



STAINLESS STEEL FASTENERS



Stainless Steel Fasteners

The Viraj fasteners division is specialized 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, 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, CL1- B8, B8M

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"
M5	10 - 70	30 - 70	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	-	-	-

A2-80 / A4-80 - Grade up to M20

Round Head Square Neck Bolt or Carriage Bolt

DIN 603

Size	Length	Size	ANSI B 18.5	
			Length F/T	H/T
M 5	16 - 65	1/4"	5/8" - 3"	1-1/4" - 4"
M 6	16 - 80	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	-		

Hex Wood/Lag Screw

DIN 571

Size	Length
M5	25 - 70
M6	25 - 100
M8	30 - 150
M10	40 - 150
M12	45 - 150

Hexagon Socket Button Head Screw

ISO7380-1

ANSI B 18.3

Size	Length	Size	Length
M3	10 - 40	-	-
M4	10 - 50	-	-
M5	10 - 60	-	-
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 DIN 7991	H/T ISO 10642		F/T	H/T
M3	10 - 40	25 - 40	30 - 40	-	-	-
M4	10 - 50	30 - 50	30 - 50	-	-	-
M5	10 - 75	35 - 75	35 - 75	-	-	-
M6	10 - 100	40 - 100	40 - 100	-	-	-
M8	12 - 150	50 - 150	50 - 150	1/4"	1/2" - 4"	1 3/4" - 4"
M10	16 - 200	50 - 200	55 - 200	5/16"	1/2" - 4"	2" - 6"
M12	20 - 200	60 - 200	65 - 200	3/8"	5/8" - 6"	2 1/4" - 8"
M14	40 - 200	60 - 200	70 - 200	1/2"	1" - 6"	2 1/2" - 8"
M16	40 - 200	70 - 200	80 - 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	100 - 200	-	-	-

Slotted CSK Head Screw

Slotted Raised CSK Oval Head Screw

Slotted Cheese Head Screw

Slotted Pan Head Screw

DIN 963

DIN 964

DIN 84

DIN 85

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

Cross Recessed CSK Flat Head Screw

Cross Recessed Raised CSK Oval Head Screw

Cross Recessed Raised Cheese Head Screw

DIN 965 (TYPE H & Z)

DIN 966 (TYPE H & Z)

DIN 7985 (TYPE H&Z)

Size	Length	Size	Length	Size	Length
M3	10 - 40	M3	10 - 40	M3	10 - 40
M4	10 - 50	M4	10 - 50	M4	10 - 50
M5	10 - 75	M5	10 - 75	M5	10 - 75

M6	10 - 100	M6	10 - 100	M6	10 - 100
M8	12 - 150	M8	12 - 150	M8	12 - 150
M10	16 - 150	M10	16 - 150	M10	16 - 150

Slotted Pan Head Tapping Screw DIN-7971		Slotted CSK Flat Head Tapping Screw DIN-7972		Slotted Raised CSK (Oval) Head Tapping Screw DIN-7973	
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 - 38	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

Cross Recessed Pan Head Tapping Screw (TYPE H & Z) DIN-7981		Cross Recessed CSK Flat Head Tapping Screw (TYPE H & Z) DIN-7982		Cross Recessed Raised CSK (Oval) Head Tapping Screw (TYPE H & Z) DIN-7983	
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

ANSI B 18.6.3							
Cross Recessed Pan Head Machine Screw		Cross Recessed Truss Head Machine Screw		Cross Recessed Flat CSK Head Machine Screw		Cross Recessed Raised CSK Oval Head Machine Screw	
Size	Length	Size	Length	Size	Length	Size	Length
1/4"	3/8" - 4"	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"						

**Hexalobular raised
CSK Head Screw
ISO 14584**

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

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

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

**Hexalobular Pan Hd. Tapping Sc.
(Cross Recess)
ISO 14585**

Size	Len (Min)	Len (Max)
ST 2.9	9.5	38
ST 3.5	9.5	38
ST 4.2	9.5	50
ST 4.8	9.5	60
ST 5.5	13	60
ST 6.3	13	60

