



DONGNAM

Product Catalog

Power Plant | Clean Room | Fasteners |
Precision Machining | Application



**Technology-Based
Innovation-Seeking
Customer First**

Achieving Customer Happiness Beyond
Customer Satisfaction





COMPANY INTRODUCTION

04-09P

Greetings / History / Company Value&Vision / Certification
Production Facilities / Testing Facilities / Production Process

PRODUCT

12-37P

A Power Plant Part

1. Turnbuckle / 2. Eye nut / 3. Clevis / 4. Eye Bolt / 5. Full Thread-Rod / 6. Both End Thread-Rod
7. U-Bolt / 8. Rod Coupling(Hexagon Type) / 9. Rod Couplig(Round Type)
10. Loas Coupling Nut(VS Type) / 11. Load Adjust Screw(VS Type) / 12. Extension Piece Adjuster
13. Load Adjusting Nut / 14. Load Adjust Screw(CS Type) / 15. Load Adjustment Block
16. Frame Brace / 17. Frame Travel Pivot / 18. Position Indicator / 19. A307 Gr. Hex Bolt
20. Bolt Blank / 21. Casttle Nut / 22. Single Thread Rod / 23. Fixed Spring Pivot
24. Washer Spacer / 25. A193 Gr. B8 Hex Bolt / 26. A194 Gr.8 Hex Nut / 27. Pin

B Clan Room Part

1. M8 Rod Set(Level Gap Type) / 2. M8 Rod Set(Square Pipe Type) / 3. M8 Rod Set(C-Chaneel Type)
4. M8 Rod Set(U-Channel Type) / 5. M8 Rod Set(TB Type) / 6. M8-Bracket(E1 Type) / 7. M8-Bracket(E2 Type)
8. M8 Bracket(E3 Type) / 9. M12-Bracket(A1 Type) / 10. Round Head Square Neck Bolt / 11. M12 Rod Set
12. Square Nut / 13. Deck Insert / 14. FFU Fixed Clip / 15. R-Bolt / 16. Coupler Nut

C Fastners Part

1. Hexagon Head Bolt(Normmianl Diameter) / 2. Hexagon Head Bolt(Pitch Diameter)
3. Hexagon Head Bolt(Full Thread) / 4. Countersunk Head Screw / 5. Hexagon Socket Head Cap Screw
6. F10T Bolt Set / 7. S10T Bolt Set / 8. Set Anchor Bolt / 9. Wedge Anchor Bolt Set / 10. Welding Stud
11. Hex Nut / 12. Heavy Hex But / 13. Plain Washer / 14. Spring Washer / 15. Taper Washer / 16. Split Pin
17. Counter Sunk Head Phillips Screw / 18. SUS204 Hexagon Bolt(A2-70) / 19. SUS304 Hex Nut(A2-70)
20. SUS316 Hexagon Head Bolt

D Precision Machine parts

1. Adjuster Nut / 2. V-Bolt / 3. Square-End Stud Bolt / 4. Ring Nut / 5. Adjuster Ring / 6. Hook Bolt
7. Ball Head Bolt / 8. Handle Bolt / 9. Load Plate-Upper Layer / 10. Load Plate-Downer Layer
11. Travel Indicator / 12. Roller / 13. Indicator Piece / 14. PM-1 / 15. PM-2 / 16. PM-3 / 17. PM-4 / 18. PM-5

E Application Part

1. Constant Springs - Model : CHH-A / 2. Constant Springs - Model : CHC-C
3. Constant Springs - Model : CHV-D / 4. Variable Springs - Model : VS30, VM60, VL120
5. Variable Spring - Model : VS30, VM60, VL120 / 6. Variable Springs - Model : VS30, VM60, VL120



GREETING

Understand and respect customer value, identify needs, and realize customer happiness through value creation.

Since its foundation in 1979 as a southeast trading company, it has been manufacturing and selling forging products, fasteners, and precision machined parts, which are applied to power generation facilities and clean room facilities for about 40 years.

We have been positioned as a professional company, and we have been progressing step by step to meet customers' needs first.

Based on our accumulated experience and know-how, we focus on providing the best service. As a result of continuous quality improvement and technology development, we have continued to grow steadily, raising our awareness in the industry.

We would like to express our gratitude to customers who have relied on our trust and faith in our company. With the stable supply capability, all of our employees will spare no effort to satisfy and impress our customers.

HISTORY

We will strive to satisfy and impress with the best stable supply.

1979
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1994

- 1979. 02. Established Dongnam Trading Co.
- 1991. 07. Dongnam Bolt Industrial Co., Ltd. (Change of corporation)
- 1994. 01. Established production factory
(Rod, screw processing, production of machine parts, etc.)

2005
~
2014

- 2005. 11. Expansion of head office and factory
(chungwang-dong, Siheung-si, Gyeonggi-do, Republic of Korea)
- 2010. 02. Acquired ISO9001
: 2008 Quality Management System Certification
- 2011. 04. Moved head office and factory expansion (Present location)
- 2012. 10. Dongnam Co., Ltd. (Change of name)
- 2014. 01. Establishment of affiliated research institute

2015
~
2018

- 2015. 08. Expansion of 2nd plant
- 2015. 12. Acquired MAIN-BIZ certification
(Management Innovation Small Business)
- 2016. 10. Material · Certified as a parts specialist company
- 2017. 11. Patent registration "insert for deck plate"
- 2017. 12. Certified as a qualified maintenance company - KEPCO
- 2018. 02. Patent registered "Tapping device"
- 2018. 02. Acquired ISO9001: 2015 quality management system
- 2018. 03. Patent registration "Hanger bolt for installation of ceiling frame
and its manufacturing method"
- 2018. 09. CE Certificate "Turnbuckle, Clevis, Eye nut" - UK Hpi VS

2019
~
Present

- 2019. 06. KS Certificate "Foundation Bolts KS B 1016"
Korea Conformity Laboratories(KCL)
- 2020. 12. Expansion of 3rd plant(660m2)
- 2021. 06. Smart Factory Initial Introduction (MES) - Order Management System

VALUE&VISION



Quick Response

In the rapidly changing information age, seeking quick response by maximizing the efficiency of company-wide business processes.



Cost Competitiveness

Competitiveness of customers by cost reduction by practice of purchasing and production process innovation.



Best Quality

Unlimited investment, constant technology development, production of products for the best quality.



Customer Satisfaction

Understanding and respecting customers' values, understanding needs and creating value, customer happiness is realized beyond customer satisfaction.

CERTIFICATION



Production Facilities

By establishing a state-of-the-art automation system in all production lines, We have achieved mass production while keeping the same quality, and We are doing our best to maximize customer satisfaction by producing products of various specifications according to the order production method.

①



②



③



④



⑤



⑥



⑦



- ① Band Saw
- ② CNC
(Computer Numerical Control)
- ③ Hydraulic Rolling Machine
- ④ Milling Machine
- ⑤ Lathe
- ⑥ Hydraulic Banding Machine
- ⑦ Laser Marking Machine

Testing Facilities

We produce and deliver the highest quality products by performing strict inspections and tests with state-of-the-art equipment such as universal material testing machines, Rockwell Hardener, and Coating gauge.

