General information of Sannohashi

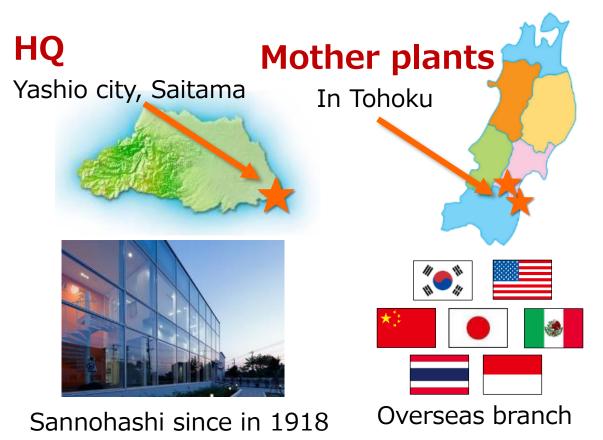
Company overview



Drivetrain parts (Engine, Transmission) Body parts (Suspension, Chassis) etc.

High-strength bolt· Critical safety componebts

Development and sales of Fatening systems and measurement technology



PresidentSuguru
Nagashima

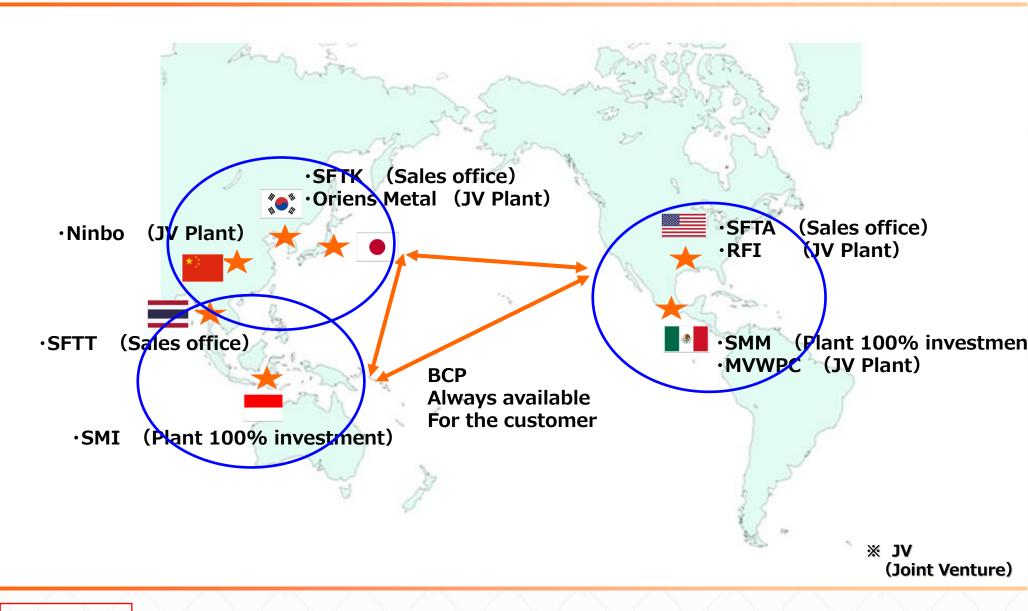




Sannohashi Team 500 people

Overseas branch





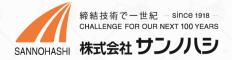
Our customers



✓ We supply products to many mobility manufacturers



Our history



√ 100 years experience of Forging

| 1918 | Founded as Sannohashi Seisakusho |
|--------|---|
| 1950's | Commenced business with Nissan Moter Corporation Started mass production of cylinder head engine bolts. |
| 1981 | Established Mother plant in Tohoke rejoin |
| 2002 | Commenced business with Mitsubishi Motors Corporation in USA |
| 2016 | Commenced business with Honda Motor Corporation HONDA and Suzuki Motor Corporation in Indnesia SUZUKI |
| 2018 | Account opening with Mitsubishi Motors Corpoation in Japan and Indnesia Obtained IATF16949 (Automotive) certification 100th Anniversary of Founding |
| 2022 | Obtained JIS-Q-9100 (Aerospace) certification |

Heat Treatment Process



Overview

| Mesh Belt Type Non-Oxidizing Continuous Heat Treatment Furnace | | | | |
|--|---|--|--|--|
| Monthly Production Weight (Actual) | 150t/month | | | |
| Monthly Processing Capacity | 400t/month | | | |
| Processing Weight per Hour | 850kg/h | | | |
| Applicable Processing | •Quenching and tempering (Low decarburization) •Stress Relieving Annealing (To 650°C) | | | |
| Applicable Steel Grades | Carbon Steel Cr-Mo Steel Boron Steel etc··· | | | |
| Actual Performance (Product Types) | Bolts Automotive parts others | | | |
| Actual Performance (Strength) | ISO8.8~ISO12.9 | | | |

