Industrial Fasteners, Nuts & Bolts
Mild Steel and High Tensile Nuts and Bolts, Hardware Fasteners,
M.S. & H.T. Nuts & Bolts

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, Working Capital Requirement, Plant Layout, Process Flow Sheet, Cost of Project,
Projected Balance Sheets, Profitability Ratios, Break Even Analysis
Bolts and nuts are one group of industrial fasteners extensively used in all branches of production activities. Nuts and bolts consist a major link in the family of industrial fasteners and are used by every industry. They are used in the production of all types of physical products especially made from metal and wood. Bolts and nuts are mostly made from mild steel, but in small quantities they can also be made from other ferrous and non-ferrous metals. Nuts and bolts are used for fastening purpose in industries where there placement of pieces and the parts is necessary.
There are many industries producing these nuts and bolts of various sizes, but the demand too is increasing as well as the raw material for the product is easily and indigenously available. During the last four years average annual imports of nuts and bolts were 40,000 tons. This quantity alone can justify the establishment of a bolts and nuts producing plant. With increasing demand for these products, there is increasing need for such a plant.
NUTS BOLTS MAKING MARKET POTENTIAL

The demand of nuts and bolts is influenced by the following factors:

- Transportation industries, Railways, aircraft, wagon, bicycles, automobile, body builders, etc.
- Electrical industries like manufacturing of transformer, electric motors, fans etc.
- Building activities such as the construction of bridges, fabrication of various steel structure etc.
- Other heavy and light industries, steel and wooden furniture, machine tools, agricultural machines and agricultural implements etc.
Fasteners industry is evolving from commodities to customized market since most auto manufacturers have different design specifications for their assemblies. Fasteners, commonly known as Nuts, Bolts & Screws find wide application in Automobile, Agriculture and Engineering Industries. Thus Heavy and Medium Commercial Vehicles, Light Commercial Vehicles, Utility Vehicles, Cars, Three Wheelers, Tractors, Heavy Earth Moving Equipments, Machine Tools, Textile Machinery, Railways, Defence, Power, Telecommunication, Aircrafts, Space crafts, Air-Conditioning and Refrigeration etc. need fasteners for sub or main assembly. In fact there is no assembly complete without fasteners.
The automotive industry is the largest end-user of fasteners with the remaining demand coming from sectors like textile machinery, railway locomotives, construction, computer hardware and general engineering.

The global market for Industrial Fasteners is forecast to reach US$81 billion by the year 2018. Key factors fuelling market growth include revival in motor vehicle production, increased demand from developing regions, and potential growth in construction, electrical and electronic, and aerospace sectors.
Fasteners are also in high demand in the manufacture of electrical oriented products, such as lightening and wiring devices, home appliances, and construction equipment.

The highly fragmented industrial fasteners market is characterized by aggressive competition with several large and small players competing to maintain their respective market positions. In various regions, industry consolidation was a predominant trend as small players merged operations with larger prominent players to leverage their resources.
Fasteners have played a major role in the advancement of the human race since prehistoric days when the caveman used thongs to hold a rock into the split end of a stick to make the first axe. Since that day, the progress of fastening methods and devices includes: wooden pegs; wedges; the first iron nails; glue; rivets; welding; and today, a multitude of highly specialized fasteners that range from simple wooden clothespins to cap screws made from specialized materials for our space programs.
Few of us realize the importance that fasteners play in our way of life. Less than $100 worth of fasteners represents the difference between a useless pile of parts and a finished automobile. A $75,000 crawler tractor would be nothing but scrap iron without a few hundred dollars worth of nuts and bolts. Without the variety of fastening devices available to industry, we would have to do without electricity, city water, natural gas, telephone, radios, television, refrigeration, transportation, canned and frozen foods, clothing, shelter, and in fact, almost every necessity and convenience we take for granted.
Each year, the fastener industry uses over two million tons of steel to produce more than 200 billion fasteners in over two million different shapes and sizes. To keep pace with the rapidly expanding market and increasing demands for absolute reliability as well as availability, the fastener industry must continually develop new materials, improve its manufacturing and distribution techniques, invent ingenious new parts and gain prestige in the industrial world. All of these factors compile to make this one of the most complex industries that exist in the world today.