①



②



③



④



⑤



⑥



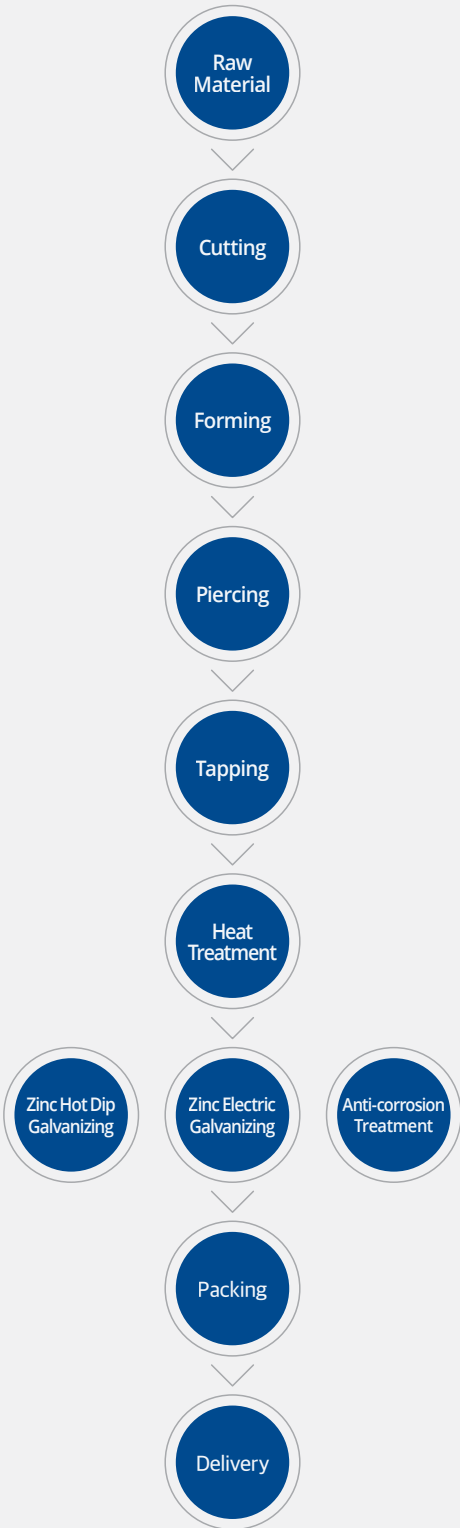
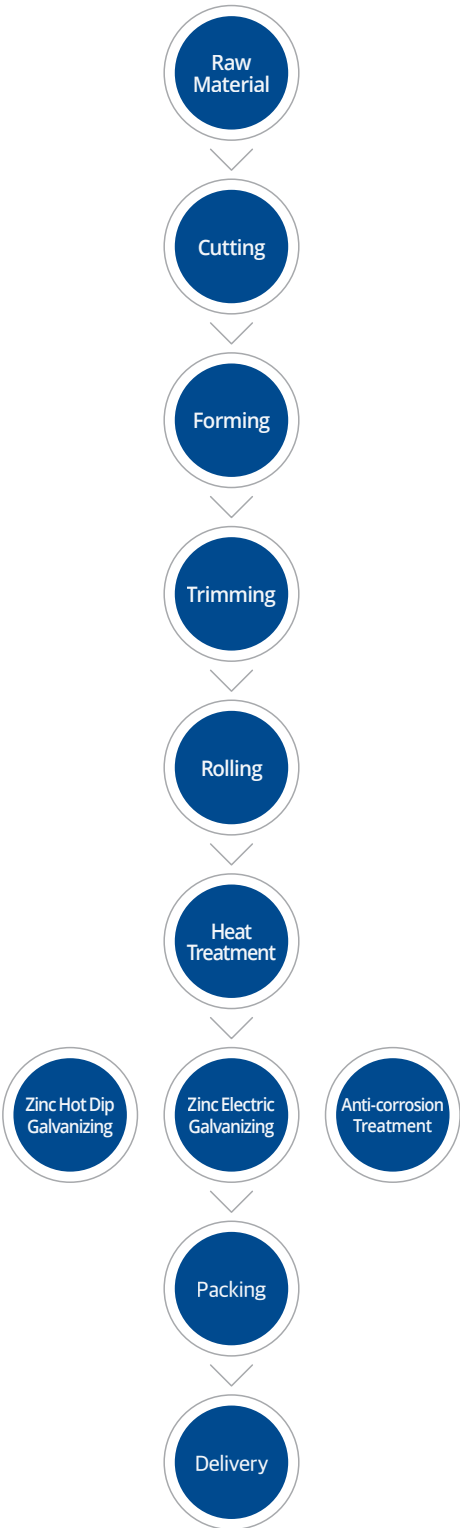
- ① Outside Micrometer
- ② Coating Thickness Gage
- ③ Rockwell Hardness Tester
- ④ Screw Throat Limit Gage
- ⑤ Universal Tester
- ⑥ Vernier Calipers

