

## **UNILOC FASTENERS**

AN ISO 9001 : 2008 CERTIFIED COMPANY

Manufacturers & Exporters of

**Fasteners, High Tensile &  
Stainless Steel Standard & Specials  
Forged & Machined Parts**

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## About us :

We introduce our self as an ISO 9001-2008 certified company established in 1987, engaged in manufacturing and exports of High Tensile Automotive & Industrial Fasteners. Our products also include stainless steel standards and specials, forged and machine parts.

We are located in Vasai industrial area, Thane Maharashtra. Our Product Range Include Hex head & Socket head Bolt, Studs from Dia 12mm to 64 mm & Dia 1/2" to 2" and thread length / total length of the fasteners are standards and as per client's requirements. We have in house Hot Forging Press, Machine Shop, Heat Treatment Plant, Surface Treatment Plant, Shot blasting machine and testing lab with facility for crack testing.

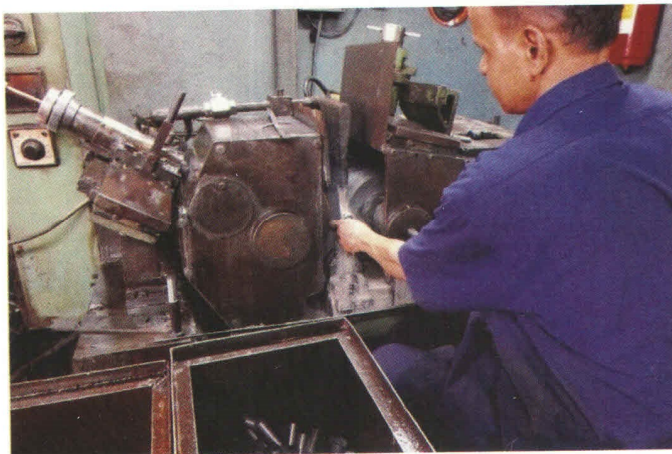
Raw materials are purchase only from approved manufacturers, with test certificates to check the mechanical and chemical properties. Only annealed, peeled, drawn and ground bars are used to avoid even the surface cracks and also to maintain concentricity. We have a qualified and highly experienced team of engineers, technical and administrative staff involved in companies day to day activities.

## Clients:

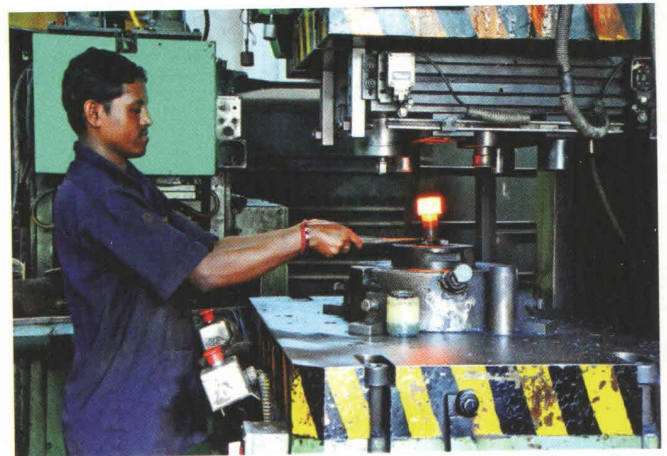
Our clients include various equipment manufacturers, automotive industries, collete manufacturers, cement plant, construction companies and industrial fasteners dealers local and abroad.