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Fasteners mainly cover nuts, bolts, screws, studs and rivets and are segmented between MS (mild steel) and HT (high tensile) fasteners. These fasteners are used in engineering systems. All types of fasteners, except high tensile and special type fasteners, are reserved for the SSI sector.
MS fasteners are thus produced mostly in the unorganized sector, while HT fasteners are produced by the organized sector, as these require superior technology which SSI unorganized sector can ill afford. HT fasteners are either standard fasteners or specialized fasteners, the latter being made to meet specific customer requirements. The industry has been opened for FDI through direct route, if the products to be produced are not reserved for the SSI sector.
The overall fasteners market is estimated at about Rs 28 bn. While the organized sector (HT fasteners) has a share of 65%, the balance of 35% is shared by unorganized sector and imports. The imports in 2006-07 were Rs 8 bn, leaving Rs 2 bn or 7% as the market for the unorganized sector in value terms. The market is heavily dependent on imports which have been growing at close to 28.5% in recent period.
General application fasteners are catered to by the unorganized sector where brand and quality have little meaning and price is the main criteria for selection of the supplier. On the other hand, high tensile fasteners are used in engineering applications, such as in the automobile, industrial and other sectors. The varied applications include construction, railways and the domestic sectors. The market is made up of OEM or bulk market; and the replacement market (the retail market).
Inspired by the phenomenal growth in the recent years, the leading companies in the organized market have regularly been expanding their capacities. The boom has been due mainly to the upswing witnessed by the automobile sector, the main end-user industry, accounting for almost half of the demand for fasteners. The four major companies in the industry are Sundaram Fasteners (turnover Rs 12 bn), the leader; Lakshmi Precision Screws (Rs 1.9 bn), Mahindra Fasteners (Rs 408.5 mn) and Sterling Tools (Rs. 1.4 bn). Other units, among the major players, are Guest Keen Williams (GKW) (Rs 1.1 bn).
Sundaram Fasteners (SFL) is a highly rated company and receives orders from overseas markets including those from the US (General Motors, in particular). The preferred products are radiator caps and powder metal parts. Sundaram also supplies cold extruded parts to Delphi Automotive Systems. Due to better product-mix in exports and increased sales volume, TVS group's blue chip, SFL has emerged as a strong player in the high-tensile fasteners market. Sundaram Fasteners invested Rs 250 mn for setting up of a greenfield manufacturing facility in China. The company's revenues from the Chinese operations account for 25% of its total exports. The manufacturing unit has an installed capacity of 6,000 tpa.
Precision Fasteners leads in the industrial fastener segment. The company started manufacturing a wide range of Unbrako high-tensile fasteners' forged components in collaboration with SPS Technologies Inc of the US. Precision Fasteners had plans to enter the automotive fasteners market and was to target mainly the replacement segment. Its Silvasa plant capacity was being increased two-fold.
Reasons for buying the report:

• 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 its characteristics and segmentation.

• This report helps you market and place the product correctly by identifying the target customer group of the product.

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• 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 to 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.

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The report titled “Market Survey cum Detailed Techno Economic Feasibility Report on M.S. & H.T. Nuts & Bolts” provides an insight into the M.S. & H.T. Nuts & Bolts market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of M.S. & H.T. Nuts & Bolts project. The report assesses the market sizing and growth of the India M.S. & H.T. Nuts & Bolts 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 M.S. & H.T. Nuts & Bolts sector in India along with its business prospects. Through this report we have identified M.S. & H.T. Nuts & Bolts project as a lucrative investment avenue.
Few Indian Major Players are as under

Agarwal Bolts Ltd.
Atul Fasteners Ltd.
Caparo Engineering India Pvt. Ltd.
Coventry Spring & Engg. Co. Ltd.
Dev Fasteners Ltd.
G K W Ltd.
G S Auto International Ltd.
Indian Fasteners Ltd.
Jaico Steel Fasteners Ltd.
Lakshmi Precision Screws Ltd.
Mohindra Fasteners Ltd.
Patton Electro Ltd.
Pooja Forge Ltd.
Precision Fasteners Ltd.
Quick Thread Pvt. Ltd.
Rockfort Fasteners Ltd.
Small Tools Mfg. Co. Of India Ltd.
Sterling Tools Ltd.
## Project at a Glance

<table>
<thead>
<tr>
<th>COST OF PROJECT</th>
<th>MEANS OF FINANCE</th>
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<tbody>
<tr>
<td>Particulars</td>
<td>Existing</td>
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<td>Land &amp; Site Development Exp.</td>
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<tr>
<td>Buildings</td>
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<tr>
<td>Plant &amp; Machineries</td>
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</tr>
<tr>
<td>Motor Vehicles</td>
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<td>Office Automation Equipments</td>
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<td>Technical Knowhow Fees &amp; Exp.</td>
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<tr>
<td>Franchise &amp; Other Deposits</td>
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<tr>
<td>Preliminary &amp; Pre-operative Exp</td>
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<tr>
<td>Provision for Contingencies</td>
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<tr>
<td>Margin Money - Working Capital</td>
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<tr>
<td>TOTAL</td>
<td>0.00</td>
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### Project at a Glance

