
Welcome to KGM



Kinugawa Rubber Group

Core Business

Motivated by our driving principle, "to manufacture products our customers can trust," we are striving to deliver the highest quality product from each of our processes; from design and development to final production, while establishing a strong, resilient corporate structure that is responsive to any kind of change.

Takashi Moriuchi, President

Kinugawa Group Presence

24 Plants
Globally



Kinugawa Zhengzhou

Body seal parts
Molded parts
Antivibration parts



Kinugawa Wuhu

Body seal parts
Antivibration parts
Molded parts



**Fuzhou Fukwang
Fuzhou Teito**

Body seal parts
Hose parts
Antivibration parts



Teito Rubber

Hose parts



**TEPRO
(Tennessee)**

Body seal parts



Kinugawa Guangzhou

Body seal parts
Molded parts



**Head Office—Technical
Development Center
(Chiba, Japan)**



Kinugawa India

Body seal parts
Hose parts



**Kinugawa
Thailand**

Body seal parts
Hose parts

CPR

Molded parts
Antivibration
parts



**PT. Kinugawa
Indonesia**

Body seal parts



Chung Kwang Rubber

Body seal parts
Molded parts
Antivibration parts

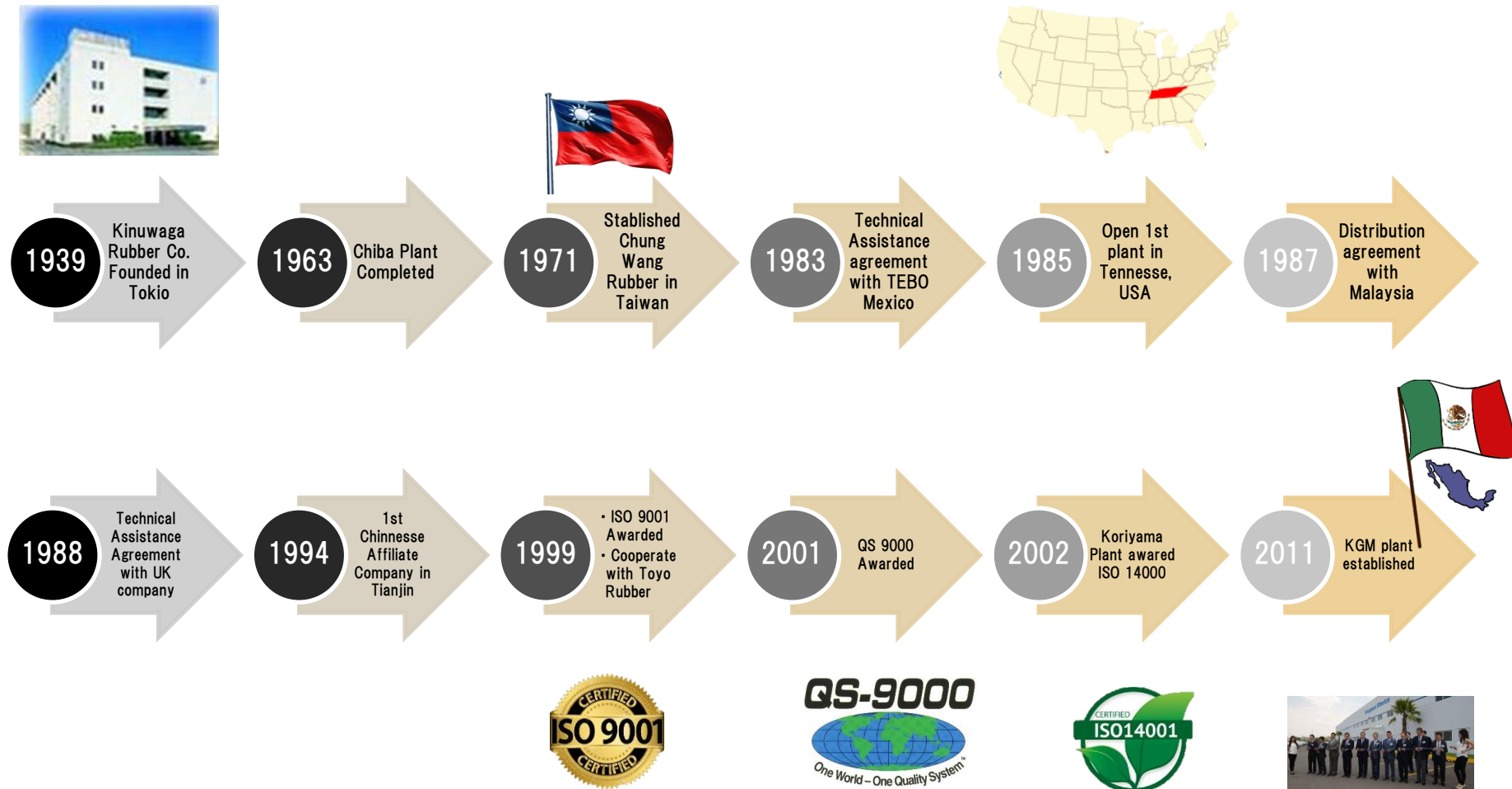


Kinugawa Mexico

Body seal parts
Hose parts
Molded parts
Antivibration parts



Kinugawa Group History



Our History... As KGM



One Team... One Voice...

