

Family Brands

Machining

Symbio Fruitful, Sustaining

Anchor Precise, Enduring

Tornado Keen, Prolific

Components

Quest Fundamental, Reliable

Legato Bold, Lithe

Robots

Presto Quick, Rigorous

Forte Dignified, Strong

Artis Exquisite, Masterful

Material

FM Alloy Multiple, Fit



NACHI-BUSINESS Galaxy

A BRIEF LOOK AT NACHI

NACHI-FUJIKOSHI CORP.

Machining

Cutting Tools

Anchor

Precision Cutting Tools

- Broaches
- Hobs
- Shaving Cutters
- Forming Racks
- Precision Dies



Symbio

Round Tools

- Drills
- End Mills
- Taps



Tornado

Metal Band Saws

Machine Tools

- Broaching Machines
- Micro Finisher
- Precision Roll Forming Machines
- Special Purpose Machines



- Aspheric Generators
- Precision Slicing Machines
- CNC Grinding Machines

Robots

Presto

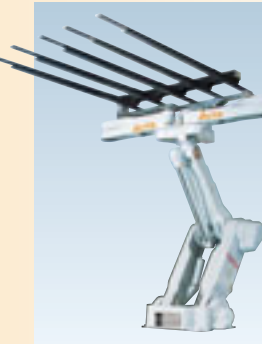
Welding and General Handling Robots

Forte

Heavy Duty/Payload Handling Robots

Artis

Clean Robots



FM Alloy

High-performance Alloys

- Hardened Rods
- Micron Hard



Vacuum Carburizing Furnace
Vacuum Degreasing Washer
Coating Equipment
Coating Process

Special Steels

Industrial Furnaces

Materials



Quest

High-Function Bearings for Industrial Machines

High-Function Bearings for Automobiles

- Ball Bearings
- Roller Bearings
- Various Other Bearings

Bearings

Components



Legato

High-Function Hydraulic Equipment for Industrial Machines

High-Function Hydraulic Equipment for Construction Machines

- Hydraulic Pumps
- Hydraulic Motors
- Hydraulic Valves
- Hydraulic Units

Hydraulic Equipment



Solenoid Valves for Automobiles
3way Solenoid Valves
Linear Solenoid Valves
Automotive Hydraulic Units

Automotive Hydraulics



Regrinding/Recoating for Cutting Tools
Tool Engineering Services



Robot Maintenance, Overhaul
Robot Operation Training



Filtration of cutting and grinding coolant
Replacement with Energy-saving hydraulic unit



Maintenance of Industrial Furnaces
Heat Treatment and Coating on consignment

Engineering

Business Partners

Sumitomo Electric Industries, Ltd.
Sumitomo Electric Hardmetal Corp.
ALLIED MATERIAL CORP.

Kashifuji Works, Ltd.
Kanzaki Kokyukoki Manufacturing Co., Ltd.
Industrial Metal Products Corp.

Sodick Plustech Co., Ltd.
Fujikoshi Machinery Corp.

DAIHEN Corporation
DENSO CORPORATION
Aichi Sangyo Co., Ltd.

JTEKT Corporation
Asahi Seiko Co., Ltd.
The Tata Iron and Steel Co., Ltd.

Chien Hsin Trading Co., Ltd.
Shanghai Automotive Industry Corp.
Daesung Industrial Co., Ltd.

Daido Steel Co., Ltd.
Riken Seiko Co., Ltd.
Eramet Group
Sankyo Tateyama Aluminium, Inc.

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Safe and Comfortable Driving

Engines

Contributing to Higher Energy Efficiency and Green Processes



Automotive Air Conditioner Bearings



Top Share of World Markets

Double-row Angular Contact Ball Bearings for Automotive Air Conditioners



Compressors for Automotive Air Conditioners

High-efficiency, Non Step Deep Hole Drilling



Handling Robots



Spot Welding Robots
Ultra-Heavy-Load Handling Robots

Safe and Stable Steering

Steering



Broaching of Steering Racks



MQL Machining System



MQL Power Cell

Micro Finisher



Crankshaft and Camshaft Lapping
Vacuum Heat Treatment and Parts Washer
for Environmental Conservation



Automated Vacuum Carburizing System

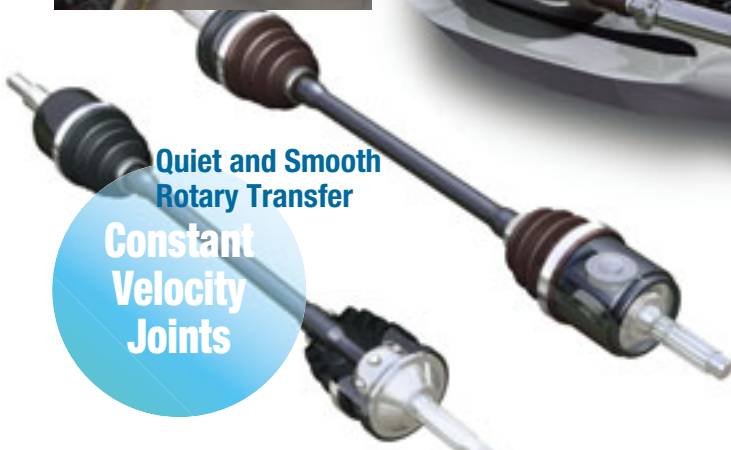


Example of Transmission Gear



Top Share of World Markets

Roller Bearings for Constant Velocity Joints



Quiet and Smooth Rotary Transfer

Constant Velocity Joints



Precision Rolling



Solenoid Valves for Automobiles



MQL Broaching



High Speed Hob Cutting



Broaches & Gear Cutting Tools



Self-aligning Clutch Release Bearings

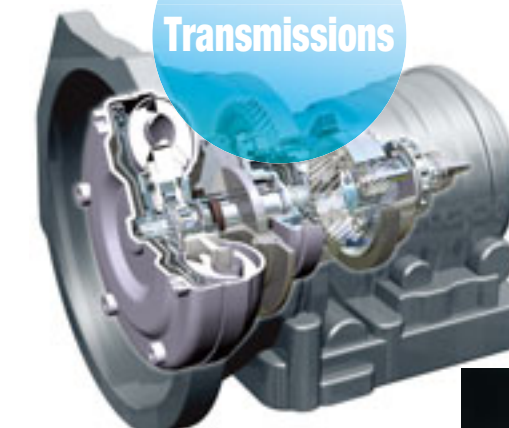


4-point Contact Ball Bearings BX Series



Vane Material in Power Steering Pumps Made from HSS

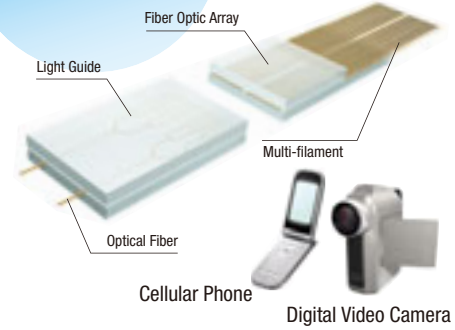
For Responsive and Comfortable Driving
Transmissions