PRODUCTION PROCESS



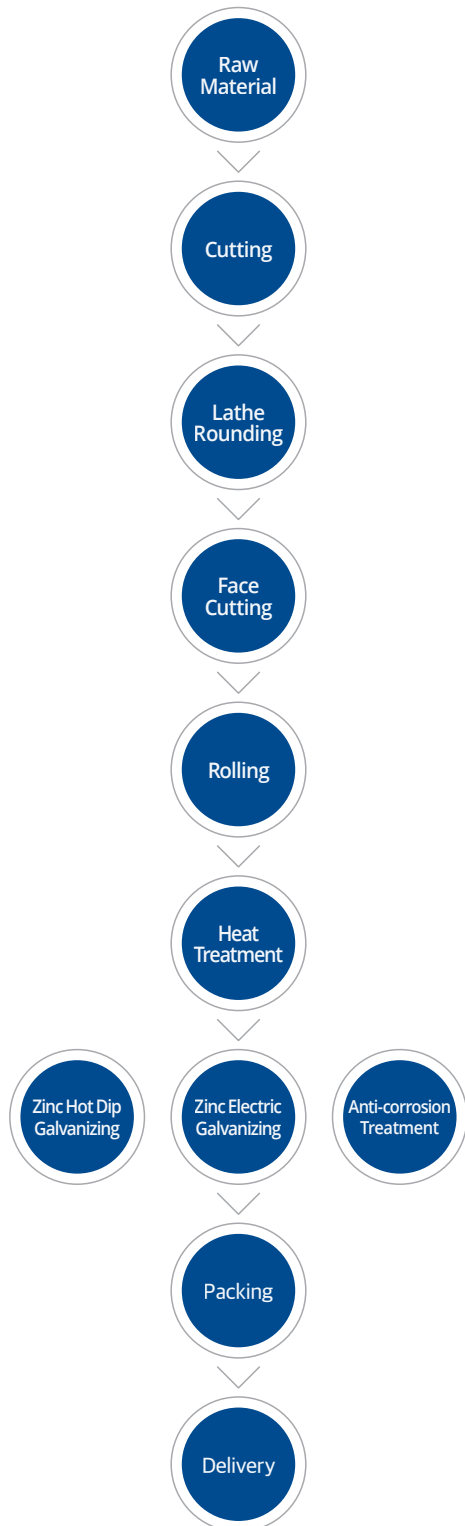
Bolts

Nuts



Anchor Bolts

Welding Studs



A. Power Plant Part

DONGNAM CORPORATION



1. Turnbuckle

Code No : DN - P - 0001

Material : Carbon steel / Stainless steel



2. Eye Nut

Code No : DN - P - 0002

Material : Carbon steel / Stainless steel



3. Clevis

Code No : DN - P - 0003

Material : Carbon steel / Stainless steel



4. Eye Bolt

Code No : DN - P - 0004

Material : Carbon steel / Stainless steel



5. Full Thread-Rod

Code No : DN - P - 0005

Material : Carbon steel / Stainless steel / Alloy steel



6. Both End Thread-Rod

Code No : DN - P - 0006

Material : Carbon steel / Stainless steel / Alloy steel



7. U-Bolt

Code No : DN - P - 0007

Material : Carbon steel / Stainless steel / Alloy steel



8. Rod Coupling (Hexagon Type)

Code No : DN - P - 0008

Material : Carbon steel



9. Rod Coupling (Round Type)

Code No : DN - P - 0009

Material : Carbon steel / Stainless steel



10. Load Coupling Nut(VS Type)

Code No : DN - P - 0010
Material : Carbon steel



11. Load Adjust Screw (VS Type)

Code No : DN - P - 0011
Material : Carbon steel



12. Extension Piece Adjuster

Code No : DN - P - 0012
Material : Carbon steel



13. Load Adjusting Nut

Code No : DN - P - 0013
Material : Carbon steel



14. Load Adjust Screw (CS Type)

Code No : DN - P - 0014
Material : Carbon steel / Alloy steel



15. Load Adjustment Block

Code No : DN - P - 0015
Material : Carbon steel / Alloy steel



16. Frame Brace

Code No : DN - P - 0016
Material : Carbon steel



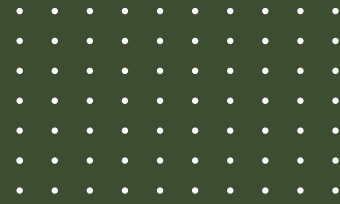
17. Frame Travel Pivot

Code No : DN - P - 0017
Material : Carbon steel



18. Position Indicator

Code No : DN - P - 0018
Material : Carbon steel / Alloy steel



A. POWER PLANT PART

DONGNAM CORPORATION



19. A307 Gr.A Hex Bolt

Code No : DN - P - 0019
Material : Carbon steel



20. Bolt Blank

Code No : DN - P - 0020
Material : Carbon steel



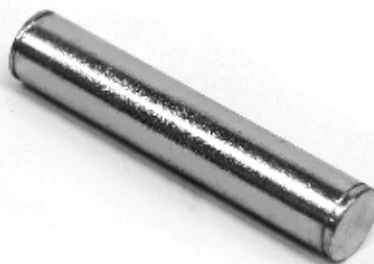
21. Castle Nut

Code No : DN - P - 0021
Material : Carbon steel



22. Single Thread Rod

Code No : DN - P - 0022
Material : Carbon steel / Stainless steel / Alloy steel



23. Fixed Spring Pivot

Code No : DN - P - 0023
Material : Carbon steel / Stainless steel



24. Washer Spacer

Code No : DN - P - 0024
Material : Carbon steel



25. A193 Gr. B8 Hex Bolt

Code No : DN - P - 0025
Material : Stainless steel



26. A194 Gr.8 Hex Nut

Code No : DN - P - 0026
Material : Stainless steel



27. Pin

Code No : DN - P - 0027
Material : Carbon steel / Stainless steel

STUD BOLT & STUD BOLT ASSEMBLY SETS

Stud Bolt Definition

A bolt with no bolt head and a screw formed or formed at one end or both ends
Bolts do head dynamics because there is no bolt head

Range

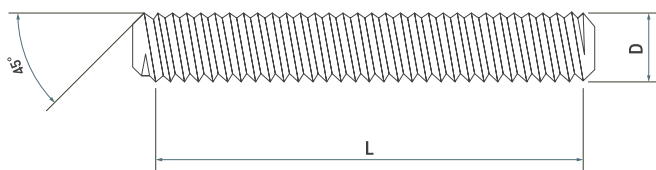
1) Inch : 1/2" ~ 4" 2) Metric : M12 ~ M100

Usage

It is used for the plant, in which the high temperature and high pressure are required flange, the heat exchanger electrochemical plant, Flanges, Valves, Heat exchange, etc.

Drawing

Stud Bolt for Pressure-Temperature Piping / ANSI B 16.5



Length Tolerance

Length		Tolerance	
Inch	Metric(mm)	Inch	Metric(mm)
$L \leq 12"$	$L \leq 305$	$\pm 0.062"$	± 1.57
$12" < L \leq 18"$	$305 < L \leq 457$	$\pm 0.125"$	± 3.18
$18" < L$	$457 < L$	$\pm 0.250"$	± 6.35

Length Tolerance

Normal Size or Diameter of Stud Bolt D		$1/2" \leq D \leq 1"$ (M12 $\leq$ D $\leq$ M27)	$1" < D$ (M27 < D)
Thread	Inch Series	Unified Coarse Thread Series. Class 2A and 2B (ANSI B1.1 2002)	Unified Constant Thread Series. Class 2A and 2B (ANSI B1.1 2002)
	Metric Series	ISO 965-1,2,3 JIS B 0209	ISO 965-1,2,3 JIS B 0209

Production Range

Description	Specification	Grade	Marking	
Stud Bolts	ASTM A193/ A193M	B7	 	
		B16		
	B8	 		
B8M				
	ASTM A307	307A	 	
	ASTM A320/A320M	L7		
Heavy Hex Bolts	ASTM A193/A193M	B7	 	
	ASTM A320	L7		
	ASTM F3125/3125M	A325 Type.1 A490 Type.1 A325M Type.1 A490M Type.1		   
Heavy Hex Nuts	ASTM A194/A194M	2H	 	
		7		
		8		
	8M		 	
	ASTM A563/A563M	A	  	
	8S			
	10S			
Plain Washers	ASTM F436/F436M	Type.1	 	
	ASTM F844	Wide		

Production Photograph

1)ASTM A193 Gr.B8 & Gr.B8M/ A194 Gr.8 & Gr.8M Stud Set



Production Photograph

2)ASTM A193 Gr.B7 & A307 Gr.A / A194 Gr.2H & A563 Gr.A Stud Set

1) Hot Dip Zinc Coating
(ASTM A153/A153M CL.C)



2. Electrodeposited Coating of Zinc
(ASTM B633) - White Color



3. Electrodeposited Coating of Zinc(ASTM B633) - Black Color



4. Xylan Coating - Red Color



U-BOLT & U-BOLT FOR INSULATION

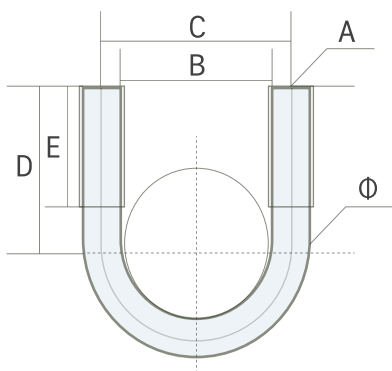


U-BOLT

Material

A36 / ASTM A276 Tp.304 / ASTM A276 Tp.316 / ASTM A193 Gr.B7 / ASTM A193 Gr.B8 / ASTM A193 Gr.B8M

Shape



Product Photo



Plating specification

1. H.D.G : ASTM A153M CL.C-Average 53μm or more
2. E.G : ASTM B633 CL.5-At least 5μm

Marking

1. A36 : DN
2. B7 : DN & B7
3. B8 : DN&B8
4. B8M : DN&B8M

Dimension

(Unit : mm)

PIPE SIZE	A (Nominal Dia.)	Φ (Raw Material Dia.)	B(Inner Dia.) (-1,+2)	C(Center) (-1,+2)	D(Center Height) (-1,+2)	E(Thread) (-0,+PitchX2)	Approx. Weight(g)
15A(1/2"B)	M10 X 1.5P	8.8	24	34	47	45	70
20A(3/4"B)			30	40	50		78
25A(1"B)			36	46	53		85
32A(1-1/4"B)			46	56	57	50	96
40A(1-1/2"B)			52	62	60		104
50A(2"B)			64	74	65		117

PIPE SIZE	A (Nominal Dia.)	Φ (Raw Material Dia.)	B(Inner Dia.) (-1,+3)	C(Center) (-1,+3)	D(Center Height) (-1,+3)	E(Thread) (-0,+PitchX2)	Approx. Weight(g)
65A(2-1/2"B)	M12 X 1.75P	10.7	80	92	75	60	208
80A(3"B)			92	104	85		235
90A(3-1/2"B)			104	116	90		256
100A(4"B)	M16 X 2.0P	14.5	118	134	100	65	532
125A(5"B)			144	160	118		631
150A(6"B)			170	186	130	75	715

