

THE STRENGTH IN THE INVISIBLE PLACE

BOLT | NUT | MATERIALS







**We always produce the best products
through continuous innovation and challenge**

DONGAH Co., Ltd. Provides customers with the highest quality products with independent and advanced technology in the field of construction heavy equipment parts, iron-making equipment ROLL field, heat treatment of marine engine parts material, high-tensile bolts for steel bridge best service, we will grow into a global first-class company by creating value for companies and fulfilling corporate social responsibilities,customers

CORPORATE OVERVIEW



CORPORATE HISTORY

1960 ~ 2009

1961. 06	Established Young Deung Po Plant
1967. 05	Obtained the authorization of using korean standard symbol mark(K,S MARK) for bolt, nut and rivet from Korean government,
1978. 08	Moved to Incheon Bupyeong Factory
1991. 12	Moved to Changwon Bolt Factory
1994. 02	Unpainted bolt patent
1994. 04	Designated as a self-calibration inspection institution by the Industrial Promotion Administration
1994. 06	Obtained the authorization of using korean standard symbol mark(K,S MARK) for set of High Strength Hexagon Bolt, NUT and Plain Washer for Friction Grip Joints(KSB 1010)
1995. 10	Obtained KOMATSU Certificate of Heat treatment for Track bolt & nut from KOMATSU OSAKA PLANT
1996. 06	Patent for high-tensile nut manufacturing method using non-tempered steel for hot forging
1997. 06	Obtained the authorization of ISO 9001 (Quality Management) from TUV BAYERN SACHSEN in Germany
2003. 04	Obtained the authorization of JIS MARK CERTIFICATE (JIS B 1186) for set of High Strength Hexagon Bolt, Nut and Plain washers for Friction Grip Joints
2005. 07	Obtained the authorization of ISO 14001 (Environment Management) from TUV BAYERN SACHSEN in Germany
2008. 09	Obtained the certification of Korea Electric Power Industry Code(KEPIC)

2010 ~

2010. 10	Change of company name "Dong Ah Bolt Co., Ltd"
2012. 12	Won the trophy for exporting \$5,000,000 worth of products at the 49th Trade Day ceremony
2014. 07	Obtained certification for CE
2014. 08	Changed the name to Dong Ah CO., Ltd(extension of business for Metal Heat Treatment)
2015. 07	A merger with Jinsung Heat-Treatment Co., Ltd
2016. 09	17th SME Technology Innovation Exhibition Presidential Citation for [Single PPM Quality Innovation]
2016. 10	DNVGL ship classification heat treatment process approval
2016. 12	ABS ship classification heat treatment process approval
2017. 09	Obtained Certificate(INNO-BIZ) for a technical innovation corporation
2018. 05	Obtained the certificate of JSS II - 09 S10T high tension bolt from the minister of Japan National Transportation
2018. 07	Selected as a company specialized in materials and parts by Ministry of Trade, Industry and Energy
2019. 11	Selected as World Class Product [Set of Tor-shear Type High Strength Bolt, Hexagon Nut and Plain Washer for Structure Joints]
2019. 12	Won the trophy for exporting \$10,000,000 worth of products at the 56th Trade Day ceremony
2021. 05	Selected as a global small giant by th Ministry of SMEs and Startups
2023. 04	Acquired certification of CE (EN 14399-1/3/4/5/6/10 & 15048-1 & A325, A490)

MANAGEMENT PHILOSOPHY

Value

Based on the constant challenge and pioneering spirit, we will create and lead new corporate values in the coming future, and establish ourselves as a company that stands at the center of the predicted future.

Technology

We will pursue customer satisfaction through technology research and development & quality guarantee activities, and external competitiveness through continuous quality improvement activities.

Customer

First, we will create value with customers by thinking about them and running a company centered on customer trust and service.

BOLT BUSINESS DEPARTMENT

All products produced by DONGAH Co., Ltd. are used throughout the industry, such as high-tensile bolts used for joint steel structures in steel bridges and construction sites, and track bolts used for assembling heavy equipment tracks in the construction heavy equipment industry. We are actively in the development of new products that can adapt to customer needs.



MAIN PRODUCTS	CAPABILITY
CONSTRUCTION HIGH STRENGTH BOLT, NUT, WASHER - HIGH STRENGTH BOLT, NUT, WASHER - TORQUE SHEAR BOLT, NUT, WASHER - HEX CAP SCREW(CLASS 4.6, 8.8, 10.9, 12.9) HEX NUT(CLASS 8, 10, 12)	20,000 TON/Year
HEAVY EQUIPMENT TRACK BOLT, NUT	10,000 TON/Year

HIGH TENSILE PART

High tensile bolts produced by DONGAH Co., Ltd. are used for fastening steel bridges and steel structures at construction sites, and are actively engaged in the development of new products that can adapt to various fields and customer needs.

