an accent on innovation
Kadant Inc. is a leading supplier of technology-based systems for the global pulp and paper industry as well as other process industries. Our equipment plays a critical role in nearly every stage of paper making and paper recycling, enhancing process efficiency and product quality for our customers.
About Kadant

For more than a century, Kadant Inc. has been delivering smart and efficient solutions to process industries. As a global leader in fiber processing, fluid handling, water management, and doctoring systems, we design and manufacture products used in industries ranging from paper to plastics and textiles to tires.

At Kadant, we are proud to offer innovative products and technologies that help reduce energy consumption, improve water management, and enhance efficiencies for long-term sustainability. Kadant brand products and services are sold to industries worldwide through our subsidiaries located in more than 16 countries. Our approach is simple: know our customers, understand their process, and use our specialized expertise to deliver the right solutions.

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A component for a rotary union used for fluid transfer in the rubber and plastics industries undergoes testing in a coordinate measurement machine to check that all dimensions meet the precise specifications required for Kadant’s products used on mixing and calendering applications.
Creating the future

While most suppliers are preparing for the future, Kadant is creating it. Kadant’s research and development activities are the force behind the patented technologies and innovative products that we bring to papermaking and to other process industries worldwide.

With major R&D facilities in Europe and the USA, Kadant is uniquely positioned to address process industry challenges and needs for improved fiber processing, heat transfer, doctoring, and fluid handling. In addition to internal product development activities, our research centers allow customers to simulate their own operating conditions and applications to identify and quantify opportunities for improvement.

In our tribology laboratory, the focus is on friction and wear of mechanical sealing components. This lab contains 15 testing machines and 40 test positions measuring variables such as pressure, temperature, torque, flow rates, and heat transfer characteristics of Kadant equipment.

For new blade materials qualification and development, we perform tension, compression, and flexural tests under varying degrees of temperature using ceramic, composite, steel, and soft nip calender rolls with different loads and blade angles.
Screening is a key step in the stock preparation process to remove contaminants while improving sheet cleanliness and formation. The SPH screening system is a high-efficiency centripetal design that leaves minimal deposits inside the screen and virtually no stringing on the accept side. In addition, the low pulsation levels and long basket life make the SPH series a highly preferred pressure screen in approach flow applications.
Fiber processing solutions

For more than 130 years, Kadant’s fiberline group has led the industry in innovative fiber processing solutions. We are proud of our heritage and ability to deliver cost-effective solutions for recycling, approach flow, and dewatering systems. Our comprehensive product mix of pulping, screening, cleaning, deinking, and washing systems for quality fiber processing is based on more than a century of expertise. And that means you can count on Kadant’s know-how and application expertise to deliver efficient solutions for your fiber processing needs.

Major product offerings

- Brown fiber recycling
- Pulpers and detrashers
- Deinking systems
- Pulp washing
- Causticizers
- Flotation cells
- Dewatering screw presses
- Clarifiers
- Refiners

- Screen cylinders
- Screens
- Evaporators
- Blow heat systems
- Condensate strippers
- Turpentine recovery
- Slakers
- Cleaners
- Approach flow systems
Effective doctoring results from using the right doctor blade, holder, blade angle, pressure, and alignment in a particular position. Because of the wide variety of blade materials available, the roll material and location of the roll in the process requires deep application expertise to ensure proper blade selection for optimal doctoring.
Doctor blades, holders, systems

Building on the innovative brands of Vickery, Lodding, and Web Systems, Kadant is recognized as a leader in the development and manufacture of doctor blades, blade holders, and doctor systems. We offer a wide range of patented metal and synthetic blades for application-specific installations, and a full line of profiling equipment for curl control and improved moisture profiles during coating, laminating, printing, and sheeting processes.

Our rapid response team, 24-hour service support, and experienced staff means you can count on Kadant personnel to help keep your machine running cost-effectively with advanced doctoring and profiling technologies.

