



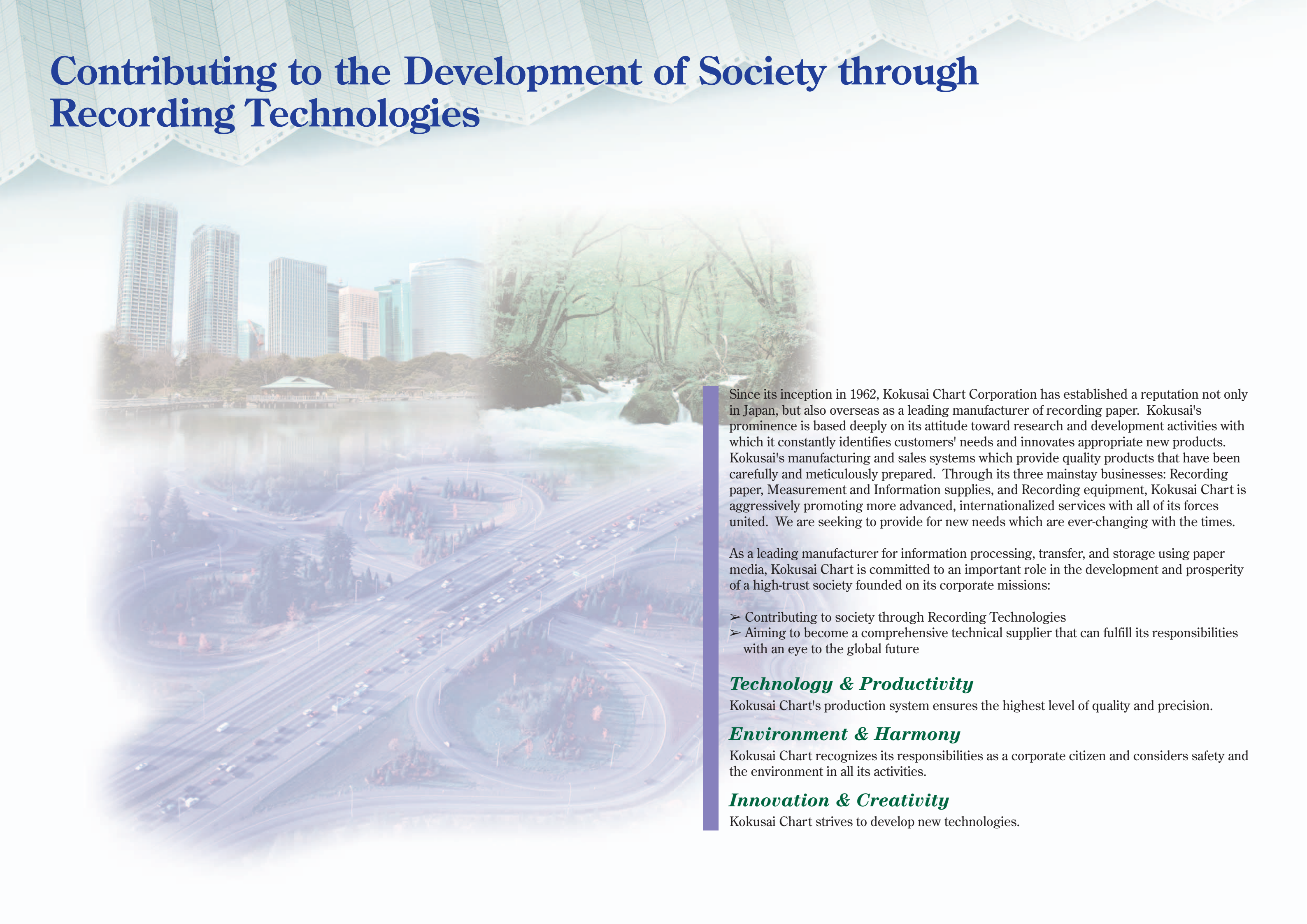
KOKUSAI
CHART



KOKUSAI CHART CORPORATE PROFILE

Kokusai Chart Corporation

Contributing to the Development of Society through Recording Technologies



Since its inception in 1962, Kokusai Chart Corporation has established a reputation not only in Japan, but also overseas as a leading manufacturer of recording paper. Kokusai's prominence is based deeply on its attitude toward research and development activities with which it constantly identifies customers' needs and innovates appropriate new products. Kokusai's manufacturing and sales systems which provide quality products that have been carefully and meticulously prepared. Through its three mainstay businesses: Recording paper, Measurement and Information supplies, and Recording equipment, Kokusai Chart is aggressively promoting more advanced, internationalized services with all of its forces united. We are seeking to provide for new needs which are ever-changing with the times.

