

NACHI-BUSINESS Galaxy

A BRIEF LOOK AT NACHI

Machining

Cutting Tools



Drills
End Mills
Taps
Cutting-off Tools
Precision Dies

Broaches
Hobs
Shaving Cutters
Forming Racks



Machine Tools



Broaching Machines
Micro Finisher
Precision Roll Forming Machines
Special Purpose Machines

Aspheric Generators
Precision Slicing Machines
CNC Grinding Machines



Robots



Welding Robots
Handling Robots
Spray Painting Robots
Clean Room Robots

Manufacturing Process

Materials
Near-net Shape

Cutting
Cutting-off
Shaping

Heat Treatment
Surface
Modification

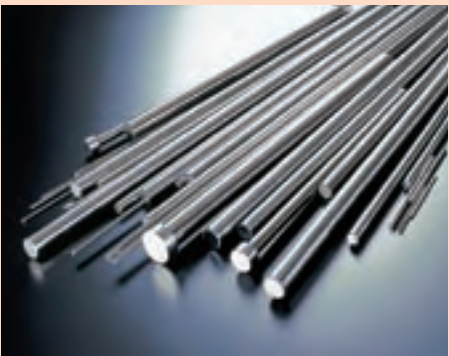
Grinding
Ultra Precision
Machining

Essential Components

Assembly

Welding

Transfer



High-speed Steels
Pre-hardened—Hardened Rods
Profiled Bars
Micron Hard—Ultra-fine wire

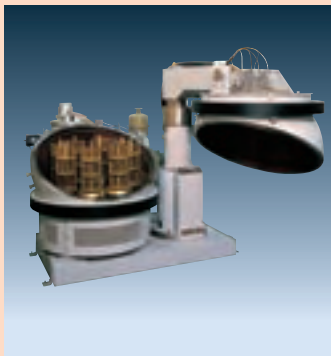
Special Steels

Materials



Vacuum Carburizing Furnace
Vacuum Degreasing Washer

Industrial Furnaces



Coating Equipment
Coating Process

Coating



Ball Bearings
Roller Bearings
Various Other Bearings

Bearings

Components



Hydraulic Pumps
Hydraulic Valves
Hydraulic Motors
Hydraulic Units

Hydraulic Equipment



Solenoid Valves for Automobiles

Automotive Hydraulics

Business Partners

Sumitomo Electric Industries, Ltd.
ALLIED MATERIAL CORP.
Kashifuji Works, Ltd.
Kanzaki Kogyukoki Manufacturing Co.,Ltd.
Industrial Metal Products Corp.

Sodick Plustech Co., Ltd.
Fujikoshi Machinery Corp.

DAIHEN Corporation
DENSO CORPORATION

KOYO SEIKO Co., Ltd.
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.
Erasteel S.A.

Responding to the
Market Needs

Automobiles and
Automotive Parts

3-4

Electronics,
Electrical Appliances,
Information and
Telecommunications

5

Aircraft,
Railroads and
Construction
Machinery

6

Machine Tools and
Industrial Machinery

7

Marketing and
Lifestyle

8

Expanding Latent
Technology

Cutting Tools
Machine Tools
Precision Dies
Precision Tools

9-12

Robots

13-14

Bearings
Hydraulic Equipment
Automotive Hydraulics

15-18

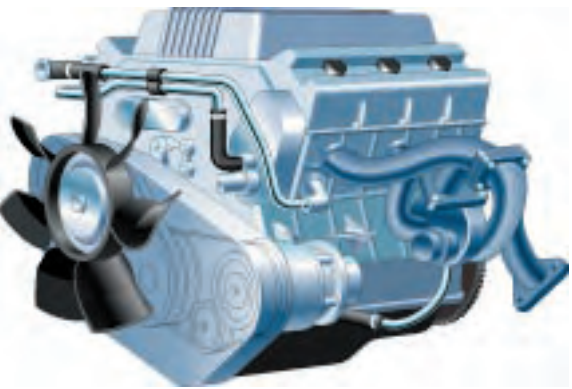
Special Steels
Industrial Furnaces
Coating

19-20

Safe and Comfortable Driving

Engines

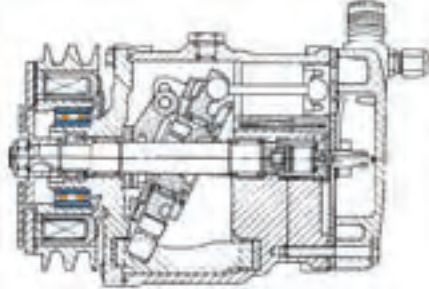
Contributing to Higher Energy Efficiency and Green Processes



