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NISHIMURA
ADVANCED CERAMICS

since 1918

Company Profile

Our Mission

CREATING
A MORE
AFFLUENT
WORLD
BY
MANUFACTURING THAT
SATISFIES CUSTOMER

經營理念

Name	Nishimura Advanced Ceramics Co., Ltd.
Facilities	Head office and Main plant South Plant (Grinding facility)
Location	3-2 Kawata Kiyomizuyaki Danchi-cho, Yamashina-ku, Kyoto, 607-8322, Japan Phone: +81-75-591-1313 (rep.) Facsimile: +81-75-591-4913
Capital	60,000,000 yen
President	Yoshihiro Nishimura
Business operations	Manufacturing and sales of ceramics
Main banks	Kyoto branch of Mizuho Bank Yamashina Chuo branch of Bank of Kyoto Yamashina Naka branch of Kyoto Chuo Shinkin Bank
Number of employees	54 (+30 Part timer)
Professional organization	Kyoto Ceramics Forum
Quality Management System	ISO9001 2015 IATF16949 KES (Kyoto Environmental System Standard)

Board Member

Chairman

西村 嘉夫

Yoshio Nishimura

Vice chairman

西村 威夫

Takeo Nishimura

CEO/President

西村 嘉浩

Yoshihiro Nishimura

Director

西村 哉毅

Saeki Nishimura

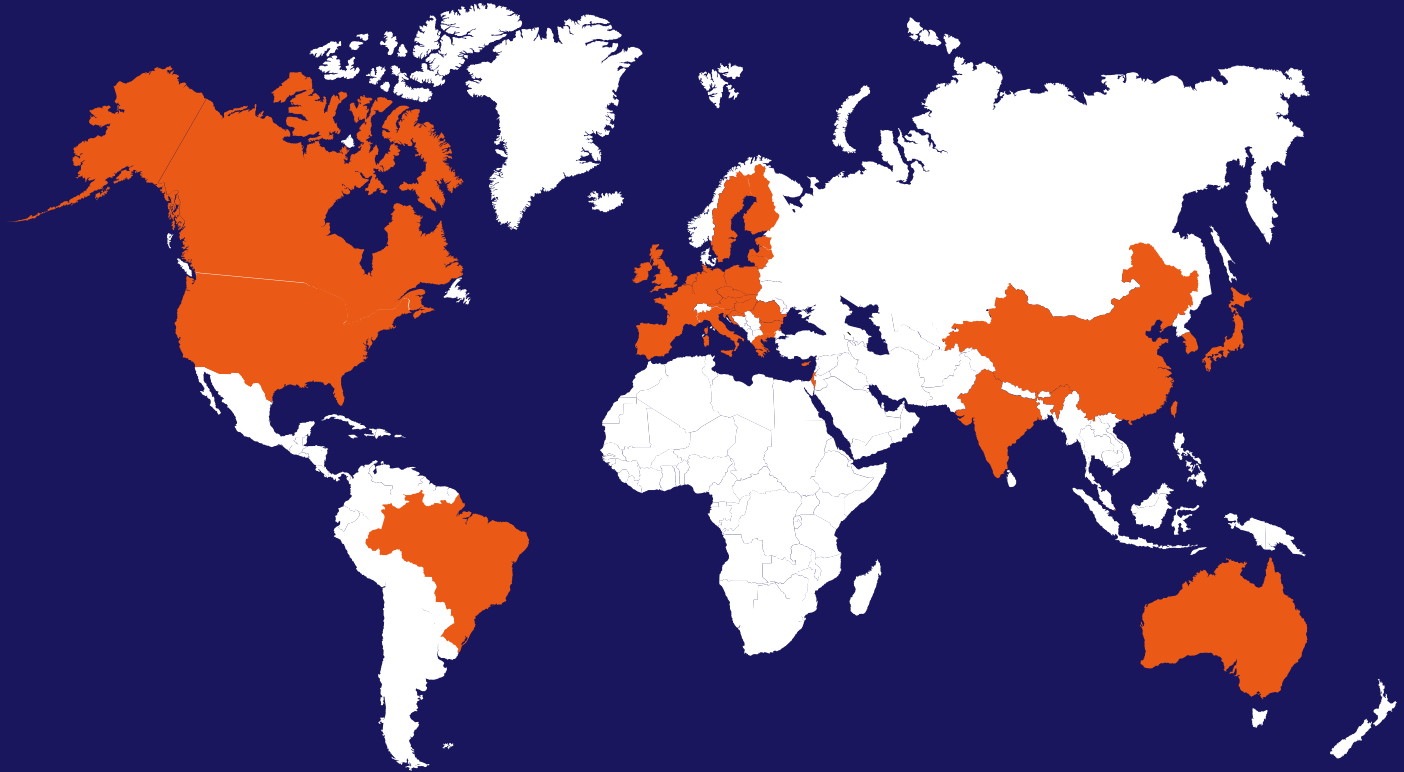
Auditor

大川 雅司

Masashi Ookawa

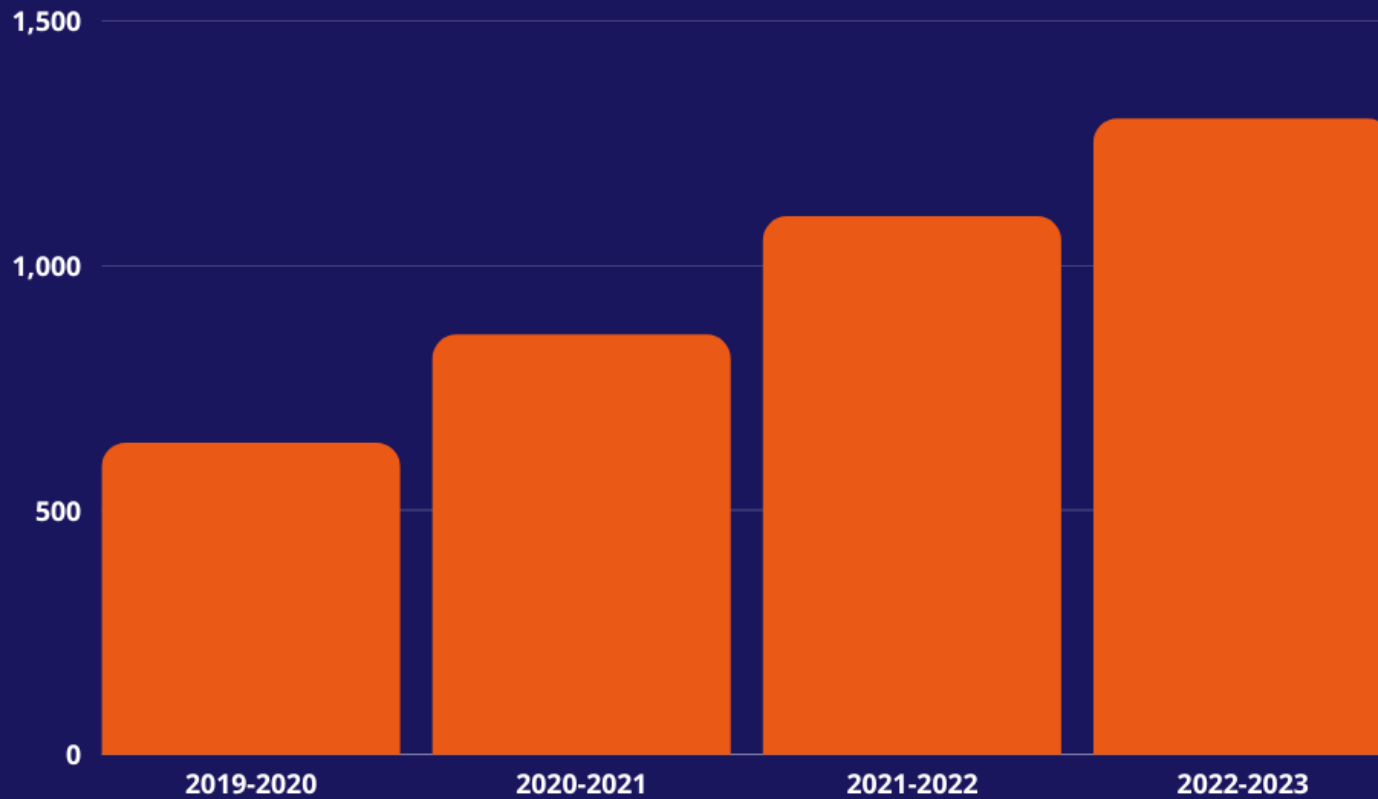
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Our Global Partners

