



## "DICERO" hard coat films



### Key features of the product

1. Highly transparent and high quality hard coat films
2. Diversified range of base materials such as PET and isotropic films
3. Grade in combination with adhesive layer is available.

DICERO is a hard coat film of high transparency and high quality. The thickness of the base material can be controlled from 50 to 188  $\mu$ . Moreover, the types of base materials include not only PET but also grades of polycarbonate with good optical isotropy and acryl, as well as materials with adhesive on one side.

### Solutions for our clients

We are the top maker of diffusion films for LCDs. We have advanced optical technology and production technology that meet rigorous quality standards, and provide high quality products. The hard coat films are heavily used in the field of touch panels, and often used with LCDs at the same time. PET-based general products cause the problem of Moire patterns when looking through polarized sunglasses. Our isotropic film-based hard coat films have solved such optical problems.

KEIWA Incorporated

<http://www.keiwa.co.jp/> [English](#)  
1-2-5, Kamishinjo, Higashiyodogawa-ku, Osaka City, Osaka

ISO 9001  
ISO 14001



## "adpack" volatile corrosion inhibitor paper (Anti-corrosion paper)



### Key features of the product

1. Changes rust prevention processing from anti-corrosion oil.
2. Easily protects products from rust at a low cost.
3. Rust prevention power that is stronger than rust prevention film

When metal products are wrapped or sealed in container boxes and plastic bags with "adpack," they are protected against rust. The paper enables metal products to be used as they are without cleaning after they are unpacked. After use, "adpack" can be disposed of just as paper.

### Solutions for our clients

We have "40 years of experience dealing with anti-corrosion paper." Our product "adpack" has established trust and results with more than 2,500 customers including major steel manufacturers, automobile makers and machine tool companies.

In hot and humid Asian regions such as Japan, the volatile anti-corrosion paper can easily prevent rust that can cause big troubles, and thus greatly helps customers.

At present, we have sales agents in China (Shanghai), Taiwan, South Korea, Singapore, Thailand, Malaysia and India.

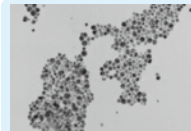
ADCOAT CO., LTD.

<http://www.adpack.jp> [English](#)  
1-25-14, Hishie, Higashiosaka City, Osaka

ISO 9001



## Manufacturing nano-size metal particles



### Key features of the product

1. Commercialize metal particles 10 nm in diameter.
2. Can synthesize large quantities via liquid phase synthesis.
3. Nano-particles make low-temperature firing possible.

We have succeeded in producing these nano-particles based on a proprietary liquid phase particle manufacturing process, which was developed jointly with the Osaka Municipal Technical Research Institute. Metals, from which we can produce nano-particles, include silver, gold, and copper. Nano-size metal particles are expected to pave the way for high density electrodes, joining via alternative solder metals, and water-free processes using the particles as alternatives for plating.

### Solutions for our clients

We have manufactured and marketed metallic paste for firing electrodes and plating solution. There is increasing demand for micro wiring for electrodes, and the paste using these nano-size metal particles are suitable for such wiring. With the widespread use of hybrid vehicles and electric vehicles, nano-size metal particles are attracting attention in applications for joining high current electrodes. Studies into nano-particle paste has been under way for some time. Moreover, because coating films made with these nano-particles have a texture that is close to plating, it is possible to make the plating process water-free.

DAIKEN CHEMICAL CO., LTD.

<http://www.daiken-chem.co.jp/> [English](#) / [中文](#)  
2-7-19, Hanatennishi, Jyoto-ku, Osaka City, Osaka

ISO 9001  
ISO 14001



## "Hirose hooks" (hooks of sewing machine)



### Key features of the product

1. Top quality
2. Quick delivery
3. Reasonable price

The "hook" of sewing machine is the part that stores the bobbin around which bobbin thread is wound. The hook catches the needle thread supplied from the needle, and, when going around to make a loop of the needle thread, passes the bobbin thread stored in the hook through the loop to create a stitch. Namely, the hook is the most important part of a sewing machine.

### Solutions for our clients

We have provided more than 1,000 kinds of Hirose hooks suitable for all kinds of sewing machines used for sewing thin to heavy cloth, including no-oil-supply hooks (that eliminate oil spots on yarn and cloth) and tip-strengthened hooks (that reduce the damage to the hook tip by the needle). Moreover, we have conducted a study of "diamond-like carbon" via academic-industrial cooperation, and have succeeded in producing "durable hooks" that increase durability. Not only our accumulated technology but also our advanced processing technology, surface polishing technology and advanced dimensional accuracy are highly rated around the world.

HIROSE MFG. CO., LTD.