Dimension

PIPE SIZE	A (Nominal Dia.)	Φ (Raw Material Dia.)	B(Inner Dia.) (-1,+4)	C(Center) (-1,+4)	D(Center Height) (-1,+4)	E(Thread) (-0,+PitchX2)	Approx. Weight(g)
200A(8"B)	M20 X 2.5P	18.2	222	242	162	75	1437
250A(10"B)			276	294	188	85	1710
300A(12"B)	M24 X 3.0P	21.8	326	350	220	100	2898
350A(14"B)			362	386	236		3158
400A(16"B)			414	438	261		3543

PIPE SIZE	A (Nominal Dia.)	Φ (Raw Material Dia.)	B(Inner Dia.) (-2,+4)	C(Center) (-2,+4)	D(Center Height) (-2,+4)	E(Thread) (-0,+PitchX2)	Approx. Weight(g)
450A(18"B)	M30 X 3.5P	27.5	466	496	296	100	6388
500A(20"B)			518	548	322		7010
550A(22"B)			568	598	347		7609
600A(24"B)	M36 X 4.0P	33.2	620	656	383	115	12198
700A(28"B)			722	758	434		13978
750A(30"B)			774	810	459		14872
800A(32"B)	M42 X 4.5P	38.8	826	868	494	130	22257
850A(34"B)			878	920	520		23522
900A(36"B)			928	970	545		24739

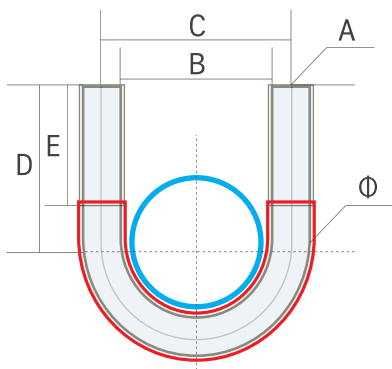


U-BOLT FOR INSULATION

Material

A36 / ASTM A276 Tp.304 / ASTM A276 Tp.316 / ASTM A193 Gr.B7 / ASTM A193 Gr.B8 / ASTM A193 Gr.B8M

Shape



Product Photo



Plating specification

1. H.D.G : ASTM A153M CL.C-Average 53μm or more
2. E.G : ASTM B633 CL.5-At least 5μm

Marking

1. A36 : DN
2. B7 : DN & B7
3. B8 : DN&B8
4. B8M : DN&B8M

Other tube size

1. M6 : Φ9*Φ7*1t
2. M8 : Φ12*Φ9*1.5t

Dimension

(Unit : mm)

PIPE SIZE	PIPE	A (Nominal Dia.)	Tube Size	Φ (Raw Material Dia.)	B(Inner Dia.) (0,+2)	C(Center) (0,+2)	D(Center Height) (0,+2)	E(Thread) (-0,+PitchX2)	Cutting length (-0,+2)
15A	21.7	M10 X 1.5P	Φ14*Φ11* 1.5t	8.9	27	37	47	45	152
20A	27.2				33	43	50		168
25A	34				39	49	53		183
32A	42.7				49	59	57	50	207
40A	48.6				55	65	60		222
50A	60.5				67	77	65		251
65A	76.3	M12 X 1.75P	Φ17*Φ13* 2t	11	84	96	75	60	301
80A	89.1				96	108	85		340
90A	101.6				108	120	90		368
100A	114.3	M16 X 2.0P	Φ21*Φ17* 2t	14.5	122	138	100	65	417
125A	139.8				148	164	118		493
150A	165.2				174	190	130	75	558

PIPE SIZE	PIPE	A (Nominal Dia.)	Tube Size	Φ (Raw Material Dia.)	B(Inner Dia.) (0,+4)	C(Center) (0,+4)	D(Center Height) (0,+4)	E(Thread) (-0,+PitchX2)	Cutting length (0,+4)
200A	216.3	M20 X 2.5P	Φ25*Φ21 *2t	18.2	226	246	162	75	710
250A	267.4				280	300	188	85	847
300A	318.5	M24 X 3.0P	Φ31*Φ25* 3t	21.8	332	356	220	100	999
350A	355.6				368	392	236		1087
400A	406.4				420	444	261		1219
450A	457.2	M30 X 3.5P	Φ37*Φ31* 3t	27.5	472	502	296	100	1380
500A	508.0				524	554	322		1514
550A	558.8				574	604	347		1642
600A	609.6	M36 X 4.0P	Φ43*Φ37* 3t	33.2	626	662	383	115	1805
700A	711.2				728	764	434		2067
750A	762.0				780	816	459		2199

Dimension

(Unit : mm)

PIPE SIZE	PIPE	A (Nominal Dia.)	Tube Size	Φ (Raw Material Dia.)	B (Inner Dia.) (0,+4)	C (Center) (0,+4)	D (Center Height) (0,+4)	E (Thread) (-0,+PitchX2)	Cutting length (0,+4)
800A	812.8	M42 X 4.5P	Φ49*Φ43* 3t	38.8	832	874	494	130	2360
850A	863.6				884	926	520		2494
900A	914.4				934	976	545		2622

SILICON TUBES FOR INSULATING U-BOLT

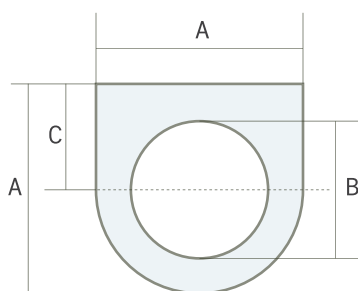
Material : Silicon

Performance

1. Hardness : 65HS
2. Use Temperature : -75°C ~ 200°C
3. Elastostatic maintenance, biocompatibility at excellent insulation, heat resistance, weather resistance, and chemical resistance low temperatures

Color : Black

Shape



Product Photo



PAD FOR THE INSULATION U-BOLT

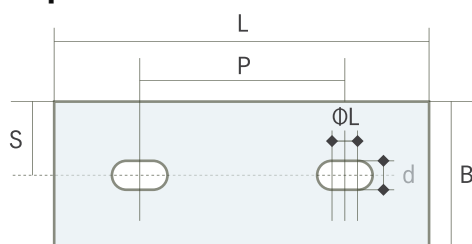
Material : MC(Mono Cast Nylon)901

Performance

1. Hardness : R-Scale 115~125
2. Use Temperature : -40°C ~ 120°C
3. Excellent insulation, heat resistance, chemical resistance, excellent mechanical strength, abrasion resistance

Color : Blue

Shape



Product Photo



B. CLAEN ROOM PART

DONGNAM CORPORATION



1. M8 Rod Set (Level Gap Type)

Code No : DN - C - 0001
Material : Carbon steel



2. M8 Rod Set (Square Pipe Type)

Code No : DN - C - 0002
Material : Carbon steel



3. M8 Rod Set (C-Chaneel Type)

Code No : DN - C - 0003
Material : Carbon steel



4. M8 Rod Set (U-Channel Type)

Code No : DN - C - 0004
Material : Carbon steel



5. M8 Rod Set (TB Type)

Code No : DN - C - 0005
Material : Carbon steel



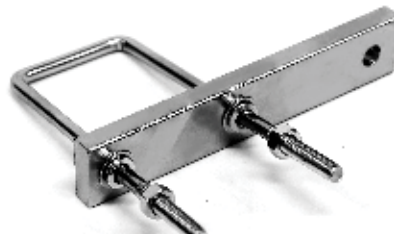
6. M8-Bracket (E1 Type)