From IT to Home Appliances

Ultra-precision Machining for HDD Magnetic Heads and Optical Communication Systems

Electric and electronics



Precision Slicing Machine



Electro-Discharge Truing Device



Connector

V-groove Block

For Punching Semiconductor Packaging and IC Checker Probe Pins



Ultra-fine Wire "Micron Hard"

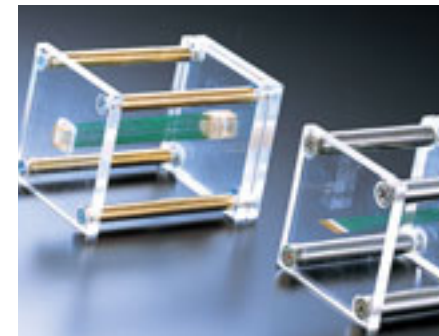
Producing Parts for Liquid Crystal Panels and Molds for Digital Cameras and DVD Pick Up Lenses in Nanometer



Ultra-precision Aspheric Generator "NANO ASPHER"



Ultra-precision Groove Cutting Machine "NANO GROOVER"



Example of Micron Hard Applications (Probe Unit for Semiconductor Testing)

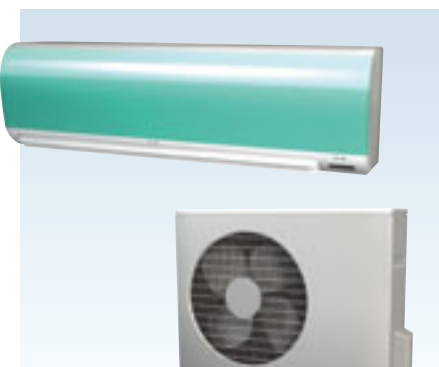


Example of Machining by Ultra-precise Aspheric Generator (Molds for Lenses)



Liquid Crystal TV Screen

Ideal Tool for Producing Compressors for Air Conditioners



Air Conditioner



Broaches for Machining Compressor Vane Slots



Large-sized Glass Substrate Transfer Robot

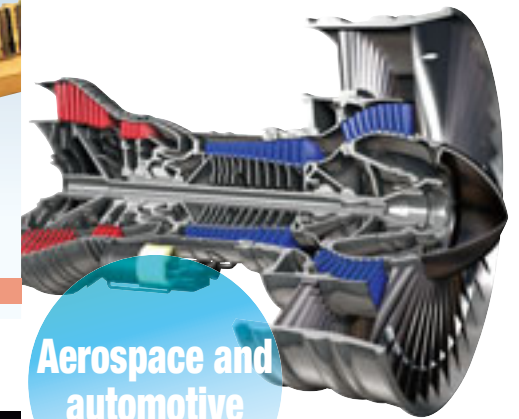
Supporting Reliability with High Functionality



Top Share of World Markets

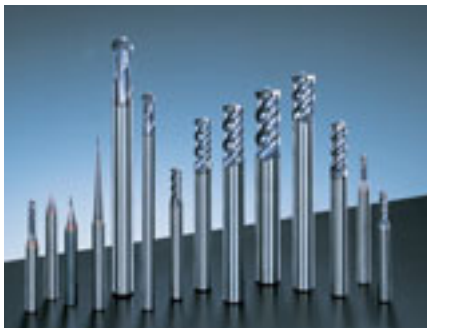
X-mas Tree Form Broaches Turbine Disks and Blades

Achieving High Productivity with High Precision
World-leading high-precision broaches and end mills facilitate the machining of blades for gas turbines and jet engines.



Aerospace and automotive

Ensuring High Speed, Safety and Comfort
Journal Bearings for the Bullet Train "Shinkansen" Bearings for Jet Engines



X's-mill Geo Series



Bearings for Jet Engines



Journal Bearings for the Bullet Train "Shinkansen"



Construction machinery

Energy-efficient, Compact and Powerful
Highest ranked hydraulic equipment for construction machinery in the world
Wheel-drive and Swing Motors, Variable Volume Piston Pumps

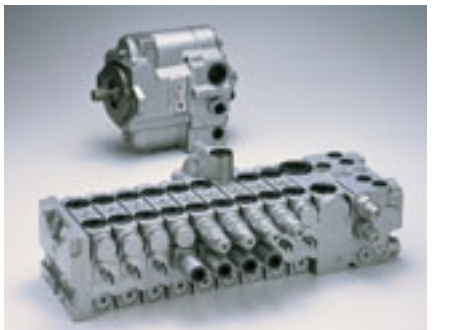


Wheel drive motors and swing motors for compact backhoes



Variable Volume Piston Pump

Improving Operability
Load Sensing System



Robot Systems for Arc Welding, Spray Painting and Handling



Arc Welding Robots

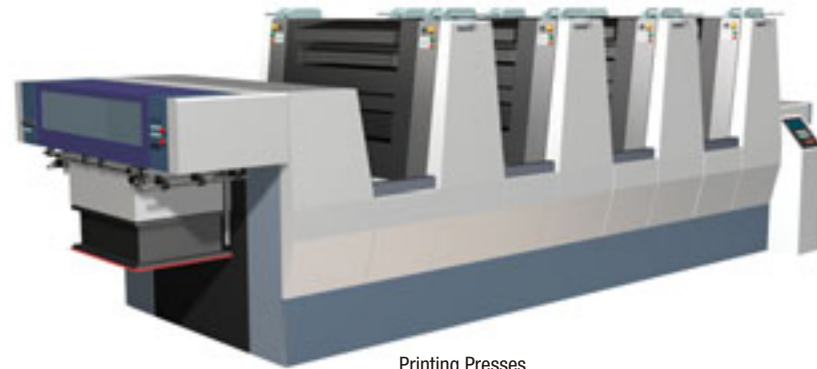
Achieving High Precision and High Efficiency

