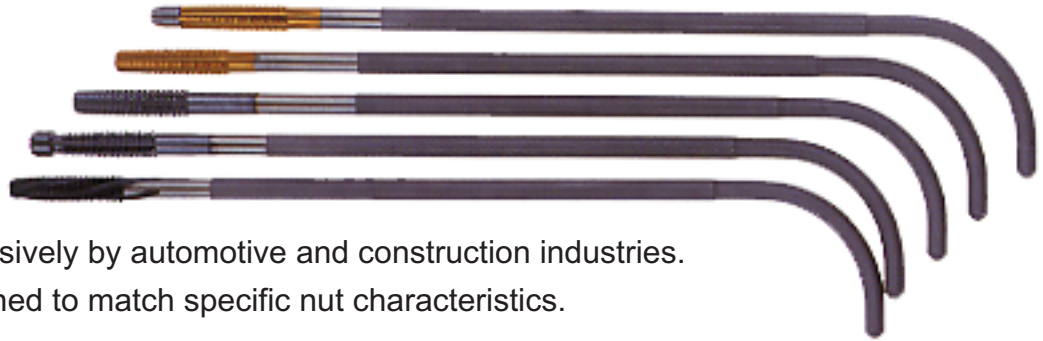


Pioneer Trading Co., Ltd.

PRODUCTS

NOMURA Nut Taps



*Used extensively by automotive and construction industries.

*Taps designed to match specific nut characteristics.

SHIMAZU Twin Spindle Nut Tapping Machines

*Non-stop operation for great productivity

*Zero-defect production

*Latest touch-sensitive control screen

*New machine for M52 is available



T & G Trimming Dies



- *5 Layer Special CVD Coating (CN05)
- *Long life and excellent quality based on uncompromising manufacturing method
- *Sensational results even for hard materials, such as Chrome-Molybdenum Steel, etc. have been reported by leading users in the world.

Nisshin Alpha Dies



- *Ultra Long Life Cold Heading and Forming Dies
- *Approx. 5~10 times longer life than conventional designed dies
- *The a Die Case can be reused 10-15 times or much more.
- *Ultimate cost reduction proved for a great number of applications
- *Unique design and assembly method

JHW Tungsten Carbide Segmented Punches and Dies



- *CREATION - JHW responds for higher customers needs by datalizing the workmen's know-how of the handicraft.
- *DEVELOPMENT - Realizing the advanced technologies on the actual products.
- *HIGH TECHNOLOGY - JHW has been recognized world wide by OGHEX system and contributing to the epoch making die-sets.
- *VISION - JHW wishes to supply high added value products world wide.

NHK Recess Punches



- *One of the biggest manufacturers of the header punches in the world in supply volume and variety of punches.
- *PICA ICHI coating (CVD multi layer : TiN+TiCN+TiC)
- *Uniform thickness of coating layer
- *Strictly selected base materials and thoroughly considered heat treatment and up-to-date production and inspection facilities.
- *#0 or even #00 sizes are available.

Takeda Punches and Pins



*Punches are the speciality of TAKEDA TOOL.

*High accuracy and quality achieved by highly experienced and skilled designers, operators and engineers and the most up-to-date manufacturing facilities including heat treatment, coating and quality control.

*Astonishing durability and reliability realized by TAKEDA'S know-how accumulated in many years tooling.

*Indispensable to be competitive for nuts, hollow parts and special parts.

Tokuhatsu Washers



*Wave Spring Washers (SPAK)

*Spring Washers

*Other Washers

Precision Kuroda API gauges



*Supply all kinds of thread gauges listed in API spec. 5B, 7 and 11B.

*Has been granted the right of use API Official Monogram for API spec. 5B, 7 and 11B.

*Premium Connection Gauges can be supplied as well.

Nakashimada Cold Headers / Cold Formers



- *Nakashimada double headers are the answers for high productivity, durability and precision.
- *World-best-selling 2D-3B machines offer you wider range of great value applications.
- *Multi-Station formers with high quality and accuracy and expand wider range of forged products.

NISSEI CNC Rolling Machine (5 models)



- *4 Column mechanism enables accurate positioning control.
- *NC control main spindle inclination/rotating speed.
- *NC control main table positioning.
- *Applications for ball screws, splines, helical gears and worms.
- *Complex rolling by 1 operation. (Trapezoid threads and splines)
- *Variable lead pitch by 1 operation. (For pipes)
- *3 different portions by 1 set up. (threads, splines, serrations)
- *3 different dia. threads by 1 set of dies.
- *Awards from the Japan Society for Technology of Plasticity.

