

# ONE VISION MANY WORLDS



**STAINLESS STEEL FASTENERS**



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The Viraj fasteners division is specialised in the manufacturing of stainless steel fasteners products. Viraj has sophisticated, state-of-the-art machines employed for production and stringent quality controls that ensure flawless quality. SPC analysis is used as a tool to supervise the ongoing processes. We have an in-house facility for inspection and testing to produce world class quality products. Multi stage inspection checks by a trained and skilled workforce ensures that defect free products are delivered to customers. Our product range consists of more than 20,000 SKUs. Our customers span six continents and include the market leaders in every geography. Since its inception in 2006, the Viraj fastener division has become a world leader in the manufacturing of stainless steel fasteners and is a reputed brand worldwide.



**Grades :** 304, 304L, 316, 316L, 316Ti, 200 series, Alloy group A2 and A4.

**Property Class :**

**For Bolt & Screws :** A2-70, A2-80, A4-70, A4-80, F593C, F593D, F593G, F593H.

**For Nut:** A2-70, A2-80, A4-70, A4-80, F594C, F594D, F594G, F594H, A2-035, A4-040.

**For SHCS:** F837B, F837C, F837E, F837.

**For Threaded rod:** A2-70, A2-80, A4-70, A4-80, F593C, F593D, F593G, F593H, B8, B8M CLI & CL2.

**Product Range**

Hexagon Head Bolt				Hexagon Head Screw			
DIN 931/ISO 4014		ANSI B 18.2.1		DIN 933/ISO 4017		ANSI B 18.2.1	
Size	Length	Size	Length	Size	Length	Size	Length
-	-	1/4"	1 1/4" - 6"	-	-	1/4"	3/8" - 6"
-	-	5/16"	1 1/4" - 7"	-	-	5/16"	1/2" - 7"
M5	25-100	3/8"	1 1/2" - 10"	M5	10-70	3/8"	5/8" - 8"
M6	25-150	7/16"	1 3/4" - 6"	M6	10-150	7/16"	3/4" - 6"
M8	30-180	1/2"	1 7/8" - 10"	M8	10-180	1/2"	3/4" - 8"
M10	35-250	9/16"	2" - 8"	M10	16-200	9/16"	1" - 8"
M12	40-250	5/8"	2" - 10"	M12	20-200	5/8"	1" - 8"
M14	45-250	3/4"	2 5/8" - 10"	M14	25-200	3/4"	1 1/2" - 8"
M16	50-250	7/8"	2 3/4" - 10"	M16	25-200	7/8"	1 1/2" - 8"
M18	60-250	1"	3 1/4" - 10"	M18	40-200	1"	1 3/4" - 8"
M20	60-250	1 1/8"	4" - 14"	M20	40-200	1 1/8"	2" - 8"
M22	70-250	1 1/4"	4" - 14"	M22	40-200	1 1/4"	2-1/2" - 8"
M24	80-250	1 3/8"	4 1/2" - 14"	M24	40-200	1 3/8"	3" - 8"
M27	90-350	1 1/2"	4 1/2" - 14"	M27	50 - 200	1 1/2"	3" - 8"
M30	90-350	-	-	M30	50-200	-	-
M33	110-350	-	-	M33	70-200	-	-
M36	110-350	-	-	M36	80-200	-	-

**Hexagon Socket Head Cap Screw**

DIN912/ISO4762			ANSI B 18.3		
Size	Length		Size	Length	
	F/T	H/T		F/T	H/T
-	-	-	1/4"	3/8" - 4"	1 1/2" - 6"
-	-	-	5/16"	1/2" - 6"	1 3/4" - 6"
-	-	-	3/8"	5/8" - 6"	1 3/4" - 6"
M6	10 - 100	35 - 150	7/16"	3/4" - 6"	2" - 6"
M8	12 - 160	40 - 160	1/2"	3/4" - 6"	2 1/4" - 6"
M10	16 - 150	45 - 150	5/8"	1 1/4" - 6"	2 1/2" - 6"

M12	20 - 150	55 - 150	3/4"	2" - 8"	3" - 8"
M14	30 - 150	60 - 150	7/8"	2" - 8"	3 1/4" - 8"
M16	30 - 150	65 - 150	1"	2" - 8"	3 1/2" - 8"
M18	50 - 200	70 - 200	-	-	-
M20	50 - 200	80 - 200	-	-	-
M22	50 - 200	80 - 200	-	-	-
M24	50 - 200	90 - 200	-	-	-

