HEXAGONAL NUT

Hexagon Nuts are Designed to perfection, these nuts possess close tolerance and precision dimensions. Our quality controllers undertake stringent quality measures in order to provide our clients a flawless range of nuts. Further, to retain the trust of our valued clients, we also provide them with certificate regarding testing parameters undertaken by our organization. We offer our range of Hexagon Nuts in various sizes, thicknesses & dimensions, and material & grades. These nuts meet the requirements of hardware, engineering, electrical and various other industries. We also customize our range of Hexagonal Nuts to meet the different requirements of our clients. Further, our range can be availed at market leading prices.

Diameter : M27 to M52
Duplex & Super Duplex : UNS31803, S32750.
Diameter : M16 to M27
Hastelloy : Hastelloy C-276, Hastelloy C-22.
Diameter : M8 to M27
Diameter : M8 to M27
Diameter : M8 to M27

“All measurements in millimeters (mm)”

DIN 934 / ISO 4032

THREADED RODS: DIN 975 & DIN 976

Diameter : M3 to M100 From 10MM to 6MTS
Duplex & Super Duplex : UNS31803, S32750.
Diameter : M3 to M100 From 10MM to 1000MM
Hastelloy : Hastelloy C-276, Hastelloy C-22.
Diameter : M3 to M36 From 10MM to 1000MM
Diameter : M3 to M36 From 10MM to 1000MM
Diameter : M3 to M36 From 10MM to 1000MM

Email : sales@vihasteel.com  •  Web. : www.vihasteel.com
REFRACTORY ANCHOR

SS Refractory Anchors are manufactured from good grades of steel and have found applications in various industries. Some of the industries are cement, ceramic, steel, thermal, petrochemical, power and many more. The Stainless Steel Refractory Anchors offered by us are available in assortments of shapes and sizes but usually they are in the shape of Y, U and V. In addition to this, we provide availability of Refractory Anchors in unlike specifications as per the preferences of global clients. We are tagged as one of the most illustrious Industrial Refractory Anchors Suppliers from India. To enquire about the desired product(s)

<table>
<thead>
<tr>
<th>Chemical Composition of Stainless Steel</th>
<th>Temperature Resistant of Anchor Metal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anchor Metal</td>
<td>Temperature Resistant</td>
</tr>
<tr>
<td>Mild Steel [MS]</td>
<td>540 Degree C</td>
</tr>
<tr>
<td>Stainless Steel 304</td>
<td>1080 Degree C</td>
</tr>
<tr>
<td>Stainless Steel 310</td>
<td>1350 Degree C</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Composition Per Cent/ Grade</th>
<th>C % Max</th>
<th>Mn % Max</th>
<th>P % Max</th>
<th>S % Max</th>
<th>Si % Max</th>
<th>Cr % N% Max</th>
<th>Ni% Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>304</td>
<td>0.08</td>
<td>0.03</td>
<td>2.00</td>
<td>0.045</td>
<td>0.030</td>
<td>1.00</td>
<td>0.75</td>
</tr>
<tr>
<td>304-L</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>18.00 to 20.00</td>
<td></td>
</tr>
<tr>
<td>310</td>
<td>0.25</td>
<td>0.08</td>
<td>2.00</td>
<td>0.045</td>
<td>0.030</td>
<td>1.00</td>
<td>0.75</td>
</tr>
<tr>
<td>310S</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>24.00 to 26.00</td>
<td></td>
</tr>
</tbody>
</table>

SPIRAL-Y-ANCHORS

We are specialized in manufacturing superior quality Spiral Y- Anchors, these are widely used in various industrial applications.

Specifications

- 215 X 145 X 5 MM
- 190 X 45 X 5 MM
- 185 X 105 X 5 MM
- 175 X 30 X 5 MM
- 155 X 70 X 5 MM
- 90 X 30 X 5 MM
- 80 X 30 X 5 MM

U-ANCHORS

We manufacture and export superior quality U-anchors, these can be availed in various specifications like:

- 55 X 16 X 05 MM
- 225 X 27 X 05 MM
- Wing Nut Type

V-ANCHORS

We are manufacturer & supplier of V-Anchor, to match all types of lining for cement, ceramic, steel, petrochemical, refinery industry for the retaining of monolithic, ceramic fiber and brick linings. Our anchors are suitable for single & dual layer lining, brick, ceramic, fiber and monolithic. All refractory anchor made from stainless steel [SS] 304, 310, Alloy 601- inconel and other heat resistant alloys.

Specifications: 55 X 15 X 05 MM

Y-ANCHORS AND CROOK ANCHORS

We manufacture a comprehensive range of refractory anchors for the cement, steel and petrochemical industry - for the retaining of castable and brick linings. Y Anchors and Crook Anchors are offered for immediate dispatch. Various C Clips and Hangers for ceramic anchors to suit individual requirements.

Specifications

- 230 X 115 X 05 MM
- 200 X 100 X 05 MM
- 150 X 75 X 05 MM
- 75 X 25 X 05 MM
**U-BOLTS STANDARD**

We are able to provide any extensive range of U-Bolts. The precision engineered range of U-Bolts offered by us is at par with international quality standards and these are available in various grades, sizes, thicknesses, and dimensions as per the industry related application. Besides, we also offer these U-Bolts with extra long nuts and in full round, half round and square profiles on client’s request.