**Hexalobular CSK Tapping Sc.
(Cross Recess)
ISO 14586**

Size	Len (Min)	Len (Max)
ST 2.9	9.5	38
ST 3.5	9.5	38
ST 4.2	9.5	50
ST 4.8	9.5	60
ST 5.5	13	60
ST 6.3	13	60

Hexalobular Raised CSK (Oval) Head Tapping Screw ISO 14587

Size	Length	Size	Length
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

DIN934 / ISO4032 DIN439 / ISO4035 ANSI B 18.2.2

Hexagon Nuts	Hexagon Thin Nuts	Heavy Hexagon Nuts	Hexagon Nuts	Hexagon Jam Nuts
M5 - M27	M6 - M24	1/4" - 7/8"	1/4" - 1"	1/4" - 1"

DIN557

Square Nuts

M5 - M12

DIN562

Square Thin Nuts

M6 - M8

DIN928

Square Weld Nuts

M6 - M10

DIN929

Hexagon Weld Nuts

M5 - M12

DIN982 Thick Nyloc Nuts M 6 - M 12	DIN985 Thin Nyloc Nuts M6 - M12	IFI 100 - 107 Thick Nyloc Nuts 1/4" - 3/8"
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Nylock Nut-Thick ISO7040 M 6 - M12	Hexagon Flange Nut IFI-145 / 18.16.4 1/4" - 1/2"	Hexagon Flange Nut with Serration IFI-145 / 18.16.4 1/4" - 1/2"
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DIN6923 Hexagon Flange Nuts M 6 - M 12	Hexagon Flange Nuts with Serration M 6 - M 12	BS 1083 Hexagon Nuts 1/4" - 1"
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JIS BI 181 Hexagon Nut Size M6 to M16 (M20, M24 New Development)	JIS BI 190 Hexagon Flange Nut Size M6 to M12
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ISO4033 Hexagon Nut M 6 - M 20	ISO8675 Hexagon Thin Nut (Fine Pitch) M6 to M24	DIN936 Hexagon Jam Nut M6 to M16
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	Threaded Rod DIN 975/DIN 976		ANSI B 18.31.3/IFI 136/ ASTM A 193(CLASS 1) / BSW Threads	
	Size	Length	Size	Length
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 - 160	5/16" - 1 1/2"	0.5 mtr - 3 mtr 3' - 12'
Short Length	M8	30 - 160		
	M10	30 - 250, 300 - 490		
	M12	40 - 250, 300 - 490		
	M14	50 - 250, 300 - 490		
	M16	50 - 250, 300 - 490		
	M18	60 - 250, 300 - 490		
	M20	60 - 250, 300 - 490		

**Hexagon Socket Thin Head Cap
Screw with Blind Hole**
DIN6912, HT

Size	Length
M6	25 - 100
M8	25 - 150
M10	30 - 150
M12	45 - 150

**Hexagon Socket Thin Head
Cap Screw**
DIN7984, HT

Size	Length
M6	30 - 150
M8	35 - 150
M 10	40 - 150
M 12	50 - 150

**Dowel Screw
Hexagon End**

Size	Length
M10	160 - 250
M12	200 - 300

**Dowel Screw
Middle Hex**

Size	Length
M10	80 - 200
M12	100 - 250

**Dowel Screw
Without Hex**

Size	Length
M6	50 - 160
M8	60 - 160

ISO14579-FT

**Hexalobular Socket Head
Cap Screw**

Size.	Min.	Max.
M6	10	100
M8	12	160
M10	16	150
M12	20	150

ISO14579-HT

**Hexalobular Socket
Head Cap Screw**

Size.	Min.	Max.
M6	35	150
M8	40	160
M10	45	150
M12	55	150

JIS B1180-FT

Hexagon Head Screw

Size.	Min.	Max.
M6	10	150
M8	12	150
M10	16	250
M12	20	200
M16	25	200
M18	40	200
M20	40	200
M24	40	200