Code No : DN - C - 0006
Material : Carbon steel



7. M8-Bracket (E2 Type)

Code No : DN - C - 0007
Material : Carbon steel



8. M8 Bracket (E3 Type)

Code No : DN - C - 0008
Material : Carbon steel



9. M12-Bracket (A1 Type)

Code No : DN - C - 0009
Material : Carbon steel



10. Round Head Square Neck Bolt

Code No : DN - C - 0010
Material : Carbon steel



11. M12 Rod Set

Code No : DN - C - 0011
Material : Carbon steel / Stainless steel



12. Square Nut

Code No : DN - C - 0012
Material : Carbon steel



13. Deck Insert

Code No : DN - C - 0013
Material : Carbon steel



14. FFU Fixed Clip

Code No : DN - C - 0014
Material : Carbon steel



15. R-Bolt

Code No : DN - C - 0015
Material : Carbon steel



16. Coupler Nut

Code No : DN - C - 0016
Material : Carbon steel

DECK-INSERT



Patent Number

10-2058520

Strength

KS B 0233 CL.4.8 / CL.10.9

Material

Carbon Steel / Alloy Steel

Process

Size

M12, M16

Plating Specification

E.G : KS D 8304 1TypeB/ Gr.3/ At least 8μm



1. Deck Drilling

It punches by using the drill cutter.

M12 -> $\Phi 21$, M16 -> $\Phi 28$



2. Insert the insert into the deck.



3. The insert is fixed by using the impact pack M12 - B17, and M16-B19 hand socket are used.



Field Installation Photograph



Model Potograph



Model Potograph



C. FASTENERS PART

DONGNAM CORPORATION



1. Hexagon Head Bolt (Norminal Diameter)

Code No : DN - F - 0001

Material : Carbone steel / Stainless steel / Alloy steel



2. Hexagon Head Bolt (Pitch Diameter)

Code No : DN - F - 0002

Material : Carbon steel / Stainless steel / Alloy steel



3. Hexagon Head Bolt (Full Thread)

Code No : DN - F - 0003

Material : Carbon steel / Stainless steel / Alloy steel



4. Countersunk Head Screw

Code No : DN - F - 0004

Material : Carbon steel / Stainless steel



5. Hexagon Socket Head Cap Screw

Code No : DN - F - 0005

Material : Alloy steel / Stainless steel



6. F10T Bolt Set

Code No : DN - F - 0006

Material : Boron Alloy steel



7. S10T Bolt Set

Code No : DN - F - 0007

Material : Boron Alloy steel



8. Set Anchor Bolt

Code No : DN - F - 0008

Material : Carbon steel / Stainless steel



9. Wedge Anchor Bolt Set

Code No : DN - F - 0009

Material : Carbon steel / Stainless steel



10. Welding Stud

Code No : DN - F - 0010
Material : Carbon steel



11. Hex Nut

Code No : DN - F - 0011
Material : Carbon steel / Stainless steel



12. Heavy Hex Nut

Code No : DN - F - 0012
Material : Carbon steel / Stainless steel



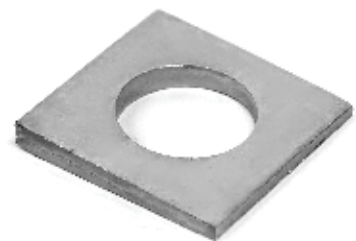
13. Plain Washer

Code No : DN - F - 0013
Material : Carbon steel / Stainless steel



14. Spring Washer

Code No : DN - F - 0014
Material : Carbon steel / Stainless steel



15. Taper Washer

Code No : DN - F - 0015
Material : Carbon steel / Stainless steel



16. Split Pin

Code No : DN - F - 0016
Material : Carbon steel / Stainless steel



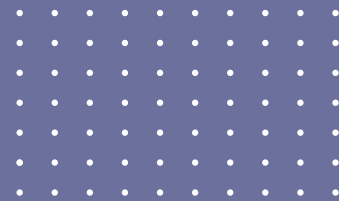
17. Counter Sunk Head Phillips Screw

Code No : DN - F - 0017
Material : Carbon steel / Stainless steel



18. SUS304 Hexagon Head Bolt (A2-70)

Code No : DN - F - 0018
Material : Stainless steel



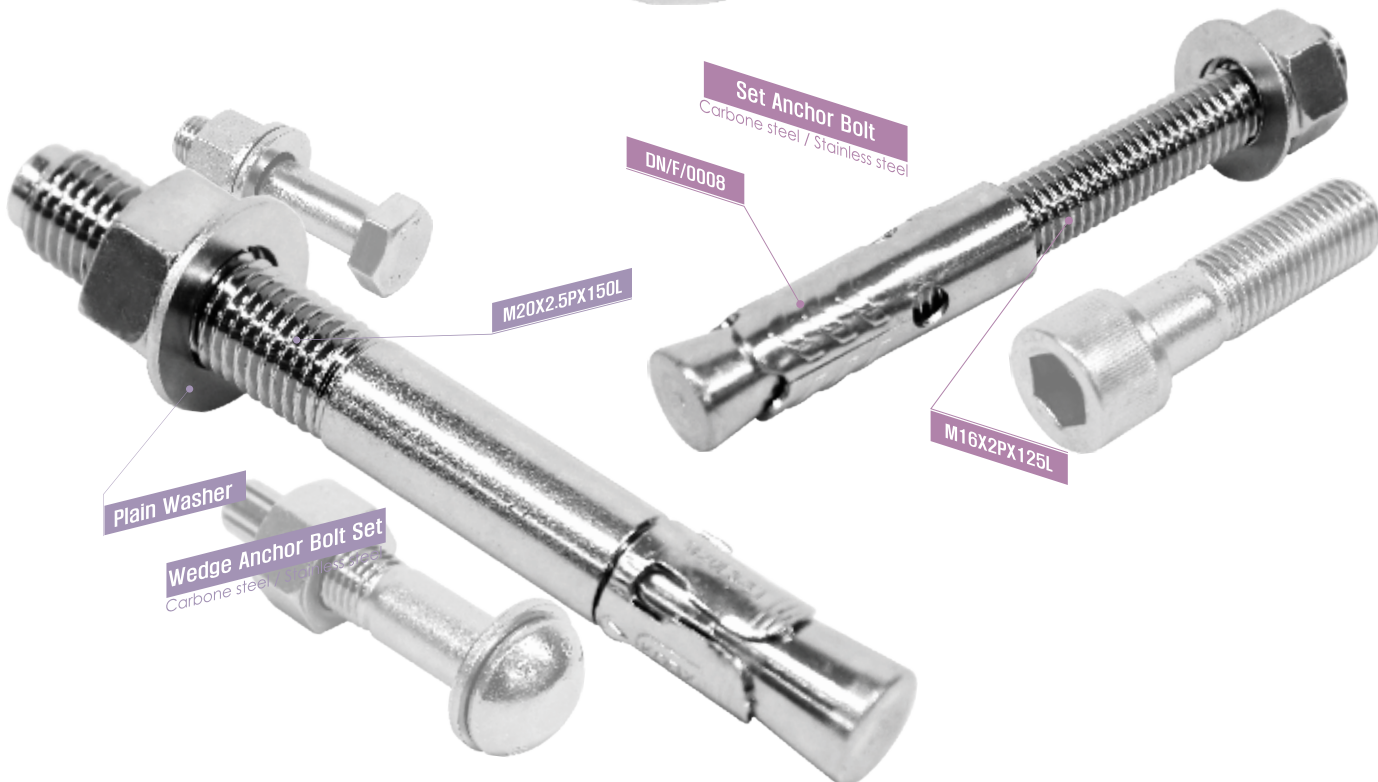
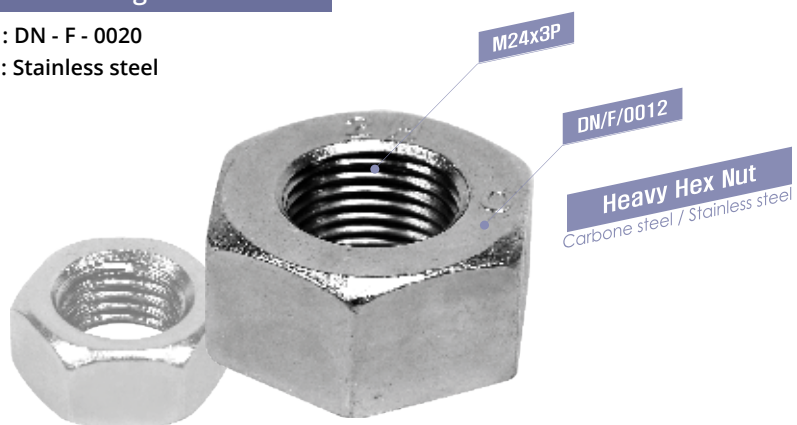
19. SUS304 Hex Nut (A2-70)