Abre empresa japonesa en Parque Industrial

ALBERTO MARTINEZ NOTA PUBLICADA: 2/26/2011

La empresa japonesa Kinugawa/Tepro, planta Irapuato, abrió formalmente sus puertas en el Parque Industrial Castro del Río con una inversión de 10 millones de dólares y la generación de 300 empleos.

La empresa dedicada a la fabricación de molduras plásticas tanto rígidas como flexibles, aislantes de vibración y mangueras para el sector automotriz y de autopartes.

La matriz de la empresa, Kinugawa Rubber Industrial se encuentra en Tokio, ahí se fundó en 1939 y actualmente es una de las empresas líderes en su ramo, tiene 11 plantas en todo el mundo, dos de ellas en América Latina.



FOTO: MARCOLINO MTRAGO
Autoridades estatales y municipales estuvieron presentes en la inauguración de la empresa japonesa Kinugawa ubicada en el parque industrial Castro del Río.



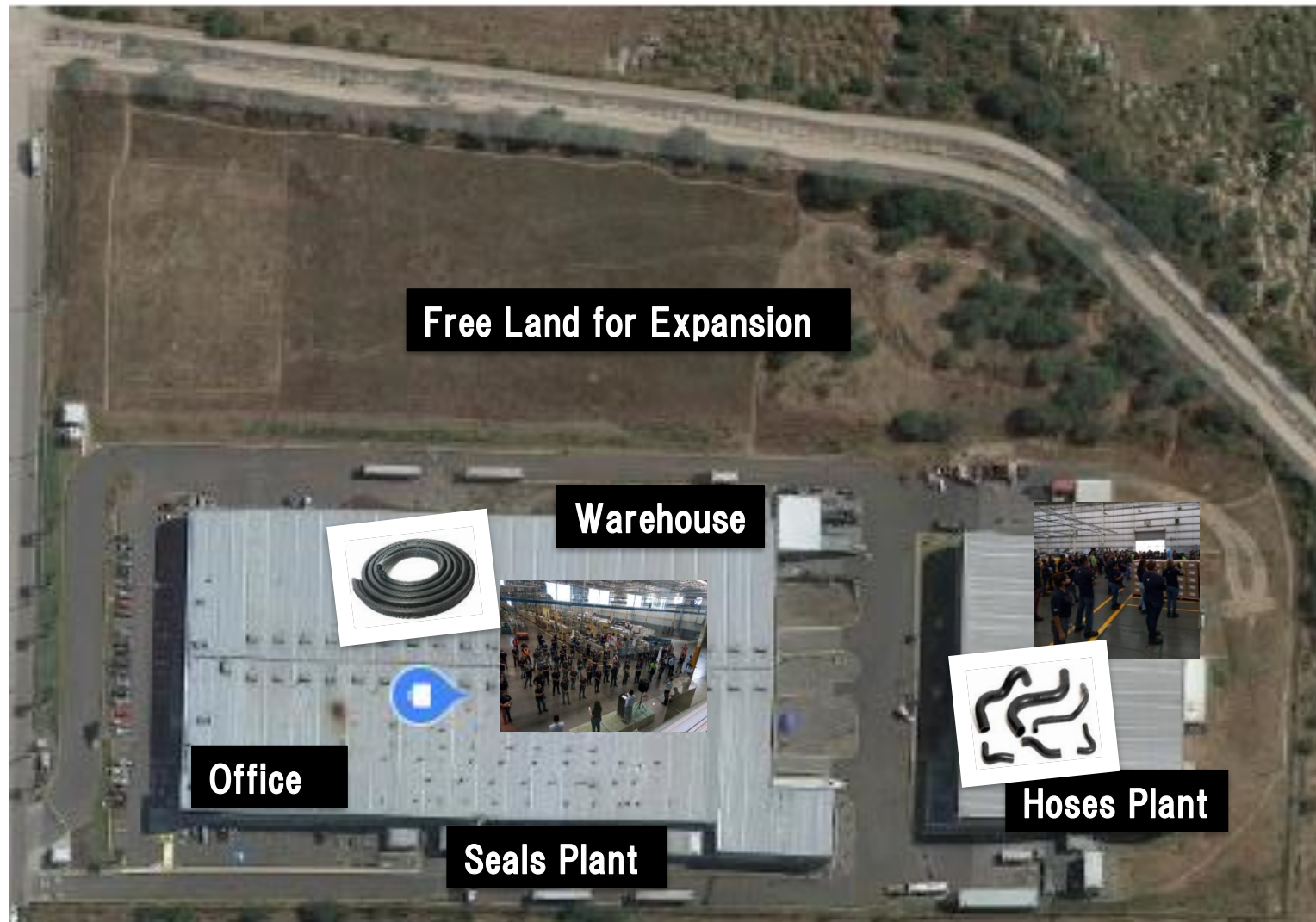
Kinugawa Mexico

- Stablished on Dec, 2011-Jan 2012
- Total investment: 7,000,000 USD

- The total size of the company land is 55,000 m², divided on 2 factories:
 1. Seals (14,000 m²)
 2. Antivibration & Hoses (4,960 m²)Plus free space to build