HEX HEAD STYLE BOLT NUT AND WASHER SET



SIZE RANGE

DIA : M12 - M30 (1/2" - 1 1/4")

LENGTH : 30 - 300mm (1 1/4" - 12")

APPLICABLE SPECIFICATION

KS B 1010

JIS B 1186

ASTM A325/A490

EN 14399-3/4

CUP HEAD STYLE BOLT NUT AND WASHER SET



SIZE RANGE

DIA : M16 - M30 (5/8" - 1 1/4")

LENGTH : 40 - 300mm (1 5/8" - 12")

APPLICABLE SPECIFICATION

KS B 2819

JSS II-09

ASTM F1852/F2280

EN 14399-10

INDUSTRIAL PART

Bolts and nuts produced by DONGAH Co., Ltd. are actively engaged in the development of new products that can be adapted to various fields and customer needs.

HEX CAP SCREW BOLT AND NUT



APPLICATION



BOLT	NUT
SIZE RANGE	
DIA : M6 - M80 (1/4" - 3")	DIA : M8 - M80 (1/4" - 3")
LENGTH : 30 - 300mm (1 1/4" - 12")	
APPLICABLE SPECIFICATION	
SAE J429 ASTM A193,A354	KS B1012, JIS B1181
KS B1002, JIS B1180	ASTM A194, A563
ANSI/ASME B 18.2.1	SAE J995, DIN 934/6915
DIN 931/933, BS3692A	BS 3692
EN 15048 – 1/2	

HEAVY EQUIPMENT PART

The Track bolts produced by DONGAH Co., Ltd. are used for assembling tracks for heavy construction equipment, and are actively engaged in the development of new products that can adapt to various fields and customer needs.

TRACK BOLT AND NUT



APPLICATION



SIZE RANGE

DIA : M12 - M30 (1/2" - 1 1/4")

LENGTH : 30 - 200mm (1 1/4" - 8")

APPLICABLE SPECIFICATION

Tensile strength of over 170,000
PSI (14% higher than SAE grade 8)

Hardness of Rockwell HRC 38-42
securing

MATERIAL BUSINESS DEPARTMENT

DONGAH Co., Ltd. has continuous induction heat treatment technology that can impart uniform surface hardness, excellent wear resistance, and mechanical properties to Long Round Bar materials developed independently, long round rod materials for stay-bolt for ship engines, stud bolt, pin for construction heavy equipment, shaft, etc. meet the needs of customers with the best heat treatment quality, it is provided with the best delivery date.



MAIN PRODUCTS	Capability
Continuous heat treatment	54,000 TON/Year
2ROLL	18,000 TON/Year
Peeling	9,000 TON/Year

MATERIAL BUSINESS FACILITIES

DONGAH Co., Ltd. is striving to always show the best products by securing the best quality, the highest level of competency and technological competitiveness through observance of the basics and principles.



CONTINUOUS INDUCTION HEAT TREATMENT - QUENCHING CONTROL UNIT

Performance

- Q" 1,000kw/0.2khz, 700kw/0.2khz
- T" 400kw/0.2khz

Working Range

- Ø25~Ø300×15M



2-ROLL STRAIGHTENING LINE

Performance

- up to 350 HB

Working Range

- Ø35-Ø130mm max, 11m length for Straightening line

Straightness

- 5mm/m (incoming material)
- 1mm/m (finished material)



