KĀDANT

FIBER PROCESSING

Efficient Production of Micro Fibrillated Cellulose

Create, produce, and improve innovative sustainable products

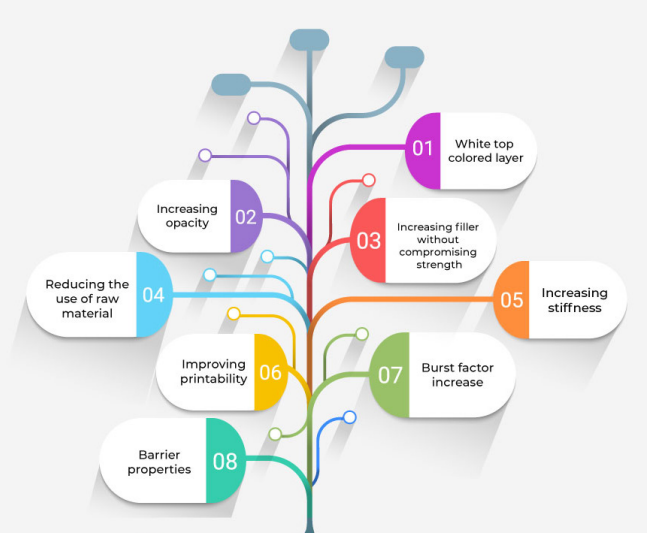
Efficient Production of Micro Fibrillated Cellulose

Finding tomorrow's value in today's waste

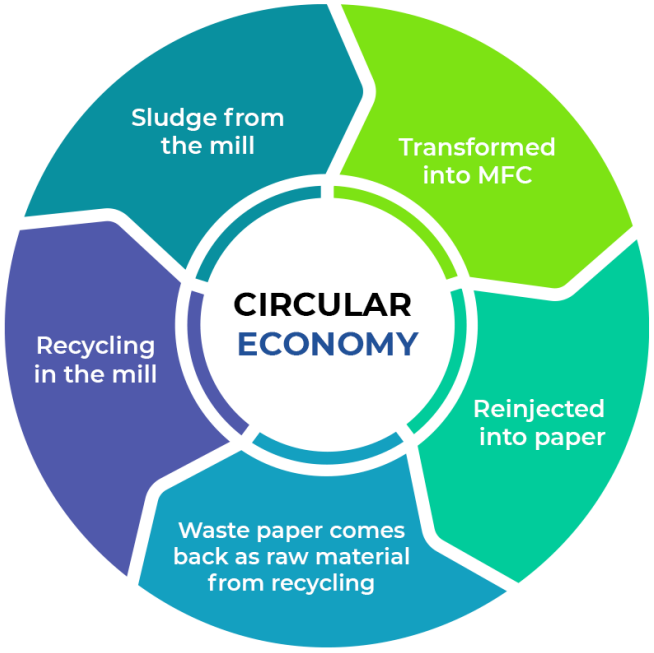
Pioneering the Technology of Sustainability

Microfibrillated Cellulose (MFC) consists of cellulose fibers taken from wood and other natural matter. It is a sustainable biomaterial made from a variety of renewable recources. MFC created from paper pulp sludge and other formerly-rejected fines are adding new value to applications all across the paper and board industry.

The growing need for more intelligent and precise utilisation of resources is critical to the development of sustainable and successful paper production. High degree fibrillation is a key component in the valorisation of sludges and formerly rejected fines. Properly refined sludge can be added to traditional paper pulp to enhance the properties of the final product, extending production, increasing strength, improving finish, and enhancing barrier properties.



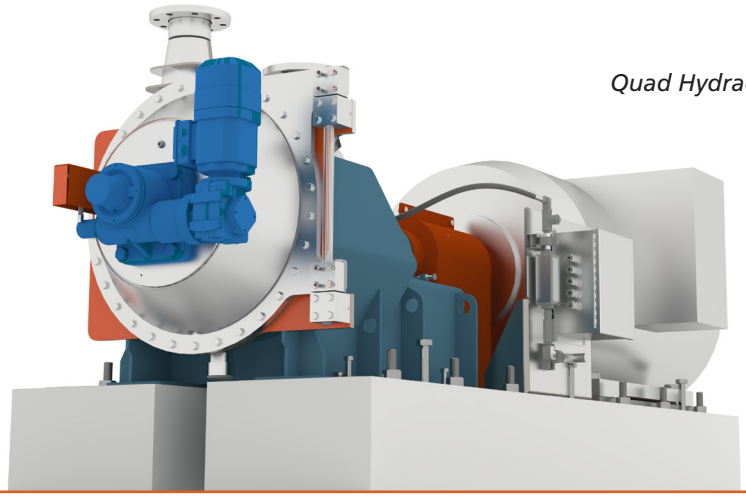
Enhanced qualities derived from the innovations of MFC can grow your business.



Formerly-rejected pulp sludge added to recycling can eliminate cost and support a more sustainable circular economy.

Driving the Application for Innovation

The benefits of MFC enhanced pulp are applicable across a wide marketplace - adhesives, painting, coatings, cosmetics, construction, and agriculture, to name a few. MFC can efficiently replace troublesome plastics and produce more sustainable, enviromentally friendly products and packaging. It can also be an economical alternative for the manufacture of food grade packaging, highly refined specialty papers and low-porosity sheets for filtration.