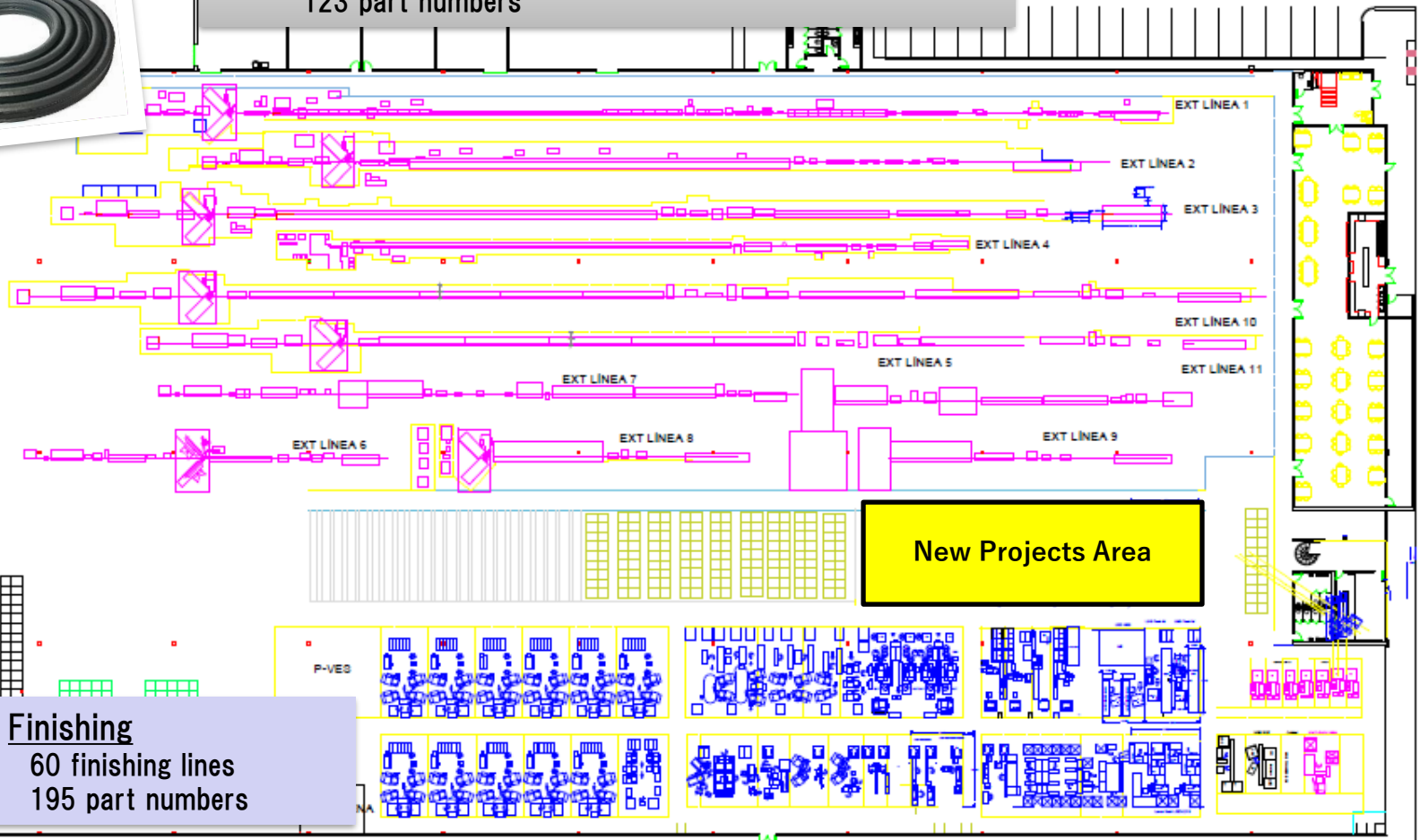
- The employees are in total 295, (March, 2022), distributed as:
 1. Seal = 98
 2. Antivibration = 8
 3. Hoses = 60
 4. Support Areas = 116
 5. Direction and Management = 13

- Work Schedule:
 1. Antivibration: 2 shift of 8 hrs // Mon-Fri
 2. Hoses: 3 shift of 8 hrs // Mon-Fri.
 3. Seals (Extrusion): 2 shift of 12 hrs // Mon-Thu.
 4. Seals (Molding): 2 shift of 8 hrs // Mon-Fri.