BACK 2-ROLL STRAIGHTENING LINE

Performance

- upto350HB

Working Range

- Ø20-Ø80mm max, 8m length for Straightening line

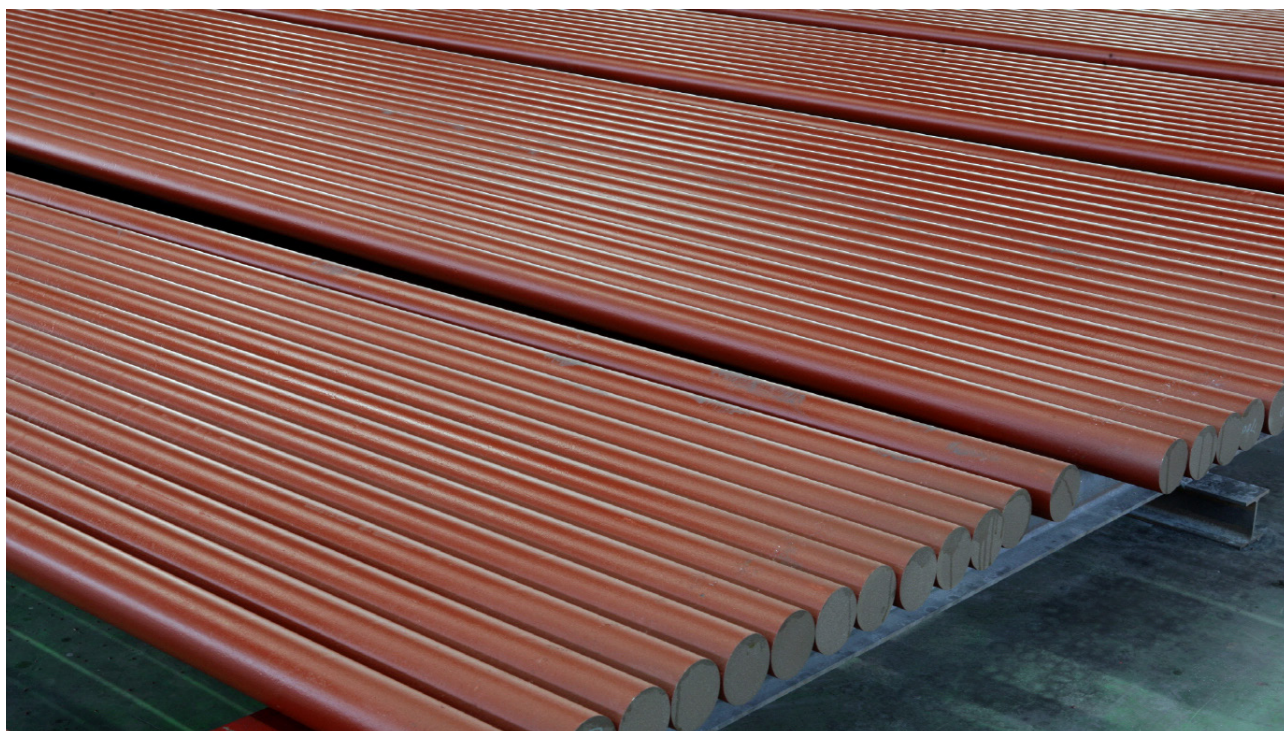
Straightness

- ≤1mm/m (incoming material)
- ≤0,3 mm/m (finished material)

MATERIAL BUSINESS PART

DONGAH Co., Ltd. has continuous induction heat treatment technology that can impart uniform surface hardness, excellent wear resistance, and mechanical properties to Long Round Bar materials developed independently, long round rod materials for stay-bolt for ship engines, stud bolt, pin for construction heavy equipment, shaft, etc. meet the needs of customers with the best heat treatment quality, it is provided with the best delivery date.

STAY BOLT FOR MARINE ENGINES



APPLICATION



FEATURE

Continuous induction heat treatment ($\phi 25\text{mm} \sim \phi 300\text{mm} \times \text{L15M}$)

Uniform hardness and mechanical properties ($\pm \text{HB20}$)

Spray-Quenching

- Deep and uniform surface hardness
- Less deformation during the heat treatment

*Source : HSD Engine brochure

MATERIAL BUSINESS PART

DONGAH Co., Ltd. has continuous induction heat treatment technology that can impart uniform surface hardness, excellent wear resistance, and mechanical properties to Long Round Bar materials developed independently, long round rod materials for stay-bolt for ship engines, stud bolt, pin for construction heavy equipment, shaft, etc. meet the needs of customers with the best heat treatment quality, it is provided with the best delivery date.

PIN



APPLICATION



SIZE RANGE

- Stay Bolt & Stud Bolt For Marine engines
- Heavy equipment CYL/LOD&PIN
- Long Steel Bar
- 2ROLL Straightening
- Peeling

QUALITY MANAGEMENT

DONGAH Co., Ltd has established a quality system and has been certified as the best quality in construction sites through continuous improvement and management for 60 years of continuous improvement and management for sets of high-tensile bolts for joining large structures such as steel structures, bridges, nuclear power plants, and buildings



Realization of customer impressions

Practice independent quality activities, set and achieve quality goals, and prevent recurrence of quality defects.



Optimum quality system

Establish a prior management system and continuously prevent the recurrence of quality defects.