Automotive Air Conditioner Bearings



Double-row Angular Contact Ball Bearings for Automotive Air Conditioners



Compressors for Automotive Air Conditioners



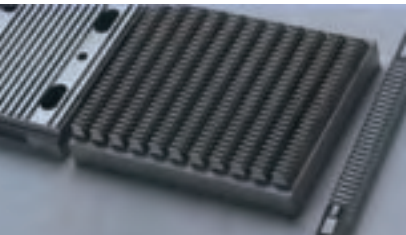
Handling Robots



Spot Welding in Car Production

Steering

Safe and Stable Steering



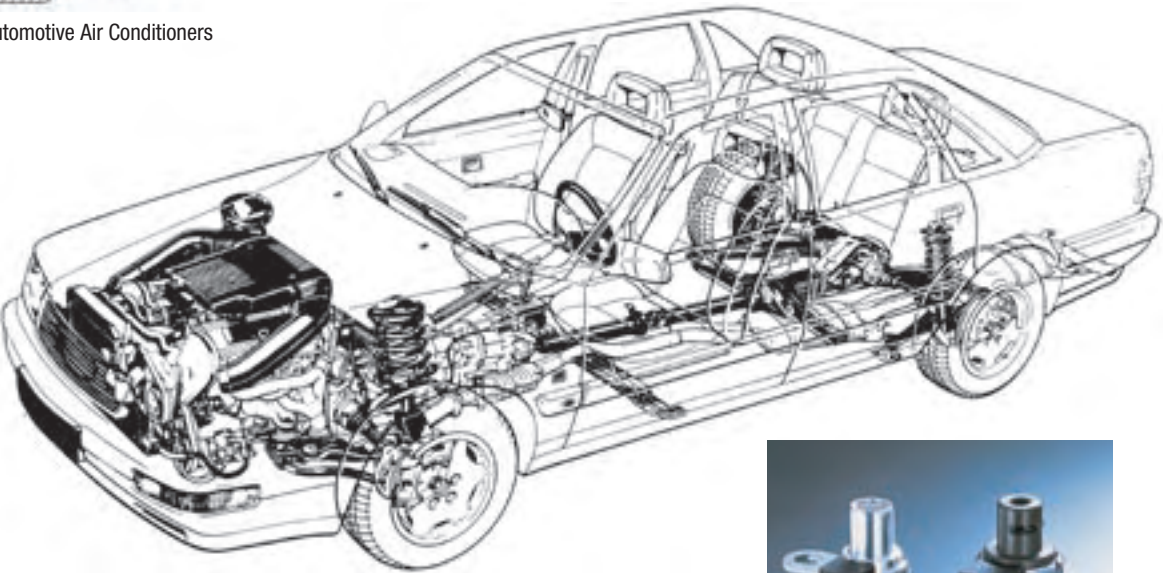
Broaching of Steering Racks

MQL Machining System



MQL Power Cell

High-efficiency, Non Step Deep Hole Drilling



Micro Finisher



Crankshaft and Camshaft Lapping

Vacuum Heat Treatment and Parts Washer for Environmental Conservation



Automated Vacuum Carburizing System

Constant Velocity Joints

Quiet and Smooth Rotary Transfer



Example of Transmission Gear



Roller Bearings for Constant Velocity Joints



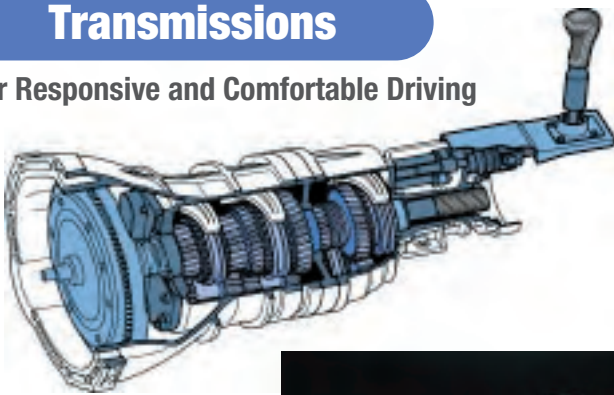
Precision Rolling



Solenoid Valves for Automobiles

Transmissions

For Responsive and Comfortable Driving



MQL Broaching



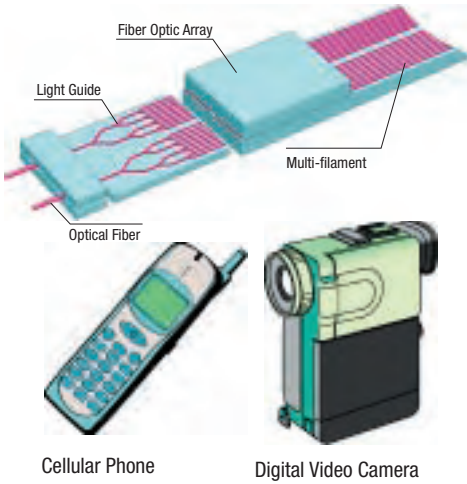
High Speed Hob Cutting



Broaches & Gear Cutting Tools

From IT to Home Appliances

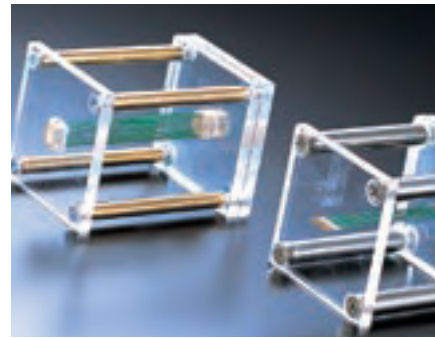
Ultra-precision Machining for HDD Magnetic Heads and Optical Communication Systems



For Punching Semiconductor Packaging and IC Checker Probe Pins



Ultra-fine Wire "Micron Hard"



Ideal Tool for Producing Compressors for Air Conditioners



Precision Slicing Machine

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



Ultra-precision Aspheric Generator "NANO ASPHER"



Broaches for Machining Compressor Vane Slots



Electro-Discharge Truing Device

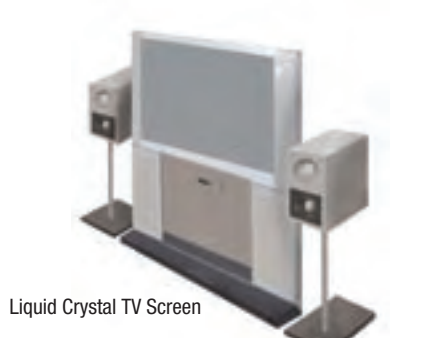


Connector

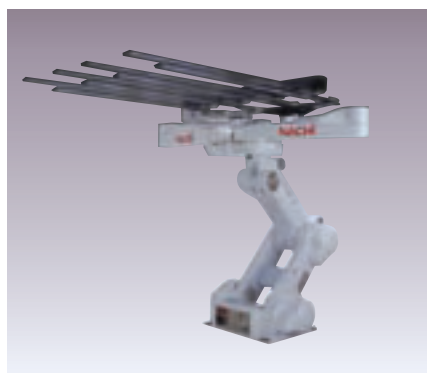
V-groove Block



Ultra-precision Groove Cutting Machine "NANO GROOVER"

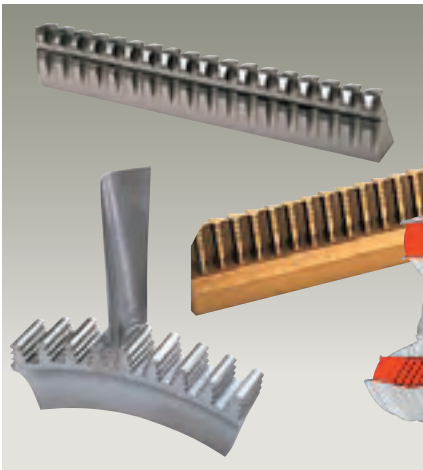


Liquid Crystal TV Screen



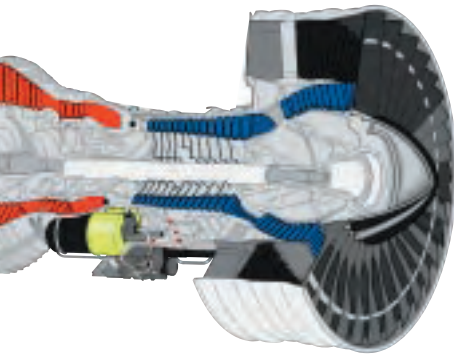
Large-sized Glass Substrate Transfer Robot

Supporting Reliability with High Functionality



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.