JIS B1180-HT

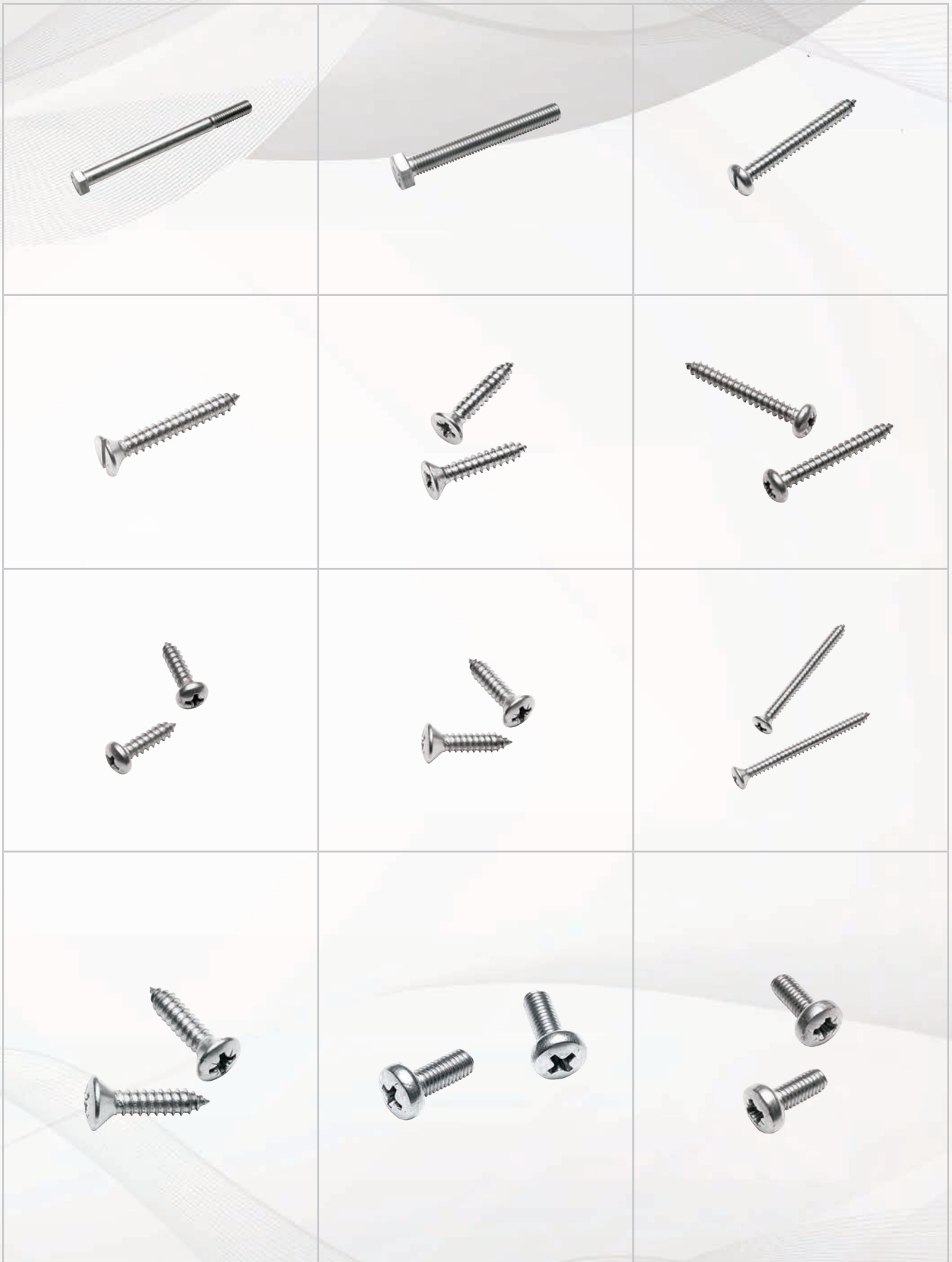
Hexagon Head Bolt

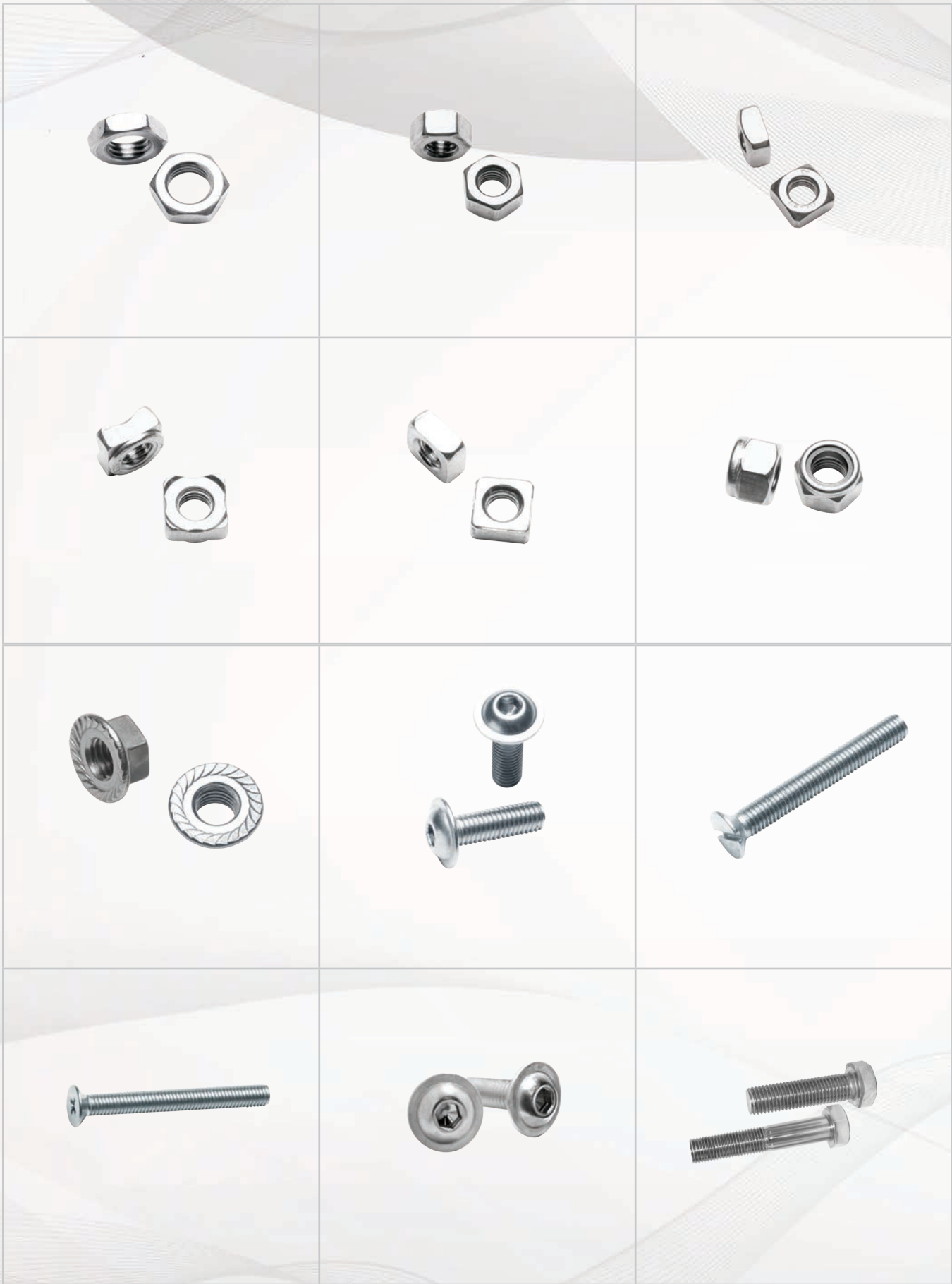
Size.	Min.	Max.
M6	30	150
M8	40	150
M10	45	250
M12	50	250
M16	65	250
M18	70	250
M20	80	250
M24	90	250