The best products and services

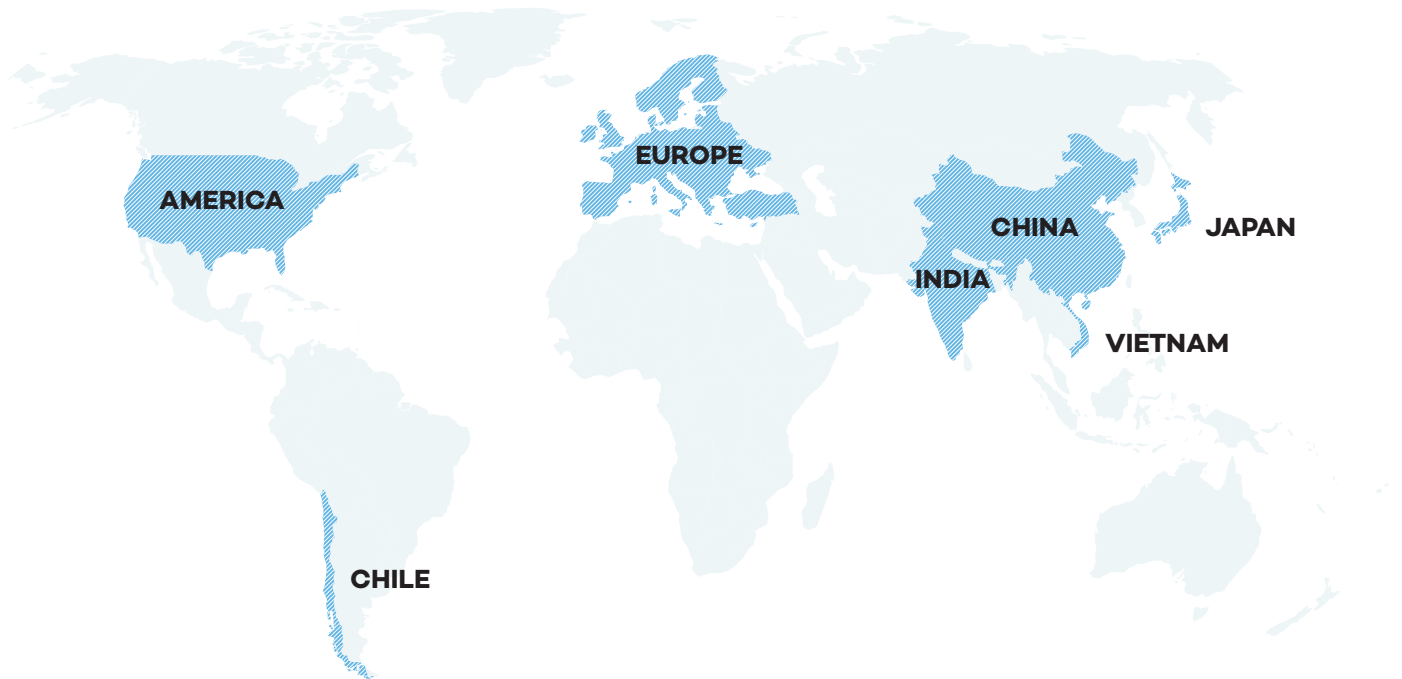
Securing the highest quality, highest level of competitiveness and technology through compliance with basics and principles.



DELIVERY PERFORMANCE

DONGAH Co., Ltd provides the best service to customers with the highest quality products with its independent and advanced technology, and through this, will grow into a global leading company by creating value for the company and customers and fulfilling its corporate social responsibilities.

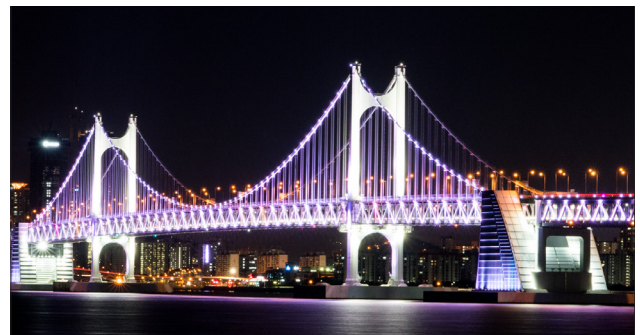
OVERSEAS PERFORMANCE



DOMESTIC PERFORMANCE



Geoga Bridge



Kwangnan Bridge



Lotte World Tower



63 Building

Bolt Division

Changwon Company

Tel 055-273-4581~4

Fax 055-273-3122

Seoul Office

Tel 031-383-4613

Fax 031-383-4615

Material Division

Changwon Company

Tel 055-286-2201~2

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