### Round Head Square Neck Bolt or Carriage Bolt

#### DIN 603

#### ANSI B 18.5

Size	Length	Size	Length	
			F/T	H/T
M 5	16 - 65	1/4"	5/8" - 3"	1-1/4" - 4"
M 6	16 - 75	5/16"	3/4" - 4"	1-1/2" - 6"
M 8	20 - 100	3/8"	3/4" - 4"	1-3/4" - 6"
M 10	20 - 100	-		
M 12	30 - 100			
M 16	55 - 130			

### Hex Wood/Lag Screw

#### DIN 571

#### ANSI B 18.2.1

Size	Length	Size	Length
M5	25 - 70	1/4"	1" - 3"
M6	25 - 100	5/16"	1" - 4"
M8	30 - 150	3/8"	1" - 4"
M10	40 - 150	-	-
M12	45 - 150	-	-

### Hexagon Socket Button Head Screw

#### ISO7380-1

#### ANSI B 18.3

Size	Length	Size	Length
M3	10 - 40	#6	3/8" - 1 1/2"
M4	10 - 50	#8	3/8" - 2"
M5	10 - 60	#10	3/8" - 2 1/4"
M6	10 - 100	1/4"	3/8" - 4"
M8	12 - 150	5/16"	1/2" - 6"
M10	16 - 150	3/8"	5/8" - 6"
M12	20 - 150	1/2"	3/4" - 6"

### Hexagon Socket Flange Button Head Screw

#### ISO7380-2

Size	Length	Size	Length
M3	10 - 40	M8	12 - 150
M4	10 - 50	M10	16 - 150
M5	10 - 60	M12	20 - 150
M6	10 - 100		

### Hexagon Socket Countersunk Head Cap Screw

#### DIN7991/ISO10642

#### ANSI B 18.3

Size	Length		Size	Length	
	F/T	H/T		F/T	H/T
M3	10 - 40	25 - 40	#5	3/8" - 1 1/2"	
M4	10 - 50	30 - 50	#6	3/8" - 1 1/2"	1 1/4" - 1 1/2"
M5	10 - 75	35 - 75	#8	3/8" - 2"	1 1/4" - 2"
M6	10 - 100	40 - 100	#10	1/2" - 2"	1 1/2" - 2 1/2"
M8	12 - 150	50 - 150	1/4"	1/2" - 4"	1 3/4" - 4"
M10	16 - 200	50 - 200	5/16"	1/2" - 4"	2" - 6"
M12	20 - 200	60 - 200	3/8"	5/8" - 6"	2 1/4" - 8"
M14	40 - 200	60 - 200	1/2"	1" - 6"	2 1/2" - 8"
M16	40 - 200	70 - 200	5/8"	1 5/8" - 8"	3 1/4" - 8"
M18	40 - 200	70 - 200	3/4"	1 5/8" - 8"	3 1/2" - 8"
M20	40 - 200	80 - 200	-	-	-