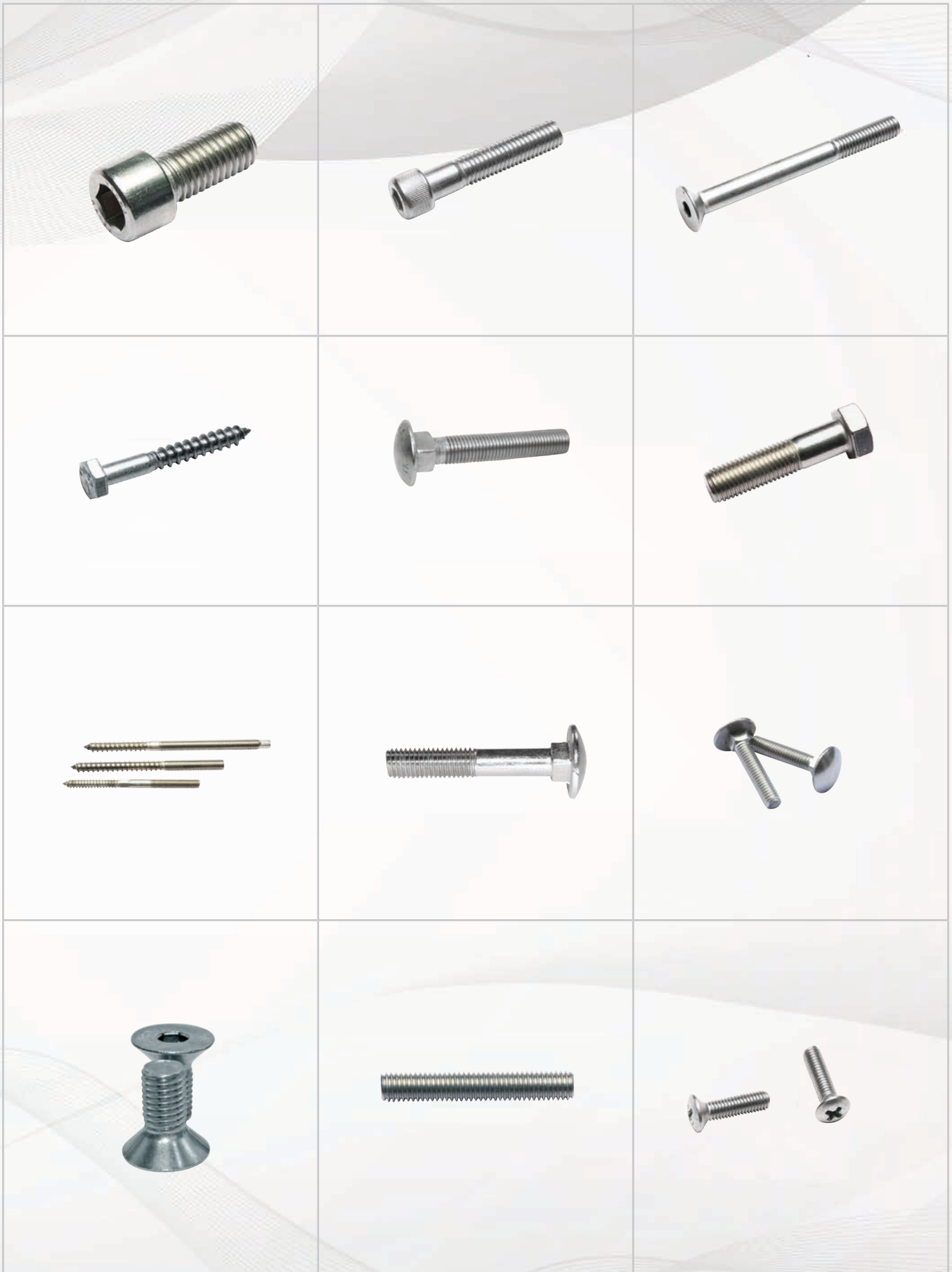
Testing Facilities	Certifications	Certified from (TUV)
Tensile Test	EN-ISO 10204-3.1	ISO 9001-2008
Impact Test		CE
Hardness Test	EN-ISO 10204-3.2	ADW2 / PED
IGC Test	-	PED

Following RoHS compliance













CERTIFICATE

The TÜV NORD Systems GmbH & Co. KG

certifies that the company

Viraj Profiles Ltd. - Fastener Division
Survey No. 110,111,114/1 C-D,116,119,120
Village Mahagon, Tal-Palghar
Dist. Thane - 401 506, Maharashtra, India

has been verified and recognized as material manufacturer according to

AD 2000-Merkblatt W0

Certificate-No.: 07/203/1409/WP/1050/17
File No.: 811 494 3708 / SEI-810/17

Production site: See Above

The scope of approval is available in the annex "scope of approval".