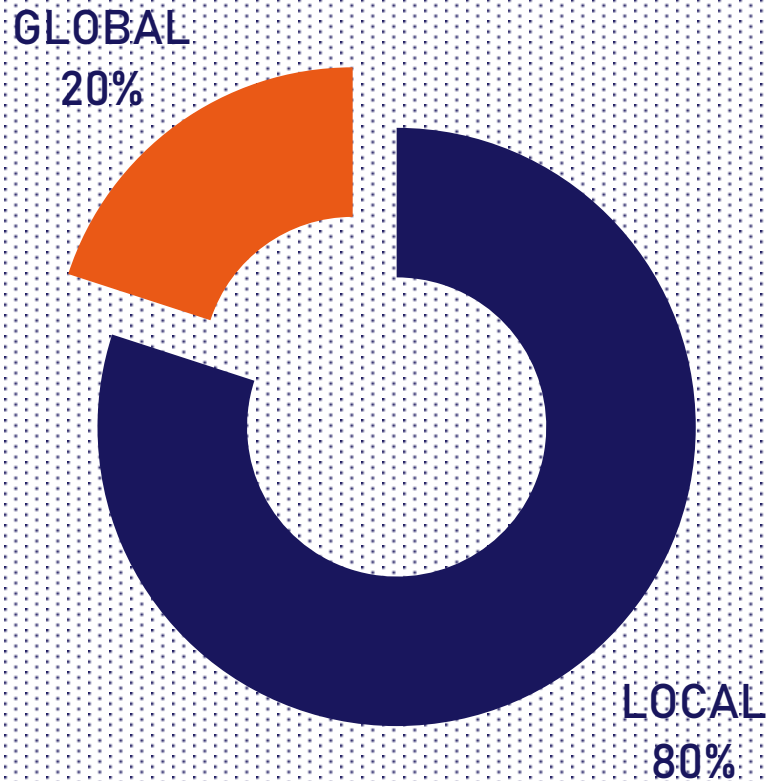


Total Sales

2019-2023 (MILLION)