Diameter: M6 to M36
Duplex & Super Duplex: UNS31803, S32750.
Diameter: M6 to M36
Hastelloy: Hastelloy C-276, Hastelloy C-22.
Diameter: M6 to M20
Diameter: M6 to M20
Diameter: M6 to M20

**Features:**
- Accurate dimension
- Corrosion resistance
- High efficiency
- High tensile strength Durability

**Application Area:**
- Pipe clamping
- Foundation support
- Installations and automotive support systems

**RESIN ANCHOR BOLTS**

Resin Anchor Bolt Assemblies are used both in new structure as well as replacement uses in old berths. They are encapsulated in very high strength Epoxy Mortar, which, after inserting pre-packed bolt assembly in to the cavity prepared in jetty and pushing it with little force, breaks the resin capsule and allows to mix the part-a Resin with part-b Hardener to form solid bond between the bolt and concrete.

One Resin Anchor Bolt Assembly contains one no. Fender Fixing Stud, one no. Nut, one no. Chemical Resin Capsule and one no. loose Washer as per Fender type. Resin Anchor Assemblies are available in Stainless Steel as per requirement.

**DOUBLE END STUD BOLTS**

Diameter: M16 to M30 up to 1000 MM in Length
Duplex & Super Duplex: UNS31803, S32750.
Diameter: M16 to M30 up to 1000 MM in Length
Hastelloy: Hastelloy C-276, Hastelloy C-22.
Diameter: M16 to M30 up to 1000 MM in Length
Diameter: M16 to M30 up to 1000 MM in Length
Diameter: M16 to M30 up to 1000 MM in Length
Hex Bolts & Hex Screws DIN 931 / ISO4014 & DIN 933 / ISO4017

Our range of hex bolts & hex screws is widely used for high-end industrial purpose and automobile industry. These are acknowledged for wear & tear resistance, cost effectiveness, and long functional life. The Hex Head Bolts offered by us are at par with international quality standards. These are available in various shapes and sizes, and other customized forms as per client’s specifications and details. We offer these bolts in various grades to suit the application area at industry leading prices.

Diameter : M27 to M52 up to 500 MM in Length
Duplex & Super Duplex : UNS31803, S32750.
Diameter : M16 to M42 up to 300 MM in Length
Hastelloy : Hastelloy C-276, Hastelloy C-22.
Diameter : M8 to M27 up to 300 MM in Length
Diameter : M8 to M27 up to 300 MM in Length
Diameter : M8 to M27 up to 300 MM in Length

“b” measurement varies according to length of bolt

“All measurements in millimeters (mm)"

DIN 931 / ISO 4014

### DIMENSIONS OF HEX HEAD BOLTS / SCREWS

<table>
<thead>
<tr>
<th>Bolt Diameter (d1)</th>
<th>Thread Length over Full Length of Bolt (b to 125)</th>
<th>(b to 200)</th>
<th>(b Over 200)</th>
<th>Head Height (k)</th>
<th>Across Corner (e)</th>
<th>Across Flat (s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>M4</td>
<td>14</td>
<td>-</td>
<td>-</td>
<td>2.8</td>
<td>7.66</td>
<td>7</td>
</tr>
<tr>
<td>M5</td>
<td>16</td>
<td>-</td>
<td>-</td>
<td>3.5</td>
<td>8.79</td>
<td>8</td>
</tr>
<tr>
<td>M6</td>
<td>18</td>
<td>24</td>
<td>-</td>
<td>4</td>
<td>11.05</td>
<td>10</td>
</tr>
<tr>
<td>M8</td>
<td>22</td>
<td>28</td>
<td>-</td>
<td>5.3</td>
<td>14.38</td>
<td>13</td>
</tr>
<tr>
<td>M10</td>
<td>26</td>
<td>32</td>
<td>46</td>
<td>6.4</td>
<td>18.9</td>
<td>17</td>
</tr>
<tr>
<td>M12</td>
<td>30</td>
<td>36</td>
<td>49</td>
<td>7.5</td>
<td>21.1</td>
<td>19</td>
</tr>
<tr>
<td>M14</td>
<td>34</td>
<td>40</td>
<td>53</td>
<td>8.8</td>
<td>24.49</td>
<td>22</td>
</tr>
<tr>
<td>M16</td>
<td>38</td>
<td>44</td>
<td>57</td>
<td>10</td>
<td>26.75</td>
<td>24</td>
</tr>
<tr>
<td>M18</td>
<td>42</td>
<td>48</td>
<td>61</td>
<td>11.5</td>
<td>30.14</td>
<td>27</td>
</tr>
<tr>
<td>M20</td>
<td>46</td>
<td>52</td>
<td>66</td>
<td>12.5</td>
<td>33.53</td>
<td>30</td>
</tr>
<tr>
<td>M22</td>
<td>50</td>
<td>56</td>
<td>69</td>
<td>14</td>
<td>35.72</td>
<td>35</td>
</tr>
<tr>
<td>M24</td>
<td>54</td>
<td>60</td>
<td>73</td>
<td>15</td>
<td>39.98</td>
<td>36</td>
</tr>
<tr>
<td>M27</td>
<td>60</td>
<td>66</td>
<td>79</td>
<td>17</td>
<td>45.2</td>
<td>41</td>
</tr>
<tr>
<td>M30</td>
<td>66</td>
<td>72</td>
<td>86</td>
<td>18.7</td>
<td>50.85</td>
<td>46</td>
</tr>
<tr>
<td>M33</td>
<td>72</td>
<td>78</td>
<td>91</td>
<td>21</td>
<td>55.37</td>
<td>50</td>
</tr>
<tr>
<td>M36</td>
<td>78</td>
<td>84</td>
<td>97</td>
<td>22.5</td>
<td>60.79</td>
<td>55</td>
</tr>
<tr>
<td>M42</td>
<td>90</td>
<td>96</td>
<td>109</td>
<td>26</td>
<td>71.3</td>
<td>65</td>
</tr>
<tr>
<td>M45</td>
<td>96</td>
<td>102</td>
<td>115</td>
<td>28</td>
<td>76.95</td>
<td>70</td>
</tr>
<tr>
<td>M48</td>
<td>102</td>
<td>108</td>
<td>121</td>
<td>30</td>
<td>82.60</td>
<td>75</td>
</tr>
</tbody>
</table>
PLAIN WASHERS