Code No : DN - F - 0019
Material : Stainless steel



20. SUS316 Hexagon Head Bolt

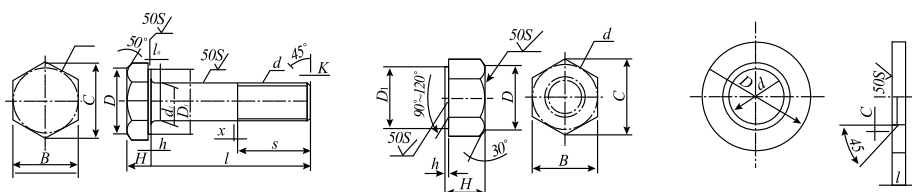
Code No : DN - F - 0020
Material : Stainless steel



TECHNICAL DATA

DONGNAM CORPORATION

Set of high strength hexagon bolt, hexagon nut and plain washers for friction grip joints KS B 1010 / JIS B 1186



Available Standard
ISO 14399-3, 14399-4
ISO, DIN, BSI, AS also available
Material : Boron Steel

Dimension

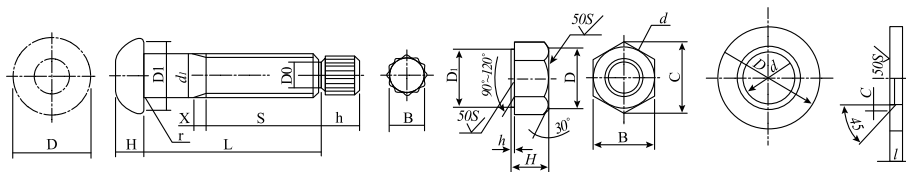
Nominal size of thread d x P	Bolt									Nut						Washer			
	d1	H	B	C app.	D app.	D1 app.	r	h	S	H	B	C app.	D app.	D1 app.	h	d	D	t	C
M12 x 1.75	12	8	22	25.4	20	20	0.8~1.6	0.4 ~ 0.8	25	12	22	25.4	20	20	0.4 ~ 0.8	13	26	3.2	1.5
M16 x 2.0	16	10	27	31.2	25	25	1.2~2.0		30	16	27	31.2	25	25		17	32	4.5	
M20 x 2.5	20	13	32	37.0	30	29			35	20	32	37.0	30	29		21	40		2.0
M22 x 2.5	22	14	36	41.6	34	33	40		22	36	41.6	34	33	23		44	6.0	2.4	
M24 x 3.0	24	15	41	47.3	39	38	1.6~2.4		45	24	41	47.3	39	38		25			48
M27 x 3.0	37	17	46	53.1	44	43			50	27	46	53.1	44	43		28	56		
M30 x 3.5	30	19	50	57.7	48	47	2.0~2.8		55	30	50	57.7	48	47		31	60	8.0	2.8

Mechanical Property

Bolt													Nut			Washer	
Class	Yielding Strength	Tensile Strength	Elongation	Reduction ratio in area	Hardness	Minimum Tensile Load(KN)							Class	Hardness	Proof Load	Class	Hardness
	N/mm ²	N/mm ²	%	%	HRC	M12	M16	M20	M22	M24	M27	M30					
F10T	900 over	1,000 ~ 1,200	14 over	40 over	27~38	84	157	245	303	353	459	561	F10	HRB 95 ~ HRC 35	Same as minimum tensile load of bolt	F35	HRC 35 ~ HRC 45

Set of torque-shear type high tension bolt, hexagon nut and plain washers for structural joints

KSD B 2819 / JSS || 09



Available Standard
ASTM F 1852
ASTM F 2280

Material : Boron Steel

Dimension

Nominal size of thread d x P	Bolt										Nut						Washer			
	d1	D1 min.	D min.	H	do	h app.	B	r	a-b max.	S	H	B	C	D	D1	h	d	D	t	c
M16 x 2.0	16	26	27	10	N.M	15	11.3	1.2~2.0	0.8	30	16	27	31.2	25	25	0.4 ~ 0.8	17	32	4.5	1.5
M20 x 2.5	20	33	34	13		18	14.1		0.9	35	20	32	37.0	30	29		21	40		2.0
M22 x 2.5	22	37	38.5	14		19	15.4		1.1	40	22	36	41.6	34	33		23	44	6.0	2.4
M24 x 3.0	24	41	43	15		20	16.8	1.6~2.4	1.2	45	24	41	47.3	39	38		25	48		
M27 x 3.0	27	47	49	17		22	19		1.3	50	27	46	53.1	44	43		28	51		
M30 x 3.5	30	53	55	19		24	21.1	2.0~2.8	1.5	55	30	50	57.7	48	47		31	60	8.0	2.8



Mechanical Property

Bolt												Nut			Washer	
Class	Yielding Strength	Tensile Strength	Elongation	Reduction ratio in area	Hardness	Minimum Tensile Load(KN)						Class	Hardness	Proof Load	Class	Hardness
						Average Assembly Lot Tension(KN)										
						Size										
						N/mm²	N/mm²	%	%	%	M16					
S10T	900 over	1,000 ~ 1,200	14 over	40 over	27~38	156.7	244.8	303.4	352.5	458.8	561.3	F10	HRB 95 ~ HRB 35	Same as minimum tensile load of bolt	F35	HRC 35 ~ HRC 45
						106~139	165~217	205~268	238~406	379~496	379~496					

Anchor Bolt(Foundation Bolts)

KS B 1016

Available Standard
ASTM F 1554
Other international standards

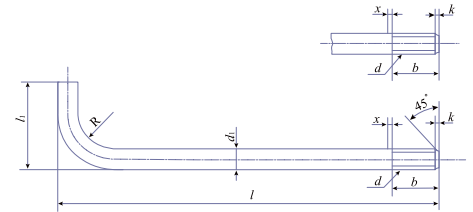


Dimension

L type anchor bolts

Unit : mm

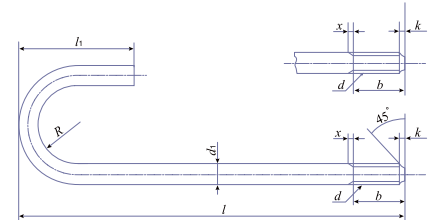
Nominal size of thread	d1		b		l1 appr.	R appr.	k appr.
	Basic	Toler.	Basic	Toler.			
M10 x 1.5	M10 x 1.5	±0.4	25	+6.3, 0	M10 x 1.5	M10 x 1.5	M10 x 1.5
M12 x 1.75	M12 x 1.75		32	+8 0	M12 x 1.75	M12 x 1.75	M12 x 1.75
M16 x 2.0	M16 x 2.0	±0.5	40		M16 x 2.0	M16 x 2.0	M16 x 2.0
M20 x 2.5	M20 x 2.5				M20 x 2.5	M20 x 2.5	M20 x 2.5