The company fulfils the following essential requirements:
Facilities for appropriate manufacturing and testing, appropriate procedures for manufacturing of the products, qualified personnel for manufacturing and testing of the products and a quality management system with appropriate records which ensures proper manufacture of the products as well as compliance with the requirements specified in the material specification.

This certificate is valid until

February 2020

Essen, 22.02.2017

Annex: Scope of approval

Region: Essen
Langemarkstr. 20,
45141 Essen

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TUV NORD Systems GmbH & Co. KG,
Dübenerstraße 31, 22525 Hamburg, Germany

81W-20-AD2000-W0-Zemke-F-301_810_Rev-07_2017-04



CERTIFICATE

Quality-Assurance System for material manufacturer
according to Pressure Equipment Directive 2014/68/EU

Certificate no.: 07/202/1409/WZ/1050/17

Name and address of the manufacturer: **Viraj Profiles Ltd. - Fastener Division**
Survey No. 110,111,114/1 C-D,116,119,120
Village Mahagon, Tal-Palghar
Dist. Thane - 401 506, Maharashtra, India

Herewith we certify that the manufacturer has established and applies a **quality-assurance system related to the material**. This QA System has been subjected to a specific assessment acc. to directive 2014/68/EU, annex I, point 4.3 with regard to the materials mentioned in the scope of approval.

Approved acc. to directive 2014/68/EU:

QA-System in relation to materials, EN 764-5, section 4.2 and AD2000-Merkblatt W0

Certification file no.:

811 494 3708

Audit report file no.:

811 440 5203 (TN India)

Scope of approval (product / material):

Stainless Steel Fasteners

Production site:

Survey No. 110,111,114/1 C-D,116,119,120, Village Mahagon, Tal-Palghar, Dist. Thane - 401 506, Maharashtra, India

The certificate is valid until:

February 2020

Only valid in conjunction with a valid certificate acc. to EN ISO 9001.

Essen, 22.02.2017

Annex: scope of approval

Region: Essen
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45141 Essen, Germany

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Notified Body (0045)
for Pressure Equipment

TUV NORD Systems GmbH & Co. KG,
Dübenerstraße 31, D-22525 Hamburg

Member of CECC

Certificate QA material manufacturer_PED_eng_Rev.2/03.17

TÜV NORD Systems GmbH & Co. KG
Notified Body for Pressure Equipment Directive (PED), Reg. No. 0045
Scope of approval for material manufacturer acc. to Pressure Equipment Directive 2014/68/EU, annex I, pt. 4.3 and AD 2000-Merkblatt W0 / AD2000-Guidelines W0

Item No.	Material Designation	Material Specification	Delivery Condition	Article Type of product	Annex to Certificate			Remarks
					Dim. (mm) Thickness	Dim. (mm) Weight (kg)	Dim. (mm) Weight (kg)	
2.1	A2-70	DIN EN ISO 2009-1	U	Hex Nut	M6 - M27	AD 2000 Merkblatt W2	Applicable dimensional standards	DIN 934 / ISO 6032
2.2	A4-70	DIN EN ISO 2009-2	U	Square Nut	M6 - M18	Directive 2014/68/EU		DIN 934
2.3	A4-70	DIN EN ISO 2009-2	U	Square Thin Nut	M6 - M18			DIN 934
2.4	A4-70	DIN EN ISO 2009-2	U	Washer (Thin)	M6 - M18			DIN 934
2.5	A4-70	DIN EN ISO 2009-2	U	Washer (Thick)	M6 - M18			DIN 934
2.6	A4-70	DIN EN ISO 2009-2	U	Hex Washer Head	M6 - M18			DIN 934
2.7	A4-70	DIN EN ISO 2009-2	U	Hex Washer Head	M6 - M18			DIN 934
2.8	A4-70	DIN EN ISO 2009-2	U	Washer	M6 - M18			DIN 934
2.9	A4-70	DIN EN ISO 2009-2	U	Washer	M6 - M18			DIN 934
2.10	A4-70	DIN EN ISO 2009-2	U	Washer	M6 - M18			DIN 934
2.11	A4-70	DIN EN ISO 2009-2	U	Washer	M6 - M18			DIN 934
2.12	A4-70	DIN EN ISO 2009-2	U	Washer	M6 - M18			DIN 934
2.13	A4-70	DIN EN ISO 2009-2	U	Washer	M6 - M18			DIN 934
2.14	A4-70	DIN EN ISO 2009-2	U	Washer	M6 - M18			DIN 934
3.1	304	ASTM F 80	U	Hex Screw / Bolt	1/4" - 1"			ANSI B 18.2.1
3.2	316	ASTM F 80	U	Hex Screw / Bolt	1/4" - 1"			ANSI B 18.2.1
3.3	316	ASTM F 80	U	Hex Screw / Bolt	1/4" - 1"			ANSI B 18.2.1
3.4	316	ASTM F 80	U	Hex Screw / Bolt	1/4" - 1"			ANSI B 18.2.1
4.1	304	ASTM F 594	U	Hex Nut	1/4" - 1"			ANSI B 18.2.2