### Slotted CSK Head Screw

#### DIN 963

Size	Length
M3	10 - 40
M4	10 - 50
M5	10 - 60
M6	10 - 80

### Slotted Raised CSK Oval Head Screw

#### DIN 964

Size	Length
M3	10 - 40
M4	10 - 50
M5	10 - 60
M6	10 - 80

### Slotted Chesse Head Screw

#### DIN 84

Size	Length
M3	10 - 40
M4	10 - 50
M5	10 - 60
M6	10 - 80

### Slotted Pan Head Screw

#### DIN 85

Size	Length
M3	10 - 40
M4	10 - 50
M5	10 - 60
M6	10 - 80

### Cross Recessed CSK Flat Head Screw

#### DIN 965 (TYPE H & Z)

Size	Length
M3	10 - 40
M4	10 - 50
M5	10 - 75
M6	10 - 100
M8	12 - 150

### Cross Recessed Raised CSK Oval Head Screw

#### DIN 966 (TYPE H & Z)

Size	Length
M3	10 - 40
M4	10 - 50
M5	10 - 75
M6	10 - 100
M8	12 - 150

### Cross Recessed Raised Cheese Head Screw

#### DIN 7985 (TYPE H&Z)

Size	Length
M3	10 - 40
M4	10 - 50
M5	10 - 75
M6	10 - 100
M8	12 - 150

M10	16 - 150	M10	16 - 150	M10	16 - 150
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<b>Slotted Pan Head Tapping Screw DIN-7971</b>		<b>Slotted CSK Flat Head Tapping Screw DIN-7972</b>		<b>Slotted Raised CSK (Oval) Head Tapping Screw DIN-7973</b>	
Size	Length	Size	Length	Size	Length
ST 2.9	9.5 - 38	ST 2.9	9.5 - 38	ST 2.9	9.5 - 38
ST 3.5	9.5 - 45	ST 3.5	9.5 - 38	ST 3.5	9.5 - 38
ST 3.9	9.5 - 38	ST 3.9	9.5 - 38	ST 3.9	9.5 - 38
ST 4.2	9.5 - 50	ST 4.2	9.5 - 50	ST 4.2	9.5 - 50
ST 4.8	9.5 - 60	ST 4.8	9.5 - 60	ST 4.8	9.5 - 60
ST 5.5	13 - 60	ST 5.5	13 - 60	ST 5.5	13 - 60
ST 6.3	13 - 60	ST 6.3	13 - 60	ST 6.3	13 - 60

<b>Cross Recessed Pan Head Tapping Screw (TYPE H &amp; Z) DIN-7981</b>		<b>Cross Recessed CSK Flat Head Tapping Screw (TYPE H &amp; Z) DIN-7982</b>		<b>Cross Recessed Raised CSK (Oval) Head Tapping Screw (TYPE H &amp; Z) DIN-7983</b>	
Size	Length	Size	Length	Size	Length
ST 2.9	9.5 - 38	ST 2.9	9.5 - 38	ST 2.9	9.5 - 38
ST 3.5	9.5 - 45	ST 3.5	9.5 - 38	ST 3.5	9.5 - 38
ST 3.9	9.5 - 38	ST 3.9	9.5 - 38	ST 3.9	9.5 - 38
ST 4.2	9.5 - 50	ST 4.2	9.5 - 50	ST 4.2	9.5 - 50
ST 4.8	9.5 - 60	ST 4.8	9.5 - 60	ST 4.8	9.5 - 60
ST 5.5	13 - 60	ST 5.5	13 - 60	ST 5.5	13 - 60
ST 6.3	13 - 60	ST 6.3	13 - 60	ST 6.3	13 - 60

<b>ANSI B 18.6.3</b>							
<b>Cross Recessed Pan Head Machine Screw</b>		<b>Cross Recessed Truss Head Machine Screw</b>		<b>Cross Recessed Flat CSK Head Machine Screw</b>		<b>Cross Recessed Raised CSK Oval Head Machine Screw</b>	
Size	Length	Size	Length	Size	Length	Size	Length
#4	3/8" - 1 1/2"	#4	3/8" - 1 1/2"	#4	3/8" - 1 1/2"	#4	3/8" - 1 1/2"
#5	3/8" - 1 1/2"	#6	3/8" - 1 1/2"	#6	3/8" - 1 1/2"	#6	3/8" - 1 1/2"
#6	3/8" - 1 1/2"	#8	3/8" - 2"	#8	3/8" - 2"	#8	3/8" - 2"
#8	3/8" - 2"	#10	1/2" - 2"	#10	1/2" - 2"	#10	1/2" - 2"
#10	1/2" - 2"	1/4"	3/8" - 4"	#12	1/2" - 2 1/2"	#12	1/2" - 2 1/2"
#12	1/2" - 2 1/2"	-	-	1/4"	3/8" - 4"	1/4"	3/8" - 4"
1/4"	3/8" - 4"	-	-	5/16"	1/2" - 5"	-	-
5/16"	1/2" - 5"	-	-	-	-	-	-
3/8"	7/8" - 5"	-	-	-	-	-	-

**ANSI B 18.6.4****Cross Recessed Pan Head Tapping Screw****Cross Recessed Truss Head Tapping Screw****Cross Recessed Flat CSK Head Tapping Screw****Cross Recessed Raised CSK Oval Head Tapping Screw**

Size	Length	Size	Length	Size	Length	Size	Length
#6	3/8" - 1 1/2"	#6	3/8" - 1 1/2"	#6	3/8" - 1 1/2"	#6	3/8" - 1 1/2"
#8	3/8" - 2"	#8	3/8" - 2"	#8	3/8" - 2"	#8	3/8" - 2"
#10	3/8" - 2 1/4"	#10	3/8" - 2 1/4"	#10	3/8" - 2 1/4"	#10	3/8" - 2 1/4"
#12	3/8" - 2 1/4"	#12	3/8"-2 1/4"	#12	3/8"-2 1/4"	#12	3/8"-2 1/4"
#14	1/2"-2 1/4"	#14	1/2"-2 1/4"	#14	1/2"-2 1/4"	-	-

