High Tensile Fasteners

Industrial fasteners have a vital contribution for the growth of almost all sectors of industry. It is a wonderful manifestation which joins & secures materials together for any productive uses. A fastener is a connective mechanism that mechanically joins or affixes two or more objects together. A bolt is an externally threaded fastener designed for insertion through holes in assembled parts, and is normally intended to be tightened or released by torquing a nut. A nut is a type of hardware fastener with a threaded hole. Nuts are almost always used opposite a mating bolt to fasten a stack of parts together.
The two partners are kept together by a combination of the friction of their threads, a slight stretch of the bolt, and compression of the parts. High tensile nuts and bolts find wide application in joining part where continuous rotation and wear and tear of the nuts and bolts occurs. As the nuts and bolts are subjected to variable stress in a dynamic condition, there is every likelihood that these fasteners can be failed at any instant causing situations like catastrophe.
For the above purpose, nuts and bolts are manufactured from alloy steels having high tensile strength and resistant to continuous wear and tear.

In construction, connectors between structural members bolted connections are used when it is necessary to fasten two elements tightly together, especially to resist shear and bending, as in column and beam connections. Threaded metal bolts are always used in conjunction with nuts. Thus, due to demand it is a good project for entrepreneurs to invest.
Few Indian Major Players are as under

- Aurangabad Electricals Ltd.
- Caparo Engineering India Ltd.
- Coventry Spring & Engg. Co. Ltd.
- Dev Fasteners Ltd.
• Forbes & Co. Ltd.
• G S Auto International Ltd.
• Holtzman Systems Ltd.
• I S P L Industries Ltd.
• Jaico Steel Fasteners Ltd.
• Lakshmi Precision Screws Ltd.
• M C S Fasteners (India) Ltd.
• Mangal Steel Enterprises Ltd.
• Mohindra Fasteners Ltd.
• Patheja Forgings & Auto-Parts Mfrs. Ltd.
• Patton Electro Ltd.
• Pooja Forge Ltd.
• Sterling Tools Ltd.
• Sundram Fasteners Ltd.
• Viraj Profiles Ltd.
<table>
<thead>
<tr>
<th>Particulars</th>
<th>Existing</th>
<th>Proposed</th>
<th>Total</th>
<th>Particulars</th>
<th>Existing</th>
<th>Proposed</th>
<th>Total</th>
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<tr>
<td>Land &amp; Site Development Exp.</td>
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<td>35.00</td>
<td>35.00</td>
<td>Capital</td>
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<td>91.00</td>
<td>91.00</td>
<td>Share Premium</td>
<td>0.00</td>
<td>0.00</td>
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<td>Plant &amp; Machineries</td>
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<td>93.35</td>
<td>93.35</td>
<td>Other Type Share Capital</td>
<td>0.00</td>
<td>0.00</td>
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<td>10.00</td>
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<td>Technical Knowhow Fees &amp; Exp.</td>
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<td>20.00</td>
<td>20.00</td>
<td>Internal Cash Accruals</td>
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<td>Franchise &amp; Other Deposits</td>
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<td>322.98</td>
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<td>3.00</td>
<td>Debentures / Bonds</td>
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<td>0.00</td>
<td>0.00</td>
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<td>Provision for Contingencies</td>
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<td>9.00</td>
<td>Unsecured Loans/Deposits</td>
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<td>430.64</td>
<td>TOTAL</td>
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## Project at a Glance

<table>
<thead>
<tr>
<th>Year</th>
<th>Annualised</th>
<th>Book Value</th>
<th>Debt</th>
<th>Dividend Per Share</th>
<th>Retained Earnings Per Share</th>
<th>Payout %</th>
<th>Probable Market Price Rs</th>
<th>P/E Ratio</th>
<th>Yield Price/Book Value %</th>
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<td>18.26</td>
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## Project At A Glance