<http://www.hirosemfg.co.jp/> [中文](#)  
4-5-12, Tsukuda, Nishiyodogawa-ku, Osaka City, Osaka

ISO 9001

Good planning capability One-of-a-kind technology Made in Japan Trial production possible Mass-production possible

CONTACT: Osaka Core Manufacturing Technology Network (Detailed information: P13) E-mail : monob2b@mydome.jp



## Woolen products using high quality materials including cashmere, angora, and wool

J



### Key features of the product

1. Originally-planned products that make use of the features of materials
2. Production by equipment and processes most suitable for texture
3. Quality control based on integrated production starting from materials

Cashmere products made by raising machines equipped with teasel that has soft intricate thorns. These have top quality with good texture and surface touch, which cannot be produced by raising machines equipped with artificial metal needles. These cashmere products are extensively used for coats and jackets.

### Solutions for our clients

By adding ingenuity to time-honored techniques and skills, we produce woolen products using cashmere and other high quality materials. We have an integrated production system comprised of spinning, weaving, dyeing and finishing, and have acquired ISO9001 and ISO14001 certifications. Moreover, as a company that has been accredited as producing the world's top brand products, we have obtained admission to the Cashmere and Camel Hair Manufacturers Institute (CCMI). With the aim to improve the quality and productivity of woolen yarn that are the basis of products, we have established a spinning plant equipped with advanced production facilities and control system. We can constantly and stably provide top quality products to customers.

FUKAKI WOOLLEN TEXTILE CO., LTD. <http://www.fukaki.co.jp> Japanese only  
3-7-1, Itahara-cho, Izumiotsu City, Osaka

ISO 9001  
ISO 14001



## "Domestic knit" (Planning, manufacturing and sales)

G J  
T M

### Key features of the product

1. Thorough quality control based on ISO9001
2. Visualization based on one-floor line control
3. Reduction of indirect costs by higher working efficiency

With an integrated production system based on one-floor self-manufacture, we pursue further quality improvements and control of each process in conformity with ISO9001. Moreover, visualization based on line control improves working efficiency and reduces indirect costs. Thus, we can provide high quality products at low costs.

### Solutions for our clients

We have our own designers and patterners, and not only make OEM products but plan, manufacture and market some 800 models of original products yearly. Moreover, with the receipt of proposals and orders for OEM products as an axis, we promote in-house self-manufacture on a single floor and thoroughly control quality in each process. Thus, we can reduce product losses and indirect costs in each process, and can provide high quality "domestic knit" at low costs to customers.

ISOPE CO., LTD. <http://www.isotopegroup.com> Japanese only  
1-5-19, Ikeura-cho, Izumiotsu City, Osaka

ISO 9001



## Special printing mechanical equipment and its technology

O



### Key features of the product

1. Good inexpensive products that are immediately available
2. Can print on all kinds of materials except water and air.
3. Offer one-stop services for various surface decoration.

Since the founding of the company, we have strived to print on all kinds of materials except water and air for 45 years. Our mechanical equipment was first used for insoles of shoes, and since then, we have provided mechanical equipment that prints (decorates) characters and designs on all kinds of products including consumer electronics, automobiles, cosmetic containers and miscellaneous daily goods.

### Solutions for our clients

Because we can handle various kinds of special printing methods all on our own, we can propose the best methods and lineups of equipment and peripherals to meet customer demands. Regarding peripherals, we can supply printing pretreatment equipment, inks and films required for printing, as well as quality inspection equipment for post-printing controls. As a so-called "one-stop shop for first-surface decoration", we have established a system to meet customer demand.

NAVITAS CO., LTD. <http://www.navitas.co.jp> Japanese only  
9-1, Ishizukitamachi, Sakai-ku, Sakai City, Osaka

ISO 9001  
ISO 14001



## Paper tubes and paper tube manufacturing equipment

G J  
T M

### Key features of the product

1. Top quality and technology cultivated over 100 years of experience
2. Various paper tubes available
3. Earth-friendly products

We produce various kinds of paper tubes for films and fibers, as well as small caliber paper tubes. Moreover, we provide paper reels made of recycled paper and water-soluble paper tubes in order to deal with environmental problems, as well as composite core paper tubes that combine paper tubes of different inside diameters for special purposes.

### Solutions for our clients

We have developed paper tubes for textile markets since the foundation of the company in 1911. Over the years, we have also developed original paper tube finishing equipment. Based on the technologies and know-how that we cultivated over 100 years of experience, we have exported our technologies to South Korea, India and other countries overseas. We can provide paper tubes that satisfy various specifications according to customer needs. Moreover, making use of our finishing equipment, we can enter into tie-ups with textile makers and paper tube makers that produce paper tubes for synthetic fiber.