Advantages of Continuous Furnace

| Fuurnance type | | Continuous Furnace | Batch Furnace | |
|-----------------|----------------|-------------------------|-------------------------|--|
| Applicable Size | | 0 | © | |
| Cost | | © | Δ | |
| Cycle time | | © | Δ | |
| Quality | Variation | © | 0 | |
| | Appearance | 0 | 0 | |
| | Dent | △→○ | © | |
| | | Low Decarburization | Low Decarburization | |
| Surface C | Carbon Control | Zero Carbon Penetration | Zero Carbon Penetration | |
| | | | Carburization | |



• High strength engine bolts

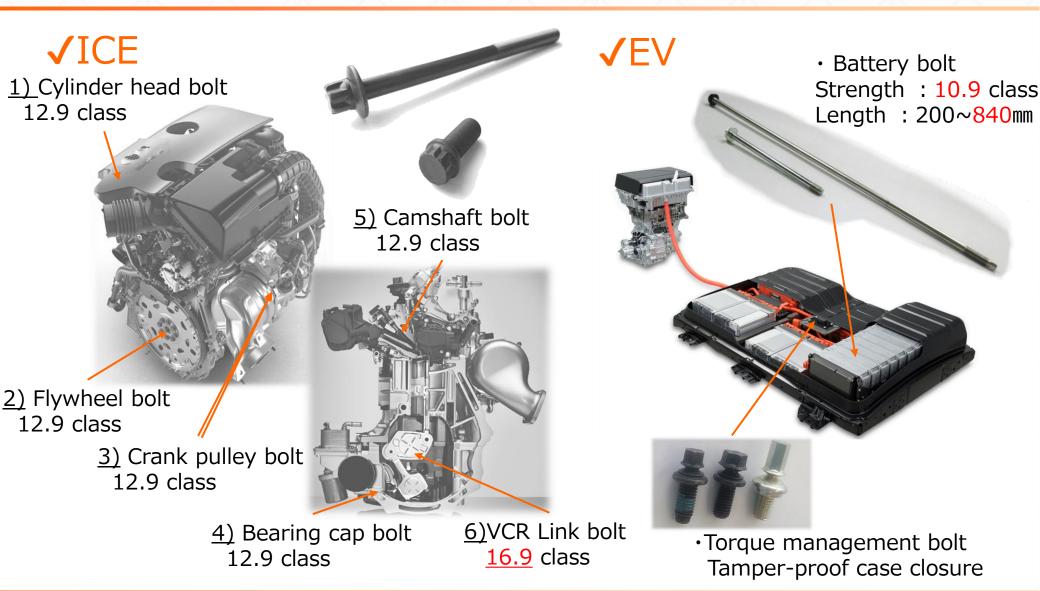


Automotive parts



Sannohashi's Mono-zukuri BOLT





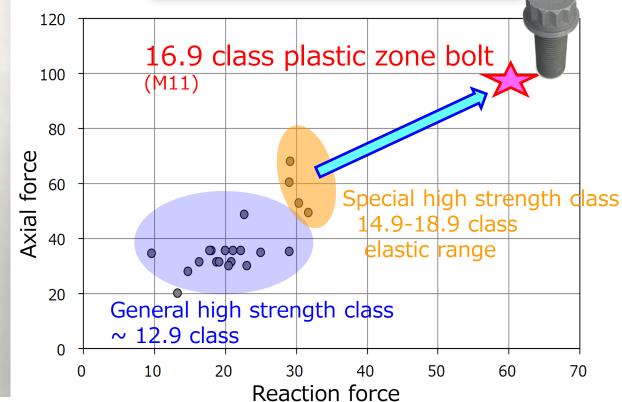
Only one Mono-zukuri in the world







Approximately TWICE the power of conventional axial force



Sannohashi's Mono-zukuri Precision forging #式会社 サンノハシ







LSD final drive Module 2.5

"Helical gear" Over 1 million pieces

Toothless

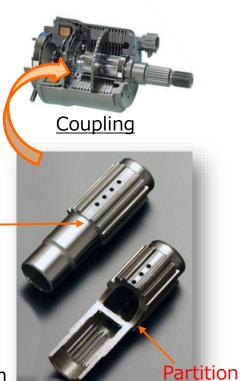


Motorcycle transmission

"Hollow shaft" Over 5 million pieces

Centering of both gears

"Shift drum center gear for motorcycles"