We manufacture our range of Plain Washers in different size options, dimensions, and finishes to suit different industrial applications. These are in high demands in the competitive market owing to their dimensional accuracy, high tensile strength, abrasion resistance, flawless finish, and durability. Our range of Plain Washer is quality tested on well-defined parameters by our team of quality controllers. We also manufacture different types of washers as well i.e Tab Washers, Heavy Duty Washers, Tooth Washers, etc. To satisfy our clients fully, we also provide them with testing certificate. Our plain washers are also available in customized forms and at market competitive price.


Diameter: M6 to M72

Duplex & Super Duplex: UNS31803, S32750.

Diameter: M6 to M72

Hastelloy: Hastelloy C-276, Hastelloy C-22.

Diameter: M6 to M72


Diameter: M6 to M72


Diameter: M6 to M72

*All measurements in millimeters (mm)*

**Dimensions of Plain Washers / Spring Washers**

<table>
<thead>
<tr>
<th>Inner Diameter (d1)</th>
<th>For Thread Size</th>
<th>Outer Diameter</th>
<th>Washer Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.7</td>
<td>M1.6</td>
<td>4</td>
<td>0.3</td>
</tr>
<tr>
<td>2.2</td>
<td>M2</td>
<td>5</td>
<td>0.3</td>
</tr>
<tr>
<td>2.7</td>
<td>M2.5</td>
<td>6</td>
<td>0.5</td>
</tr>
<tr>
<td>3.2</td>
<td>M3</td>
<td>7</td>
<td>0.5</td>
</tr>
<tr>
<td>3.7</td>
<td>M1.5</td>
<td>8</td>
<td>0.5</td>
</tr>
<tr>
<td>4.3</td>
<td>M4</td>
<td>9</td>
<td>0.8</td>
</tr>
<tr>
<td>5.3</td>
<td>M5</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>6.4</td>
<td>M6</td>
<td>12</td>
<td>1.5</td>
</tr>
<tr>
<td>7.4</td>
<td>M7</td>
<td>14</td>
<td>1.6</td>
</tr>
<tr>
<td>8.4</td>
<td>M8</td>
<td>16</td>
<td>1.6</td>
</tr>
<tr>
<td>10.5</td>
<td>M10</td>
<td>20</td>
<td>2</td>
</tr>
<tr>
<td>13</td>
<td>M12</td>
<td>24</td>
<td>2.5</td>
</tr>
<tr>
<td>15</td>
<td>M14</td>
<td>28</td>
<td>2.5</td>
</tr>
<tr>
<td>17</td>
<td>M16</td>
<td>30</td>
<td>3</td>
</tr>
<tr>
<td>19</td>
<td>M18</td>
<td>34</td>
<td>3</td>
</tr>
<tr>
<td>21</td>
<td>M20</td>
<td>37</td>
<td>3</td>
</tr>
<tr>
<td>23</td>
<td>M22</td>
<td>39</td>
<td>3</td>
</tr>
<tr>
<td>25</td>
<td>M24</td>
<td>44</td>
<td>4</td>
</tr>
<tr>
<td>28</td>
<td>M27</td>
<td>50</td>
<td>4</td>
</tr>
<tr>
<td>31</td>
<td>M30</td>
<td>56</td>
<td>4</td>
</tr>
<tr>
<td>34</td>
<td>M33</td>
<td>60</td>
<td>5</td>
</tr>
<tr>
<td>37</td>
<td>M36</td>
<td>66</td>
<td>5</td>
</tr>
<tr>
<td>40</td>
<td>M39</td>
<td>72</td>
<td>6</td>
</tr>
<tr>
<td>43</td>
<td>M42</td>
<td>78</td>
<td>7</td>
</tr>
<tr>
<td>50</td>
<td>M48</td>
<td>92</td>
<td>8</td>
</tr>
<tr>
<td>54</td>
<td>M52</td>
<td>98</td>
<td>8</td>
</tr>
</tbody>
</table>

**DIN 125 / DIN 7089**

Email: sales@vihasteel.com  •  Web: www.vihasteel.com
HEXAGON THIN NUTS

We manufacture a comprehensive range of Hexagon Thin Nut. These nuts are fabricated using high-grade stainless steel, nickel alloy, and other useful material in compliance with international quality standards. The Hexagonal Thin Nuts offered by us are appreciated for stiffness, hardness, Rust proof, durability, and ability to withstand harsh weather conditions. Nuts are available in various sizes, lengths, thicknesses, dimensions and grades, which can be further custom made as required by our clients.