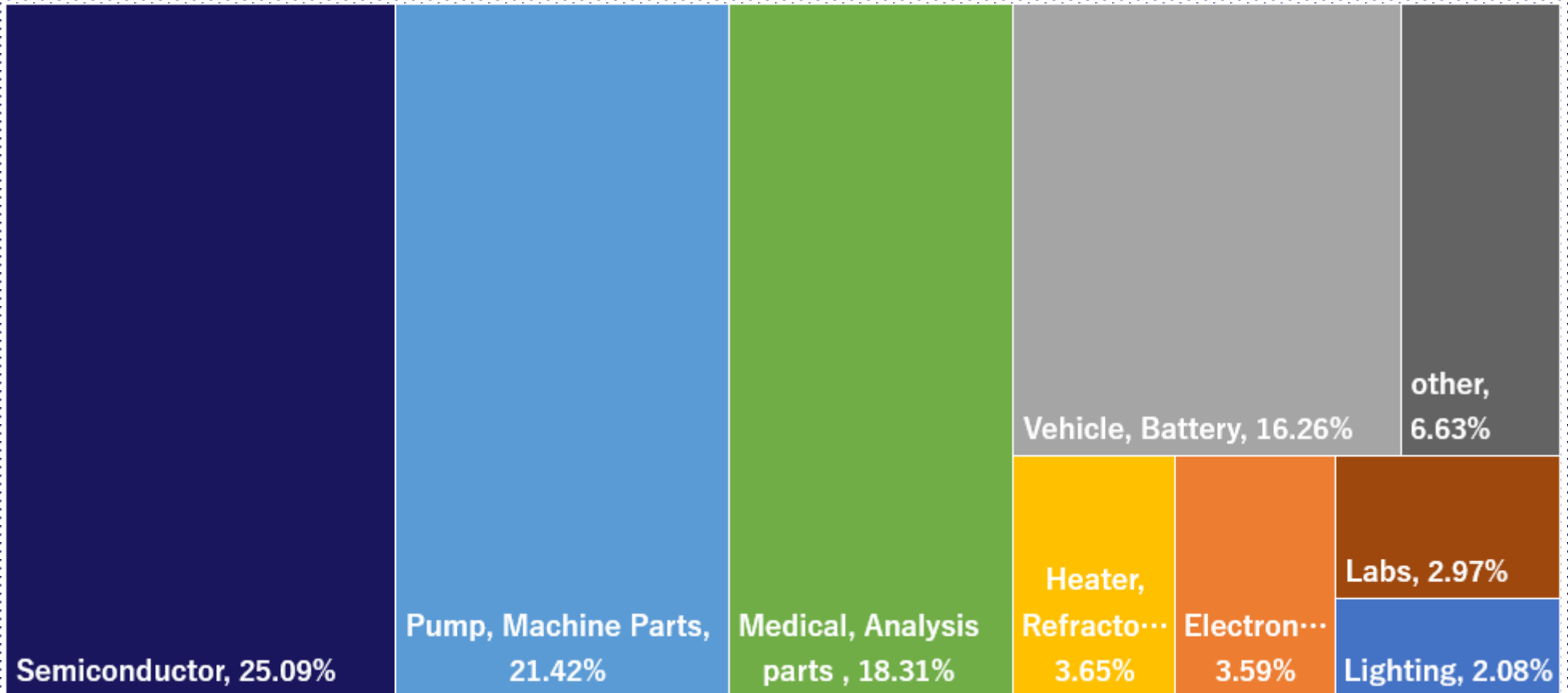


Sales Statistics

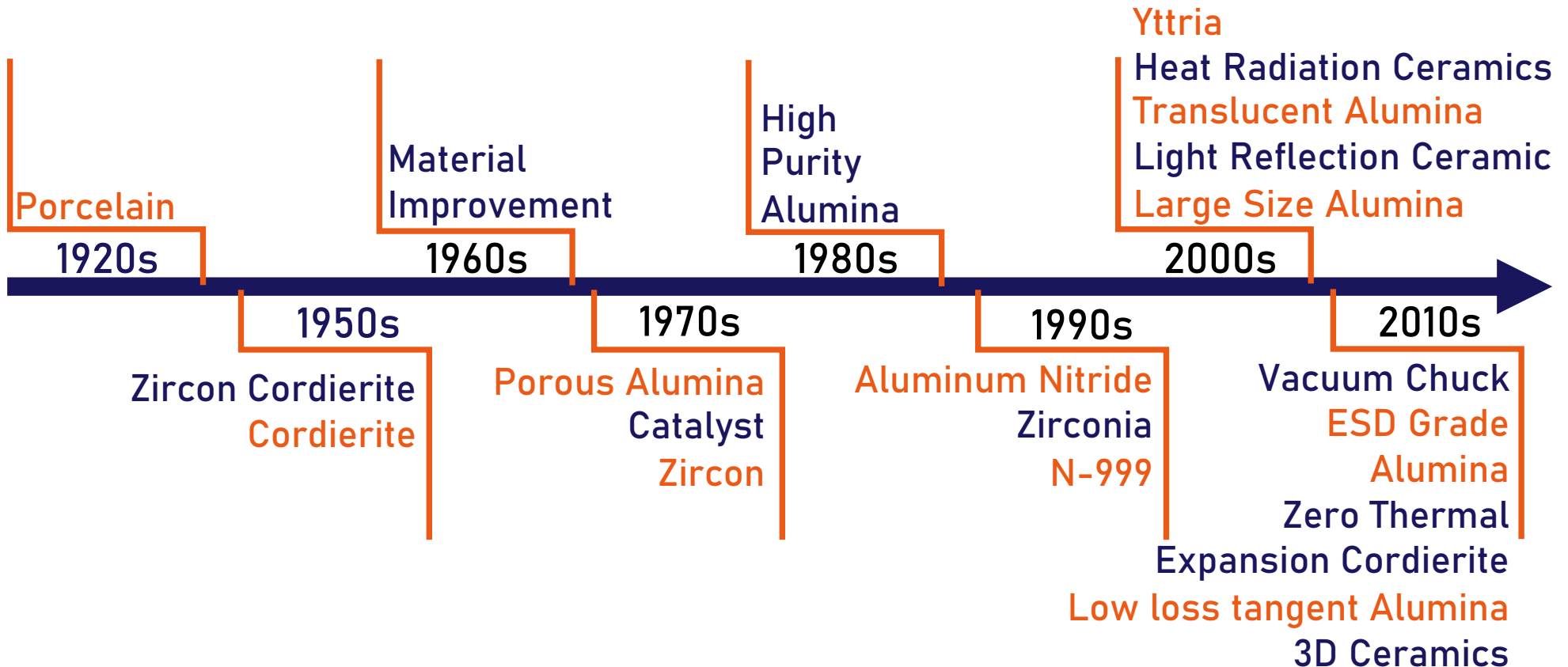


The increasing demand of **Automobile, Aerospace, and Semiconductor market** boosted our sales in 2020-2021.

Sales Ratio



Product Developing Process



Materials

Aluminum Nitride (Thermal conductivity 170W type, 200W type, High purity type)

Porous Alumina(High porosity type, 0.1 μ m pore size type, and more)

Tosoh® Zirconia (Normal, HIP, Black color, Blue color)

Alumina (92~99.99%)(White color, Black color)

High Strength Translucent Alumina ceramics

Forsterite

Zero-CTE Cordierite

Porous Chuck Plate

Yttria

High temperature furnace	14
Combined NC machining center	14
Surface Grinding Machine	8
Cylindrical grinder	1
Image measurement	3
High pressure pressing machine	12
CIP machine	3
Injection molding machine	4
Extrusion molding machine	3
Centerless Grinder	4
Lapp Grinder	2
Lapp Polisher(One side)	2
CNC Image Scorp	3
CMM (Accretech, Tokyo Seimitu)	1
and more	