Major product offerings

- Doctor blades
- Blade holders
- Doctor backs
- Doctoring systems
- Roll scrubbers
- Narrow web decurlers
- Profiling steam showers
- Automatic tail cutters
- Pneumatic oscillators
- Installation and alignment tools
- Water boxes
- Steam foils
Rotary joints and unions are used in a variety of process industries to provide a mechanical seal between a stationary supply pipe and a rotating drum or cylinder to permit the flow of heat transfer media into and/or out of the rotating roll. Heat transfer media typically used with rotary joints include steam, water, thermal oil, hydraulic oil, and coolant.
Rotary joints, unions, accessories

Kadant rotary joints, also referred to as rotating unions and precision unions, are mechanical seals that connect rotating cylinders to fixed piping to transport steam, water, thermal oil, coolant, hydraulic oil, and other media into and out of the roll.

In addition to rotary joints and related accessories such as flexible metal hose, syphons, and sight flow indicators, Kadant’s fluid handling division also designs and manufactures steam and condensate systems, advanced controls, and fluid handling systems that incorporate float-operated and float-free pumps, separator stations, steam jet thermocompressors, and direct injection heaters.

Major product offerings

- Rotary joints and unions
- High speed precision unions
- Multi-passage unions
- Syphon systems
- Thermocompressors
- Desuperheaters
- Steam systems
- Dryer management controls
- Vacuum breakers
- Steam and air separators
- Pressure powered pumps
- Sight flow indicators
- Heat exchangers
- Direct injection heaters
- Flexible metal hose
- Air management systems
VersaKleen™ traversing shower systems are designed for effective cleaning of forming, pressing, and dryer fabrics. The high-pressure, low-volume nozzles provide thorough and efficient cleaning using less water than full-width showers, minimize mist, reduce water load in press nips, and eliminate wet streaks on dryer fabrics.
Shower, filtration, and forming systems

Cleaning, conditioning, filtration, and forming products make up our water management product offerings. Kadant’s application expertise in spraying technologies and liquid filtration provides our customers with the products, services, and tools needed to address manufacturing challenges.

Kadant products are playing an increasingly important role in reducing the environmental impact of production processes. For example, our PETAX™ fine filtration system is used by water-intensive process industries around the globe to conserve water and reduce chemical treatment costs associated with freshwater and make-up water usage. In another example, Kadant’s patented Unigy™ high-efficiency pump has been effectively used in a variety of installations to reduce energy consumption, minimize heat loss, and extend conventional pump operating life by precisely and continuously matching hydraulic pump outputs to varying demands.

Major product offerings

- Spray nozzles
- Oscillating showers
- Stationary showers
- Traversing showers
- Mist eliminators
- Wear surfaces
- In-line filters and filter media
- Multiple barrel pressure filters
- Strainers
- Forming systems and blades
- Radial distributor systems
- Uhle boxes and covers
Kadant's MAC Cell flotation de-inking system uses air bubbles to float ink particles to the cell surface for removal from the recycled material. The latest generation of the MAC Cell de-inking system incorporates our patented bubble-washing process to lower power consumption and reduce fiber loss.
Global coverage

Many suppliers have made a commitment to the international marketplace, but few have taken that commitment as far as Kadant. Our global presence means you can count on Kadant’s application expertise and advanced technologies to help solve your manufacturing challenges no matter where you are. And to assure product and service availability wherever it’s needed, Kadant has established subsidiaries in Asia, Europe, North America, and South America for a quick response to your needs.

Kadant’s 16 manufacturing centers are strategically located across four continents. These operations support nearly 20 Kadant sales and service centers and two manufacturing licensees. In addition, more than 50 authorized representatives and distributors extend Kadant’s global coverage to every industrialized region around the globe.

All Kadant brand products and services are made available through our subsidiary companies. Visit www.kadant.com to find your local Kadant business or for additional company or product information.

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