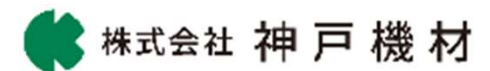




Kobe Kizai Co., Ltd.

We make SHIELD for your tomorrow.



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About Kobe Kizai



Kobe Kizai is the company which provides various types of protection for industrial robots and machinery.

We have been manufacturing our made-to-order products for our customers at our own factory and have continually extended our product line-up for over 50 years since we began with the thermal insulation coating for the marine diesel engines.

Our hope is to support our customers with the better use of resources for their business by protecting the factory environment as a SHIELD of factory staff and manufacturing lines.



Thermal Insulation Group



Our thermal insulation products protect people and environments from heat injuries and noises. Our products are made-to-order and are suitable for various factory environments and wide range of machinery types. Our custom designed products are developed following through listening to our customers and detailed consultation.

We choose the best materials which are suitable for the machine temperature range(from low temperatures up to the ultra high temperature range) for each customer and manufacture the products for the maximum thermal insulation effect.

Thanks to our accumulated know-how by constant research and development for long term, we have been chosen by customers for years.



Thermal Insulation Products



We offer the best solution of thermal insulation by the following 4 types.

· **TEMP SHIELD**[®]

A detachable type of thermal insulation. In the case of frequent maintenance and regular detachment and re-attachment being required, TEMP SHIELD[®] is ideally suitable. Because it is custom made to fit the specific machinery size and shape, TEMP SHIELD[®] achieves the best thermal insulation effects which can not be realized by other general purpose products.



· **Soft Lagging**

A preformed type of thermal insulation products which are made using our original sewing technology. Because we ship it in a form that is easy to install, it contributes to reducing the installation time on-site and significantly shortens the whole processes.



Thermal Insulation Products



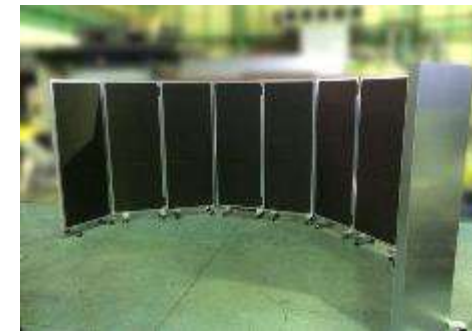
·**Hard Lagging**

A hard material type of thermal insulation product which is made of materials such as metals. It is excellent in weather-ability and mechanical strength and it can be made at a relatively low price. It is suitable for the outdoor locations and machinery where no-maintenance is required.



·**Hybrid Lagging**

A hybrid of soft and hard material thermal insulation which can demonstrate the new effect. For each customer's purpose, we suggest the best combination of the hard material type and the soft material type considering adiabatic effects, soundproof effects, operability, durability, ease of maintenance and aesthetic.



Please feel free to request us the Heat Retention Calculation, Thermal Analysis and Depreciation Simulation when using our products.

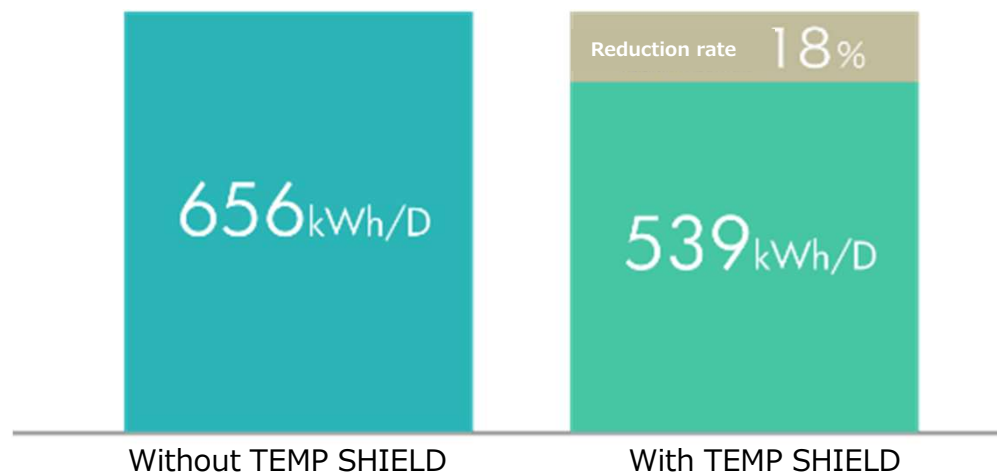


TEMP SHIELD[®] Energy saving effect



TEMP SHIELD[®] is a detachable thermal insulation cover which has been developed to our original design and utilizes custom sewing technology using knowledge and experience accumulated over 50 years of providing heat insulation solutions for marine diesel engines.