Diameter: M27 to M52
Duplex & Super Duplex: UNS31803, S32750.
Diameter: M16 to M100
Hastelloy: Hastelloy C-276, Hastelloy C-22.
Diameter: M8 to M36
Diameter: M8 to M36
Nickel Alloys: Inconel600, 601, 625, 718, 750, 800/800H, 825, 925,
Diameter: M8 to M36

DIMENSIONS OF HEX HEAD NUTS

<table>
<thead>
<tr>
<th>Size (d1)</th>
<th>Across Flat (s)</th>
<th>Across Corner (e)</th>
<th>Height (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>M1</td>
<td>2.5</td>
<td>2.72</td>
<td>0.8</td>
</tr>
<tr>
<td>M1.2</td>
<td>3</td>
<td>3.29</td>
<td>1.2</td>
</tr>
<tr>
<td>M1.4</td>
<td>3</td>
<td>3.29</td>
<td>1.2</td>
</tr>
<tr>
<td>M1.6</td>
<td>3.2</td>
<td>3.48</td>
<td>1.3</td>
</tr>
<tr>
<td>M1.7</td>
<td>3.5</td>
<td>3.82</td>
<td>1.4</td>
</tr>
<tr>
<td>M2</td>
<td>4</td>
<td>4.32</td>
<td>1.6</td>
</tr>
<tr>
<td>M2.3</td>
<td>4.5</td>
<td>4.95</td>
<td>1.8</td>
</tr>
<tr>
<td>M2.5</td>
<td>5</td>
<td>5.45</td>
<td>2</td>
</tr>
<tr>
<td>M2.6</td>
<td>5</td>
<td>5.51</td>
<td>2</td>
</tr>
<tr>
<td>M3</td>
<td>5.5</td>
<td>6.01</td>
<td>2.4</td>
</tr>
<tr>
<td>M3.5</td>
<td>6</td>
<td>6.01</td>
<td>2.8</td>
</tr>
<tr>
<td>M4</td>
<td>7</td>
<td>7.66</td>
<td>3.2</td>
</tr>
<tr>
<td>M5</td>
<td>8</td>
<td>8.76</td>
<td>4</td>
</tr>
<tr>
<td>M6</td>
<td>10</td>
<td>11.05</td>
<td>5</td>
</tr>
<tr>
<td>M7</td>
<td>11</td>
<td>12.12</td>
<td>5.5</td>
</tr>
<tr>
<td>M8</td>
<td>13</td>
<td>14.38</td>
<td>6.5</td>
</tr>
<tr>
<td>M10</td>
<td>17</td>
<td>18.9</td>
<td>8</td>
</tr>
<tr>
<td>M12</td>
<td>19</td>
<td>21.1</td>
<td>10</td>
</tr>
<tr>
<td>M14</td>
<td>22</td>
<td>24.49</td>
<td>11</td>
</tr>
<tr>
<td>M16</td>
<td>24</td>
<td>26.75</td>
<td>13</td>
</tr>
<tr>
<td>M18</td>
<td>27</td>
<td>29.56</td>
<td>15</td>
</tr>
<tr>
<td>M20</td>
<td>30</td>
<td>32.95</td>
<td>16</td>
</tr>
<tr>
<td>M22</td>
<td>32</td>
<td>35.03</td>
<td>18</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Size (d1)</th>
<th>Across Flat (s)</th>
<th>Across Corner (e)</th>
<th>Height (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>M2436</td>
<td>39.55</td>
<td>19</td>
<td></td>
</tr>
<tr>
<td>M27</td>
<td>41</td>
<td>45.2</td>
<td>22</td>
</tr>
<tr>
<td>M30</td>
<td>46</td>
<td>50.65</td>
<td>24</td>
</tr>
<tr>
<td>M33</td>
<td>50</td>
<td>55.37</td>
<td>26</td>
</tr>
<tr>
<td>M36</td>
<td>55</td>
<td>60.79</td>
<td>29</td>
</tr>
<tr>
<td>M39</td>
<td>60</td>
<td>66.44</td>
<td>31</td>
</tr>
<tr>
<td>M42</td>
<td>65</td>
<td>71.3</td>
<td>32</td>
</tr>
<tr>
<td>M45</td>
<td>70</td>
<td>76.95</td>
<td>36</td>
</tr>
<tr>
<td>M48</td>
<td>75</td>
<td>82.6</td>
<td>38</td>
</tr>
<tr>
<td>M52</td>
<td>80</td>
<td>88.25</td>
<td>42</td>
</tr>
<tr>
<td>M56</td>
<td>85</td>
<td>95.07</td>
<td>45</td>
</tr>
<tr>
<td>M60</td>
<td>90</td>
<td>100.72</td>
<td>48</td>
</tr>
<tr>
<td>M64</td>
<td>95</td>
<td>106.37</td>
<td>51</td>
</tr>
<tr>
<td>M66</td>
<td>100</td>
<td>112.02</td>
<td>54</td>
</tr>
<tr>
<td>M68</td>
<td>105</td>
<td>117.67</td>
<td>58</td>
</tr>
<tr>
<td>M72</td>
<td>110</td>
<td>123.32</td>
<td>61</td>
</tr>
<tr>
<td>M76</td>
<td>115</td>
<td>128.97</td>
<td>64</td>
</tr>
<tr>
<td>M80</td>
<td>120</td>
<td>133.11</td>
<td>68</td>
</tr>
<tr>
<td>M85</td>
<td>130</td>
<td>145.77</td>
<td>72</td>
</tr>
<tr>
<td>M90</td>
<td>135</td>
<td>151.42</td>
<td>76</td>
</tr>
<tr>
<td>M95</td>
<td>145</td>
<td>162.72</td>
<td>80</td>
</tr>
</tbody>
</table>