**Hexagon flange bolt (FT) - DIN 6921**

Size	Length	
	min	max
M8	16	60
M10	16	60
M12	20	70

**Hexalobular socket pan Head Screw ISO 14583****Hexalobular socket CSK Flat Head Screw ISO 14581**

Size	Len (Min)	Len (Max)	Size	Len (Min)	Len (Max)
M3	10	40	M3	10	40
M4	10	40	M4	10	40
M5	10	50	M5	10	50
M6	12	100	M6	12	100
M8	12	100	M8	12	100
M10	16	100	M10	16	100

**Hexalobular socket Cheese Head Screw ISO 14580****Hexalobular raised CSK Head Screw ISO 14584**

Size	Len (Min)	Len (Max)	Size	Len (Min)	Len (Max)
M3	10	40	M3	10	40
M4	10	40	M4	10	40
M5	10	50	M5	10	50
M6	12	100	M6	12	100
M8	12	100	M8	15	100
M10	16	100	M10	16	100

<b>Hexalobular Pan Hd. Tapping Sc. (Cross Recess) ISO 14585</b>			<b>Hexalobular CSK Tapping Sc. (Cross Recess) ISO 14586</b>		
<b>Size</b>	<b>Len (Min)</b>	<b>Len (Max)</b>	<b>Size</b>	<b>Len (Min)</b>	<b>Len (Max)</b>
ST 2.9	9.5	38	ST 2.9	9.5	38
ST 3.5	9.5	38	ST 3.5	9.5	38
ST 4.2	9.5	50	ST 4.2	9.5	50
ST 4.8	9.5	60	ST 4.8	9.5	60
ST 5.5	13	60	ST 5.5	13	60
ST 6.3	13	60	ST 6.3	13	60

<b>Hexalobular Raised CSK (Oval) Head Tapping Screw ISO 14587</b>				
<b>Size</b>	<b>Length</b>	<b>Size</b>	<b>Length</b>	
ST 2.9	9.5 - 38	ST 4.8	9.5 - 60	
ST 3.5	9.5 - 38	ST 5.5	13 - 60	
ST 4.2	9.5 - 50	ST 6.3	13 - 60	

<b>DIN934 / ISO4032</b>	<b>DIN439 / ISO4035</b>	<b>ANSI B 18.2.2</b>		
Hexagon Nuts	Hexagon Thin Nuts	Heavy Hexagon Nuts	Hexagon Nuts	Hexagon Jam Nuts
M5 - M27	M6 - M27	1/4" - 7/8"	1/4" - 1"	1/4" - 1"

<b>DIN557</b>	<b>DIN562</b>	<b>DIN928</b>	<b>DIN929</b>
<b>Square Nuts</b>	<b>Square Thin Nuts</b>	<b>Square Weld Nuts</b>	<b>Hexagon Weld Nuts</b>
M5 - M12	M6 - M8	M6 - M10	M5 - M12

<b>DIN982</b>	<b>DIN985</b>	<b>IFI 100 - 107</b>
<b>Thick Nyloc Nuts</b>	<b>Thin Nyloc Nuts</b>	<b>Thick Nyloc Nuts</b>
M 6 - M 12	M6 - M12	1/4" - 3/8"

<b>Nylock Nut-Thick</b>	<b>Hexagon Flange Nut</b>	<b>Hexagon Flange Nut with Serration</b>
<b>ISO7040</b>	<b>IFI-145 / 18.16.4</b>	<b>IFI-145 / 18.16.4</b>
M 6 - M12	1/4" - 1/2"	1/4" - 1/2"

<b>DIN6923</b>	<b>Hexagon Flange Nuts with Serration</b>	<b>BS 1083</b>
<b>Hexagon Flange Nuts</b>	<b>Hexagon Flange Nuts with Serration</b>	<b>Hexagon Nuts</b>
M 6 - M 12	M 6 - M 12	1/4" - 1"



<b>Threaded Rod</b>				
<b>DIN 975/DIN 976</b>			<b>ANSI B 18.31.3/IFI 136/ ASTM A 193</b>	
	<b>Size</b>	<b>Length</b>	<b>Size</b>	<b>Length</b>
Long Length	M5	0.50 Mtr - 1.0 Mtr	1/4"	0.5 mtr - 3 mtr
	M6-M36	0.5 mtr - 3 mtr		3' - 12'
Short Length	M6	30 - 130	5/16" - 1 1/2"	0.5 mtr - 3 mtr 3' - 12'
Short Length	M8	30 - 130		
	M10	40 - 170		
	M12	40 - 170		
	M14	50 - 130		
	M16	50 - 130		
	M18	60 - 170		
	M20	60 - 170		