TEMP SHIELD[®] is completely made-to-order[®] product which makes it compatible for adhesion and ease of use with a high energy saving effect. By measuring the target properly and directly and by choosing the best materials suited to its form and usage, very good energy saving results can be realized.

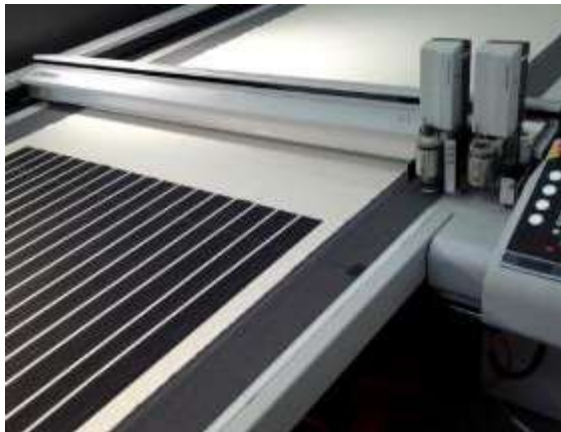


SMART SHIELD SYSTEM[®]



Recently, “Smart Factory” productivity has been dramatically increased with enhanced network and security and they have been spreading widely and therefore the protection of the manufacturing lines from physical damage is increasingly required.

We support the construction of the shield according to the required purpose with our SMART SHIELD SYSTEM[®] line-up which protects the robots and manufacturing equipment from friction, fire, sparks, heat damage and many other physical risks.



SMART SHIELD SYSTEM

SMART SHIELD SYSTEM line-up :

• Cable shield

A cable cover which protects cables from friction, sparks, chemicals and dirt.

We provide various type of cable covers according to purpose. Such as a flame retardant external cover which protects cables of welding robots from sparks, a cable cover which protects built-in cables of cooperating robots from friction and movement.

• Robot shield

A shield for a robot which works at smart factory and food related factory can protect from the external threats such as heat, dust, water and oil.

Since a robot with robot shield can work for longer period, the renewal and maintenance cost can be reduced.

Each manufacturing group works together to tackle various customer issues while sharing knowledge, technology, ideas and experiences.

Please feel free to contact us for any of problems you are facing.



SMART SHIELD SYSTEM[®]



SMART SHIELD SYSTEM lineup :

- **Telescopic cover**

A hard material expandable cover for machine tools which protects them from cutting swarf. As it is a made-to-order product, please feel free to ask us about trial production, mass production or improvements.



- **Bellows**

A non-metallic cover for machine tools which protects from cutting swarf, water, oil, heat, vibration and many other risks.

We provide bellows with the round shape, flat shape, polypropylene folding type, high frequency welding type and many more with various kinds of materials available.



SMART SHIELD SYSTEM[®]



SMART SHIELD SYSTEM lineup :

• Heat-resistant shield

A shield which covers a robot body, robot arm and motor and protects them from the inner heat or external heat of robot.

A robot body may have a high temperature due to some welding operation (inner heat) or by its surrounding environment (external heat). In some cases, it might reach several hundred degrees in temperature.

We can make proposals to solve the thermal problems of industrial robots.



Contact



• **Head office**

3-6-10, Nishinagasu Cho
Amagasaki-city, Hyogo,
660-0805 Japan
TEL: +81-6-6401-4351 FAX: +81-6-6401-3131

• **Tokyo branch**

3-8-1, Toyo,
Koto-Ku, Tokyo,
135-0016 Japan
TEL: +81-3-3645-5162 FAX: +81-3-3645-5061

• **Other business base and factory**

- Nagoya office
- Amagasaki factory

URL: <https://www.kobekizai.co.jp/en>