* All measurements in millimeters (mm)*

DIN 439 / ISO 4035
Wedge Bolts

Wedge Bolts are generally employed to fix the Fender to a new wharfs or jetties to be constructed. One Anchor Bolt Assembly contains one no. Fender Fixing Bolt, one no. cast in Sleeve with back side extension Rod welded with end Flange and front side Flange and one no. loose Washer as per Fender type. The sleeves are cast integrally with the structure to ensure maximum strength, these sleeve can be supplied in Stainless Steel as per requirement.

They are very simple in design and user friendly. They are fixed with centering planks before casting of Fender Block, as per centre distances / template. If required we may also supply Anchor Bolts duly fixed in template as per center distance.

Resin Anchor Bolts

Resin Anchor Bolt Assemblies are used both in new structure as well as replacement uses in old berths. They are encapsulated in very high strength Epoxy Mortar, which, after inserting pre-packed bolt assembly in to the cavity prepared in jetty and pushing it with little force, breaks the resin capsule and allows to mix the part-a Resin with part-b Hardener to form solid bond between the bolt and concrete. One Resin Anchor Bolt Assembly contains one no. Fender Fixing Stud, one no. Nut, one no. Chemical Resin Capsule and one no. loose Washer as per Fender type. Resin Anchor Assemblies are available in Stainless Steel as per requirement.

Finder to Frame Fixing Bolts

Stainless Steels Material Grade : 304 & 316
DOCK ACCESSORIES

U-Hooks

U Hooks are available both in MS and SS in different grades. These hooks are required for fixing of Chains for Fenders / Fendering Systems in New Wharf / Jetty or Structures.

U Hooks are available from 12 mm Diameter to 100 mm Diameter as per requirement. These Hooks can also be used as an anchor for Mooring Rings.

Anchor Bolts

Anchor Bolt Assemblies are generally employed to fix the Fender to a new wharfs or jetties to be constructed. One Anchor Bolt Assembly contains one no. Fender Fixing Bolt, one no. cast in Sleeve with back side extension Rod welded with end Flange and front side Flange and one no. loose Washer as per Fender type. The sleeves are cast integrally with the structure to ensure maximum strength, these sleeve can be supplied in Stainless Steel as per requirement.

They are very simple in design and user friendly. They are fixed with centering planks before casting of Fender Block, as per centre distances / template. If required we may also supply Anchor Bolts duly fixed in template as per center distance.
MATERIAL GRADES

EXOTIC ALLOYS
904L, A-286, Alloy20, Alloy 50, Nitronic Alloy 50, Titanium

HASTELLOY
Hastelloy C-276, Hastelly C-22

NICKEL ALLOYS
Inconel 600, Inconel 601, Inconel 625, Inconel 718,
Inconel 800/800H, Inconel 825, Inconel 925, Inconel 750,
Monel 400, Monel 405, Monel K-500, Nickel

PH GRADES
13-8PH, 17-4 PH, 17-7 PH, 15-5 PH

DUPLEX / SUPER DUPLEX
660 A, 660 B, UNS 31803, S 32750, S 32760

STAINLESS STEELS
304, 304L, 309, 310, 316, 316L, 317,
317L, 321, 347, 410, 416, 430, 501

ALUMINIUM
Aluminium 2024, Aluminium 6061
Hex Bolts & Hex Screws DIN 931 / ISO4014 & DIN 933/ISO4017

Our range of Hex Bolts & Hex Screws are is widely used for high-end industrial purpose and automobile industry. These are acknowledged for wear & tear resistance, cost effectiveness, and long functional life. The Hex Head Bolts offered by us are at par with international quality standards. These are available in various shapes and sizes, and other customized forms as per client’s specifications and details. We offer these bolts in various grades to suit the application area at industry Competitive prices.