TANAKA PAPER TUBE CO., LTD. <http://www.tanakapt.co.jp> English  
6-88, Oihara, Yao City, Osaka

ISO 14001

Good planning capability One-of-a-kind technology Made in Japan Trial production possible Mass-production possible



## One-stop solution for web and print media



### Key features of the product

1. Anyone can easily publish books.
2. No storage of books is required. Casebound books can be made, starting from lots of just one book.
3. One stop from bookmaking to sales of electronic books

We provide one-stop solutions based on the merger of cutting-edge IT technology and automatic formatting and printing technology. We handle the book publication flow of "manufacture -> publication -> exhibition -> sales -> delivery" entirely online. Anyone can easily enjoy publishing and selling books themselves. Customers can even develop a personal publishing business.

### Solutions for our clients

Even though people want to publish books, making numerous books is expensive, and it is difficult to make books in lots of just one book. Our one-stop solution service has solved such problems. Anyone can easily publish books and electronic books, and we can make customer dreams of "wanting to make books" a reality.

Structure of the one-stop solution /

■ Bookmaking site: SymBook [Easy publication] (<http://www.symbook.jp/>)

■ Sales site: SymStore [Easy net bookstore] (<http://www.symbook.jp/>)

**FIT CO., LTD.** <http://www.fit2001.com/> Japanese only  
PopTown Main Bldg., 1-2-10, Akai, Daito City, Osaka



## One-tuft brushes



### Key features of the product

1. Made with super slim tapered bristles.
2. Enable plaque control in difficult-to-reach locations.
3. Facilitate brushing of back teeth.

Our original one-tuft toothbrushes were created through joint development with dentists. The proprietary conically-shaped brushes enable users to securely apply the tip of bristles to locations where they want to remove trapped foods and thus they can easily remove plaque.

### Solutions for our clients

The one-tuft brushes enable users to easily brush back teeth and other locations where complete brushing and plaque control are difficult. With the use of super slim tapered bristles, the conically-shaped brushes, which are cut like ink brushes, deliver a softer brushing touch. Moreover, before commercialization, we developed an implanting machine that applies heat welding to nylon bristles and a cutting machine that rounds the tips of the bristles, and, thus, have realized prices of the same level as normal toothbrushes.

**LAPIS CO., LTD.** <http://lapis21.com/> Japanese only  
2-33-13, Obata-cho, Yao City, Osaka

ISO 9001



## R40 series - Deodorant care pillows



### Key features of the product

1. Low-elasticity of 9.6 newton
2. 96% removal by adsorption of body odor components
3. Containing activated charcoal of superior hygroscopic property

This pillow uses low-elasticity foam of 9.6 newton, which is up to 5 times bigger than commercialized low-elasticity foam pillows. Moreover, because the activated charcoal contained in low-elasticity foam exhibits both a superior deodorization power that enables 96% removal by adsorption of body odor components and a moisture absorption power that absorbs perspiration while sleeping, users can enjoy a comfortable feeling in bed.

### Solutions for our clients

Low-elasticity foam material that contains activated charcoal and has a low-elasticity of 9.6 newton is used for the pillow. The low-elasticity foam material, which brings elasticity close to zero, supports dispersed body pressures with a flexibility that even follows the form of individual hair and, thus, can provide incomparable usability to users. Moreover, because the activated charcoal contained in foam exhibits both a superior deodorization power that enables 96% removal by adsorption of nonenal (body odor component), 99% isovaleric acid, 98% acetic acid and 86% ammonia, and a moisture absorption power that quickly absorbs perspiration while sleeping, users can enjoy a comfortable feeling in bed.

**TAKASHIMA Inc.** <http://www.takasima.co.jp> Japanese only  
Takatsuki FJY Bldg., 5F, 1-5-25 Jyohoku-cho, Takatsuki City, Osaka



## From industrial protectors to athletic sunglasses



### Key features of the product

1. From polarized sunglasses to laser protective eyewear
2. Various surface treatment technologies such as anti-fog.
3. Ergonomic design

We have experiences in light control for 100 years and our products are extensively used in a variety of fields, from industrial protective equipment including laser protective eyewear to sunglasses for sports. Making full use of our proprietary surface treatment technologies, we provide high value-added products such as hard coated lens and hydrophobic lens.

### Solutions for our clients

We manufacture and market industrial protectors and sporting goods. For 100 years since the founding of the company, we have dealt with the issue of "eye protection." We have a large market share for industrial protectors used at manufacturing sites, as well as sporting goods such as swimming goggles and sunglasses. We manufacture products through an integrated in-house production system that spans from design to manufacture and sales. In particular, our laser protective eyewear, injection molded polarized lens and surface treatment technology such as hard coating are something beyond comparison.

**YAMAMOTO KOGAKU CO., LTD.** <http://www.yamamoto-kogaku.co.jp/> English  
3-25-8, Chodo, Higashiosaka City, Osaka

ISO 9001

Good planning capability One-of-a-kind technology Made in Japan Trial production possible Mass-production possible

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