As a leading manufacturer for information processing, transfer, and storage using paper media, Kokusai Chart is committed to an important role in the development and prosperity of a high-trust society founded on its corporate missions:

- Contributing to society through Recording Technologies
- Aiming to become a comprehensive technical supplier that can fulfill its responsibilities with an eye to the global future

Technology & Productivity

Kokusai Chart's production system ensures the highest level of quality and precision.

Environment & Harmony

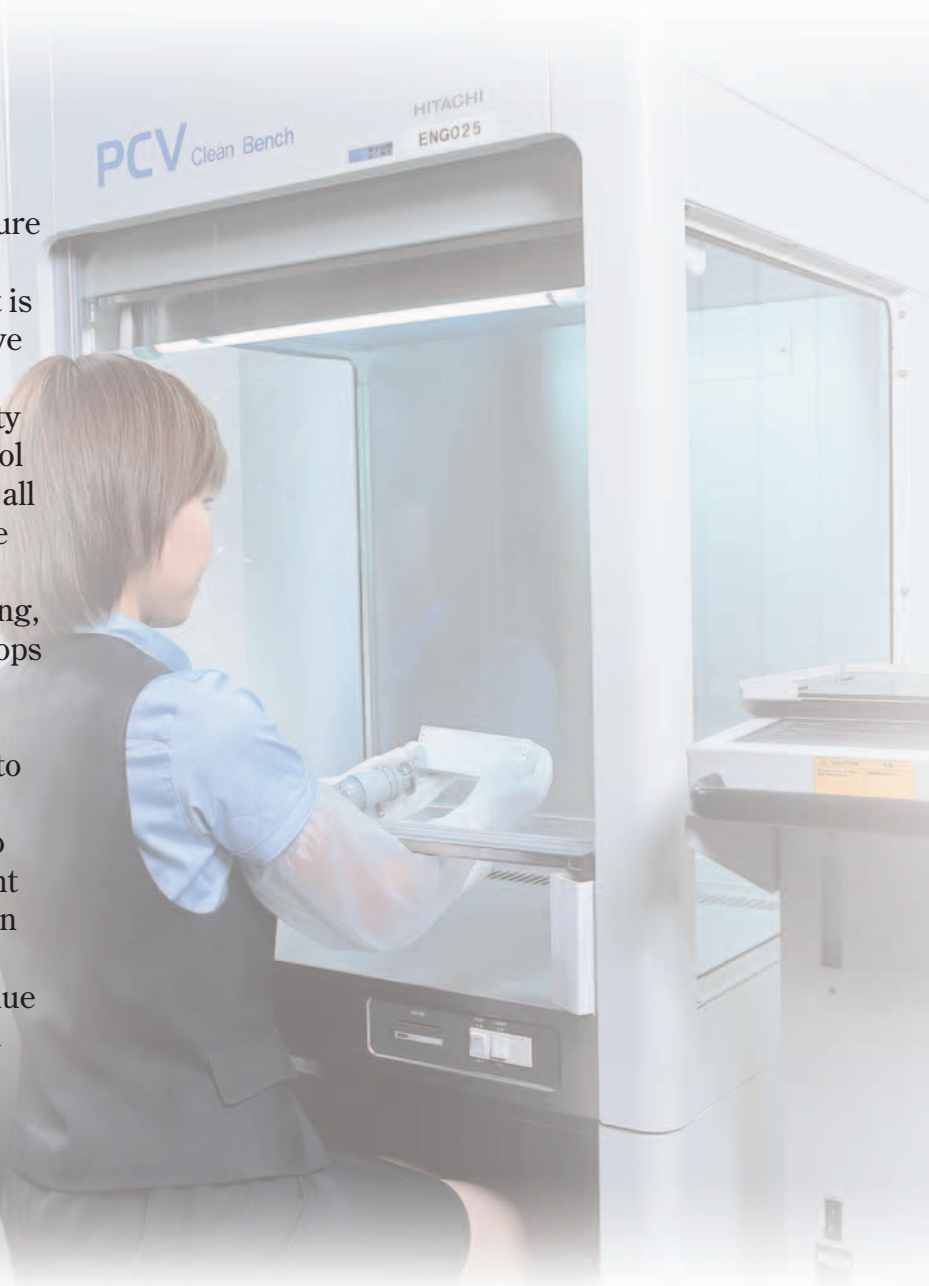
Kokusai Chart recognizes its responsibilities as a corporate citizen and considers safety and the environment in all its activities.