Diameter: M27 to M52 up to 500 MM in Length
Duplex & Super Duplex: UNS31803, S32750.
Diameter: M16 to M42 up to 300 MM in Length
Hastelloy: Hastelloy C-276, Hastelloy C-22.
Diameter: M8 to M27 up to 300 MM in Length
Diameter: M8 to M27 up to 300 MM in Length
Diameter: M8 to M27 up to 300 MM in Length

T-Head Bolts

These bolts are fabricated in compliance with international quality standards. Our range of T-Head Bolts is quality tested on various parameters to ensure defect free assortment reaches at client’s end. T-Head Bolts offered by us are widely used in various sectors such as refineries, petrochemicals, pesticides, fertilizers and many more. These are highly acknowledged for their salient features such as accurate construction, heat and moisture resistance, efficient performance and long functional life. Our range of T-Head Bolts is precision engineered in T-head shapes, and is available in custom made specifications as per customer’s requirements.

Diameter: M16 to M42 up to 300 MM in Length
Exotics: 904L, A-286, Alloy20, Alloy50, Nitronic Alloy50, Titanium
Diameter: M16 to M42 up to 300 MM in Length

Email: sales@vihasteel.com • Web: www.vihasteel.com
STONE CALDDING CLAMPS

Marble Fixing System

Stainless Steels Material Grade: 304 & 316

Sleeve Anchor

Product Detail
we are produce the stainless steel anchor, wedge anchor, sleeve anchor, bolt anchor and so on,
Stainless Steel Material Grade: is s.s 304, s.s 316

Wedge Anchor

Stainless Steels Material Grade: 304 & 316
Hexagonal Nut

Hexagon Nuts are Designed to perfection, these nuts possess close tolerance and precision dimensions. Our quality controllers undertake stringent quality measures in order to provide our clients a flawless range of nuts. Further, to retain the trust of our valued clients, we also provide them with certificate regarding testing parameters undertaken by our organization. We offer our range of Hexagon Nuts in various sizes, thicknesses & dimensions, and material grades. These nuts meet the requirements of hardware, engineering, electrical and various other industries. We also customize our range of Hexagonal Nuts to meet the different requirements of our clients. Further, our range can be availed at market competitive prices.


**Diameter:** M27 to M52

**Duplex & Super Duplex:** UNS 31803, S 32750.

**Diameter:** M16 to M52

**Hastelloy:** Hastelloy C-276, Hastelloy C-22.

**Diameter:** M8 to M27

**Exotics:** 904L, A-286, Alloy 20, Alloy 50, Nitronic Alloys 50, Titanium.

**Diameter:** M8 to M27

**Nickel Alloys:** Inconel 600, 601, 625, 718, 750, 800/800H, 825, 925, Monel 400, 405, K-500 & Nickel 200.

**Diameter:** M8 to M27

Hexagon Domed Cap Nuts

Our range is widely used in wheels, steering columns and body exposed parts. These are appreciated for excellent durability, high temperature resistance and capability to withstand chemicals. We offer our range of Hexagon Nuts in various shapes, sizes, dimensions, and grades. Moreover, with the assistance of our team of professionals, we are able to meet the various requirements of clients. To provide these nuts in appropriate condition to our clients, we package these nuts using quality packaging material.

Email: sales@vihasteel.com  ●  Web: www.vihasteel.com
U-Bolts Standard

We are able to provide extensive range of U-Bolts. The precision engineered range of U-Bolts offered by us are at par with international quality standards and available in various grades, sizes, thicknesses, and dimensions as per the industry related application. Besides, we also offer these U-Bolts with extra long nuts and in full round, half round and square profiles on client’s request.

**Diameter** : M6 to M36
**Duplex & Super Duplex** : UNS31803, S32750.
**Diameter** : M6 to M36
**Hastelloy** : Hastelloy C-276, Hastelloy C-22.
**Diameter** : M6 to M20
**Diameter** : M6 to M20
**Diameter** : M6 to M20

**Features** :
- Accurate dimension
- Corrosion resistance
- High efficiency
- High tensile strength Durability

**Application Area** :
- Pipe clamping
- Foundation support
- Installations and automotive support systems

Foundation Bolts

We are engaged in providing a precision engineered range of Foundation Bolts to our clients based across the globe. These bolts are manufactured using high quality raw material and as per the latest technical developments. We offer our range of Foundation Bolts in various sizes, thicknesses, lengths, and material. These are extensively used in numerous industrial sectors. Our wide assortment of Foundation Bolts is highly appreciated for its excellent tensile strength, durability, and dimensional accuracy. These corrosion resistance bolts are in high demand among our clients spread in different parts of the world. We are successful in catering to the diverse requirements of our clients as we also offer customization facility. Moreover our range of Foundation Bolts is available at market competitive prices.

**RANGE** : M10 to M100, length upto 5 meters

**NICKEL ALLOY**

**Standard** : ASTM / ASME SB 160 / 164 / 425 / 166 / 446 / 574 / 472
**Grade** : UNS 2200 (NICEL 200) / UNS 2201 (NICEL 201), UNS 4400 (MONEL 400), UNS 8825 (INCONEL 825), UNS 6600 (INCONEL 600) / UNS 6601 (INCONEL 601), UNS 6625 (INCONEL 625), UNS 10276 (HADELLOY C 276), UNS 8020 (ALLOY 20 / 20 CB 3)