Bearings and Hydraulic Equipment for Various Applications in Machine Tools, Printing Presses and Paper Manufacturing Machines
Cutting Tools (End Mills) for High-speed Machining of Parts Profiled Materials that are Near-net Shape

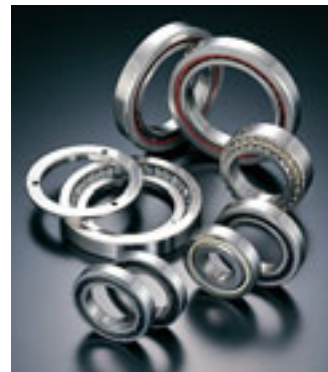
Industrial Machinery



Machining Centers



Printing Presses



Super Precise Bearings for Machine Tools



Sealed Ball Screw Support Bearings



Compact Energy-saving Hydraulic Units



Bearing for Paper Manufacturing Machines



"Power Meister", Compact Hydraulic System of high energy-efficiency and high precision



End Mill Doing High Speed Cutting



Handling Robots



Profiled Bars [Pre-shape]

Widely-used in Many Areas of Our Lives

Lifestyle



Tools for DIY – Drills



Tools for DIY – Hand Hacksaw Blades and Jigsaw Blades

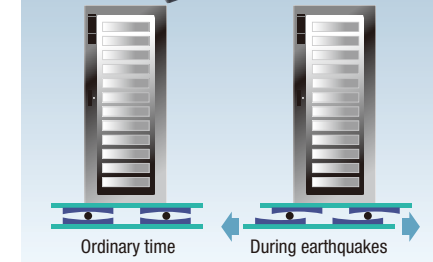


Quest series



Recycling Materials transfer Robots

An earthquake-proof equipment "Magni Cradle", which will protect your important assets and information from earthquakes



Controls the shock of earthquakes with rolling technology of bearings

Excel Series Spherical Roller Bearing

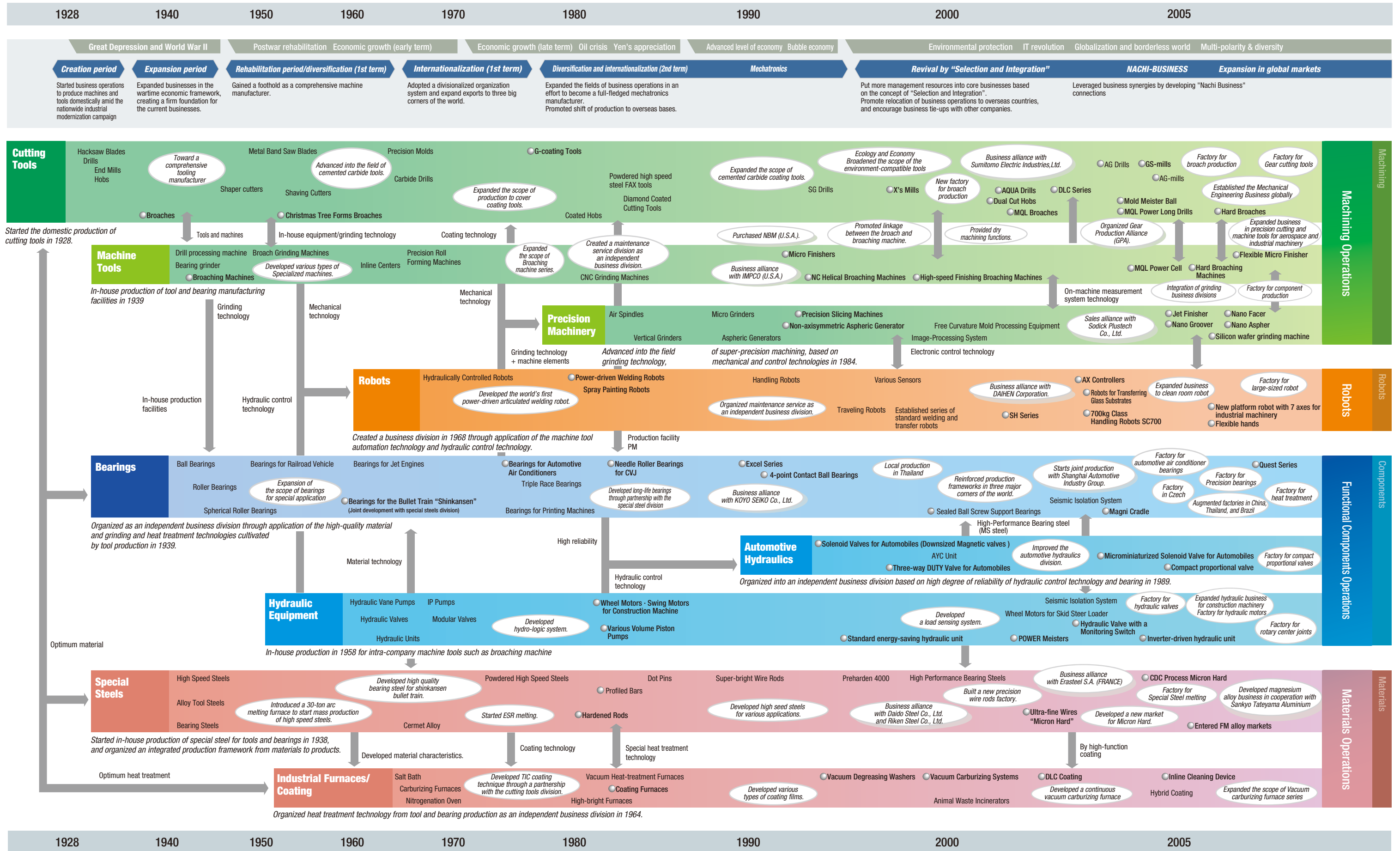


Bearings for opening/closing Stadium Domes



Metal Band Saw Blades for cutting frozen tuna

Genealogy of Synergies based on Engineering & Product Development



Contributing to the Development of Machining through Machinery and Tools
Supporting Machine Tools and Cutting Tools Completely with High Performance and High Precision Required for Machining Processes

Symbio Anchor Tornado

Drilling

From standard drills to high precision and high performance drills a full line up to meet any applications.

