Industry & Environment



M.I.P
TANKS & SILOS

Index

Index

About us	5
Mission and vision	6 - 7
Safe and sustainable storage	8 - 11
Petrochemicals	12 - 13
Chemicals	14 - 15
Feed	16 - 17
Food - Food industry	18 - 19
Food - Breweries	20 - 21
Environment	22 - 23
Plastics	24 - 25
Benefits of composite	26 - 27
Thermal value	28 - 29
Safety, quality & certification	30 - 31
Design and engineering	32 - 33
Delivery & installation	34 - 35
Maintenance & inspection	36 - 37
Summary	38 - 39

Reliable storage solutions for essential industries

M.I.P. supplies high-quality composite storage tanks and silos for various sectors, including petrochemicals, chemicals, feed, food, environmental and plastics industries.

Rijkevorsel (BE)



Moerdijk (NL)



With locations in Moerdijk, The Netherlands and Rijkevorsel, Belgium, M.I.P. has the largest production capacity in Europe.



About us

This brochure introduces you to the international family-owned company M.I.P. Discover how we produce sustainable composite storage systems in our state-of-the-art facilities, and how composite materials enable the safe, efficient, and long-term storage of your valuable products.

After reading, we are happy to answer your questions. Want a behind-the-scenes look? Scan the QR code below to watch our one-minute company video.

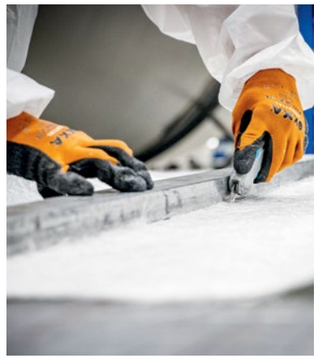
M.I.P. is your partner in composite storage systems.

Team M.I.P.
Maikel Elst – CEO

M.I.P. is the specialist in safe, sustainable, and efficient bulk storage solutions for liquids and solids.

+ Established in 1984
+ Largest production capacity in Europe
+ International presence
+ Patented, continuously adjustable molds
+ Volumes up to 4,000 m³
+ Strategic location by the water
+ Sustainable production







M.I.P. is an independent, internationally oriented family business. Initially focused on the agricultural sector, M.I.P. is now a European market leader in this field. Since the early 2000s, we have expanded into a range of sectors including industry, winter services, petrochemicals, chemicals, feed, food, and environmental markets.

As a financially solid and independent family company, we help our clients make the right decisions for the storage of their products. M.I.P. continuously invests in product design, development, and innovation — keeping pace with the latest technologies and market developments.

Thanks to our committed team of experts, we provide excellent service and build long-term trust. Over the past years, this team has helped turn M.I.P. into one of the most modern silo and tank manufacturers in Europe.

Safe and sustainable storage for every industry

In the various industrial sectors where M.I.P. operates, safe storage of liquids is critical. During the engineering and production of our storage systems, safety, health, and the environment are always the top priorities.

Composite, a combination of polyester resin and glass fiber reinforcement, is a unique material particularly suitable for storing aggressive liquids. Unlike steel tanks, which are prone to corrosion and chemical degradation, composite offers a fully corrosion-resistant solution.

Additionally, composite is not susceptible to condensation, which adds to its protection and longevity. While stainless steel is known for its corrosion resistance, it is increasingly affected by microbiologically induced corrosion (MIC), chlorides, and stress corrosion cracking. Composite tanks are therefore an excellent alternative. They are reliable, low-maintenance, and energy-efficient thanks to their high insulation value. They also feature smooth, seamless surfaces for easy cleaning.

Advantages of composite



Composite storage tanks offer exceptional chemical resistance and are ideal for the safe storage of a wide range of liquids and solids, including:

- Gasoline, diesel, and other (renewable) fuels
- Acids such as hydrochloric, sulfuric, nitric, and acetic acid
- Glycols, lubricants, greases, and oils
- Salts, chlorides, sulfates, and phosphates
- Foodstuffs such as fruit juices and beer
- Granulates like PE, PP, and other synthetic products

Thanks to our in-depth knowledge of materials, we always recommend the best combination of resin and fiberglass for your specific application. This ensures a durable and reliable storage system with maximum chemical resistance.
In industries such as chemicals, petrochemicals, and plastics, operational reliability and low maintenance are essential. Our composite tanks provide a practical solution that meets the highest demands of these industries.