- Extrusion

9 extrusion lines, 5 lines for EPDM and 4 lines for TPV
123 part numbers



- Finishing

60 finishing lines
195 part numbers

Our Products



Body Seal Parts

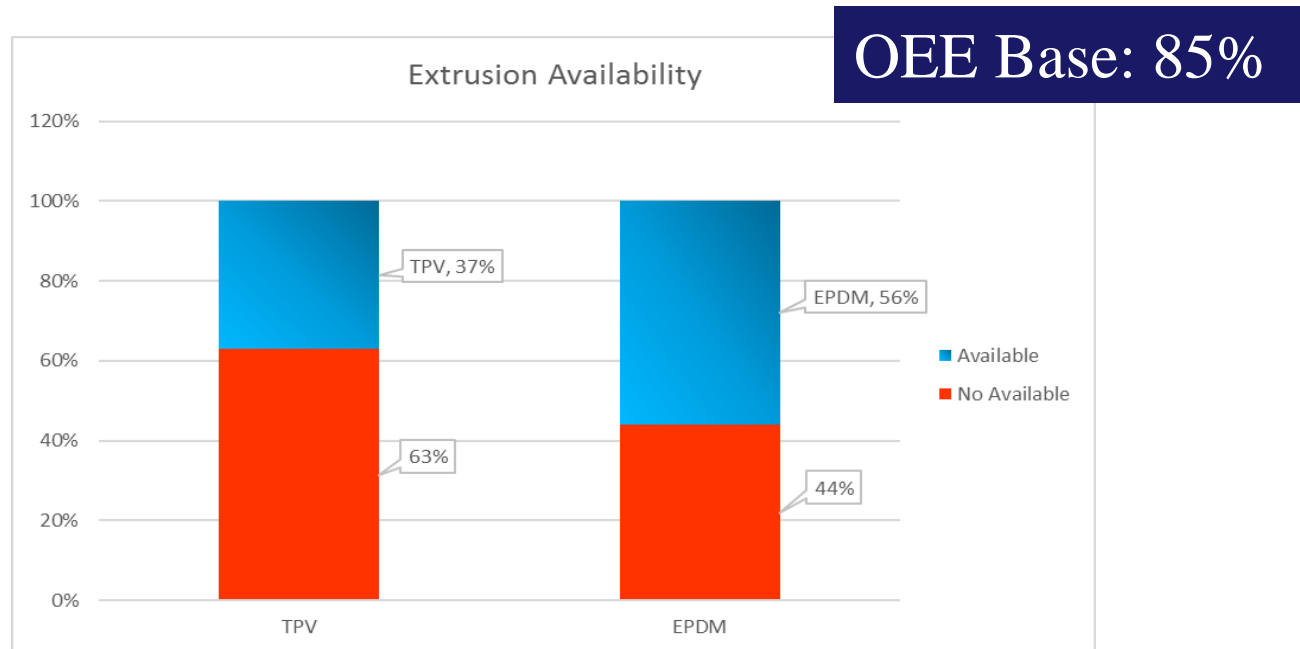


Our Customers... Seals Plant



Seals Plant Capacity

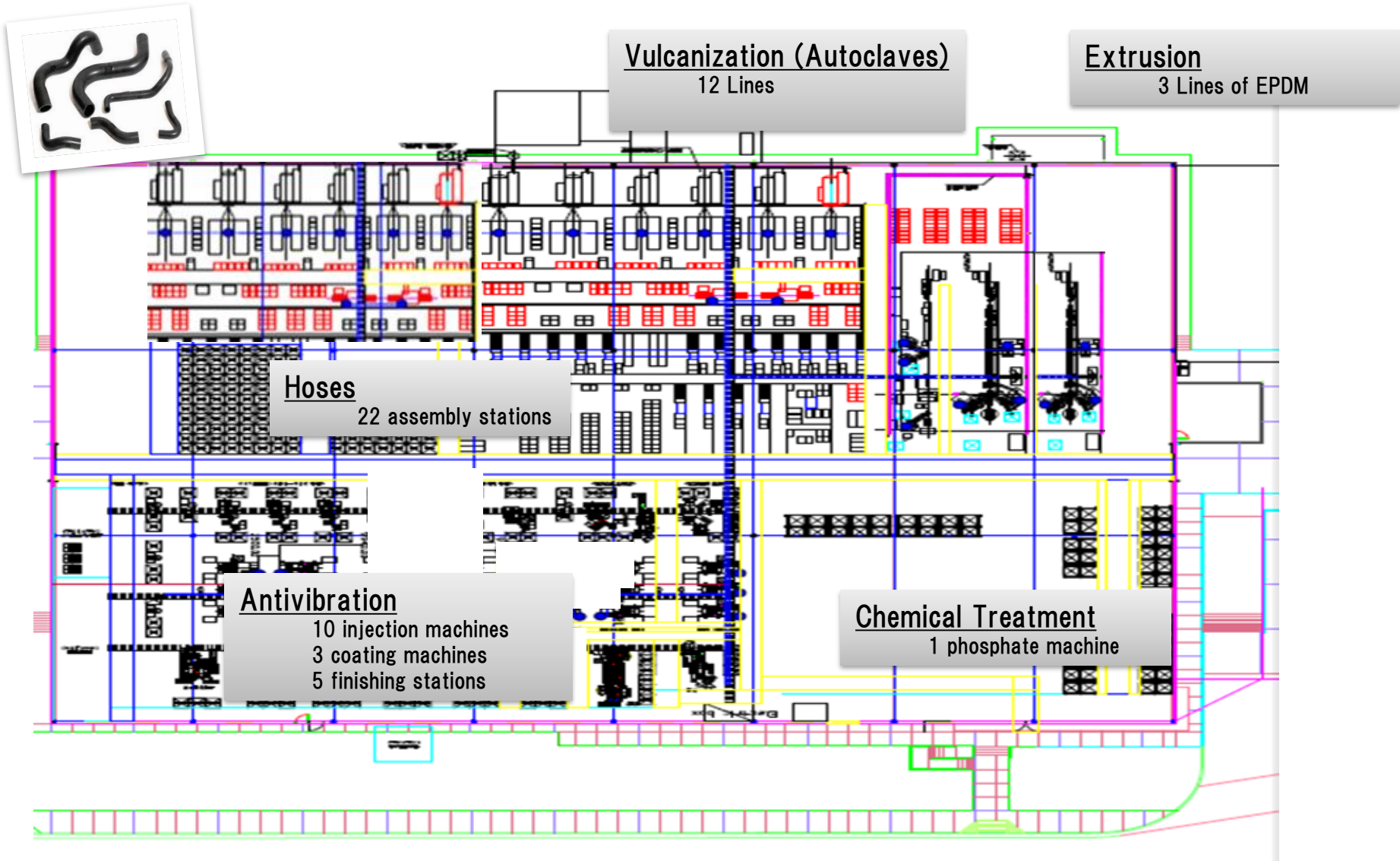
The capacity of the Seals Plant is calculated based on the extrusion process, which is our current bottle neck.