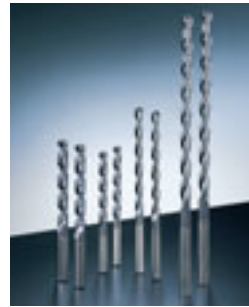
Jointly with Sumitomo Electric Industries, Ltd.

Aqua Drill Series



Proprietary Aqua Coating makes super-hard drills highly efficient for dry, wet and mist applications.

AG-ES/ESS Drills



Reliable cutting achieved with HSS at speeds comparable to carbide

MQL Power Cell



3-axis column moving type, compact and highly flexible

MQL Power Long Drills



MQL, Non step drilling deeply more than 20 times of drill diameter

Milling

End Mill Series that satisfies the high-performance machining requirements for tooling and machine parts

Jointly with Sumitomo Electric Industries, Ltd.

GS Mill Series



GS, world standard carbide end mill that is developed together with Sumitomo Electric Industries, Ltd.

AG Mill Series



Achieving high-performance through special high-speed coating

DLC Cutting Tools



The world's first dry cutting for aluminum alloys

Tap and Die

Providing highly efficient cutting to threading

Jointly with tap manufacturers

G Tap Series



Superior wear resistance, high efficiency and long life.

Tufflets



Stable and precise thread with chip-free process

Thread Rolling Racks



Wide array of applications in mass production through high precision and high efficiency

Broaching

World-leading broaches and broaching machines

A wide range of broaching products, broaches from keyway to large-diameter helical and X-mas tree forms, and broaching machines from 30KN to 500KN.

X-mas Tree Form Broach



NC Helical Broaching machine



Helical Broach

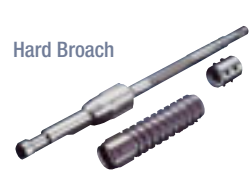


Excellent for high precision broaching of internal helical gears. Highly flexible with no lead bar and no pit

High-speed Hard Broaching machine



Hard Broach



Achieving high-precision, high-performance semi-dry broaching of the high-hardness materials

Gear Cutting

Formed Gear Production Alliance (GPA) jointly with Kashifuji Works, Ltd. And Kanzaki Kokyukoki Manufacturing Co., Ltd. to provide turnkey service for gear production of automotive and other industries

Hyper Dual Hobs



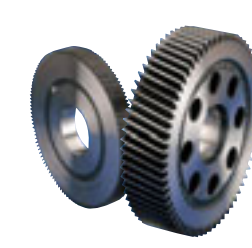
High-performance, wet and dry machining of gear wheels

CNC Gear Hobbing Machine



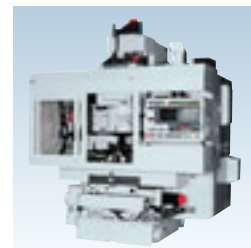
Kashifuji Works, Ltd. (GPA)

Shaving Cutters



For finishing gears with high precision

CNC Shaving Machine



Kanzaki Kokyukoki Manufacturing Co., Ltd. (GPA)

Roll Forming

Short forming time with high precision with use of a forming rack Contributing to energy and material savings with no cutting chips

NC Precision Rolling Machine



High-speed rolling of 30 m/min. doubles machining efficiency. Energy saving of clean machining with semi-dry roll forming

Forming Racks

High precision maintained with highly efficient machining



Cutting-off

Efficient cutting-off of materials such as regular steel and special steel as well as nonferrous metals and frozen foods



Metal Band Saw Blades



Saw blades with superior cost performance for cutting of various materials

Providing Nano-technology in High-tech Fields in Pursuit of Precise Machining
 Responding to Demands in Leading Edge Technology Fields with Ultra-fine Machining at the Nanometer Level

Film Lapping Process

Improving surface roughness and roundness with lapping that uses film coated with polishing powder.

Jointly with IMPCO (US Company)



Micro Finisher MF650



Improving surface roughness and roundness of crankshaft bearing surfaces.

Grinding

Grinding wheels give machine parts, such as heat processed super-hard gears or screws, high-accuracy smooth finished surfaces.



Internal Surface Grinding Machine IG-06SA



Grinding inner surfaces of gears



Ultra-fine Processing

Grooving and cutting of hard, brittle materials for electronics and optical parts to precise dimensions of the 0.1 micrometer level

Ultra-precision Plane Surface Grinding

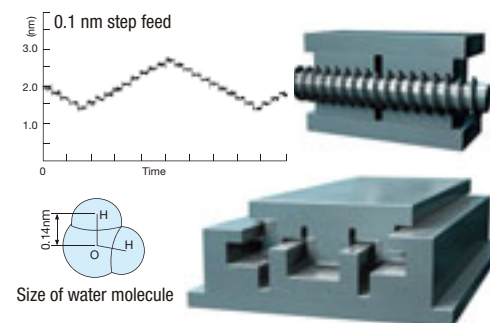
Electrolytic In-process Dress Grinding
 20 nm or less surface roughness per 300 mm diameter



Surface of silicon wafer finished to have a mirror finish

Ultra-precision Feed Mechanism

Hydrostatic Pressure Screw and Slide
 World-class step feed in 0.1 nm increments achieves backlash-free feed.

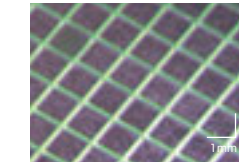


Precision Slicing Machine

Accuracy

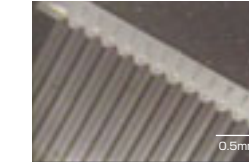


SHG Series
 High-precision cutting and grooving of crystals and ceramics



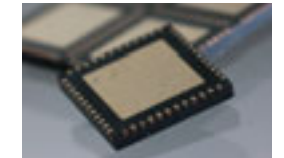
Cutting of Glass with Multi-blade

SPG Series
 Machining of V-groove for an optical fiber cable to an accuracy of 0.1 μm.



Machining V-grooves of Optical Fiber Array

SLG Series
 Best suited to machining a long stroke, for example, in cutting and separation of printed circuit boards.