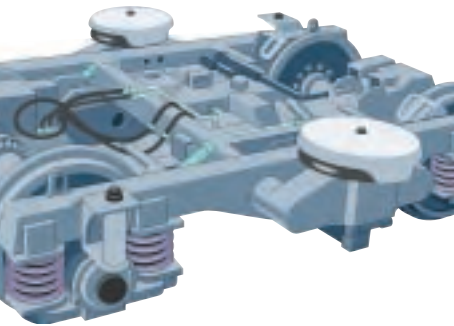


X's-mill Geo Series



Journal Bearings for the Bullet Train "Shinkansen"

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

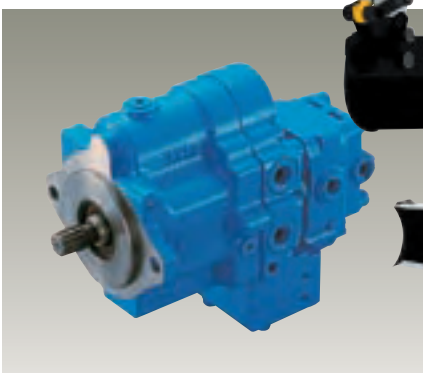


Bearings for Jet Engines



Wheel-drive Motor/Swing Motor

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



Variable Volume Piston Pump



Improving Operability
Load Sensing System



**Robot Systems for Arc Welding,
Spray Painting and Handling**



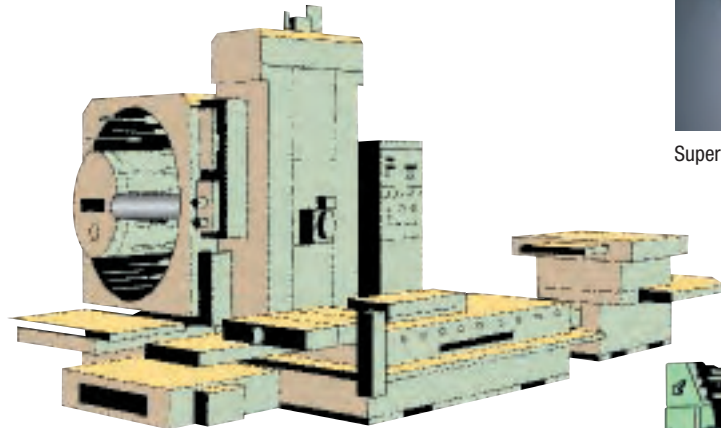
Arc Welding Robots

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



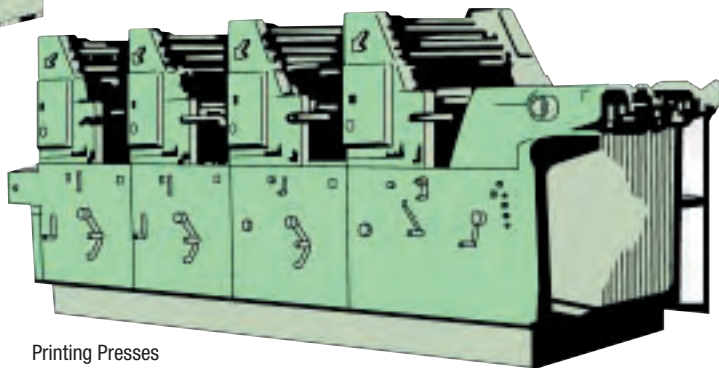
Machining Centers



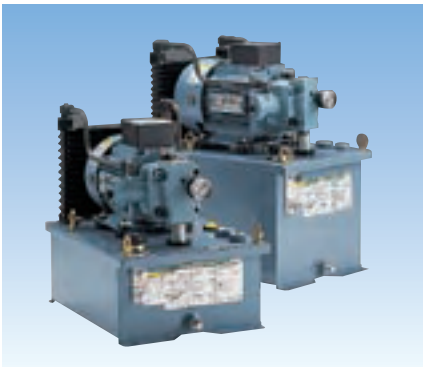
Super Precise Bearings for Machine Tools



Sealed Ball Screw Support Bearings



Printing Presses



Compact Energy-saving Hydraulic Units



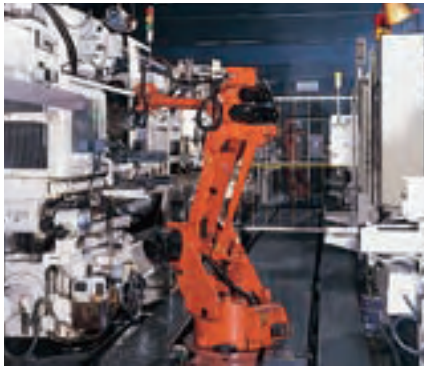
Bearing for Paper Manufacturing Machines



“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



Tools for DIY – Drills



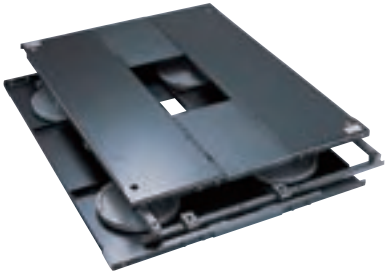
Tools for DIY – Hand Hacksaw Blades and Jigsaw Blades



Excel Series of Deep-groove Ball Bearings



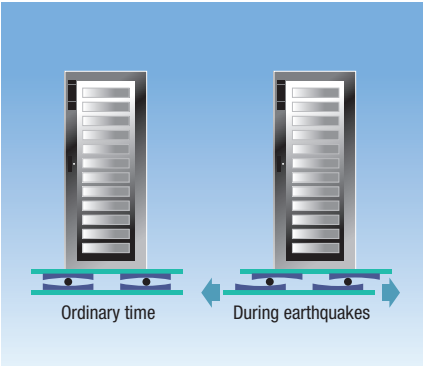
Recycling Materials transfer Robots



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



Excel Series Spherical Roller Bearing



Controls the shock of earthquakes with rolling technology of bearings



Bearings for opening/closing Stadium Domes



Metal Band Saw Blades for cutting frozen tuna

Cutting Tools and Machine Tools


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

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.

SG-ES (ESS) Drills




HSS drills with end mill shanks perform accurate positioning and stable drilling of bore diameters

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



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

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



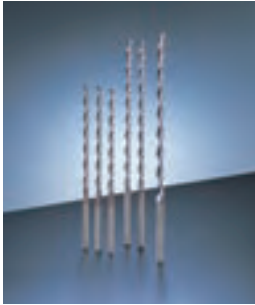
Wide array of applications in mass production through high precision and high efficiency

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

DLC Cutting Tools



The world's first dry cutting for aluminum alloys

e-Center



Compact special-purpose aluminum dry machining center (900 mm wide)

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

Helical Broach





High-speed Hard Broaching machine
Achieving high-precision, high-performance semi-dry broaching of the high-hardness materials

Hard Broach



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



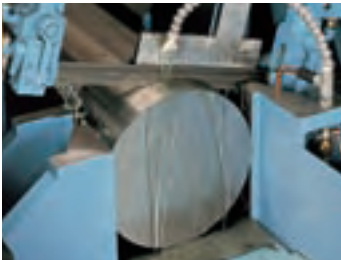
NC Precision Rolling Machine
High-speed rolling of 30 m/min. doubles machining efficiency.
Energy saving of clean machining with semi-dry roll forming




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



Jigsaw blades and hand hacksaw blades for DIY

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

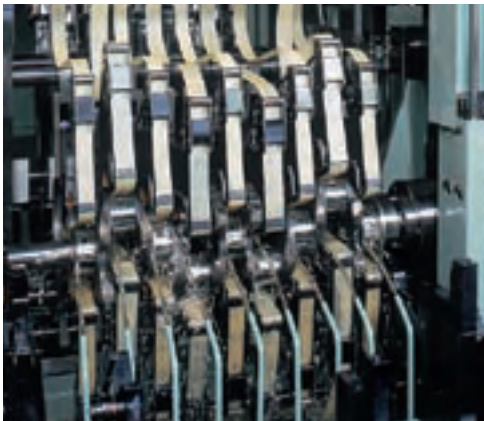
Film Lapping Process

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

Jointly with IMPCO (US Company)



Micro Finisher



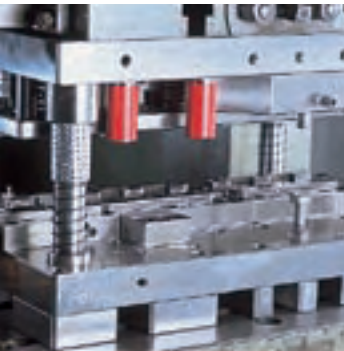
Improving surface roughness and roundness of crankshaft bearing surfaces.