Note: 100% of availability was calculated with 6 working days at 2 shifts of 12 hrs, with 85% of OEE.

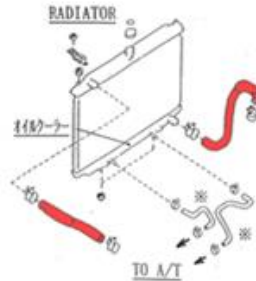
Currently, extrusion area is working 2 shifts of 12 hrs Mon-Thu. And some lines just work one shift. That's meant for us to have available 2 working shifts of 12 hours Mon-Sat in case that we get new projects or volume increase.

Hoses & Anti-vibration Plant



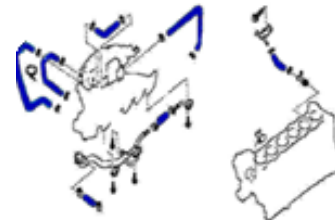
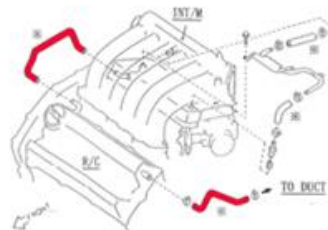
Our Products

Radiator Hoses



Hoses

Blowby Hoses



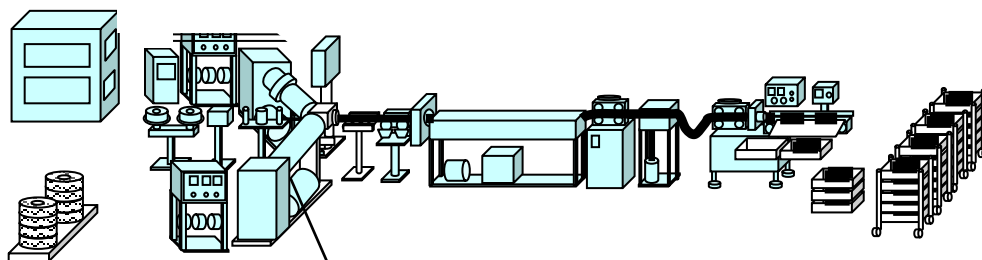
Water Hoses

Our Unique Method ~ TS Extrusion Method

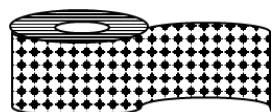
Features:

- ① High quality (low OD change rate = reduced failure rate)
- ② High sealing performance (reduced water leaks)
- ③ Low-cost extrusion speed "TS:braid = 4:1"
- ④ Precision cutting, no cutting (improved yield, reduced loss)

High-speed integrated production line



TS head cross section



TS head Process

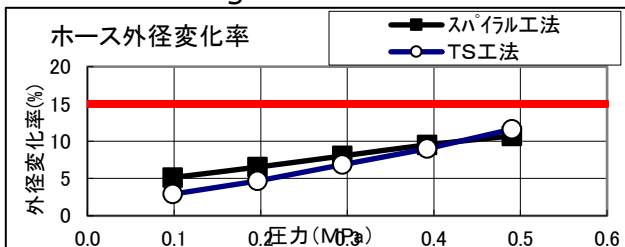


Applications

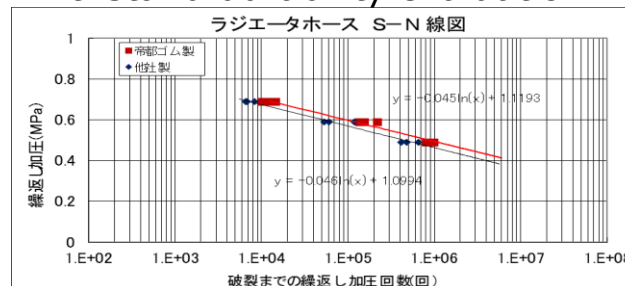
- Dedicated low-pressure hose method
- Method specifically for water hoses

(Adopted by 8 of 11 Japanese automakers)

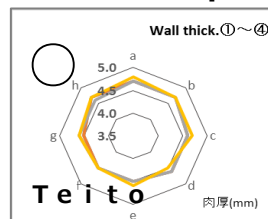
Low OD change rate



Withstand durability evaluation



Process capability



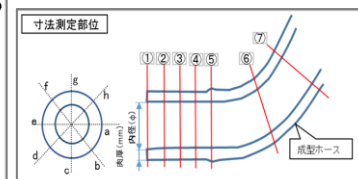
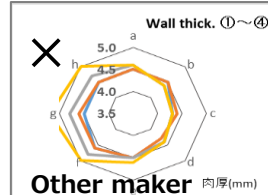
Teito's rubber hose Process capability

Inner dia.