J type anchor bolts

Unit : mm

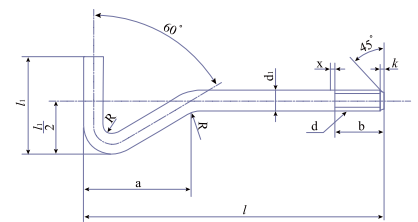
Nominal size of thread	d1		b		l1 appr.	R appr.	k appr.
	Basic	Toler.	Basic	Basic			
M10 x 1.5	10	±0.4	25	+6.3, 0	45	20	1.5
M12 x 1.75	12		32	+8 0	56	25	2
M16 x 2.0	16	±0.5	40		71	32	2
M20 x 2.5	20		50	+10 0	90	40	2.5
M24 x 3.0	24	±0.6	63		112	50	3
M30 x 3.5	30		80	+10 0	140	63	3.5
M36 x 4.0	36	±0.7	90		160	71	4
M42 x 4.5	42	±0.8	112	+12.5, 0	200	90	4.5
M48 x 5.0	48	±0.9	125		224	100	5



LA type anchor bolts

Unit : mm

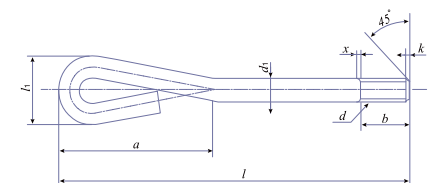
Nominal size of thread	d1		b		l1 appr.	a appr.	R appr.	k appr.
	Basic	Toler.	Basic	Toler.				
M8 x 1.25	8	±0.4	20	+6.3, 0	32	41	8	1.2
M10 x 1.5	10		30	+8 0	40	51	10	1.5
M12 x 1.75	12	±0.5	35		50	64	12	2
M16 x 2.0	16		40	-10 0	63	81	16	2
M20 x 2.5	20	±0.5	50		80	102	20	2.5
M24 x 3.0	24		80	-12.5, 0	100	127	24	3
M30 x 3.5	30	±0.5	90		125	158	30	3.5
M36 x 4.0	36	±0.6	110	-12.5, 0	140	181	36	4
M42 x 4.5	42	±0.7	125		180	226	42	4.5
M48 x 5.0	48	±0.8	150		200	252	48	5



JA type anchor bolts

Unit : mm

Nominal size of thread	d1		b		l1 appr.	R appr.	k appr.
	Basic	Toler.	Basic	Toler.			
M10 x 1.5	10	±0.4	30	-6.3, 0	35	50	1.5
M12 x 1.75	12		35	+8 0	40	65	2
M16 x 2.0	16	±0.5	40		55	85	2
M20 x 2.5	20		50	+10 0	70	105	2.5
M24 x 3.0	24	±0.5	80		80	125	3
M30 x 3.5	30		90	+10 0	100	155	3.5
M36 x 4.0	36	±0.6	110		120	190	4
M42 x 4.5	42	±0.7	125	-12.5, 0	140	220	4.5
M48 x 5.0	48	±0.8	150		160	250	5



Also we can manufacture all type anchor bolts such as Chemical Anchors, Set Anchor etc.

Welding Stud(Headed Studs)

KS B 1062



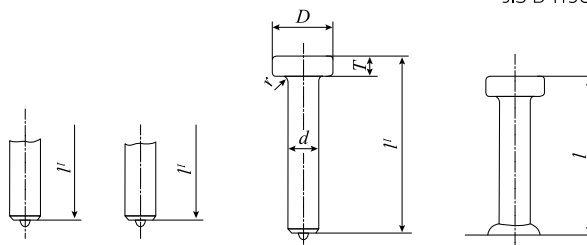
Dimension

(Unit : mm)

Nominal size	Stud dia. d(mm)	Head dia. d(mm)	Thickness T min.(mm)	Fillet Radius r min.(mm)	Length l'(mm)	Weight (g)
13(½inch)	13±0.3	22±0.4	10	2	80	107
					100	128
					120	149
16(⅝inch)	16±0.3	29±0.4			80	162
					100	194
					120	226
19(¾inch)	19±0.4	32±0.4			80	219
					100	264
					130	308
22(⅞inch)	22±0.4	35±0.4			150	375
					80	294
					100	353
25(1inch)	25±0.4	41±0.4	130		443	
			150		503	
			100		456	
			130		572	
					150	650
					200	845



Available Standard
ISO 13918
ANSI/AWS D1.1
JIS B 1198



Mechanical Property

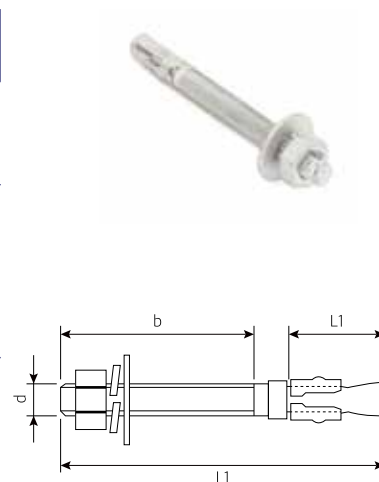
Grade	0.2% offset or Yielding strength(N/mm ²)	Tensile strength(N/mm ²)	Elongation
HS1	235 min	400 ~ 500	20% min
HS2	350 min	500 ~ 650	17% min

Tensile load of welding section

Nominal size			13	16	19	22	25
Tensile load(KN)	HS1	min.	53.1	80.4	113	152	196
		max.	73.0	111	156	209	270
	HS2	min.	66.4	101	142	190	245
		max.	86.3	131	184	247	319
Area of Stud Section(mm²)			133	201	284	380	491

Wedge A/C

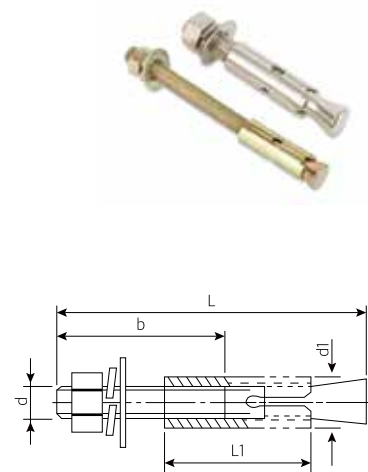
Sleve Size	Total Length L (mm)	Thread Length L1 (mm)	Large Boole Depth b (mm)	Small Fastenable (mm)	Drill Size (mm)	Tensile Strength (Kgf)
M8	75	25	65	10	8	2,500
	95	25	65	30		
	115	25	65	50		
M10	80	30	70	10	10	3,500
	90	30	70	20		
	110	35	70	40		
	120	35	100	20		
	140	35	100	30		
M12	70	30	60	10	12	4,250
	90	30	70	20		
	110	35	90	20		
	120	35	95	25		
	140	35	95	45		
M16	120	40	110	10	16	7,000
	145	40	115	30		
	160	40	115	45		
	220	40	170	50		
M20	150	45	115	35	20	12,250
	170	45	130	40		
	220	45	150	70		
	270	45	240	70		