Precision Molding

Offering precision dies that support a wide range of fields, from automotive parts to electric and electronic equipment, to aerospace, aircraft, and precision equipment, as well as supporting transfer configurations.

Stamping Dies

Progressive Dies



Single Dies



Precision-machining Technology for Die Production



End Milling



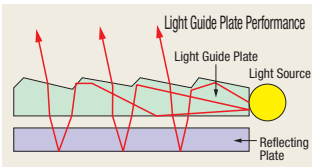
Jig Grinding

Ultra-precision Molds Process

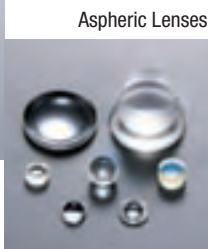
Processing machine for lens molds that require precision forming in nanometer tolerances.



Ultra-precision Groove Cutting Machine “NANO GROOVER”



Non-axisymmetric lenses



Aspheric Lenses



Aspheric Generator for next-generation DVDs lens molds “NANO ASPHER”

Mounted with hydrostatic pressure feed mechanism and trace shape measuring unit, this unit finishes lens molds for laser printers and digital video cameras and light guide plate molds for liquid crystal panels to nanoscale shape precision.

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

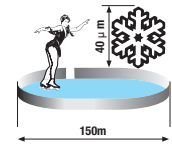
Electrolytic In-process Dress Grinding

20 nm or less surface roughness per 300 mm diameter



Surface of silicon wafer finished to have a mirror finish

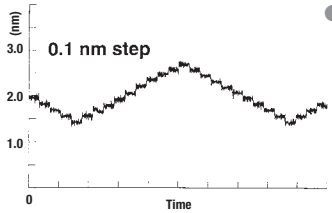
“20 nm or less surface roughness per 300 mm diameter” is equivalent to the roughness of the skating rink of a 150 m diameter, meaning no rough spot of the size of a snow crystal.



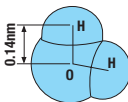
Ultra-precision Feed Mechanism

Hydrostatic Pressure Screw and Slide

0.1 nm step feed



World-class step feed in 0.1 nm increments achieves backlash-free feed.



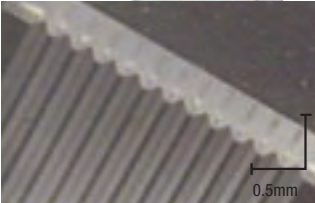
Size of water molecule

Precision Slicing Machine



SPG Series

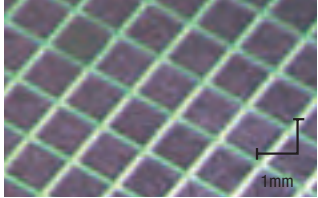
Machining of V-groove for an optical fiber cable to an accuracy of 0.1 μm.



Machining V-grooves of Optical Fiber Array

SHG Series

High-precision cutting and grooving of crystals and ceramics



Cutting of Glass with Multi-blade

SLG Series

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



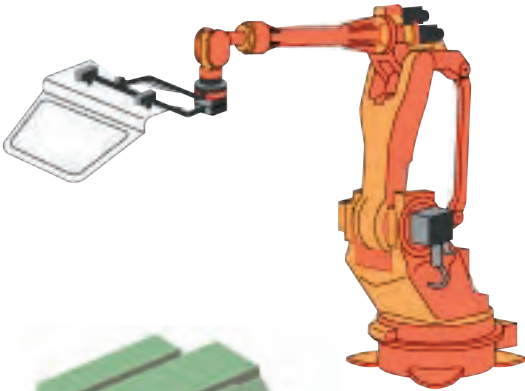
Cutting of IC Chips — Separation into Pieces

Accuracy and quality

Productivity

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

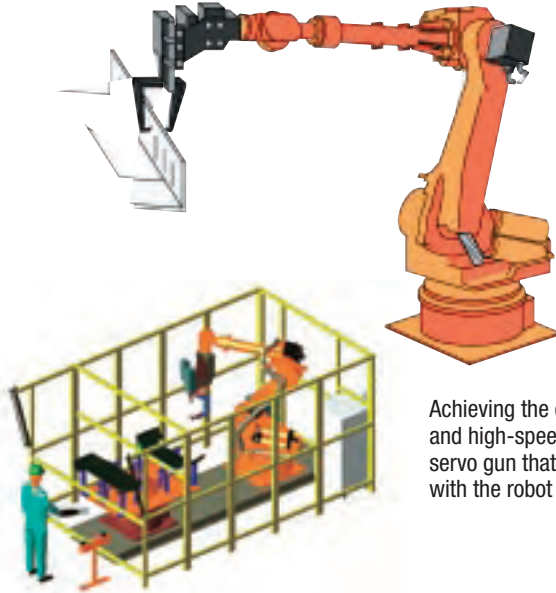
Handling



Providing the high speed, wide-ranging movements and the highly accurate repetition of positioning for the large and small parts

Standard Handling Cell

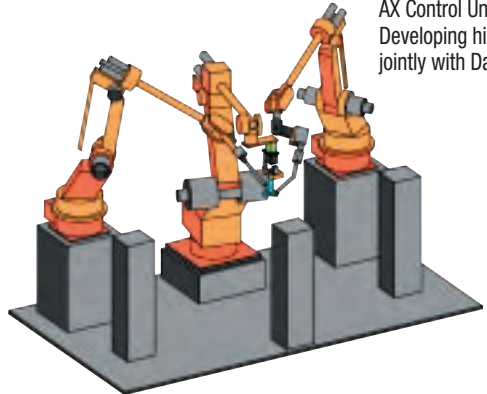
Spot Welding



Achieving the optimal track and high-speed movement of servo gun that is synchronized with the robot movement

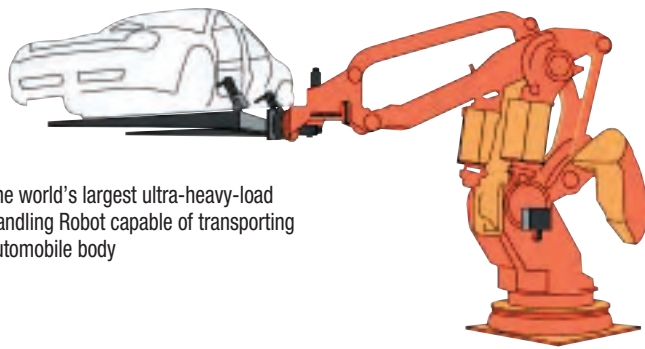
Standard Spot Welding Cell

Arc Welding



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

Ultra-Heavy-Load Handling



The world's largest ultra-heavy-load Handling Robot capable of transporting automobile body