Cutting of IC Chips - Separation into Pieces

Productivity

Super-precise work

Super precision work for optical components such as lenses that need precision shaping on the nanometer level

Accuracy

ASP series "Nano Aspher" for aspheric and free-form surface machining
 Super-precise machining of lenses and molds for digital consumer electronics

ASP30X
 3 orthogonal axes support machining of free-form surfaces for cutting-edge devices



Free-form lenses

ASP01A
 High-speed & high-precision machining of a wide range of optical parts such as aspheric lenses and precision molds

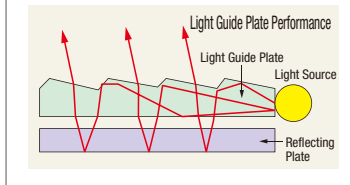


Aspheric lenses



Molds for aspheric lenses

NANO GROOVER
 Ultra-precision Groove Cutting Machine
 High-precision & high-performance machining of the fine and complex reflective grooves for light guide plate molds



ASP005P
 Excellent for mass production of aspheric lens molds with high cost performance



Productivity

Flexibly Responding to Requests for Advanced Production Lines
Contributing to Automation of Production Lines Based on the World's Number 1 Spot Welders

Presto Forte Artis

Handling

Compact new 7-axis handling robot
 MR20



Arc Welding

AX Control Unit
 Developing high-precision paths jointly with Daihen Corp



Spot Welding

Transfer and spot welding of auto bodies



Ultra-Heavy-Load Handling

Large-scale robot press brake



Nachi Robot Series Payload up to 700 kg

A broad lineup to meet a wide selection of applications and spaces.

Presto
For arc welding

- MV04 Arc Welding Robot
- MV16 Arc Welding Robot

Artis
For glass substrate transfer

- SJ80C Robots Designed for Transferring Glass Substrates
- SJ120C Robots Designed for Transferring Glass Substrates
- SH200C Clean Robots with 6-Axis Vertical Articulation
- SC400LC Clean Robots with 6-Axis Vertical Articulation

Presto
For handling

- VS05E Compact, High-Precision Handling Robot
- MA15E Overhead Compact Handling Robots
- MC20 Handling Robot with 6-axis Range-of-Motion
- MR20 Handling Robot with 7-axis Range-of-Motion
- SC35F Handling Robots
- SC50F Handling Robots

Presto
For spot welding

- ST100 Compact, Multi-Purpose Robot
- ST166 Portable Module Structure Robot
- ST200A Portable Module Structure Robot

Forte
For handling heavy loads

- SC300 Robots for Handling Heavy Loads
- SC400L Robots for Handling Heavy Loads
- SC500 Robots for Handling Heavy Loads
- SC700 Robots for Handling Heavy Loads

1 50 100 200 300 400 500 700
 Robot Payload: kg

Functional Parts that Support Safety, Reliability and Comfort
Long Life at High Speed and High Accuracy, Plus Compactness

Longer Life

Excel Series Deep-groove Ball Bearings
Low Torque and Sealing Capability

Motors

Paper Manufacturing Machines

Excel Series Spherical Roller Thrust Bearings
With the world largest load capacity, these bearings can be used in the high-temperature environment

Injection Molding Machine

Excel Series Spherical Roller Bearings
With the world largest load capacity, these bearings can be used in the high-temperature environment

Advanced Functions

Constant Velocity Joints

Roller Bearings for Constant Velocity Joints
High-performance bearings for superb operability, comfort and safety in automobile driving

Automotive Air Condition Compressor

Bearings for Automotive Air Conditioners
Thin-walled compound ball bearings that have the top market share in the world
They have high performance and are lightweight and compact plus they stand up to high speed, high temperatures and vibrations

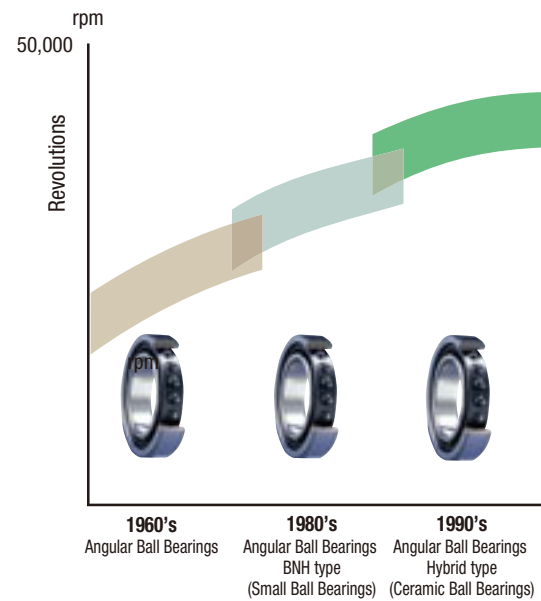
Transmission

Keystone Type Cylindrical Roller Bearings
These cageless, full complement roller bearings have a long operating life. The special heat treatment, even in poor lubrication applications, allows them to last a long time

Pull-type Auto-centering Clutch Release Bearings
For high power and high performance transmission

Higher Speed and Higher Precision

Precision Bearings Evolve with Advances in High-speed Machining



Using angular contact ball bearings for high-speed spindle operations (MQL Power Cell)



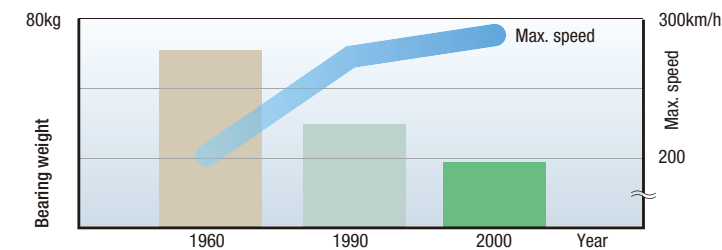
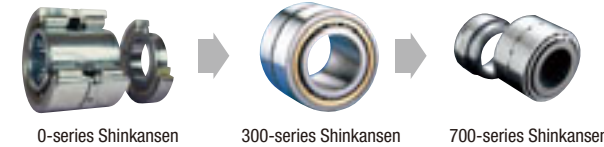
Sealed Ball Screw Support Bearings
Supporting maintenance-free machinery with Sealed Ball Screw Support Bearings in high-precision application