**STAINLESS STEEL**

**Standard** : ASTM / ASME A/SA 193 / 194
**Grade** : B 8 (304), B 8C (SS 347), B 8M (SS 316), B 8 T (SS 321), A 2, A 4

**ALLOY STEEL**

**Standard** : ASTM / ASME A/SA 193 / 194 Gr.
**Grade** : B 6, B 7/B 7M, B 16, 2, 2HM, 2H, GR 6, B 7, B 7M.

**Test Certificate** : manufacturer test certificate as per en 10204 / 3.1b

**Contact Information**

Email : sales@vihasteel.com  Web : www.vihasteel.com
Hexagon Thin Nuts

We manufacture a comprehensive range of Hexagon Thin Nut. These nuts are fabricated using high-grade stainless steel, nickel alloy, and other useful material in compliance with International quality standards. The Hexagonal Thin Nuts offered by us are appreciated for stiffness, hardness, durability, and ability to withstand harsh weather conditions. Reliable and rust proof nuts are available in various sizes, lengths, thicknesses, dimensions and grades, which can be further custom made as required by our clients. Our range of Hexagon Thin Nut is widely used in heavy duty applications and various other industrial purposes.

**Diameter:** M27 to M52
**Duplex & Super Duplex:** UNS31803, S32750.
**Diameter:** M16 to M52
**Hastelloy:** Hastelloy C-276, Hastelloy C-22.
**Diameter:** M8 to M27
**Exotics:** 904L, A-286, Alloy20, Alloy50, NitronicAlloys50, Titanium.
**Diameter:** M8 to M27
**Nickel Alloys:** Inconel600, 601, 625, 718, 750, 800/800H, 825, 925, Monel 400, 405, K-500 & Nickel 200.
**Diameter:** M8 to M27

Threaded Rods:
**DIN 975 & DIN 976**

**Diameter:** M3 to M70 From 10MM to 3000MM
**Duplex & Super Duplex:** UNS31803, S32750.
**Diameter:** M3 to M70 From 10MM to 1000MM
**Hastelloy:** Hastelloy C-276, Hastelloy C-22.
**Diameter:** M3 to M36 From 10MM to 1000MM
**Exotics:** 904L, A-286, Alloy20, Alloy50, NitronicAlloys50, Titanium.
**Diameter:** M3 to M36 From 10MM to 1000MM
**Nickel Alloys:** Inconel600, 601, 625, 718, 750, 800/800H, 825, 925, Monel 400, 405, K-500 & Nickel 200.
**Diameter:** M3 to M36 From 10MM to 1000MM
Refractory Anchor

SS Refractory Anchors are manufactured from good grades of steel and have found applications in various industries. Some of the industries are cement, ceramic, steel, thermal, petrochemical, power and many more. The Stainless Steel Refractory Anchors offered by us are available in assortment of shapes and sizes but usually they are in the shape of Y, U and V. In addition to this, we provide availability of Refractory Anchors in unlike specifications as per the preferences of global clients. We are tagged as one of the most illustrious Industrial Refractory Anchors Suppliers from India. To enquire about the desired product(s)

Chemical Composition of Stainless Steel

<table>
<thead>
<tr>
<th>Chemical Composition Per Cent/ Grade</th>
<th>C % Max</th>
<th>Mn % Max</th>
<th>P % Max</th>
<th>S % Max</th>
<th>Si % Max</th>
<th>Cr % N% Max</th>
<th>N% Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>304</td>
<td>0.08</td>
<td>0.03</td>
<td>2.00</td>
<td>0.045</td>
<td>0.030</td>
<td>1.00</td>
<td>0.75</td>
</tr>
<tr>
<td>304-L</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>18.00 to 20.00</td>
<td>08.00 to 10.00</td>
</tr>
<tr>
<td>310</td>
<td>0.25</td>
<td>0.08</td>
<td>2.00</td>
<td>0.045</td>
<td>0.030</td>
<td>1.00</td>
<td>0.75</td>
</tr>
<tr>
<td>310S</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>24.00 to 26.00</td>
<td>19.00 to 22.00</td>
</tr>
</tbody>
</table>

Temperature Resistant of Anchor Metal

<table>
<thead>
<tr>
<th>Anchor Metal</th>
<th>Temperature Resistant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mild Steel [MS]</td>
<td>540 Degree C</td>
</tr>
<tr>
<td>Stainless Steel 304</td>
<td>1080 Degree C</td>
</tr>
<tr>
<td>Stainless Steel 310</td>
<td>1350 Degree C</td>
</tr>
</tbody>
</table>

Spiral-Y-Anchors

We are specialized in manufacturing superior quality Spiral Y-Anchors, these are widely used in various industrial applications.

Specifications
- 215 X 145 X 5 MM
- 190 X 45 X 5 MM.
- 185 X 105 X 5 MM.
- 175 X 30 X 5 MM.
- 155 X 70 X 5 MM.
- 90 X 30 X 5 MM.
- 80 X 30 X 5 MM.

U-Anchors

We manufacture and export superior quality U-Anchors, these can be availed in various specifications like:

- 55 X 16 X 05 MM.
- 225 X 27 X 05 MM.
- Wing Nut Type

V-Anchors

We are manufacturer & supplier of V-Anchor, to match all types of lining for cement, ceramic, steel, petrochemical, refinery industry for the retaining of monolithic, ceramic fiber and brick linings. Our anchors are suitable for single & dual layer lining, brick, ceramic, fiber and monolithic. All refractory anchors made from stainless steel [SS] 304, 310, Alloy 601- inconel and other heat resistant alloys.