Nachi Robot Series Payload up to 700 kg

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

In cooperation with Daihen Corporation

Small Size	<div>VS Series</div> <div>Parts Assembly and Handling</div> <div>VS05E</div> <div>SC06F, EX-V6, EX-V16</div> <div>Arc Welding</div> <div>SC06F</div> <div>850</div> <div>1,180</div>		
Medium Size	<div>Daihen EX-V6</div> <div>650</div> <div>1,135</div> <div>SC15F, 35F, 50F</div> <div>Handling</div> <div>SC35F</div> <div>1,175</div> <div>1,660</div> <div>SG160P</div> <div>SG160P/R</div> <div>Spot Welding</div> <div>1,465</div> <div>2,250</div>		
Large Size	<div>PW20</div> <div>Spray Painting</div> <div>PW20</div> <div>SJ80C</div> <div>Clean Room Robot</div> <div>SJ80C</div> <div>SH133C</div> <div>SH133, 166, 200</div> <div>Spot Welding</div> <div>SC80LF, 120F, 300F, 400L, 500, 700</div> <div>Handling</div> <div>SH200</div> <div>3,000</div> <div>3,782</div> <div>SC700</div>		
	10	100	700 Robot Payload: kg



Spot Welding for Automobile Parts **SH166**
Making a factory clean and quiet with high-quality welding of no sputter



Arc Welding for Housing Materials **SC15F**
Effective use of space with overhead suspension specification



Loading Work for Machine Tools **SC15F**
Layout that allows a robot to supply work for multiple machines
Long hours of unmanned operation with Work Stocker



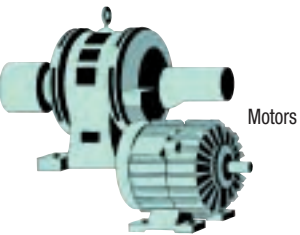
Palletizing Chemical Products **SC120F**
Loading bags and boxes of parts on pallets

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



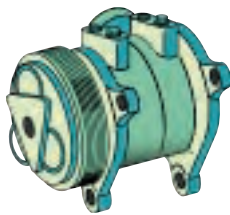
Excel Series
Spherical Roller Bearings
With the world largest load capacity, these bearings can be used in the high-temperature environment

Advanced Functions

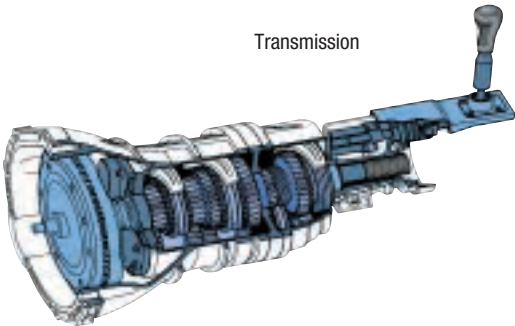
Constant Velocity Joints



Automotives Air Condition Compressor



Transmission



Roller Bearings for Constant Velocity Joints

High-performance bearings for superb operability, comfort and safety in automobile driving



Bearings for Automotive Air Conditioners

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



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

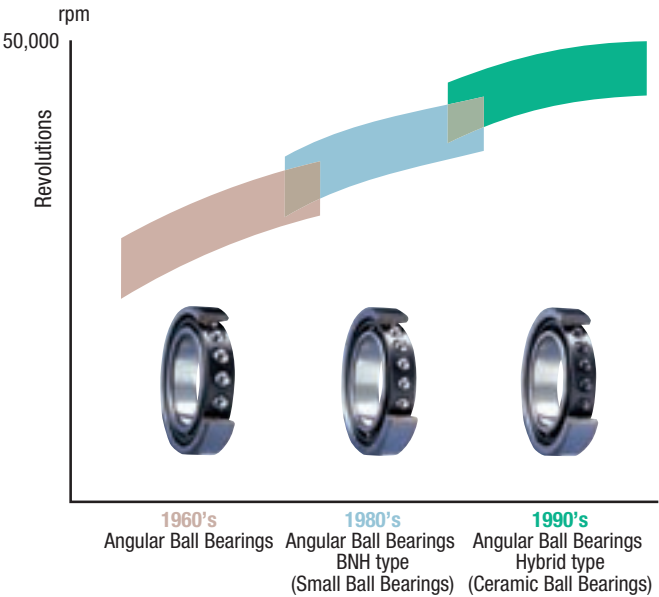


Pull-type Auto-centering Clutch Release Bearings

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

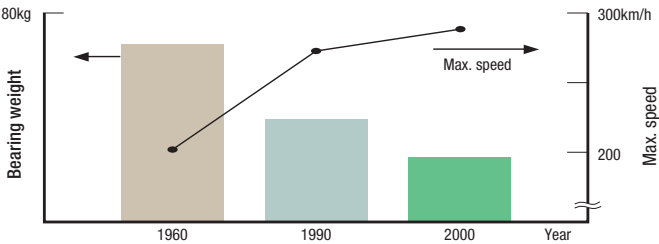
Lightweight and Compact Bearings for Axles capable of withstanding the high speed of the bullet train "Shinkansen"



The Bullet Train 700-series "Shinkansen Nozomi"



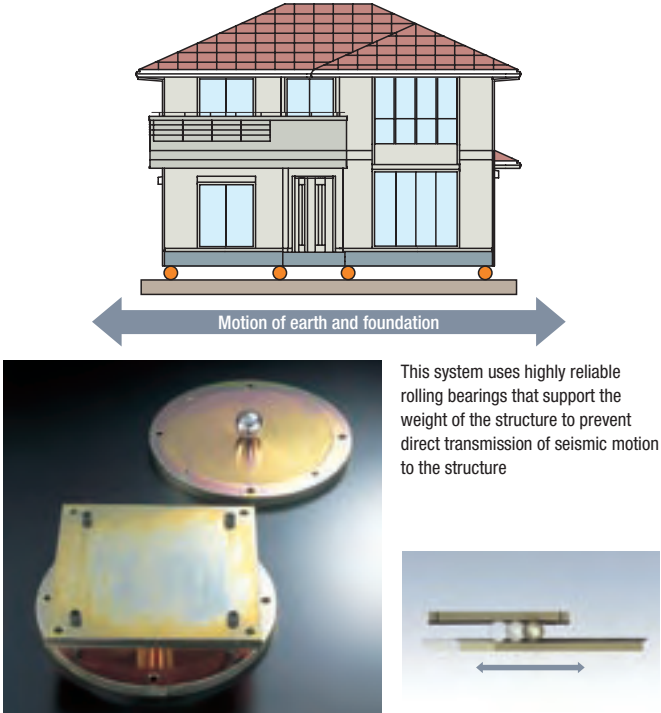
0-series Shinkansen 300-series Shinkansen 700-series Shinkansen