<b>Hexagon socket thin head cap screw with Blind hole DIN6912, FT&amp;HT</b>		<b>Hexagon socket thin head cap screw DIN7984 , FT</b>		<b>Hexagon socket thin head cap screw DIN7984, HT</b>	
<b>Size</b>	<b>Length</b>	<b>Size</b>	<b>Length</b>	<b>Size</b>	<b>Length</b>
M6	20 - 100	M6	10 - 100	M6	30 - 150
M8	20 - 150	M8	12 - 150	M8	35 - 150
M10	20 - 150	M10	16 - 150	M 10	40 - 150
M12	40 - 150	M12	16 - 150	M 12	50 - 150

<b>Dowel Screw Hexagon End</b>		<b>Dowel Screw Middle Hex</b>		<b>Dowel Screw Without Hex</b>	
<b>Size</b>	<b>Length</b>	<b>Size</b>	<b>Length</b>	<b>Size</b>	<b>Length</b>
M10	160 - 250	M10	80 - 200	M6	50 - 160
M12	200 - 300	M12	100 - 250	M8	60 - 160

### Future development

<b>Bolt Section</b>		
<b>Sr. No.</b>	<b>Standard</b>	<b>Product Description</b>
1.	DIN478	Square Head Bolts with Collar
2.	DIN479	Square Head Bolts with Short Dog Point
3.	DIN561	Hexagon Head Set Screws with Small Hexagon & Full Dog Point
4.	DIN938	Studs (Metal End)
5.	DIN939	Studs (Threaded End)
6.	DIN940	Studs (Metal End)
7.	DIN961	Hexagon Bolts (Fine Threads) M8x1.0 to M 36 x 3.0

8.	ASME B18.2.1	Square Head Bolt
9.	ASME B18.2.1	Hexagon Flange Screws
10.	ASME B18.5	Round Head Bolts
11.	ASME B18.5	Round Head Bolts (CSK Slotted)
12.	IFI-I48	Threaded Projection Weld Studs
13.	ASME B18.3	Low Head Socket Cap Screws
14.	ASME B18.3	Hexagon Socket Set Screws with Flat Point
15.	DIN 933	Hexagon Head Screws (M4)
16.	DIN 931	Hexagon Head Bolts (M)
17.	DIN 912 (FT/HT)	Hexagon Socket Head Cap Screws (M4)

#### Header Section

Sr. No.	Standard	Product Description
1.	DIN7995	Cross Recessed Raised CSK Head Wood Screw (M5 & Above)
2.	DIN7996	Cross Recessed Pan Head Wood Screw (M5 & Above)
3.	DIN7997	Cross RecessedCSKHead Wood Screw (M5 & Above)
4.	ASME B18.6.2	Slotted Flat CSK Head Cap Screws
5.	ASME B18.6.2	Slotted Round Head Cap Screws
6.	ASME B18.6.2	Slotted Fillister Head Cap Screws

#### Nut Section

Sr. No.	Standard	Product Description
1.	ASME B18.2.2	Square Nut
2.	DIN936	Hexagon Thin Nuts
3.	DIN6331	Hexagon Nuts With Collar (Height 1.5d)
4.	ASME B18.6.4	Serrated Hex Flange Lock Nuts

#### T. Bar

Sr. No.	Standard	Product Description
1.	DIN976	Threaded Rod (A4-80 Grade) Upto M24

Testing Facilities	Certifications	Certified from (TUV)
Tensile Test	EN-ISO 10204-3.1	ISO 9001-2008
Impact Test	PPAP level 3	CE
Hardness Test	EN-ISO 10204-3.2	ADW2 / PED
IGC Test	-	PED

Following RoHS compliance



[www.viraj.com](http://www.viraj.com)

**For Product Related Enquiries:**  
[sales@viraj.com](mailto:sales@viraj.com)

**For Media, PR & Events:**  
[corpcomm@viraj.com](mailto:corpcomm@viraj.com)

**For General Enquiries:**  
[info@viraj.com](mailto:info@viraj.com)

**Corporate Office:**

Viraj Tower, 1st Floor, Junction of Andheri Kurla Road,  
Western Express Highway, Near Land Mark Building,  
Andheri (East), Mumbai - 400069. India  
Tel: (+91 22) 3006 4000/0  
Fax: (+91 22) 3006 4050

**Registered and Marketing Office:**

G-34 MIDC Tarapur Industrial Area, Boisar, Dist. Palghar,  
Maharashtra - 401 506, India  
Tel: +91 - 904 999 1021-28  
Fax: +91(2525) 260 159 / 274 420