High Speed and High Reliability

Bearings for wheels
Lightweight and Compact Bearings for Axles capable of withstanding the high speed of the bullet train "Shinkansen"

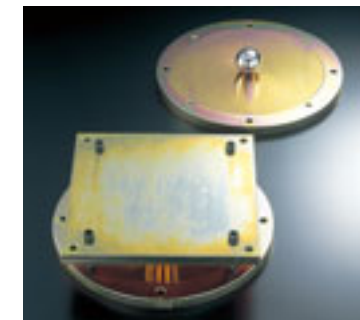


The Bullet Train 700-series "Shinkansen Nozomi"

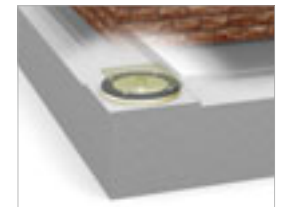


Developing New Technologies

Seismic Isolation System
Highly reliable in protecting houses from earthquakes by preventing the transmission of seismic motion to the structure with rotational movement



This system uses highly reliable rolling bearings that support the weight of the structure to prevent direct transmission of seismic motion to the structure



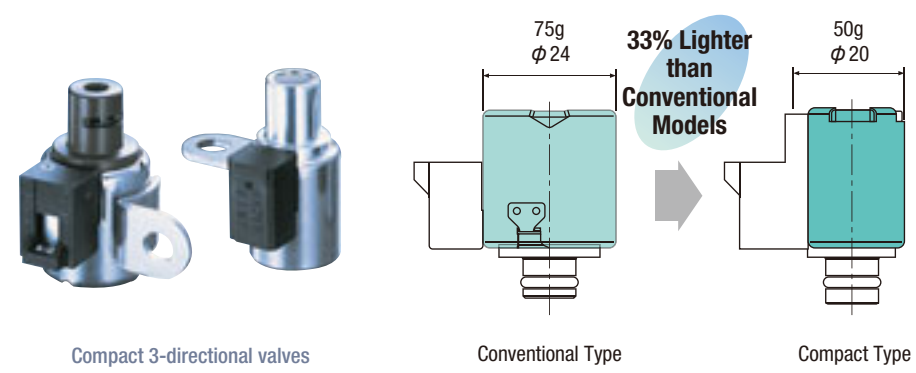
Functional components meet environmental, safety, reliability, and comfort demands
Power control that is powerful, accurate, energy efficient, and compact



Compact and low space requirements

Optimum Control of Automotive AT and CVT

Hydraulic solenoid valve for automobile transmissions



Direct drive linear valve



Direct control of transmission clutch with linear valves make AT and CVT more compact and lightweight and provide smooth shifting

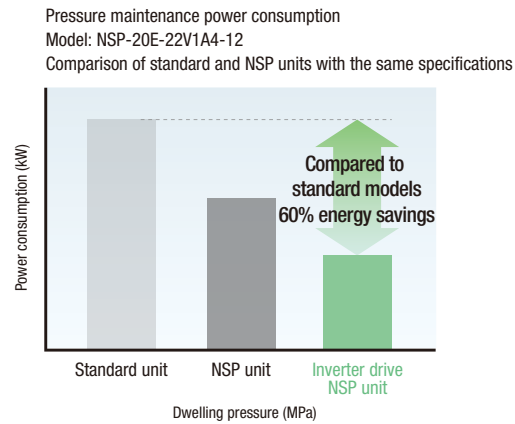
Energy-savings, safety, high-precision

Environmentally-friendly Hydraulic Units

Even greater energy savings with inverter drive



Inverter drive NSP series



Supports safety verification systems

Hydraulic valve with monitoring switch



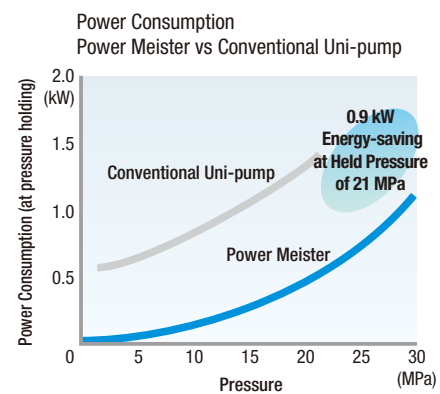
Equipped with safety verification functions that are compatible with international machine safety (ISO 12100) and JIS standards (JIS B 9700)

Realizing Reliable Power Control

Compact hydraulic system with substantial energy saving and high precision



Power Meister



Composite and Multi-functional

Two-pump Functions Integrated into a Single Pump

Necessary functions are compactly integrated

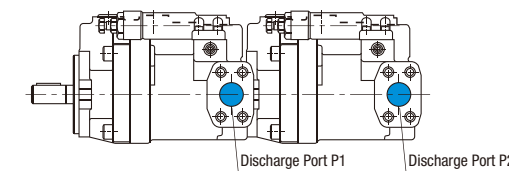
Getting full power for compact backhoes



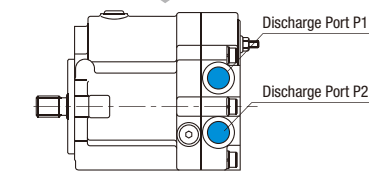
Wheel drive motors



Swing motors



Tandem Type (conventional type)