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

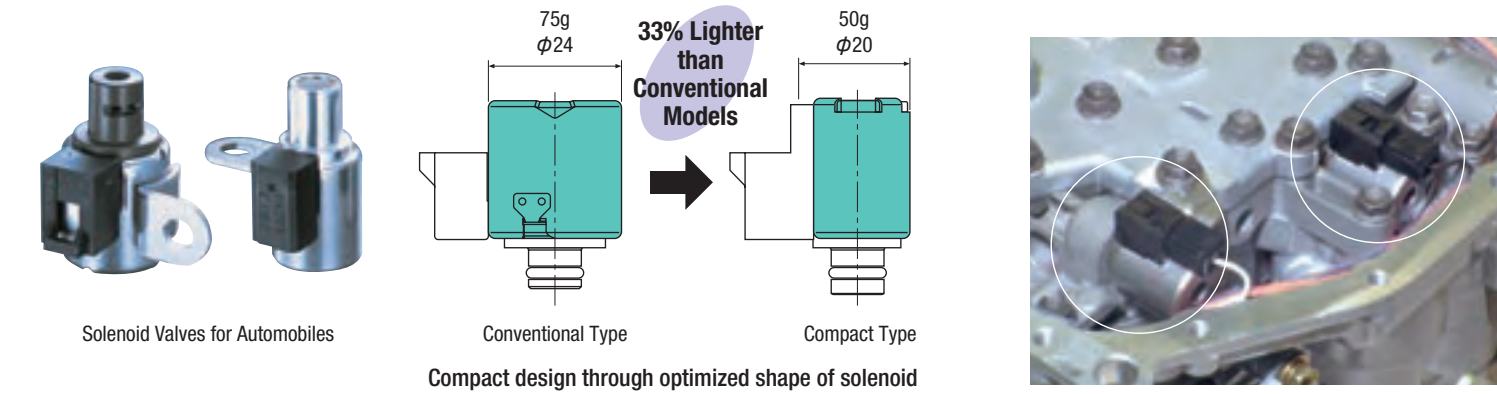


Provided by DAIWA HOUSE INDUSTRY Co., Ltd.

Functional Parts that Support Safety, Reliability and Comfort
Powerful and Reliable with Compact Power Control

Compact

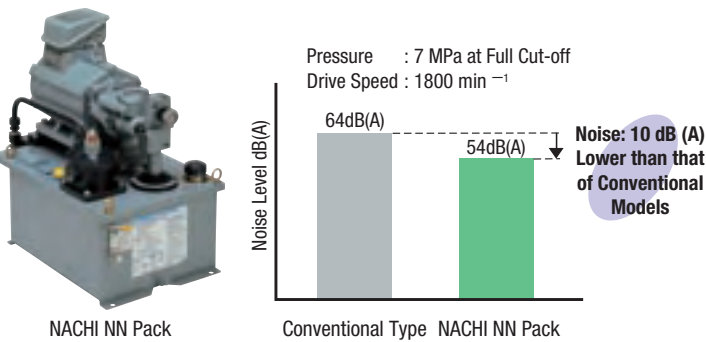
Optimum Control of Automotive AT and CVT



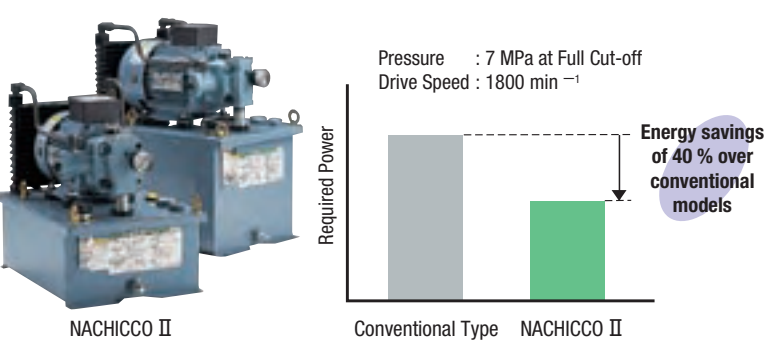
Energy-saving

Environmentally-friendly Hydraulic Units

Hydraulic Units with Low Noise and Low Heat Generation



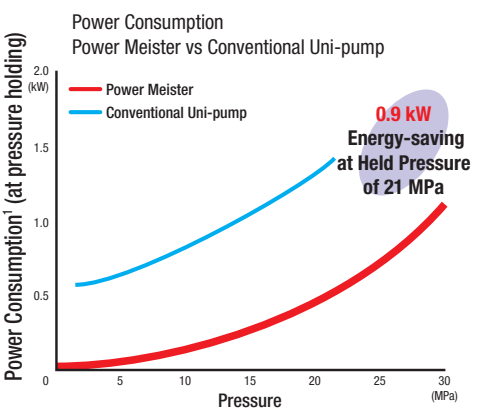
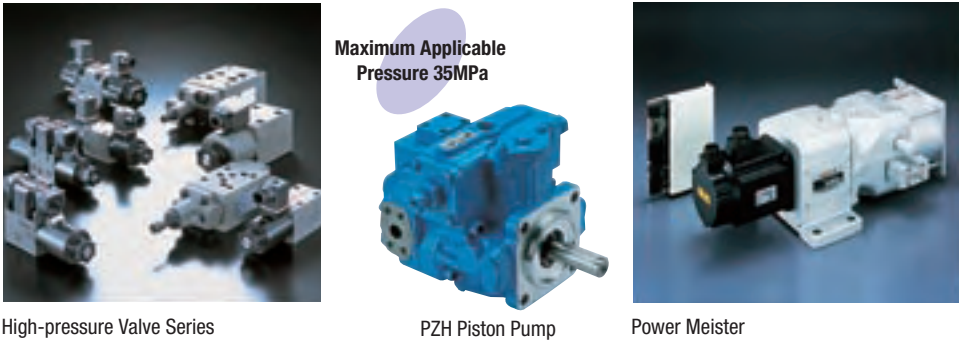
Energy-saving Hydraulic Units for Supply Power to Machine Tools