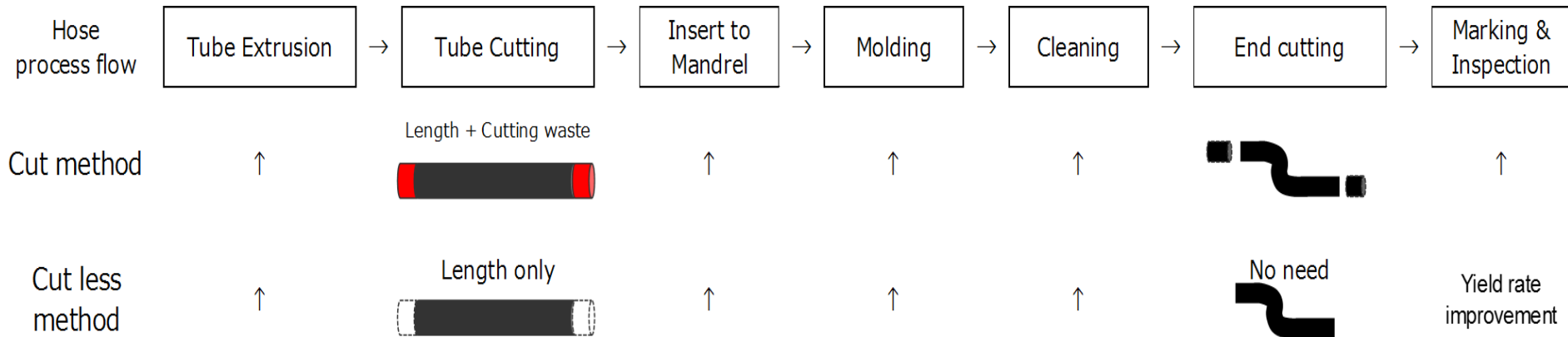
Cpk = 2.01 ~ 2.40

Wall thickness

Cpk = 3.51 ~ 3.93



Our Unique Method ~ Cut Less Method



Cut less Method

By vulcanization with cap on both ends of Mandrel, we can achieve the dimensional stabilization.

Therefore, we can abolish the cutting process of both ends.

Advantage

Reduction of waste and yield rate improvement

About 8% cost down by reduction of material and process

Our Products

Bushings



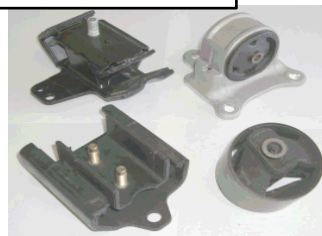
Strut Mounts



Stabilizer Bushings



Engine Mounts



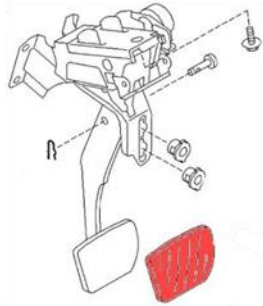
Dynamic Dampers



Antivibration

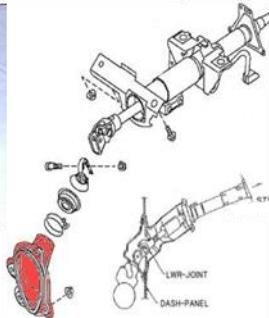
Our Products

Brake Pedal Cover

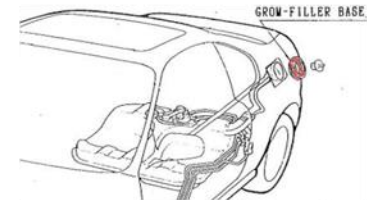


Molding Parts

Cover Hold



Packing Filler Neck

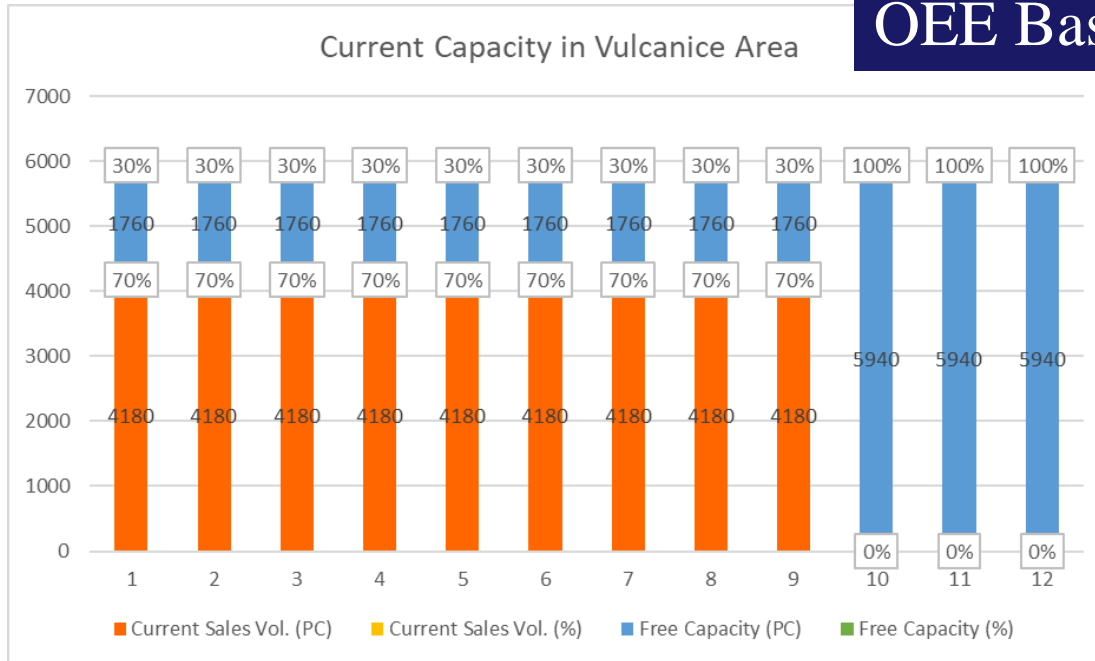


Our Customers... Hose & AV Plant



Hose Plant Capacity

The capacity of the Hoses Plant is calculated based on the vulcanization process, which is our current bottle neck.