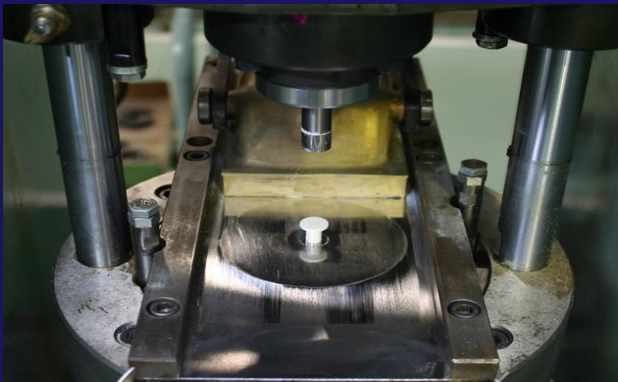
Manufacturing Technology



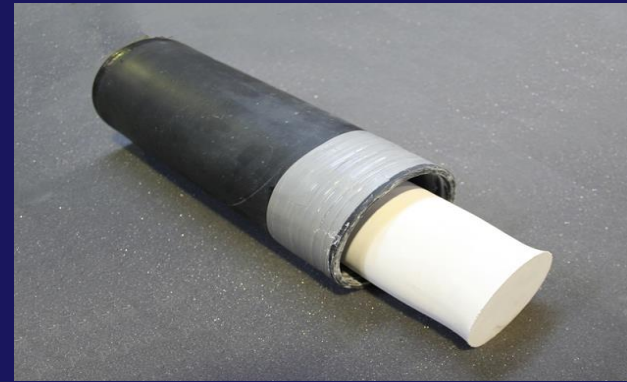
Ceramic Injection Molding
(30years experience)



Extrusion Molding
(30 Years Experience)



Machine Press
(Hand press~400ton)



Cold Isostatic Press
(CIP)

Ceramic Injection Molding (CIM)



We have over 30 years experience as a
Pioneer Of CIM

From feedstock
preparation to sintering

Low Cost
(From 1pcs to 16pcs Cavity mold)

Making complex design parts in one shot

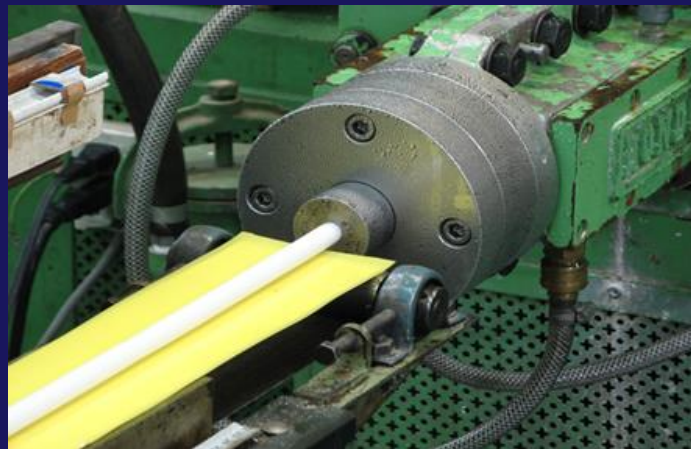
-Automobile, Electric, Industry,
Medical, Semiconductor