High-pressure and High-precision

Realizing Reliable Power Control

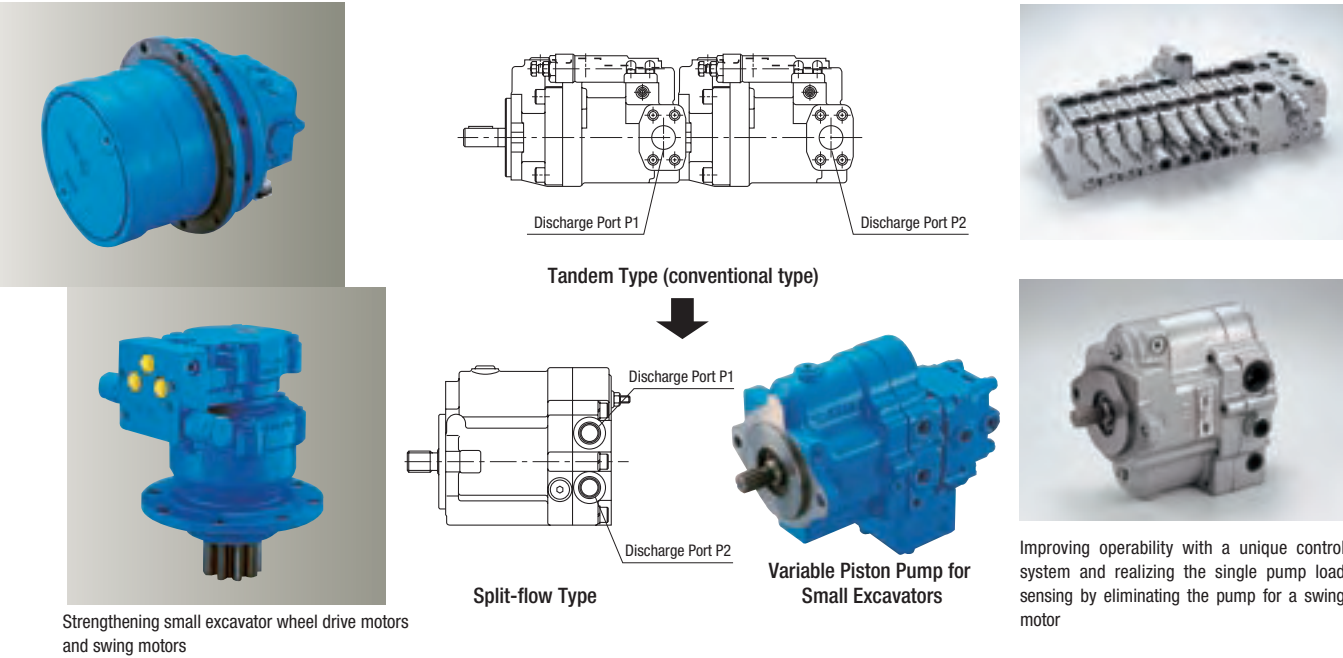
Providing greater compactness in hydraulic equipment



Composite and Multi-functional

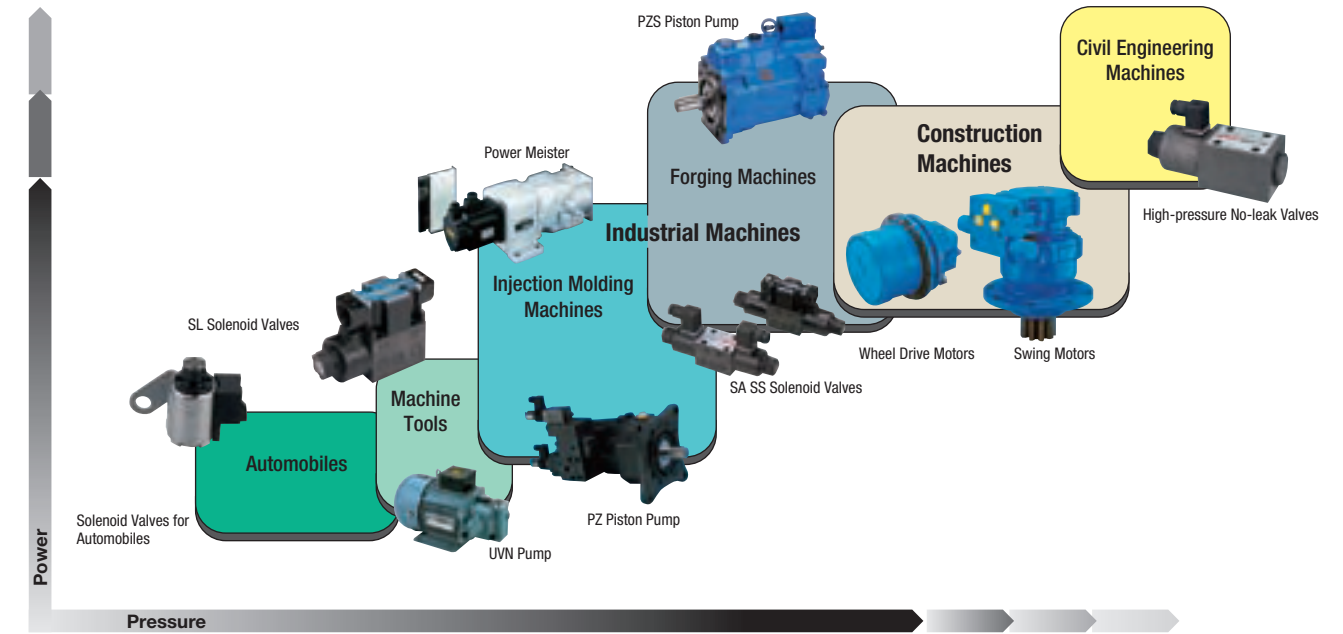
Two-pump Functions Integrated into a Single Pump

Necessary functions are compactly integrated



Series of Power Control Products

Developing Safe, Stable Power Control Widely for Various Industries



Creating New Value by Combining
Adding High-performance Functions

Materials, Heat Treatment and Coating
and Values to Materials

Improving Cost Performance by Matching Shape and Hardness to Applications



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

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

Heat Treatment and Surface
Processing Technology

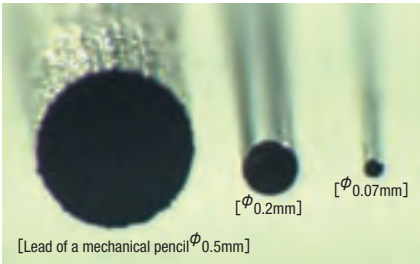
Maximizing material performance through coatings and special wire heat treatment (Pre-harden).



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



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



Comparison of Micron Hard and the mechanical pencil lead

Creating New Value by Outstanding Treatment Processes



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

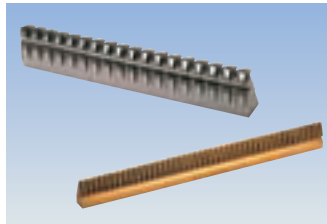


Vacuum Degreasing Washer
Hydrocarbon-based solvents are used as a substitute for harmful chlorine organic solvents. It is ideal for washing before and after heat treatment and for washing parts.



