
13. QUALITY CONTROL & STANDARD

14. SUPPLIERS OF PLANT & MACHINERY

15. SUPPLIERS OF RAW MATERIAL

16. PHOTOGRAPHS/IMAGES FOR REFERENCES
   16.1. Machinery Photographs
   16.2. Raw Materials Photographs
   16.3. Product Photographs
Project Financials

- Project at a Glance
- Assumptions for Profitability workings
- Plant Economics
- Production Schedule
- Land & Building
- Factory Land & Building Site Development Expenses

Annexure
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• Overheads Required Per Month and Per Annum……………………………8
Utilities & Overheads (Power, Water and Fuel Expenses etc.)
Royalty and Other Charges
Selling and Distribution Expenses

• Salary and Wages ..........................................................................................9

• Turnover Per Annum .....................................................................................10

• Share Capital..................................................................................................11

   Equity Capital
   Preference Share Capital

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• Annexure 1 :: Cost of Project and Means of Finance

• Annexure 2 :: Profitability and Net Cash Accruals

- Revenue/Income/Realisation
- Expenses/Cost of Products/Services/Items
- Gross Profit
- Financial Charges
- Total Cost of Sales
- Net Profit After Taxes
- Net Cash Accruals
• Annexure 3 :: Assessment of Working Capital requirements
  - Current Assets
  - Gross Working Capital
  - Current Liabilities
  - Net Working Capital
  - Working Note for Calculation of Work-in-process

• Annexure 4 :: Sources and Disposition of Funds
Annexure 5 :: Projected Balance Sheets

- ROI (Average of Fixed Assets)
- RONW (Average of Share Capital)
- ROI (Average of Total Assets)

Annexure 6 :: Profitability Ratios

- D.S.C.R
- Earnings Per Share (EPS)
- Debt Equity Ratio
• Annexure 7 :: Break-Even Analysis

- Variable Cost & Expenses
- Semi-Variable/Semi-Fixed Expenses
- Profit Volume Ratio (PVR)
- Fixed Expenses / Cost
- B.E.P
Annexure 8 to 11 :: Sensitivity Analysis-Price/Volume

- Resultant N.P.B.T
- Resultant D.S.C.R
- Resultant PV Ratio
- Resultant DER
- Resultant ROI
- Resultant BEP
• Annexure 12 :: Shareholding Pattern and Stake Status
  - Equity Capital
  - Preference Share Capital
• Annexure 13 :: Quantitative Details-Output/Sales/Stocks
  - Determined Capacity P.A of Products/Services
  - Achievable Efficiency/Yield % of Products/Services/Items
  - Net Usable Load/Capacity of Products/Services/Items
  - Expected Sales/ Revenue/ Income of Products/ Services/ Items
• Annexure 14 :: Product wise Domestic Sales Realisation
• Annexure 15 :: Total Raw Material Cost
• Annexure 16 :: Raw Material Cost per unit
• Annexure 17 :: Total Lab & ETP Chemical Cost
• Annexure 18 :: Consumables, Store etc.
• Annexure 19 :: Packing Material Cost
• Annexure 20 :: Packing Material Cost Per Unit
<table>
<thead>
<tr>
<th>Annexure</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>21</td>
<td>Employees Expenses</td>
</tr>
<tr>
<td>22</td>
<td>Fuel Expenses</td>
</tr>
<tr>
<td>23</td>
<td>Power/Electricity Expenses</td>
</tr>
<tr>
<td>24</td>
<td>Royalty &amp; Other Charges</td>
</tr>
<tr>
<td>25</td>
<td>Repairs &amp; Maintenance Expenses</td>
</tr>
<tr>
<td>26</td>
<td>Other Manufacturing Expenses</td>
</tr>
<tr>
<td>27</td>
<td>Administration Expenses</td>
</tr>
<tr>
<td>28</td>
<td>Selling Expenses</td>
</tr>
</tbody>
</table>
• Annexure 29 :: Depreciation Charges – as per Books (Total)
• Annexure 30 :: Depreciation Charges – as per Books (P & M)
• Annexure 31 :: Depreciation Charges - as per IT Act WDV (Total)
• Annexure 32 :: Depreciation Charges - as per IT Act WDV (P & M)
• Annexure 33 :: Interest and Repayment - Term Loans
• Annexure 34 :: Tax on Profits
• Annexure 35 :: Projected Pay-Back Period and IRR
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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.

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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.

• We use reliable sources of information and databases. And information from such sources is processed by us and included in the report.
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The report titled “Market Survey cum Detailed Techno Economic Feasibility Report on How to Start a Razor Blade Manufacturing Company” provides an insight into the How to Start a Razor Blade Manufacturing Company market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of How to Start a Razor Blade Manufacturing Company project. The report assesses the market sizing and growth of the Indian How to Start a Razor Blade Manufacturing Company 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 How to Start a Razor Blade Manufacturing Company sector in India along with its business prospects. Through this report we have identified How to Start a Razor Blade Manufacturing Company project as a lucrative investment avenue.
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