Extrusion Molding



Special Forming method for **Pipes** and **Shafts**

*one of the lowest cost forming methods



Mix: Ceramic powder + Water + Binder

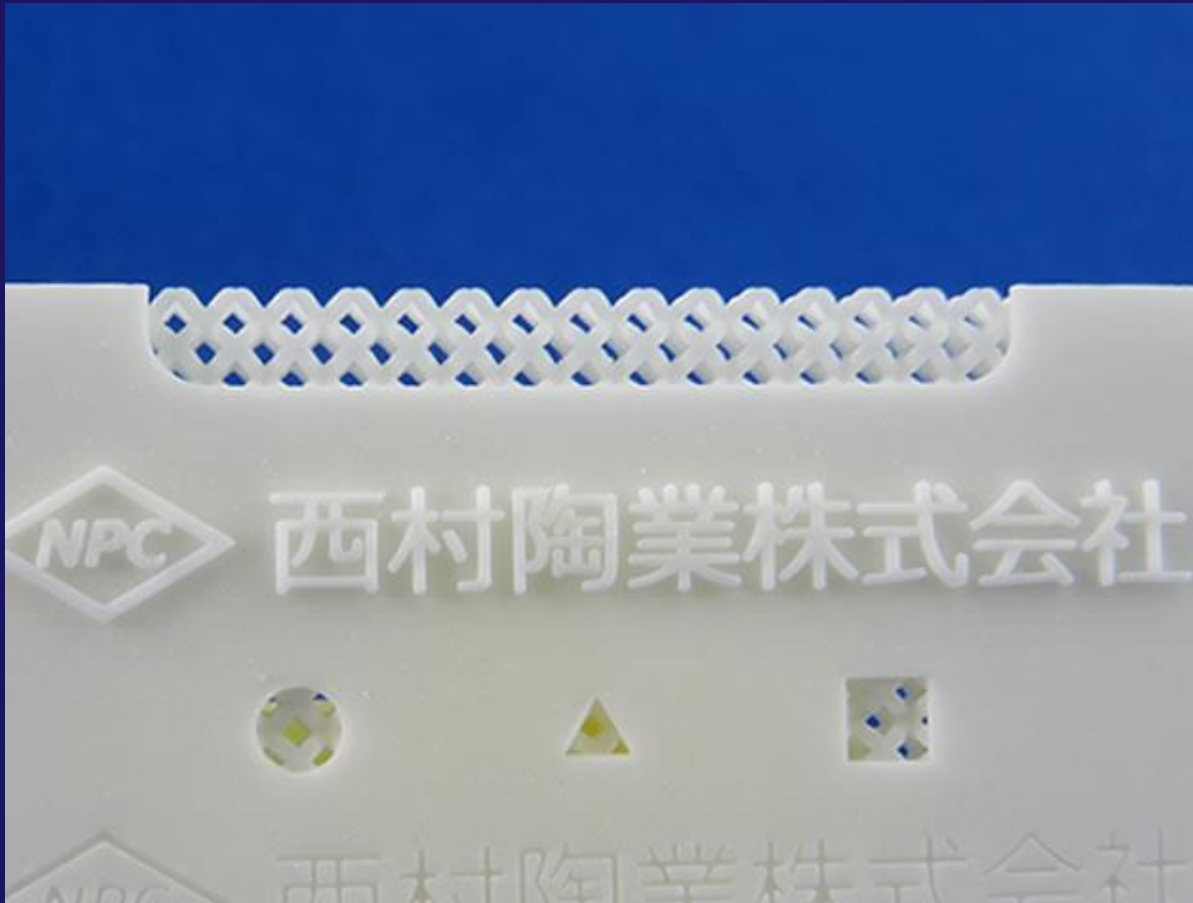


Put mixture to the extruder, and extruded by a screw



Mixture is passed through a mouthpiece

Additive Manufacturing



Unfired Machining



Unfired machining is the manufacturing method which can take complex shape in short time and low cost.



- 30 years unfired machining experience
- Japanese high quality 3~5 axis machines, machining, turning center.
- Special shrinkage control knowhow
- 3~6 weeks lead time

Mazak

DMG MORI



- From 1pcs prototype order with no mold fee.
- Ceramic is soft before sintering. This process is much lower cost than Fired machining
- Tool fee is lower than Fired machining.
- Lower machine maintenance fee

N-99DLT

Low dielectric loss tangent material

We have developed new material which has dielectric loss tangent 10^{-4} at GHz band
We can produce this material in any shape

Speciality

- At 1~10GHz, Dielectric loss tangent is 10^{-4}
- Alumina purity 99.7%
- Electric resistivity $> 10^{14}\Omega\text{cm}$
- Possible to produce in large size or complex shape

Case Introduction

- Parts for CVD, Etcher
- RF window

Measuring value (cylindrical cavity resonator method)

Dielectric constant(ϵ)	1GHz	9.46
	5GHz	9.52
	10GHz	9.50
Dielectric loss tangent($\tan \delta$) X10-4	1GHz	0.73
	5GHz	1.11
	10GHz	2.68

Future and Revitalization

NAC hire 8 new workers in 2021-2022 (5 of them are under 30)
which is the highest hiring number in our history.

Newly established Quality Assurance Department. Management by cross functional teams has also spread throughout the company.

Installed Keyence IM

Installed Digital Inspection Chart Creation System to every inspector
(support Statistical Analysis system)

Raise the level of global procurement
(Asia procurement channel)

Establish South Factory (Grinding Factory)

Obtained IATF16949 Certificate

Not Just Any Ceramics Maker. But As A One Stop Solution Provider.

Contact

Ko Nishimura(Mr.)

NISHIMURA ADVANCED CERAMICS CO.,LTD

Overseas sales

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