<table>
<thead>
<tr>
<th>Year</th>
<th>D. S. C. R.</th>
<th>Debt / Deposits Debt</th>
<th>Equity as- Equity</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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<tr>
<td></td>
<td>Individual</td>
<td>(Number of times)</td>
<td>(Number of times)</td>
<td></td>
<td></td>
<td>GPM</td>
<td>PBT</td>
<td>PAT</td>
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<tr>
<td></td>
<td>Cumulative</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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<td>1.63</td>
<td>1.63</td>
<td>4.66</td>
<td>4.82%</td>
<td>2.10%</td>
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<td>1.24</td>
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<td>3.03</td>
<td>5.67%</td>
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<td>1.42</td>
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<td>2.04</td>
<td>6.26%</td>
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<td>1.61</td>
<td>0.12</td>
<td>0.12</td>
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<td>6.67%</td>
<td>4.78%</td>
<td>3.03%</td>
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<td>1.83</td>
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<td>1.08</td>
<td>6.96%</td>
<td>5.23%</td>
<td>3.31%</td>
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<td>3.23</td>
<td>2.06</td>
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<td>0.00</td>
<td>1.08</td>
<td>6.96%</td>
<td>5.23%</td>
<td>3.31%</td>
</tr>
</tbody>
</table>

### Notes:
- **D. S. C. R.** stands for Debt Service Coverage Ratio.
- **GPM** is Gross Profit Margin.
- **PBT** is Profit Before Tax.
- **PAT** is Profit After Tax.
- **Net Contribution** represents the net contribution to the overall profitability.
- **P/V Ratio** is the Price to Value Ratio.
## PROJECT AT A GLANCE

<table>
<thead>
<tr>
<th>Table Title</th>
<th>Data</th>
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<tr>
<td><strong>BEP</strong></td>
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<td>BEP - Maximum Utilisation Year</td>
<td>5</td>
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<tr>
<td>Cash BEP (% of Installed Capacity)</td>
<td>65.68%</td>
</tr>
<tr>
<td>Total BEP (% of Installed Capacity)</td>
<td>68.02%</td>
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<tr>
<td><strong>IRR, PAYBACK and FACR</strong></td>
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<tr>
<td>Internal Rate of Return .. ( In %age )</td>
<td>28.41%</td>
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<tr>
<td>Payback Period of the Project is ( In Years )</td>
<td>2 Years 4 Months</td>
</tr>
<tr>
<td>Fixed Assets Coverage Ratio ( No. of times )</td>
<td>29.053</td>
</tr>
</tbody>
</table>
Major Queries/Questions Answered in the Report?

1. What is High Tensile Fasteners industry?
2. How has the High Tensile Fasteners industry performed so far and how will it perform in the coming years?
3. What is the Project Feasibility of a High Tensile Fasteners Plant?
4. What are the requirements of Working Capital for setting up a High Tensile Fasteners plant?
5. What is the structure of the High Tensile Fasteners industry and who are the key/major players?

6. What is the total project cost for setting up a High Tensile Fasteners plant?

7. What are the operating costs for setting up a High Tensile Fasteners plant?

8. What are the machinery and equipment requirements for setting up a High Tensile Fasteners plant?
9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up a High Tensile Fasteners plant?