Innovation & Creativity

Kokusai Chart strives to develop new technologies.

Aiming to Become the Top Brand Name

Recording paper is indispensable for recorders and Hand-held Terminal Printers equipment. To record data clearly and accurately, as well as to ensure the recording quality required by the hardware on which the paper is used, it is necessary for recording paper to achieve a higher degree of printing accuracy. Kokusai Chart produces superior quality consumable under a strict quality control system at the Okegawa Factory, where all the processes are carried out under one roof, from receiving shipments of base papers, plate-making, printing, machining, and finishing. The company also develops and produces advanced papers to meet the demands of the present age. Moreover, it was successfully certified to ISO 9001, an international standard for quality systems, in January 1997, and to ISO 14001 for environment management systems in January 1999. Pursuing even better quality and mobilizing all of its technologies, Kokusai Chart will continue to propose new products equipped with functions that satisfy customers' needs.



Research and Development

The history of Kokusai Chart's Research and Development Process is combined with the development of special base papers in cooperation with other manufacturers that specialize in papermaking. In other words, the company's technology development has always been most characterized by the fact that its product development starts with the development of the paper itself from our paper manufacturers. In the development of meter reading forms, which are the key product for Hand-held Terminal Printers equipment, Kokusai Chart also works with ink and Hand-held Terminal Printers equipment manufacturers.

The research and development unit is comprised of the Technology Development Department in charge of advanced

papers, the Equipment Development Department which develops new recorders, and the Facility Development Department in charge of developing new facilities and the upgrading of existing facilities. With the development of advanced papers in particular, Kokusai Chart utilizes its distinctive laboratory facilities. This includes long-length printing test devices, dust analyzers, weather-resistance test devices, and intelligent constant temperature and humidity chambers.

New technologies that are being developed with these facilities are anticipated to be applied to information technology, such as mobile information devices that use forms that can be employed on vehicles at high temperatures and humidities, and intelligent transport systems as well.

Advanced Paper

The recording paper business has been expanding through the development and promotion of advanced paper technology.

Previously, Kokusai Chart developed recording paper which is not subject to expansion and contraction even under adverse conditions, the environment-friendly KC Eco chart paper which incorporates recycled paper, and

the KC Clean chart paper dedicated for clean rooms which does not generate dust, thereby steadily broadening the market.

In addition, we have developed and are promoting a new thermal recording paper for outdoor meter reading, which provides outstanding light resistance, runnability, and water resistance. Kokusai Chart has subsequently obtained a patent for this paper.

Quality Assurance

Kokusai Chart has been promoting quality control activities as part of its Quality Assurance Strategies. It was certified to the International Quality Standard ISO 9001 in January 1997. Kokusai's employees are fully aware that quality assurance is critical for our company's operations. Therefore, Kokusai Chart is constantly addressing the improvements of the company's quality system, thereby obtaining satisfaction from all our customers.



The Higashi Nihon Regional Sales Office and the Okegawa Factory at our corporate headquarters were awarded ISO 9001 certification for measurement recording paper, recorder pens for the (R and LR series recorders, hand-held terminal printer paper, and recorders.

Environmental Conservation

In January 1999, Kokusai Chart was certified to ISO 14001, an International Standard for Environment Management Systems. The company identified and evaluated the impact of business activities on the environment, and accordingly set up specific objectives and goals that are viable economically and technologically. This was done in order to reduce the environmental burden as well as to prevent pollution. These outcomes are periodically reviewed through normal environmental conservation activities through which the company is striving to increase its environmental performance and to continuously improve the environmental management system.