shaft drive



Spline length: Over 100 Over 100 thousand pieces



Over 5 million pieces

We materialize your wish



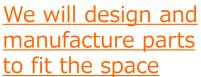








Near net shape











Urgent and exceptional action

SMM History

Oct 2012



| Oct, 2012 | Company i dunded |
|-----------|---|
| Jan, 2013 | Starts Sales Operations |
| Apr, 2013 | Plant facility completed |
| May, 2014 | Mass Production starts |
| Aug, 2014 | Assessment Audit approved by NISSAN |
| Sep, 2014 | TIER 1 Business starts |
| Dec, 2015 | Mass Production for NISSAN starts (Fastener Business) |

(Fastener Business)

ISO:9001 Obtained

IATF 16949 Obtained

Company Founded

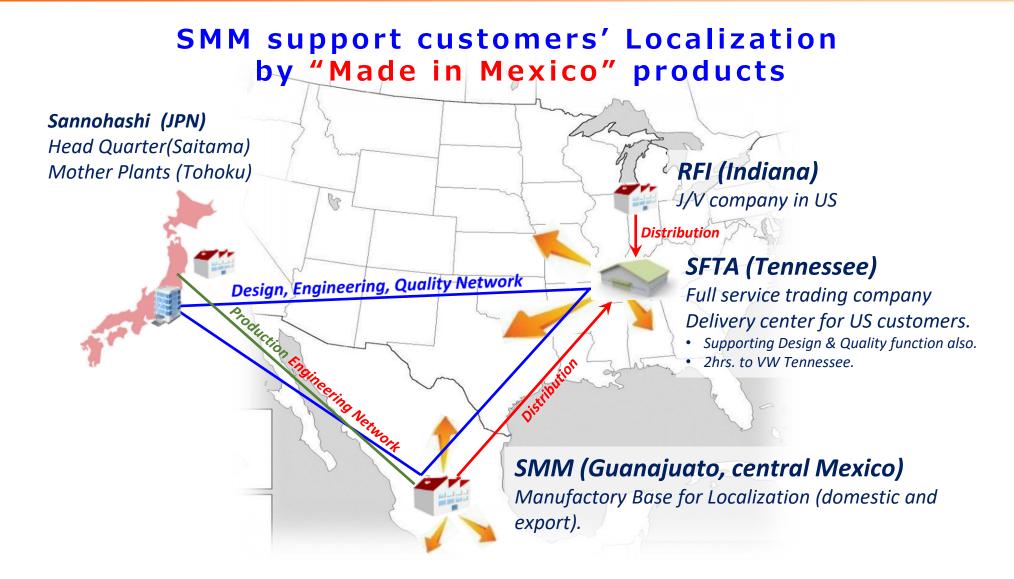


Apr, 2017

Oct, 2022

North America Network





Location (Puerto Interior)



SANNOHASHI



- ✓ Neighboring to Int'l Airport Leon (BJX)
- ✓ 30 min. drive from downtown of León
- ✓ Approx. 50 Japanese companies in the same industrial park

Products



✓ For Steering System



Pinion Gear

√ For Engine Units



Crank Pulley Bolt, Cam Shaft Bolt, etc.



Ball stud, Tie Rod, Outer Sockets



Cylinder Head Bolt, etc.

Products



✓ For Suspension Syste







Body Mounting Pins

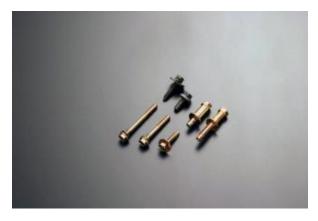


Dog Bone (for fixing Suspension)

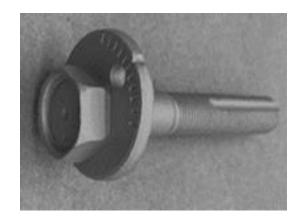
✓ For Body System & others



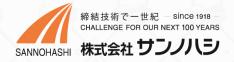
Various Flange Bolts



Flange Bolts with Washer Assembly



Toe Adj. Bolt



Thank you for your attention

Contact info:

Tomoyuki Kubota, SMM General Manager of Sales t.kubota@smmexico.mx

Carlos Sanchez, SMM Sales Manager sales.manager@smmexico.mx

Hugo, Frausto, SMM, Sales rep.ventas@smmexico.mx

