

## 1. Outline of Firm

Name of Firm	TOHOKU BOLT MFG Co.,Ltd			Representative	Ryuichiro Sekiguchi		
				Person in Charge	Yoichi Sano		
Activities	Metal products production			URL	<a href="http://toughokunedi.com">http://toughokunedi.com</a>		
Main Products	Rail products, Anchor for construction, General use bolts						
Address	ZIP 971-8184 59 Aza Jari, Kurosuno, Izumi-cho, Iwaki-shi, Fukushima-ken JAPAN						
TEL/FAX	0246-56-4751 / 0246-56-4575			E-mail	y.sano@toughokunedi.com		
Capital(M Yen)	18	Founded	Sep. 1950	Sales (M Yen)	2,400	Employees	117

## 2. PR Items

### *Leading Company for hot forging • heat treatment bolts*

~We manufacture SPECIAL BOLTS and SCREWS~ which satisfy our customer's needs with full manufacturing equipment and wealth experience.

#### ● 『 Hot forging and component rolling for special shape and large diameter (up to M90) bolt 』

We have been dealing with fastening bolt for railway and bolts for highway tunnel. However, in recent year, corresponding with general use such as bolts for construction machinery, construction, cars, railroad and power wind.

#### ● Our advantage

##### ◆ Integrated manufacturing with our company's equipment

Our company handles all manufacturing process internally from cutting materials, forging, and heat treatment to thread rolling. As the whole production process is in-house, we are able to get production traceability.

##### <Ability>

Forging	max. $\phi$ 100	L=1200
Lathe Process	max. $\phi$ 300	L=1200
Heat treatment		L=1200



Case type heat treatment furnace



Servomotor drive screw press



Shot blasting

##### ◆ Quality control system based on ISO 9001

Tohoku bolt introduced a Quality Management System to keep providing high quality reliable JIS products as Japanese Industrial Standards licensed factory. We obtained Japanese Industrial Standards written permission for "JIS E 1108 Dog spike" in October in 1952. Shortly after that, we obtained the other JIS written permission for "Hexagon heat bolt" and "Fish plate bolt". Including the "Screw spike", we obtained in total 4 JIS written permissions and 4 JIS certifications.

##### <Main inspection equipment>



\*Horizontal wet type magnetic particle flaw detector

\*Rockwell Hardness tester

\*3000kN Universal Tensile tester 3000kN

##### ◆ 1<sup>st</sup> in the world / Control micro level on large diameter bolts

We have developed the manufacturing process which unified the step of hot forging and heat treatment. This is the first in the world in large diameter bolts field. By combining with our simulation technology, we control the metal crystal structure at the micro level and manufacture products with uniform and accurate metal crystals.



Railways



Energy plants



Machine parts

## 3. Remark & Reference

- We will provide high quality bolts at reasonable prices to contribute to safe and secure infrastructure development.
- Welcome for contacting with English.