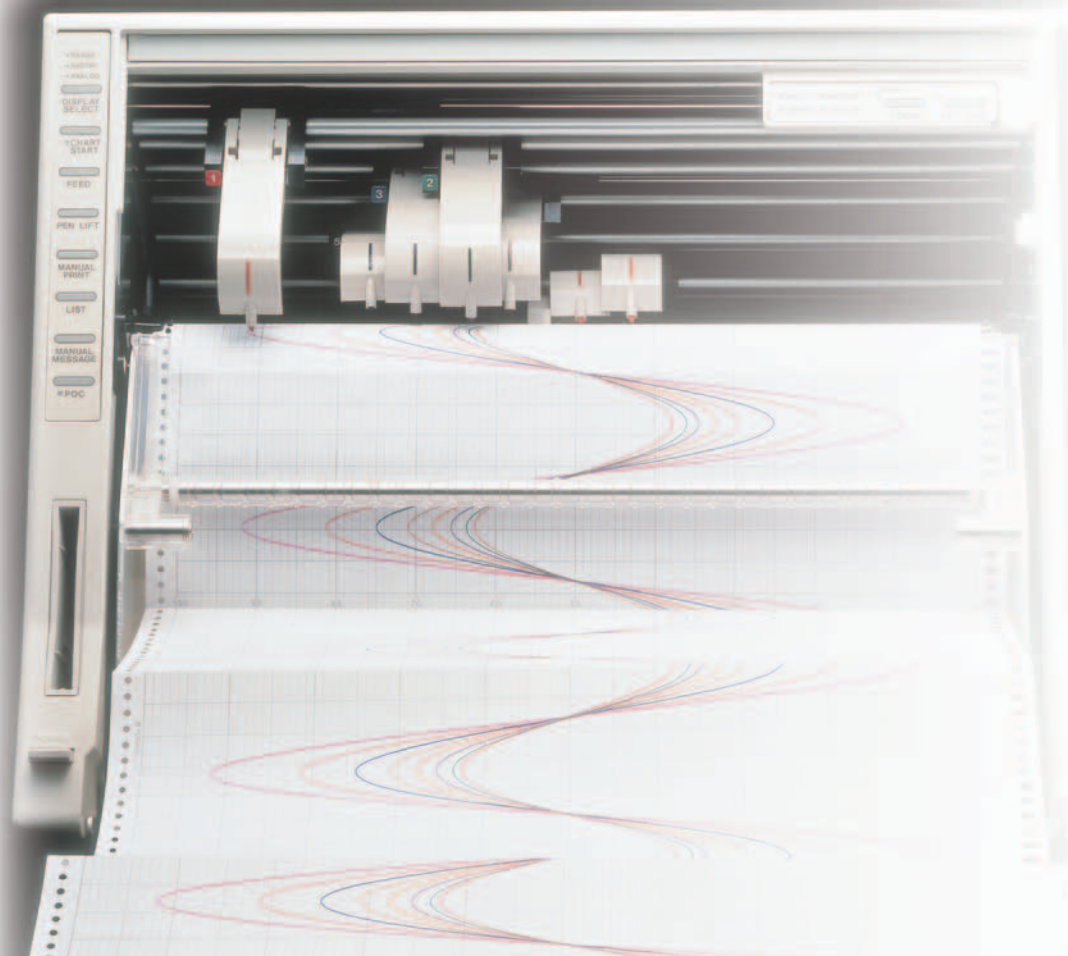


Okegawa Factory is awarded ISO 14001 certification.

Promoting Advanced Paper

■ Recording Paper for Industrial Use

Measurement recording paper is used to output and record data in a variety of applications—primarily large-scale plants such as Steel and Petrochemical Utility Power and Filtration, as well as clean rooms for semiconductors and pharmaceuticals. The recorded data is vital for quality control and monitoring logs of products. In recent years, demand has been growing for advanced measurement recording paper which not only outputs and records data it also reduces the environmental burden or minimizes the amount of dust. Kokusai Chart was quick to team up with paper manufacturers, and developed ecological-friendly chart paper which incorporates recycled paper, and clean chart paper with decreased dust generation, gaining a large share in the market. While many of the lately released recorders are equipped with network capabilities and data is written to magnetic media on-site rather than on paper, a new type of market for measurement recording paper has also been emerging. It is, alteration prevention, evidence recording, and real-time recording. Therefore Kokusai Chart will continue to promote the technological advanced papers, gathering momentum from its already advanced acknowledge of Eco and Clean chart papers.