## Quality Policy:

Our approach to quality is based on the participation of all the members of the company. We are Committed to provide products and service to meet customer's requirement and achieve total customer satisfaction. Our never ending quest for supreme quality is the back bone of our success. We shall endeavour to achieve this through continual improvement in all areas of management, enhancing, employees and supplier participation with sole motto **"QUALITY EVERYWHERE"**



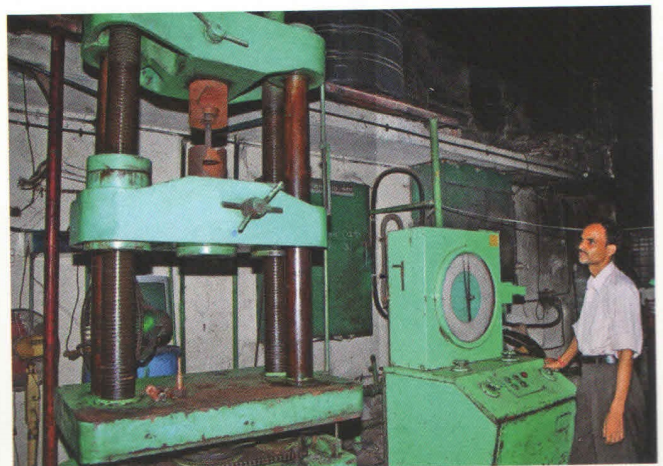
Centerless Grinding.



Forging



Heat Treatment Plant



Tensile Testing





## Product Range :

### Socket Head Cap Screw :

#### Metrics Series:

Generally conforming to IS: 2269, DIN 912 ISO: 4762

Property class 12.9 as per IS 1367, ISO898 part 1

#### Inch series:

Generally conforming to BS: 2470

Mechanical property as per BS 2470



### Hex Head Bolts :

#### Metric Series:

Generally conforming to IS: 1364, ISO: 4014, DIN 931/933

Thread as per IS: 4218, ISO metric 6g. &

property class 10.9 as per IS: 1367.

#### Inch Series:

Generally conforming to ANSI B 18.2.1 for BS:1083

Thread UNC 2A as per ANSI B1.1 for BSF BS: 84

Mechanical Properties grade 8 as SAE J429 for BSF BS: 1083.



#### High Strength structural Bolts:

As per IS: 3757, property class 10.9

Nuts: IS 6623, Washer: IS 6649

### Special Components :

special forged items like

Square Head Bolt, D Bolt, T Bolt, Liner Bolt,

Track shoe Bolt in grades 8.8, 10.9, 12.9 are manufactured



### Studs & Nuts :

Nuts with metric threads as per IS:1364, ISO 4032 &

Nuts with UNC threads (ANSI B 18.2.2)

#### Studs & Nut Heavy Hex:

Generally conforming to ASTM A193 grade B7 &

A 194 Grade 2H



## MECHANICAL PROPERTIES OF BOLTS, SCREWS AND STUDS

Mechanical Properties	8.8 <M 16	8.8 >M 16	9.8	10.9	12.9
Tensile Strength, R <sub>m</sub> , N/mm <sup>2</sup>					
Nom	800	800	900	1000	1200
Min	800	830	900	1040	1220
Vickers hardness, HV, F>98 N					
Min	250	255	290	320	385
Max	320	335	360	380	435
Brinell hardness, HB, F=30D <sup>2</sup>					
Min	238	242	276	304	366
Max	304	318	342	361	414
Rockwell hardness, HRC					
Min	22	23	28	32	39
Max	32	34	37	39	44
Surface hardness, HV 0,3					
Max	320	356	380	402	454
Proof Stress, R <sub>p</sub> 0.2, N/mm <sup>2</sup>					
Nom	640	640	720	900	1080
Min	640	660	720	940	1100
Stress under proof load, S <sub>p</sub> S <sub>p</sub> /R <sub>p</sub> 0.2					
N/mm <sup>2</sup>	0.91	0.91	0.90	0.88	0.88
	580	600	650	830	970
Elongation after fracture, A					
Min	12	12	10	9	8
Area Reduction %					
Min	49	49	48	48	44
Impact Strength, J					
Min	30	30	25	27	15
Head Soundness	No fracture				
Minimum height of non - decarburized thread zone, E	½ H1		2/3 H1		¾ H1
Maximum depth of complete decarburization, G	0.015				



An ISO 9001 : 2008

# UNILOC FASTENERS

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