Material : Carbon Steel

Set A/C

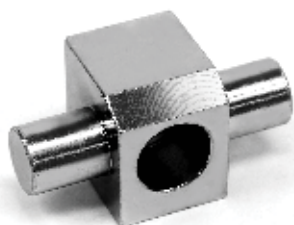
Sleve Size	full Length L (mm)	Screw Length b (mm)	Cap Length d (mm)	Drill Bit 1 (mm)	Min. Drill Depth (mm)	Max. Tensile Strength (Kgf)	Max. Shear Strength (Kgf)
M6 (W1/4)	50	20	30	100	33	1,080	900
M8 (W5/16)	60	25	35	12	38	1,835	1,200
	70	35					
M10 (W3/8)	70	40	40	14	44	2,160	2,100
	100	50					
M12 (W1/2)	100	60	50	17	55	3,200	3,400
	125	80					
	150	100					
M16 (W5/8)	100	80	60	21.5	65	4,300	5,300
	125	80					
	150	100					
M20 (W3/4)	150	80	75	25	85	6,500	7,500
	200	130					
	250	180					
M22 (W7/8)	200	120	100	28	110	8,000	10,000
	250	170					
	300	220					
M24 (W1)	200	100	120	32	130	10,000	12,000
	250	150					
	300	200					



Material : Carbon Steel

D. PRECISION MACHINING PART

DONGNAM CORPORATION



1. Adjuster Nut

Code No : DN - M - 0001
Material : Carbon steel



2. V-Bolt

Code No : DN - M - 0002
Material : Carbon steel / Stainless steel



3. Square-End Stud Bolt

Code No : DN - M - 0003
Material : Carbon steel / Stainless steel



4. Ring Nut

Code No : DN - M - 0004
Material : Carbon steel



5. Adjuster Ring

Code No : DN - M - 0005
Material : Carbon steel / Stainless steel



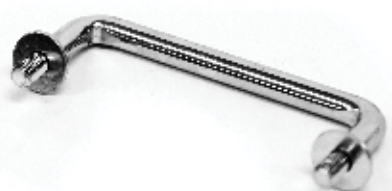
6. Hook Bolt

Code No : DN - M - 0006
Material : Carbon steel / Stainless steel



7. Ball Head Bolt

Code No : DN - M - 0007
Material : Carbon steel / Stainless steel



8. Handle Bolt

Code No : DN - M - 0008
Material : Carbon steel



9. Load Plate-Upper Layer

Code No : DN - M - 0009
Material : Carbon steel



10. Load Plate-Downer Layer

Code No : DN - M - 0010
Material : Carbon steel



11. Travel Indicator

Code No : DN - M - 0011
Material : Carbon steel



12. Roller

Code No : DN - M - 0012
Material : Carbon steel



13. Indicator Piece

Code No : DN - M - 0013
Material : Carbon steel



14. PM-1

Code No : DN - M - 0014
Material : Carbon steel



15. PM-2

Code No : DN - M - 0015
Material : Carbon steel



16. PM-3

Code No : DN - M - 0016
Material : Carbon steel



17. PM-4

Code No : DN - M - 0017
Material : Carbon steel



18. PM-5

Code No : DN - M - 0018
Material : Carbon steel

E. APPLICATION PART

DONGNAM CORPORATION



1. Constant Springs

Model : CHH-A / Type : A



2. Constant Springs

Model : CHV-C / Type : C



3. Constant Springs

Model : CHV-D / Type : D



Enlargement of application area



Enlargement of application area



4. Variable Springs

Model : VS30, VM60, VL120



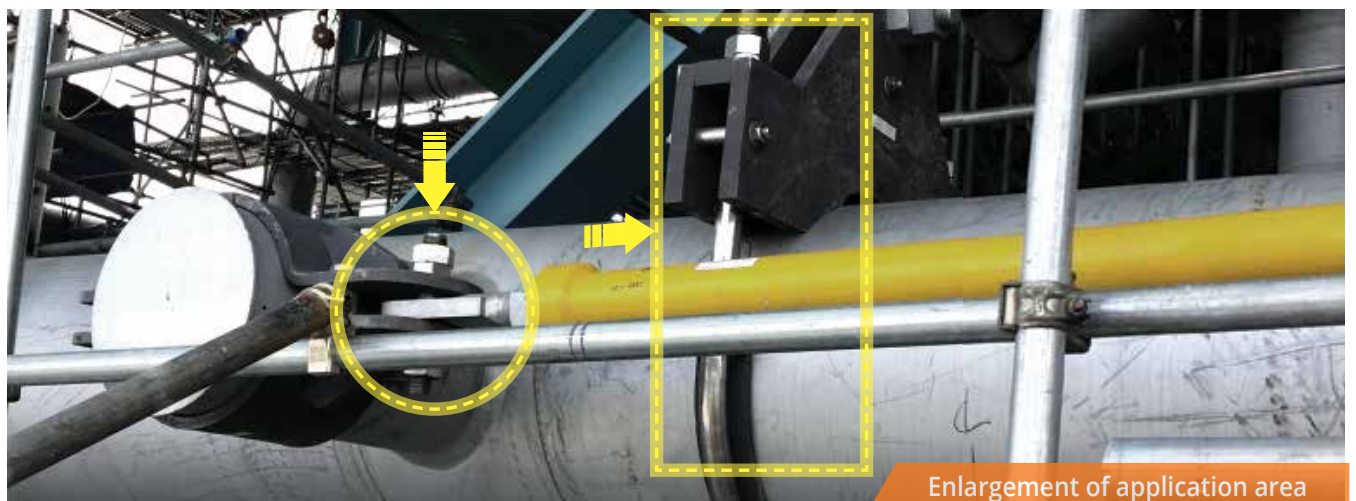
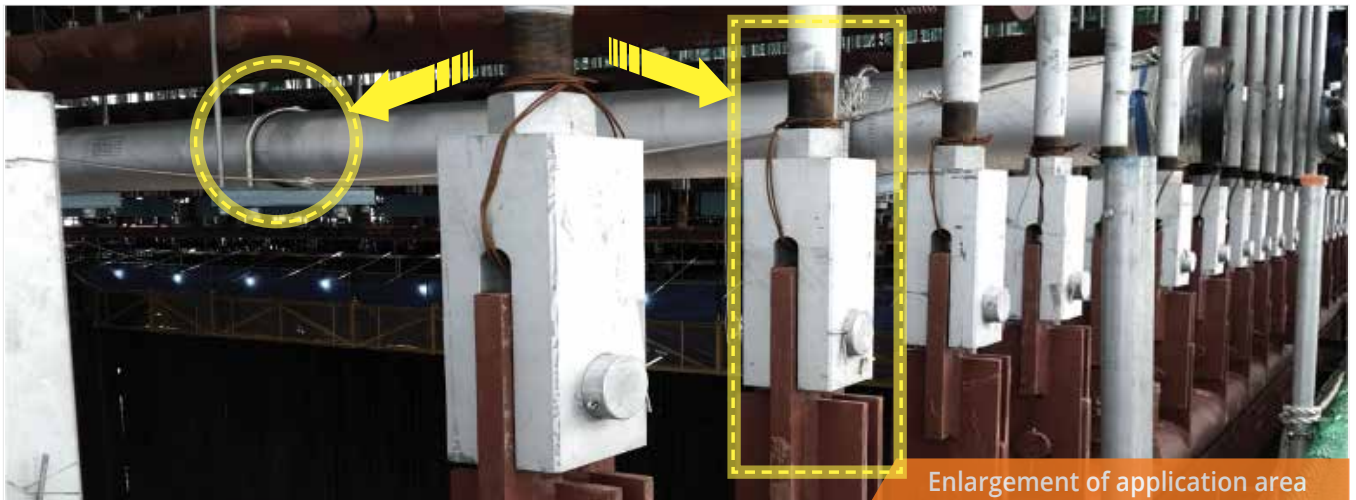
5. Variable Springs

Model : VS30, VM60, VL120



6. Variable Springs

Model : VS30, VM60, VL120





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