<table>
<thead>
<tr>
<th>Year</th>
<th>Annualised Book Value</th>
<th>Debt Dividend</th>
<th>Retained Earnings</th>
<th>Payout</th>
<th>Probable Market Price</th>
<th>P/E Ratio</th>
<th>Yield Price/Book Value</th>
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<tr>
<td></td>
<td>EPS Rs</td>
<td>CEPS Rs</td>
<td>Per Share Rs</td>
<td>Per Share Rs</td>
<td>%</td>
<td>Rs</td>
<td>%</td>
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<td>100.00</td>
<td>15.34</td>
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## Project at a Glance

<table>
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<tr>
<th>Year</th>
<th>D. S. C. R.</th>
<th>Debt / Deposits Debt</th>
<th>Equity as-Equity Debt</th>
<th>Total Net Worth</th>
<th>Return on Net Worth</th>
<th>Profitability Ratio</th>
<th>Assets Turnover Ratio</th>
<th>Current Ratio</th>
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<td></td>
<td></td>
<td>(Number of times)</td>
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<td></td>
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<tr>
<td></td>
<td></td>
<td>(Number of times)</td>
<td>%</td>
<td>%</td>
<td>%</td>
<td>%</td>
<td>%</td>
<td>%</td>
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<tr>
<td>Initial</td>
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<tr>
<td>1-2</td>
<td>1.34</td>
<td>1.34</td>
<td>1.61</td>
<td>1.61</td>
<td>1.94</td>
<td>26.87%</td>
<td>12.21%</td>
<td>9.14%</td>
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<td>2-3</td>
<td>1.61</td>
<td>1.47</td>
<td>0.80</td>
<td>0.80</td>
<td>1.05</td>
<td>30.23%</td>
<td>18.05%</td>
<td>12.15%</td>
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<tr>
<td>3-4</td>
<td>1.94</td>
<td>1.61</td>
<td>0.37</td>
<td>0.37</td>
<td>0.56</td>
<td>32.51%</td>
<td>22.18%</td>
<td>14.37%</td>
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<td>4-5</td>
<td>2.34</td>
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<td>34.07%</td>
<td>25.13%</td>
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<td>5-6</td>
<td>2.82</td>
<td>1.94</td>
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<td>0.00</td>
<td>0.13</td>
<td>35.13%</td>
<td>27.26%</td>
<td>17.25%</td>
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## Project at a Glance

<table>
<thead>
<tr>
<th>BEP</th>
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<tbody>
<tr>
<td>BEP - Maximum Utilisation Year</td>
<td>5</td>
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<tr>
<td>Cash BEP (% of Installed Capacity)</td>
<td>48.75%</td>
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<tr>
<td>Total BEP (% of Installed Capacity)</td>
<td>53.38%</td>
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### IRR, PAYBACK and FACR

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Internal Rate of Return .. ( In %age )</td>
<td>24.94%</td>
</tr>
<tr>
<td>Payback Period of the Project is ( In Years )</td>
<td>2.814 Years</td>
</tr>
<tr>
<td>Fixed Assets Coverage Ratio ( No. of times )</td>
<td>3.902</td>
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</tbody>
</table>
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2. How has the M.S. & H.T. Nuts & Bolts industry performed so far and how will it perform in the coming years?

3. What is the Project Feasibility of a M.S. & H.T. Nuts & Bolts Plant?

4. What are the requirements of Working Capital for setting up a M.S. & H.T. Nuts & Bolts plant?
5. What is the structure of the M.S. & H.T. Nuts & Bolts Business and who are the key/major players?

6. What is the total project cost for setting up M.S. & H.T. Nuts & Bolts plant?

7. What are the operating costs for setting up a M.S. & H.T. Nuts & Bolts plant?

8. What are the machinery and equipment requirements for setting up a M.S. & H.T. Nuts & Bolts plant?
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10. What are the requirements of raw material for setting up a M.S. & H.T. Nuts & Bolts plant?

11. Who are the Suppliers and Manufacturers of Raw materials for setting up a M.S. & H.T. Nuts & Bolts plant?

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• 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
Niir Project Consultancy Services (NPCS) can provide Detailed Project Report on M.S. & H.T. Nuts & Bolts

See more

http://goo.gl/VQRcp2
http://goo.gl/7ywFoo
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Who are we?

- 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
What do we offer?

- Project Identification
- Detailed Project Reports/Pre-feasibility Reports
- Market Research Reports
- Technology Books and Directory
- 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

- 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
Sectors We Cover

- 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
Sectors We Cover

- 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

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Sectors We Cover

- 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.

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Sectors We Cover

- 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

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Sectors We Cover

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

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