- In max capacity we can produce on daily bases : **71,280 pcs**
- *** Average size:
 - Diamer: 17-33mm
 - Lenght: 350 mm
- That means that we have **47.2% free capacity**

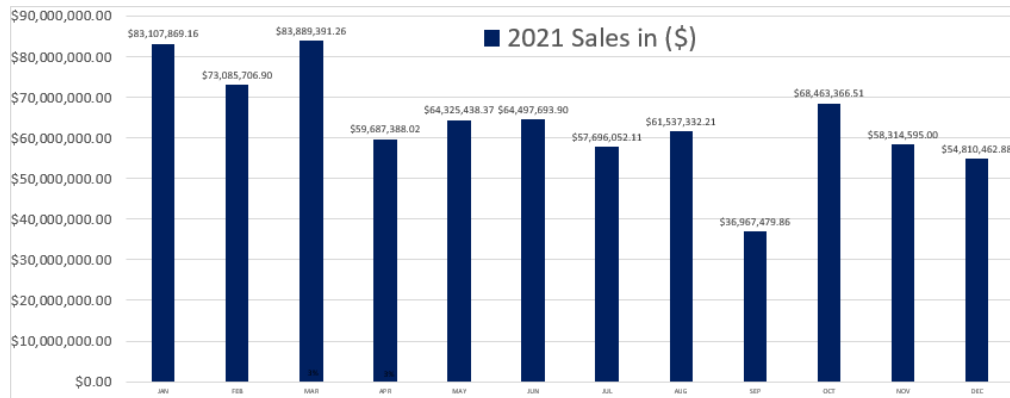
Note: 100% of availability was calculated with 6 working days at 3 shifts of 8 hrs, with 80% of OEE.

Currently, the vulcanization process is working 2 shifts of 8 hrs. from Mon-Fri. And some lines just work one shift. This means that we have available to work 1 shift of 8 hours Mon-Sat and total availability on 3 autoclaves in case that we get new projects or a volume increase.

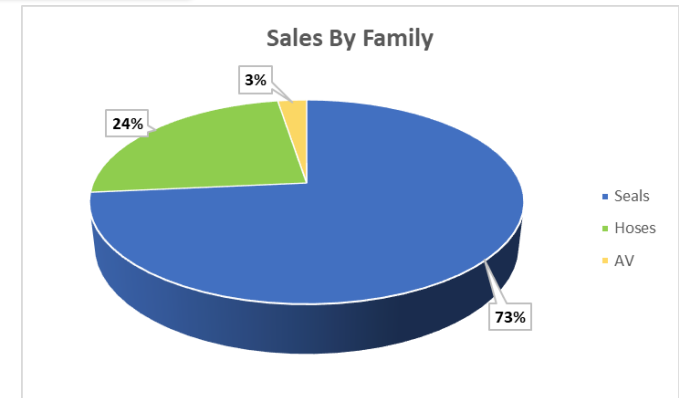
Sales ratio by part family and customer

2021 KGM sales : 38.034 Million USD

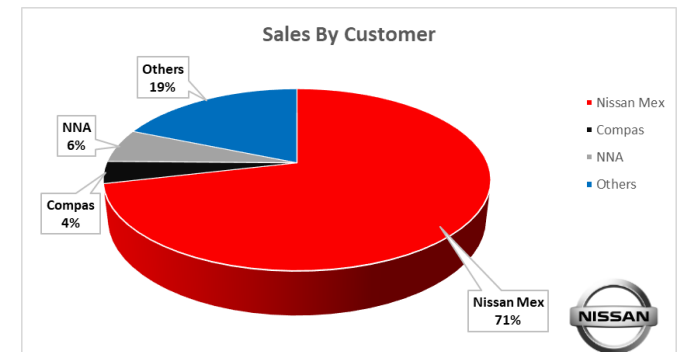
Total Sales



By Family



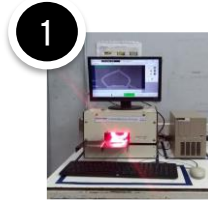
By Customer



Laboratory Equipment (Seal's)