Specifications:
- 55 X 15 X 05 MM

Y-Anchors and Crook Anchors

We manufacture a comprehensive range of refractory anchors for the cement, steel and petrochemical industry for the retaining of castable and brick linings. Y Anchors and Crook Anchors are offered for immediate dispatch. Various C Clips and Hangers for ceramic anchors to suit individual requirements.

Specifications
- 230 X 115 X 05 MM.
- 200 X 100 X 05 MM.
- 150 X 75 X 05 MM.
- 75 X 25 X 05 MM.
Hexagon Socket Set Screws With Dog Point


**Diameter**: M6 to M27 up to 200 MM in Length

**Duplex & Super Duplex**: UNS31803, S32750.

**Diameter**: M6 to M27 up to 100 MM in Length

**Hastelloy**: Hastelloy C-276, Hastelloy C-22.

**Diameter**: M6 to M27 up to 100 MM in Length


**Diameter**: M6 to M27 up to 100 MM in Length


**Diameter**: M6 to M27 up to 100 MM in Length

---

Hexagon Socket Set Screws With Cup Point


**Diameter**: M6 to M27 up to 200 MM in Length

**Duplex & Super Duplex**: UNS31803, S32750.

**Diameter**: M6 to M27 up to 100 MM in Length

**Hastelloy**: Hastelloy C-276, Hastelloy C-22.

**Diameter**: M6 to M27 up to 100 MM in Length


**Diameter**: M6 to M27 up to 100 MM in Length


**Diameter**: M6 to M27 up to 100 MM in Length
Plain Washers

We manufacture range of Plain Washers in different size options, dimensions, and finishes to suit different industrial applications. These are in high demands in the competitive market owing to their dimensional accuracy, high tensile strength, abrasion resistance, flawless finish, and durability. Our range of Plain Washer is quality tested on well defined parameters by our team of quality controllers. We also manufacture different types of washers as well i.e Tab Washers, Heavy Duty Washers, Tooth Washers, etc. To satisfy our clients fully, we also provide them with testing certificate. Our plain washers are also available in customized forms and at market competitive price.

**Diameter**: M6 to M72
**Duplex & Super Duplex**: UNS31803, S32750.
**Diameter**: M6 to M72
**Hastelloy**: Hastelloy C-276, Hastelloy C-22.
**Diameter**: M6 to M72
**Diameter**: M6 to M72
**Diameter**: M6 to M72

Double End Stud Bolts

**Diameter**: M16 to M30 up to 1000 MM in Length
**Duplex & Super Duplex**: UNS31803, S32750.
**Diameter**: M16 to M30 up to 1000 MM in Length
**Hastelloy**: Hastelloy C-276, Hastelloy C-22.
**Diameter**: M16 to M30 up to 1000 MM in Length
**Diameter**: M16 to M30 up to 1000 MM in Length
**Diameter**: M16 to M30 up to 1000 MM in Length
Socket Head Allen Cap Screws


**Diameter**: M24 to M36 up to 300 MM in Length

**Duplex & Super Duplex**: UNS31803, S32750.

**Diameter**: M8 to M36 up to 300 MM in Length

**Hastelloy**: Hastelloy C-276, Hastelloy C-22.

**Diameter**: M8 to M36 up to 300 MM in Length


**Diameter**: M8 to M36 up to 300 MM in Length


**Diameter**: M8 to M36 up to 300 MM in Length

---

Socket Head Cap Screws Low Head


**Diameter**: M16 to M27 up to 200 MM in Length
Hexagon Socket Set Screws With Flat Point


**Diameter**: M6 to M27 up to 200 MM in Length

**Duplex & Super Duplex**: UNS31803, S32750.

**Diameter**: M6 to M27 up to 100 MM in Length

**Hastelloy**: Hastelloy C-276, Hastelloy C-22.

**Diameter**: M6 to M27 up to 100 MM in Length


**Diameter**: M6 to M27 up to 100 MM in Length


**Diameter**: M6 to M27 up to 100 MM in Length

---

Hexagon Socket Set Screws With Cone Point


**Diameter**: M6 to M27 up to 200 MM in Length

**Duplex & Super Duplex**: UNS31803, S32750.

**Diameter**: M6 to M27 up to 100 MM in Length

**Hastelloy**: Hastelloy C-276, Hastelloy C-22.

**Diameter**: M6 to M27 up to 100 MM in Length


**Diameter**: M6 to M27 up to 100 MM in Length


**Diameter**: M6 to M27 up to 100 MM in Length
OFFICE NO: Plot No.2, Ground Floor, Gardan Chs. Ltd., Bhajekar Street, Khetwadi Main Road, Opp. 11 Khetwadi Main Road, Mumbai - 400 004, Maharashtra (INDIA)

Tel.: +91 22 6555 4666  Fax: +91 22 6658 1601
Mob.: +91 9702472746  Skype: VIHASTEEL
Email: sales@vihasteel.com  Web.: www.vihasteel.com

ONE ROOF FACILITY - MFG. OF FITTINGS, FLANGES, OLETS, NUT BOLTS, SUPPLY OF PIPES, DESIGN, COATING & TESTING