Metallurgical Technology for the World Top Level Tools and Essential Components

Application Examples



X-mas Tree Form Broaches
for Jet Engines



Bearings for Jet Engines



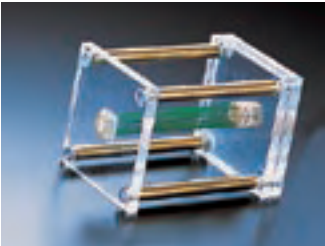
Vane for Hydraulic Pumps (Pre-shape)



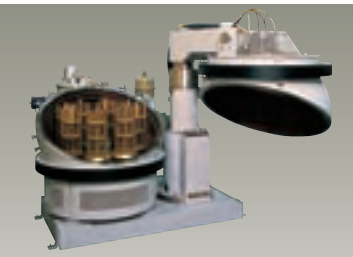
Linear Bearings (Pre-shape)



Print Head for Dot Matrix Printers (Micron Hard)



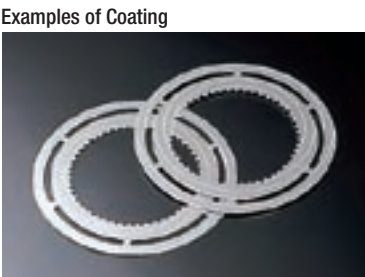
Probe Unit for Semiconductor Testing
(Micron Hard)



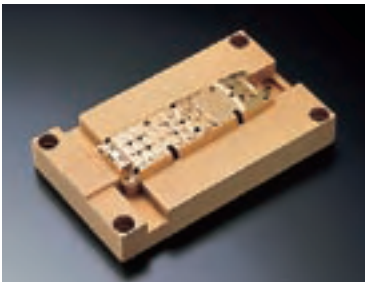
PVD Coating Equipment

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.

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

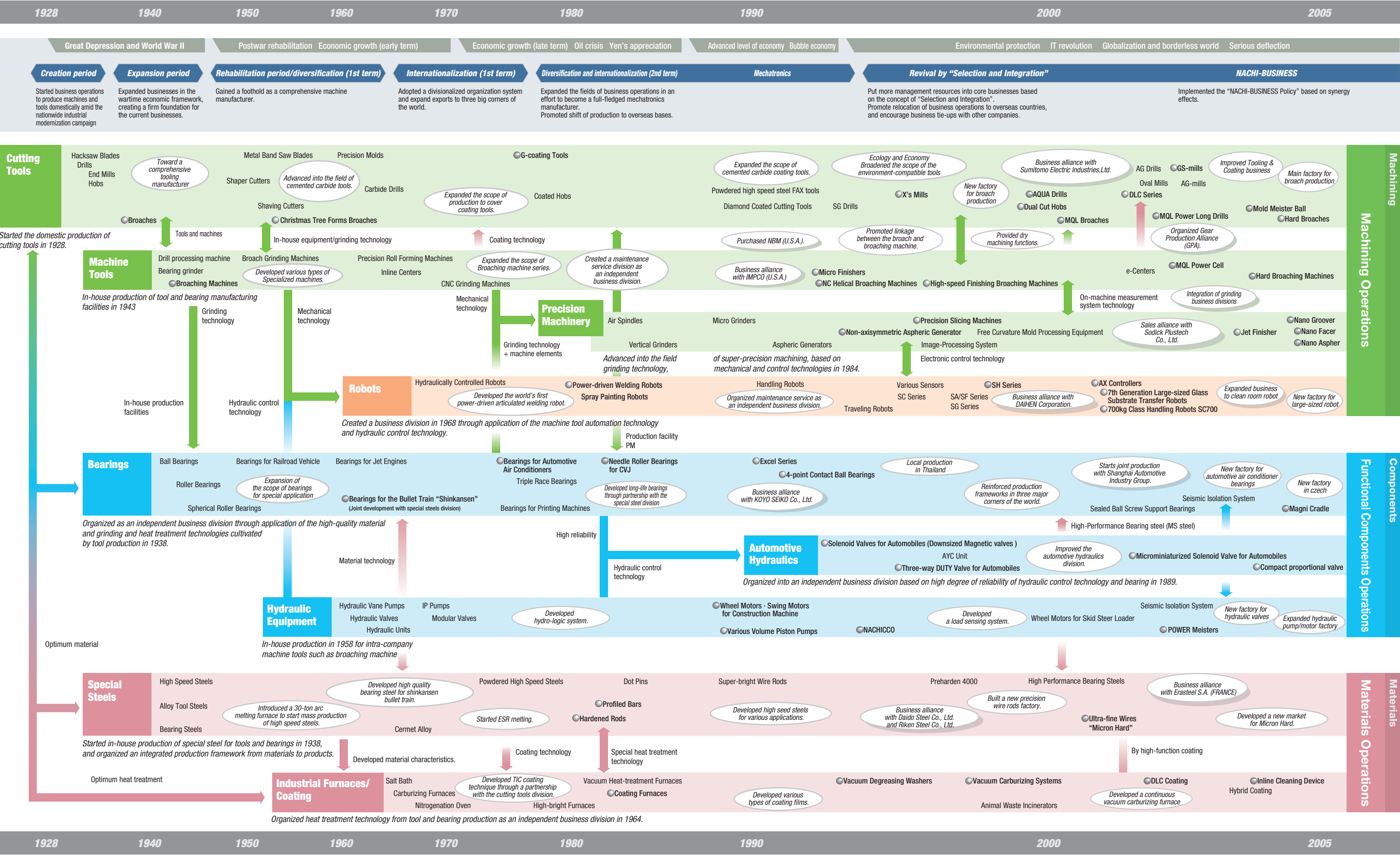


Clutch Plates



Mold

Genealogy of Synergies based on Engineering & Product Development



NACHI COMPLEX provides with Stages and Functions which are Keys for Companies

NACHI-BUSINESS Galaxy

NACHI Current
Showroom



Machinery & Robot Stage
Machining & Robot demonstration



Tribology Stage
Components for automobiles and industrial machinery



Quality Assurance
Laboratory (QA Lab)



Three-dimensional
measurement room



Precision measurements room

Kohki Hall
General-purpose Hall



Café Across
Dining Hall for the visitors



Fujikoshi-Museum
Memorial Hall



Engineering Services Throughout the World



Robot Maintenance



Engineering Seminar



Showroom



Bearing Performance Test



Technical Consulting



Demonstration of Drilling



Robot Operation Training

NACHI-FUJIKOSHI CORP.

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

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Fax. +55-11-4793-8870
URL: http://www.nachi.com.br/



NACHI TECHNOLOGY INC.
Established:1974 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

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Fax. +420-415-930-940



NACHI BRASIL LTDA.
Established:1972
Products:Bearings and Cutting Tools



NACHI INDUSTRIAL, S.A.
Established:1976 Products:Bearings



NACHI CZECH S.R.O
Established:2003 Products:Bearings

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Fax. +1-562-802-2455

LATIN AMERICA BRANCH
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Fax. +1-248-305-6542
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Phone: +1-905-660-0088
Fax. +1-905-660-1146
URL: http://www.nachicanada.com/

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C.P. 11230, Mexico D.F. MEXICO
Phone: +52-55-5386-1396
Fax. +52-55-5386-1336



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Established:1979 Products:Cutting Tools

NACHI SINGAPORE PTE. LTD.
Established:1975 Products: Cutting Tools,Bearings and Hydraulic Equipment



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

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Established:2004 Products:Bearings



NACHI ROBOTIC SYSTEMS INC.
Established:1989



NACHI EUROPE GmbH SOUTH GERMANY BRANCH
Established:1967

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