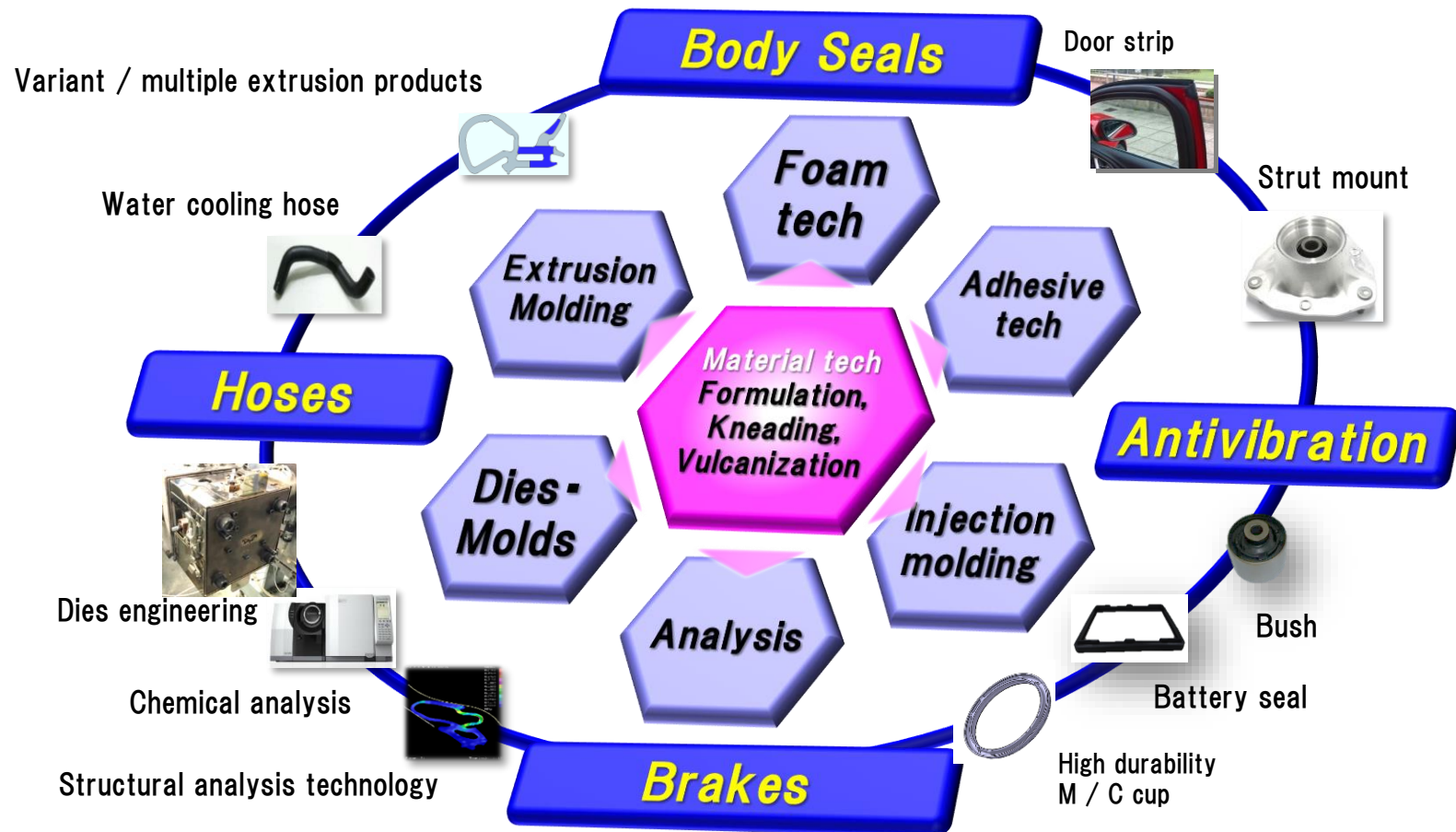
Our lab has 11 different machines, and if necessary, we can ask for support to KGJ (Japan) (they have a bigger laboratory)

- 1- Digital Projector 10X
- 2- Microscope
- 3- Climatic Chamber
- 4- Viscometer
- 5- Tensilon
- 6- Sliding Test Machine



- 7- Rheometer
- 8- Tensilon (Backup)
- 9- Climatic Chamber
- 10- Oven
- 11- Light Cabin

Technical features



- Using core technologies centered on materials, we contribute to our customers with four product groups: **Body Seals**, **Hoses**, **Antivibration** and **Brakes**, that support the "running," "turning," and "stopping" of automobiles.
- We develop and synergize the technologies of the four product groups to meet the advanced needs associated with electrification.

Electrification



NVH rise
(Noise, Vibration, Harshness)

In response to the demands associated with electrification, we will meet the needs by advancing development of high functionality, quietness, weight reduction, and reduction of environmental load with 4 our product groups.

High electrical resistance
High heat resistance

- High green material
- Heat resistant aging

Quietness

- Sound insulation - 3db (Compared to the conventional method)
- Measures against vibration noise during driving
- Wind noise countermeasures

Weight saving

- Material density - 30% (Compared to the conventional method)
- Miniaturization and thinning

Reduction of environmental load

- Recycled material adoption
- Raw materials derived from crude oil
- Low VOC, low odor material

Currently, KGM has the next certifications:

- ISO TS:16949, 2009
- **IATF: 16949, 2021**



Main Contacts

KGM (Kinugawa Mexico)

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 - Ms. Ana Laura Tamayo Huerta, Coordinator // ana.tamayo@kgmexico.com
- Engineering and Quality
 - Mr. Ryouhei Tasaki, Director // Ryouhei.Tasaki@kinugawa-rubber.co.jp
 - Mr. Ivan Salas, Coordinator // jsalas@kgmexico.com

KGJ (Kinugawa Rubber, Japan)

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