Quad Hydradisc III Refiner

The cost efficient platform for precise product development, efficient proof-of-concept, and real world, in-house production

The revolutionary Kadant Quad Hydradisc provides twice the refining capabilities of traditional dual systems. It delivers a new dimension of high degree fibrillation and control, presenting new product opportunities with enhanced properties and improved quality. The Quad Hydradisc is uniquely suited to the low-energy production of top quality MFC and our experienced team is ready to assist.

We have long held a leading role in refiner technology and are early innovators in MFC production. Our Research and Development teams have been working closely with global clients to deliver innovative solutions and real-world results - increasing quality, improving production, and saving energy.

Benefits

Innovation

- Efficient proof-of-concepts
- Optimized product development
- Across a wide variety of furnish
  - White or brown grade
  - Short or long fiber
  - Recycled or virgin pulp

Cost Savings

- Cost-effective product development with an experienced team
- Low production cost
- Low specific energy consumption to produce MFC or any refined pulp

The Quad Hydradisc refiner at the Kadant Technology Center in Vitry-le-François

See the Process for Yourself

Kadant maintains an industrial Quad Hydradisc refiner at its technology center in Vitry-le-François, France to produce refined pulp of various qualities for your evaluation, as well as a full system to produce MFC with a capacity of one BDT/day.

To facilitate the better understanding of MFC and the true value of the Kadant offering, we invite you to tour our Technology Center and meet with our team.

Explore the Opportunities

Contact our experts and let us prepare test samples based upon your requirements. We can help you explore the growing potential of MFC and other sustainable alternatives.

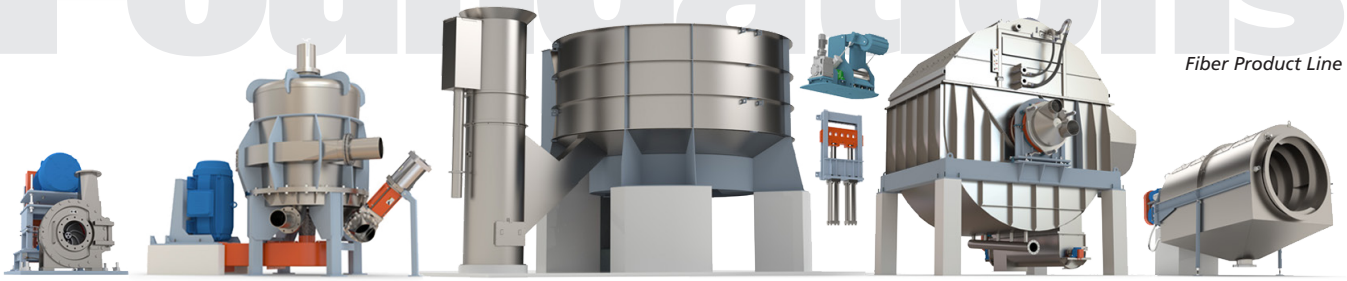
Visit fiberprocessing.kadant.com/MFC

Certified Parts and Service 24 Hour Hotline for North America: 1-800-448-5422

The Kadant Foundations product line offers a full range of fiber processing equipment and services.

Foundations

Fiber Product Line



Hydraflow™ Trash Pump

Continuous Lights Detrasher

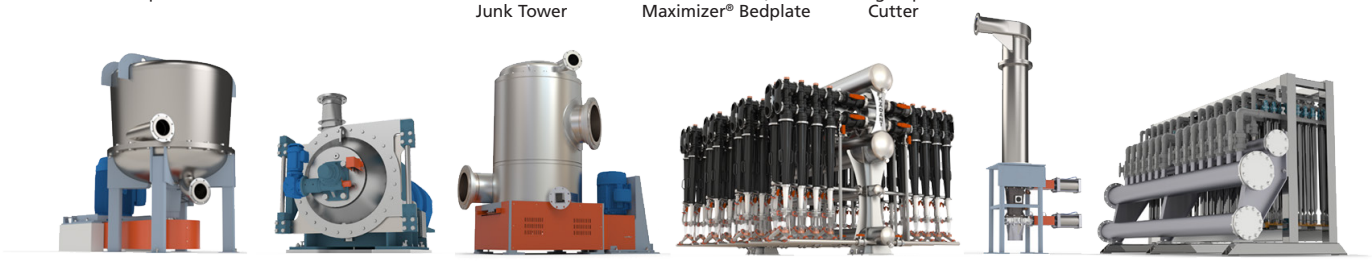
Automated Grapple Hoist and Trashwell Junk Tower

Hydrapulper® DR Pulper, Vortech® Rotor, and Maximizer® Bedplate

Ragger and Rag Rope Cutter

Direct Discharge™ Disk Filter

Cantilevered Drum Screen



Float Purger™ Stock Cleaning System

Twin Hydradisc III® Double Disc Refiner

Ultra-V™ Vertical Pressure Screen

XCEL™ NT Forward Cleaner

Liquid Cyclone™ Cleaner

Xtreme™ Reverse Cleaner

For patent information about this and other Kadant products visit https://kadant.com/en/patents

KADANT

fiberprocessing.kadant.com Kadant is a global supplier of high-value, critical components and engineered systems used in process industries worldwide.

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Producing MFC

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