Split-flow Type



Variable Piston Pump for Small Excavators

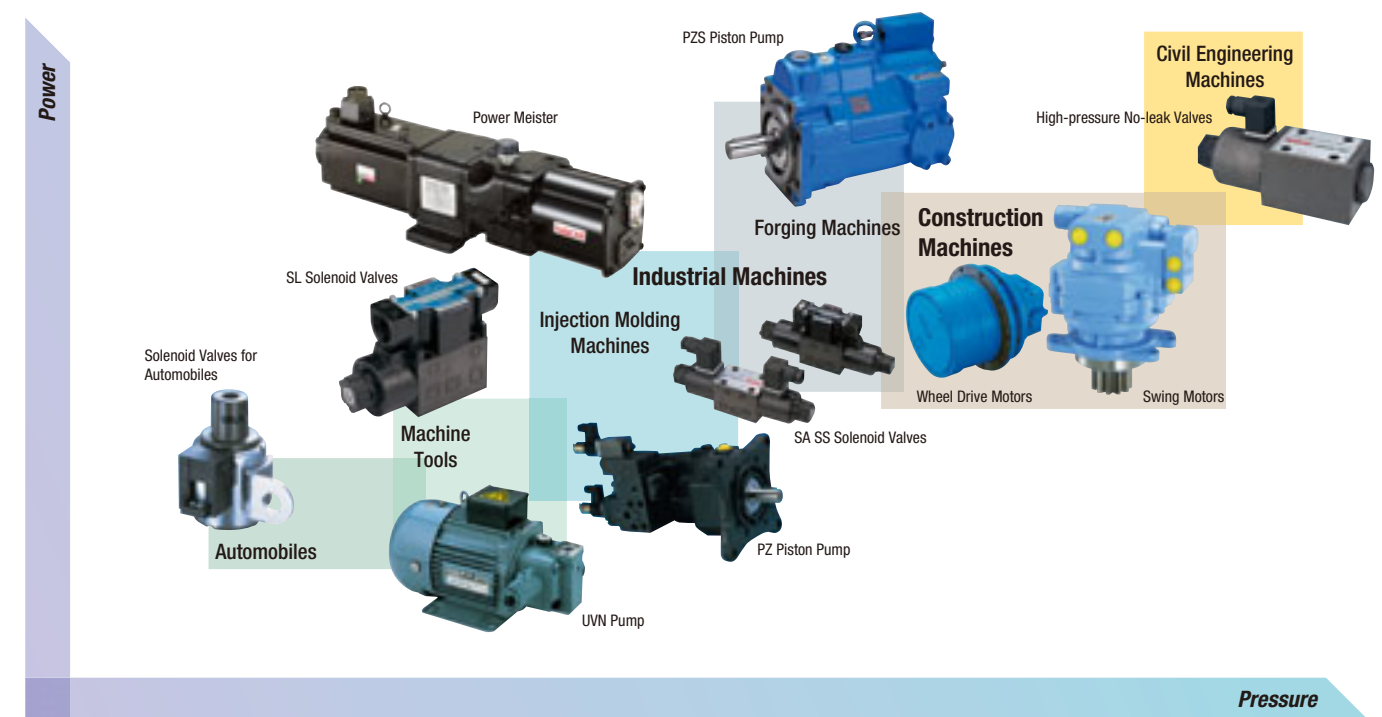
Load Sensing System



Improving operability with a unique control system and realizing the single pump load sensing by eliminating the pump for a swing motor

Series of Power Control Products

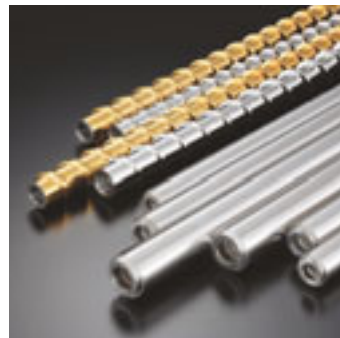
Energy saving, safe, and reliable power control for a wide range of uses



Creating New Value by Combining Materials, Heat Treatment and Coating
Adding High-performance Functions and Values to Materials

High-performance micro control alloy

Achieving high quality and high performance through Nachi's own specialized smelting and metal-forming technologies



New EXEO series materials for functional components
Perfect for aerospace, shipbuilding, and automotive components, ultra-high precision machinery components, and components for injection molding machines that use high-grade resins



DURO Series Steel for High-precision Molds
Suitable for fine-blanking molds of difficult materials, punches in fine/thin/complex shapes, and cold forging molds



PROVA Series Steel for Molds for Corrosion Resistant Mirror Finish Plastics
High-quality stainless steel is great for molds used to create light guide plates and aspheric lenses

Improving Cost Performance by Matching Shape and Hardness to Applications

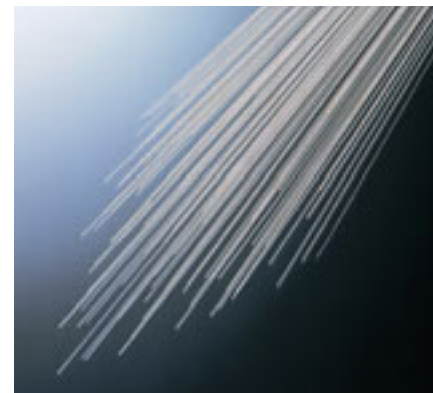


Hardened Rods "Pre-harden"
Heat-treated and ready for production

Supporting a Wide Range of Applications Based on Materials Technology

Shaping Technology

Supplying materials that are as thin as a human hair (Micron Hard) and pre-shaped materials that are close to finished products



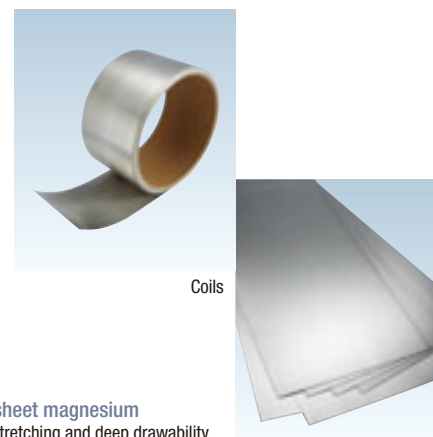
Ultra-fine Wires "Micron Hard"
Challenging to the limits of small diameters

Heat Treatment and Surface Processing Technology

Maximizing material performance through coatings and special wire heat treatment (Pre-harden).



Profiled Bars "Pre-shape"
As close as can be to the final product shape



Thin-sheet magnesium
Great stretching and deep drawability are excellent for pressing

Coils

Sheets

Creating New Value by Outstanding Treatment Processes

NACHI THERMOTECH CO.,LTD.



Vacuum Carburizing Furnace
The environmentally friendly EN-CARBO process enables low-cost, high-precision carburizing. Ideal for automobile parts, such as transmission gears.



Vacuum Degreasing Washer
Hydrocarbon-based solvents are used as a substitute for harmful chlorine organic solvents. It is ideal for washing before and after heat treatment and for washing parts.