Yutaka Screw Inspection Machines



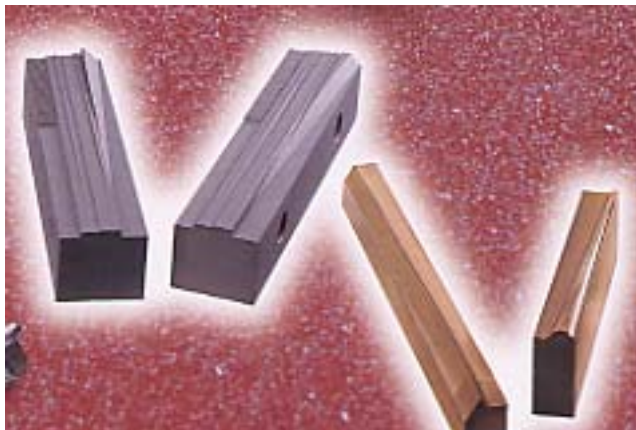
- *Model YS-3B is available for 3 different versions. YB-3BM (0.8-0.2mm x 550ppm), YS-3B (2.6-6.0mm x 900ppm).
- *Model YS-4B (8-12mm x 600ppm) is also available.
- *Nail and spiring inspection machines are also available.

Higashida Thread and Form Rolling Machines



- *High competitive and profitable form rolling.
- *Over 50 years experiences and 3,000 machines serving satisfied customers.
- *Wide variation M1 - M24 sizes, inclined and horizontal types, etc.
- *Easy set-up. Consistent quality.

Kobata Threads and Form Rolling Dies



- *A great number of applications.
- *Well proved and used by leading automotive fasteners and parts manufacturers.
- *Ample experience in dies for special machine screws and tapping screws as well.

Atais Cold Heading/Forming Tooling



- *Tooling for screws, bolts, nuts and special parts.
- *Punches and dies for presses.
- *Excellent quality and life.
- *Internationally competitive prices (total cost).
- *Ample experience and supply records.

Yamato Thread Rolling Dies



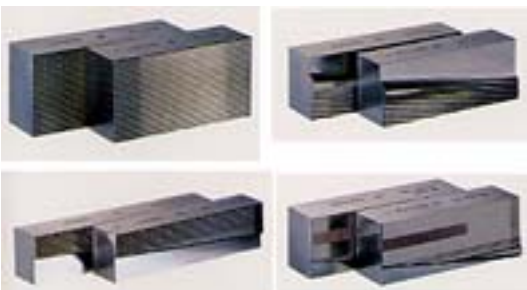
- *Expert in rolling dies for self tapping screws, chipboard screws, drywall screws and other gimlet point screws.
- *A lot of experience and supply records.
- *Very competitive prices.

Vectrix PC Torque Analyzer (Tapping screws, Self-Drill screws)



- *Shows special torque characteristics through graphic computer.
- *Test Torque under actual condition.
- *Easy operation.
- *Calculate and analyze data automatically.
- *Test reports with graph can be printed automatically.

Daishin Thread Rolling Dies / Form Rolling Dies



- *DAISHIN has been manufacturing and supplying rolling dies for machine screws, tapping/wood screws, thread forming screws, knurled products, profile forming and variety of special products.
- *Industries supplied to are automobiles, electronic appliances, watches, computers, toys, etc.
- *High quality and accurate dies which is realized by well organized facility and strict attitude toward quality control.

Other Items

- | | |
|------------------------|---|
| 1. Sanritsu Machinery | Screw Washers Assembly Machines |
| 2. Fujisawa Machine | Cold Formers (4/5/6 Stations) |
| 3. Iizuka Co. | Rotary Rolling Machines |
| 4. Gomi Machine | Tap Flute Grinders |
| 5. Manyo Co. | Cold and Hot Forging Presses/Steel Choppers |
| 6. Enomoto Machine Co. | Screw Presses |
| 7. Neagari Mfg. Co. | Hydraulic Presses and Special Presses |
| 8. Createc Co. | Cold Forging Dies for gears and extrusion parts |