Industrial Measurement Recording Paper

Measurement Recording Paper

The required printing accuracy is so high that it can directly influence the accuracy of recorders themselves. Measurement recording paper is utilized in diverse applications encompassing industrial meters, environmental measurement, measurement analysis, and meteorological observation. It can be categorized into over 100,000 types including customers' original specifications, and is for the most part manufactured on custom order basis.



Ecological-friendly Chart Paper

Kokusai Chart was the first to succeed in mixing recycled paper, an achievement which had been difficult for the accuracy-oriented measurement recording paper. This

ecological-friendly recording paper is popular among enterprises and administrative offices that purchase our green Eco Paper.



KC Eco Chart Paper

This is measurement recording paper that incorporates recycled paper and is used for such recorders that employ pen cartridge, dotting, and ribbon cassette types.

KC Eco Thermal Chart Paper

Recording paper that incorporates recycled paper and is colored by thermal heads and other heat generators.

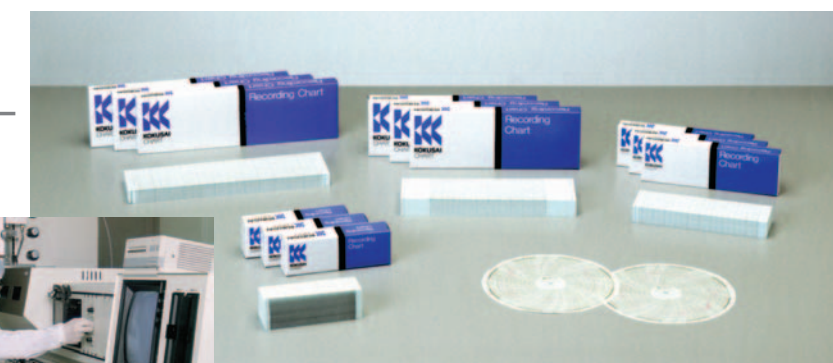
KC Eco Inkjet Chart Paper

Inkjet recording paper that incorporates recycled paper.

Clean Chart Paper

Engineered and Manufactured for use in the Semiconductor, Pharmaceutical, and Precision Machine industries. Measuring instruments for inspection and research have been increasingly employed in clean rooms. Clean Rooms demand paper that generates less dust and must use to maintain a high degree of cleanliness.

Kokusai Chart has developed KC Clean chart paper dedicated for clean room use, which simultaneously provides the requisite performance for measurement recording paper and a highly reduced volume of dust generation, in fact, a tenth that of the



previous Kokusai Chart's equivalent products. "KC Clean" has been registered as a trademark and the product is highly esteemed.

Developing and Promoting Advanced Paper to Expedite IT Growth

■ Recording Paper for Consumer Use

The primary product for use with Hand-held Terminal Printers equipment is meter reading forms, an output paper which is used for meter reading in the utility business. Electricity, gas and water measurement through hand-held terminals must support outdoor use in every kind of weather including rain and snow. Accordingly, Kokusai Chart has developed a thermal recording paper fitted for outdoor meter reading together with manufacturers of reading equipment and base paper. This product has greatly augmented the functions of meter reading forms and proven to be useful among a number of business customers who undertake meter reading. Also developed is a meter reading system itself with hardware manufacturers, along with a special paper on which postal transfer forms can be printed on the reading site. This next-generation meter reading paper has been endorsed by Japan Post under the Ministry of Public Management, Home Affairs, Posts and Telecommunications, and is being extensively promoted. Moreover, Kokusai Chart will aggressively work on the development and expansion of mobile recording paper for Hand-held Terminal Printers equipment targeted at the IT industry.