Expansion: *AT = solution heat treated and tempered, H = normalized or normalized (rolled) forming, W = normalized and tempered, *OT V = quenched and tempered, M = ferritic martensitic, HX = duplex stainless, SH = ferritic stainless, A = full austenitic, CA = controlled cold worked.

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TÜV NORD Systems GmbH & Co. KG
Notified Body for Pressure Equipment Directive (PED), Reg. No. 0045
Scope of approval for material manufacturer acc. to Pressure Equipment Directive 2014/68/EU, annex I, pt. 4.3 and AD 2000-Merkblatt W0 / AD2000-Guidelines W0

Item No.	Material Designation	Material Specification	Delivery Condition	Article Type of product	Annex to Certificate			Remarks
					Dim. (mm) Thickness	Dim. (mm) Weight (kg)	Dim. (mm) Weight (kg)	
1.1	A2-70	DIN EN ISO 2009-1	U	Hex Screw	M6 - M24	AD 2000 Merkblatt W2	DIN 934 / ISO 4017	
1.2	A2-70	DIN EN ISO 2009-1	U	Hex Screw	M6 - M24	Directive 2014/68/EU	DIN 934 / ISO 4017	
1.3	A4-70	DIN EN ISO 2009-2	U	Hex Screw	M6 - M24		DIN 934 / ISO 4017	
1.4	A4-70	DIN EN ISO 2009-2	U	Hex Screw	M6 - M24		DIN 934 / ISO 4017	
1.5	A4-70	DIN EN ISO 2009-2	U	Hex Screw	M6 - M24		DIN 934 / ISO 4017	
1.6	A4-70	DIN EN ISO 2009-2	U	Hex Screw	M6 - M24		DIN 934 / ISO 4017	
1.7	A4-70	DIN EN ISO 2009-2	U	Hex Screw	M6 - M24		DIN 934 / ISO 4017	
1.8	A4-70	DIN EN ISO 2009-2	U	Hex Screw	M6 - M24		DIN 934 / ISO 4017	
1.9	A4-70	DIN EN ISO 2009-2	U	Hex Screw	M6 - M24		DIN 934 / ISO 4017	
1.10	A4-70	DIN EN ISO 2009-2	U	Hex Screw	M6 - M24		DIN 934 / ISO 4017	
1.11	A4-70	DIN EN ISO 2009-2	U	Hex Screw	M6 - M24		DIN 934 / ISO 4017	
1.12	A4-70	DIN EN ISO 2009-2	U	Hex Screw	M6 - M24		DIN 934 / ISO 4017	
1.13	A4-70	DIN EN ISO 2009-2	U	Hex Screw	M6 - M24		DIN 934 / ISO 4017	
1.14	A4-70	DIN EN ISO 2009-2	U	Hex Screw	M6 - M24		DIN 934 / ISO 4017	

Expansion: *AT = solution heat treated and tempered, H = normalized or normalized (rolled) forming, W = normalized and tempered, *OT V = quenched and tempered, M = ferritic martensitic, HX = duplex stainless, SH = ferritic stainless, A = full austenitic, CA = controlled cold worked.

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