10. What are the requirements of raw material for setting up a High Tensile Fasteners plant?

11. Who are the Suppliers and Manufacturers of Raw materials for setting up a High Tensile Fasteners plant?

12. What is the Manufacturing Process and Formulations of a High Tensile Fasteners plant?
13. What is the total size of land required for setting up a High Tensile Fasteners plant?
14. What will be the income and expenditures for a High Tensile Fasteners plant?
15. What are the Projected Balance Sheets of a High Tensile Fasteners plant?
16. What are the requirement of utilities and overheads for setting up a High Tensile Fasteners plant?
17. What is the Built up Area Requirement and cost for setting up a High Tensile Fasteners plant?
18. What are the Personnel (Manpower) Requirements for setting up a High Tensile Fasteners plant?
19. What are Statistics of Import & Export for High Tensile Fasteners?
20. What is the time required to break-even?
21. What is the Break-Even Analysis of a High Tensile Fasteners plant?
22. What are the Project financials of a High Tensile Fasteners plant?
23. What are the Profitability Ratios of a High Tensile Fasteners plant?
24. What is the Sensitivity Analysis-Price/Volume of a High Tensile Fasteners plant?
25. What are the Projected Pay-Back Period and IRR of a High Tensile Fasteners plant?
26. What is the Process Flow Sheet Diagram of a High Tensile Fasteners plant?
27. What are the Market Opportunities for setting up a High Tensile Fasteners plant?

28. What is the Market Study and Assessment for setting up a High Tensile Fasteners plant?

29. What is the Plant Layout for setting up a High Tensile Fasteners plant?
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      1.1.1. Location & Geographical Area
      1.1.2. Topography
      1.1.3. Administrative Set up
      1.1.4. Map

2. Introduction

3. Nuts & Bolts
3.1. Bolt Terms
3.2. Thread Terms
3.3. Thread Specifications

4. Types Of Screw Threads

5. Applications Of Screw Threads

6. Fastener Type Chart

7. B.I.S. Specifications
8. Market Survey
   8.1. Fasteners

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   9.1. About Financial Statements of CMIE Database
   9.2. Profits & Appropriations
   9.3. Total Liabilities
   9.4. Total Assets
   9.5. Net Cash Flow from Operating Activities
9.6 Section – I

9.6.1. Name of Company with Contact Details
9.6.2. Name of Director(S)
9.6.3. Plant Capacity
9.6.4. Location of Plant
9.6.5. Name of Raw Material(S) Consumed with Quantity & Cost

9.7. Section – II

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9.7.2. Cash Flow
9.7.3. Cost as % Ge of Sales
9.7.4. Forex Transaction
9.7.5. Growth in Assets & Liabilities
9.7.6. Growth in Income & Expenditure
9.7.7. Income & Expenditure
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10.1. Export Statistics Data for High Tensile Fastener

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13. Protective Coatings For Fasteners

14. Raw Material
   14.1. List of Steel used in Bolt and Nut Making

15. Fastener Material Selection
   15.1. Mechanical Properties
   15.2. Other Mechanical Properties

16. Manufacturing Process

17. Process Flow Diagrams

19. Heat Treatment
   19.1. Hardening
   19.2. Tempering

20. Suppliers Of Plant & Machinery
   20.1. Machinery Suppliers (Complete Plant)
21. Suppliers Of Raw Material

22. Product, Machinery & Raw Material Photographs

23. Plant Layout

24. Quotation Of Plant, Machinery and Equipments from Supplier
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- Assumptions for Profitability workings
- Plant Economics
- Production Schedule
- Land & Building

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2. Plant Economics
3. Production Schedule
4. Land & Building
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   Site Development Expenses

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  Other Machineries (Miscellaneous, Laboratory etc.)

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  Preference Share Capital

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- Current Liabilities
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- Semi-Variable/Semi-Fixed Expenses
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- Resultant PV Ratio
- Resultant DER
- Resultant ROI
- Resultant BEP
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  - Preference Share Capital
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  - Achievable Efficiency/Yield % of Products/Services/Items
  - Net Usable Load/Capacity of Products/Services/Items
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• Annexure 34 :: Tax on Profits
• Annexure 35 :: Projected Pay-Back Period and IRR
Niir Project Consultancy Services (NPCS) can provide Detailed Project Report on High Tensile Fasteners

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- We use authentic & reliable sources to ensure business precision
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Requirement collection

Thorough analysis of the project

Economic feasibility study of the Project

Market potential survey/research

Report Compilation

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- Embassies & Consulates
- Consultancies
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- 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
Sectors We Cover

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- 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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- 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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- 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.
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- 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
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

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