Consumer Recording Paper for Hand-held Terminal Printers Equipment

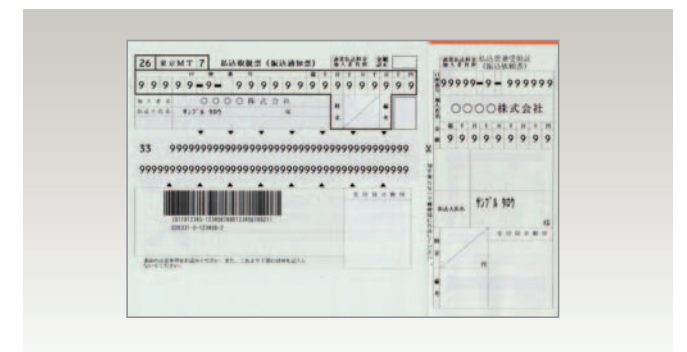
Meter Reading Forms

These forms are made from thermal recording paper that with its excellent water resistance, weather resistance, and runnability (Japanese patent no. 2935154) is tailored for outdoor utility meter reading used in hand-held terminals.



Inspection Ticket Together with Payment Voucher of a Meter Reading for Utility

These are used for a meter reading system that can print postal transfer forms for utility bills immediately after checking the meter. This enables total billing costs to be curtailed drastically (patent pending).



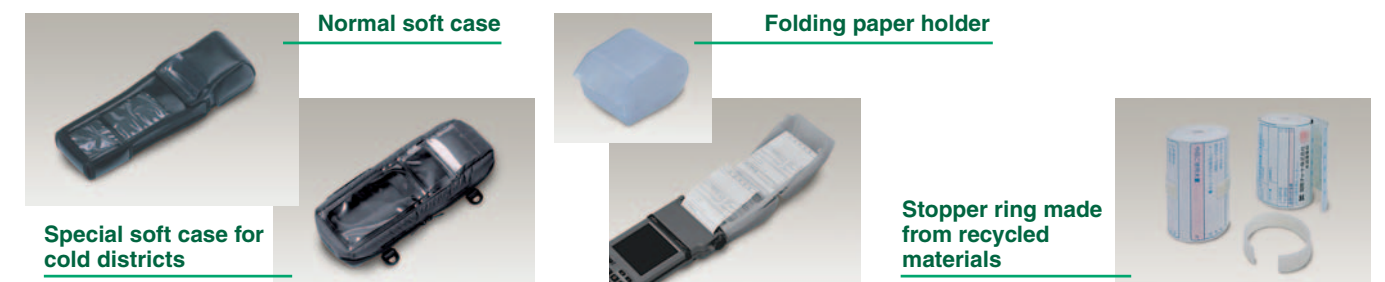
Mobile Recording Paper for Hand-held Terminal Printers Equipment

This product was inspired by the meter reading form business and is expected to become Kokusai Chart's next mainstay. As it is normally used outdoors, the product specifications basically require adequate water resistance, weather resistance, and prolonged storage capability, as well as additional functions depending on the application.

Kokusai Chart is proceeding with the development of this type of mobile recording paper with manufacturers of Personal Digital Assistance equipment and base paper, based on strong mutual trust. Thus paper functions have also been commended overseas and adopted as an output medium for traffic management systems.

Accessories for Hand-held Terminal Printers

Kokusai Chart designs and develops a variety of accessory products that lighten the workload of meter reading personnel and of hand-held terminals themselves.



Expanding Our Business Range by Utilizing Our Recording Expertise

■ Measurement and Information Supplies Business

Kokusai Chart provides measurement and information supplies for a variety of recording instrument manufacturers by utilizing the sales network it has built up in the recording paper business and a system geared toward handling orders for a variety of low-cost products from order acceptance through to delivery.



Service products and consumables for recording equipment

Pen cartridges, plotter pens, cartridge inks, ribbon cassettes, water-based ballpoint pens, and recorder inks.

Magnetic media-related products



■ Recording Equipment and Other Business

Kokusai Chart is actively strengthening the development of markets for new products including a circular chart recorder developed with its unique technologies. Other new spin-off products from the recording paper business which are designed to facilitate faster and more effective meter reading include a portable 4-inch printer and wireless meter reading system.

Recorders for Use in Horticulture and Agriculture

This recorder, which employs circular chart paper, is the only one of its kind in Japan. It is used widely for recording temperature and humidity in greenhouse-based horticulture and the like.





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