Example of Washing (Gears)



Example of Washed Parts (Electric Parts)



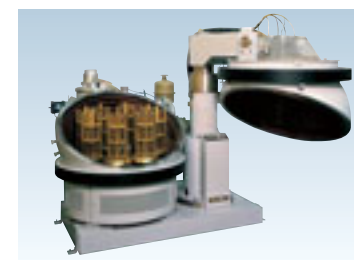
Automated Vacuum Carburizing System
Combining a vacuum carburizing furnace, vacuum degreasing washer, tempering furnace and transfer unit enables clean, flexible heat treatment and unmanned operation.



Example of Automated Vacuum Carburizing (Transmission Gears)



High-grade ceramic coated films such as TiN, TiCN, TiAlN, CrN and DLC can be easily obtained. This machine is ideal for wear-resistant coating on dies, cutting tools and machine parts.



PVD Coating Equipment

DLC (Diamond Like Carbon)
Excellent friction characteristics and diamond-like hardness, ideal for wear resistance on sliding parts.

Examples of Coating



Clutch Plates



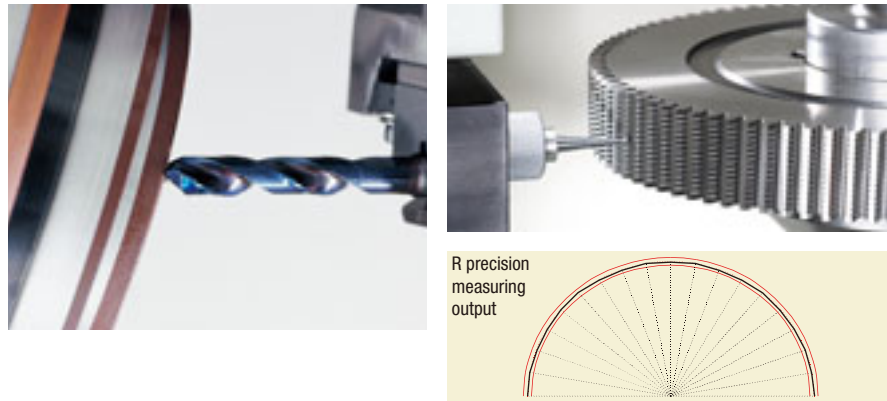
Mold

Total support for manufacturing with a variety of services
Contributing to both cost reductions and the environment

Regrinding and Recoating of cutting tools

NACHI (SHANGHAI) PRECISION TOOLS CO., LTD. (CHINA)
NACHI PRECISION NORTH CAROLINA INC. (U.S.A.)
NACHI MEXICANA ENGINEERING CENTER (MEXICO)

Creating like-new sharpened tools from used dull tools by leveraging our know-how to manufacture a range of tools from drills and end mills to broaching machines and gear cutters.
 Maintain high-performance and long life through recoating.



Robot Services

NACHI ROBOTIC SYSTEMS INC. (U.S.A., CANADA, MEXICO)

A wide range of robot services that match customer needs, such as systemizing, teaching, maintaining and overhauling.



Robot Maintenance



Robot Operation Training

Tool Engineering Service (TES)

Business tie-up with Sumitomo Electric Hardmetal Corp.

Provide full turnkey operations of tools through our full range lineup.
 Our specialized teams analyze production lines and propose the most suitable and efficient methods, tools, and machines.



Energy and Resource Saving Systems

NACHI INDUSTRIAL SERVICE CO., LTD. (Toyama Plant, JAPAN)

Providing custom-made systems, such as the energy-efficient coolant filtration system and the metal sludge recycling system, that reduce industrial wastes from cutting and grinding processes, improve machining precision, and increase production efficiency, as well as the replacement with energy-saving hydraulic units.
 Contribute to both efficient usage of existing equipment and environmental conservation.



Centralized coolant equipment



Metal sludge recycling system

Gear Cutting Service

GPA ENGINEERING CO., LTD. (Gear Production Alliance)

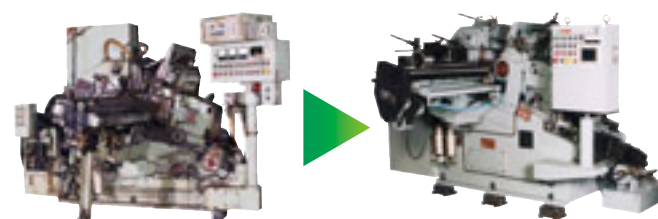
Full support from planning to after-sales services for gear production lines.



Machinery Service

NACHI MACHINERY ENGINEERING CO., LTD. (Toyama Plant, JAPAN)

Modifying and retrofitting machine tools to renew older machines and provide energy efficiency and lower operating costs.



Thermotec and Coating

NACHI THERMOTEC CO., LTD. (Namerikawa Plant, JAPAN)

In addition to manufacturing and sales of industrial furnaces and degreasing washers, we offer comprehensive support that ranges from suggesting optimal heat treatment equipment through testing at our trial yard, to technical services such as maintenance, energy-saving and safety measures.
 Moreover, we conduct heat treatment and coating on consignment.



Expanding engineering bases globally



NACHI Engineering
 (Ayase City, Kanagawa, JAPAN)



NACHI (SHANGHAI) PRECISION TOOLS CO., LTD.
 (Shanghai, CHINA)



NACHI PRECISION NORTH CAROLINA INC.
 (North Carolina, U.S.A.)



NACHI MEXICANA, S.A. DE C.V. ENGINEERING CENTER
 (MEXICO)

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Shiodome Sumitomo Bldg.



Toyama Head Office, Toyama Plant
Products: Cutting Tools, Machine Tools, Bearings and Robots

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21120, THAILAND
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NACHI PILIPINAS INDUSTRIES, INC.
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22285 Roethel Drive, Novi, Michigan, 48375, U.S.A.
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Established:2004 Products:Bearings
NACHI(SHANGHAI) PRECISION TOOLS CO., LTD.
Established:2005 Products:Cutting Tools



NACHI TECHNOLOGY (THAILAND) CO., LTD.
Established:1999 Products:Bearings



NACHI MACHINING TECHNOLOGY CO.
Established:1929 Products:Cutting Tools
NACHI AMERICA INC.
Established:1962
Products: Cutting Tools, Machine Tools,
Bearings, Hydraulic Equipment
and Special Steels



NACHI EUROPE GmbH
Established:1967
Products:Cutting Tools, Machine Tools, Robots, Bearings,
Hydraulic Equipment and Special Steels

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