We always guarantee the best and most sustainable storage system with chemical resistance.In the chemical, plastics, and petrochemical industries, **OPEX** and **CAPEX** are key.

Given the rapidly changing trends and developments in the market, being able to respond effectively is crucial. Using composite materials for storage tanks is one such development that has proven itself in recent years and continues to gain ground.

Benefits over traditional materials in the (petro)chemical industry

+ **Lower carbon footprint**
  Environmentally friendly and sustainable.

+ **Virtually maintenance-free**
  Leading to lower operational costs.

+ **Weight reduction**
  20 to 40% lighter, making installation and transport easier.

+ **Improved insulation value**
  Up to 35% better with equal thickness, resulting in significant energy savings.

+ **No risk of MIC damage**
  Unlike (stainless) steel tanks, composite tanks are immune to microbiologically induced corrosion.

+ **Easy repairs**
  Can be repaired without welding or spark-producing tools – no hot work permit required.

Petrochemicals

Innovation in storage tanks

In the petrochemical sector, OPEX (operational expenditure) and CAPEX (capital expenditure) are crucial. It is essential to adapt flexibly to constantly changing trends and developments in this dynamic market.

One of the most notable innovations in recent years is the growing use of composite materials for storage tanks, a trend that is gaining rapid traction.

Traditional materials like carbon steel and stainless steel are prone to corrosion and degradation when exposed to aggressive liquids, often resulting in high maintenance costs. While stainless steel offers better corrosion resistance, it is increasingly affected by microbiologically induced corrosion (MIC), chlorides, and stress corrosion cracking. Composite tanks, on the other hand, offer a reliable, durable, and cost-effective solution for petrochemical applications.



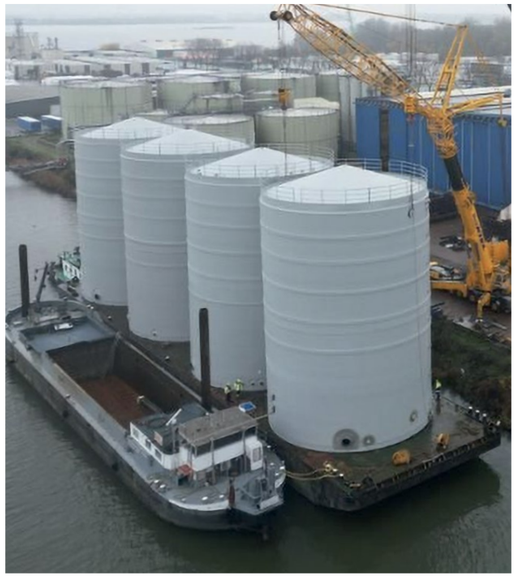
Scan the QR code for an overview of references on our website













Chemicals

Safe and sustainable storage solutions for the chemical industry

In the chemical industry, safety and reliability are of vital importance. At M.I.P. Tanks & Silo's, we provide high-quality composite storage tanks that can withstand corrosive substances and extreme conditions.

Composite is the most suitable material for the chemical storage of hazardous and harmful substances. Our tanks are low-maintenance, long-lasting, and meet the strictest environmental regulations. With years of experience and innovative production techniques, we offer custom-made solutions for storing chemicals, acids, and other dangerous materials. Our storage systems guarantee maximum safety, minimal maintenance costs, and a long service life.

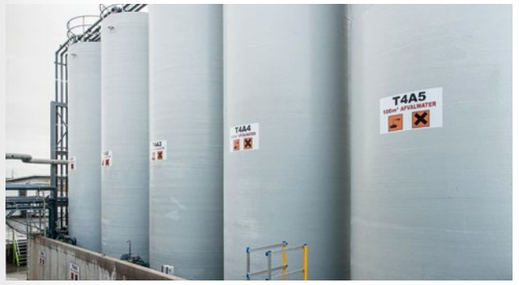
Scan the QR code for an overview of references on our website







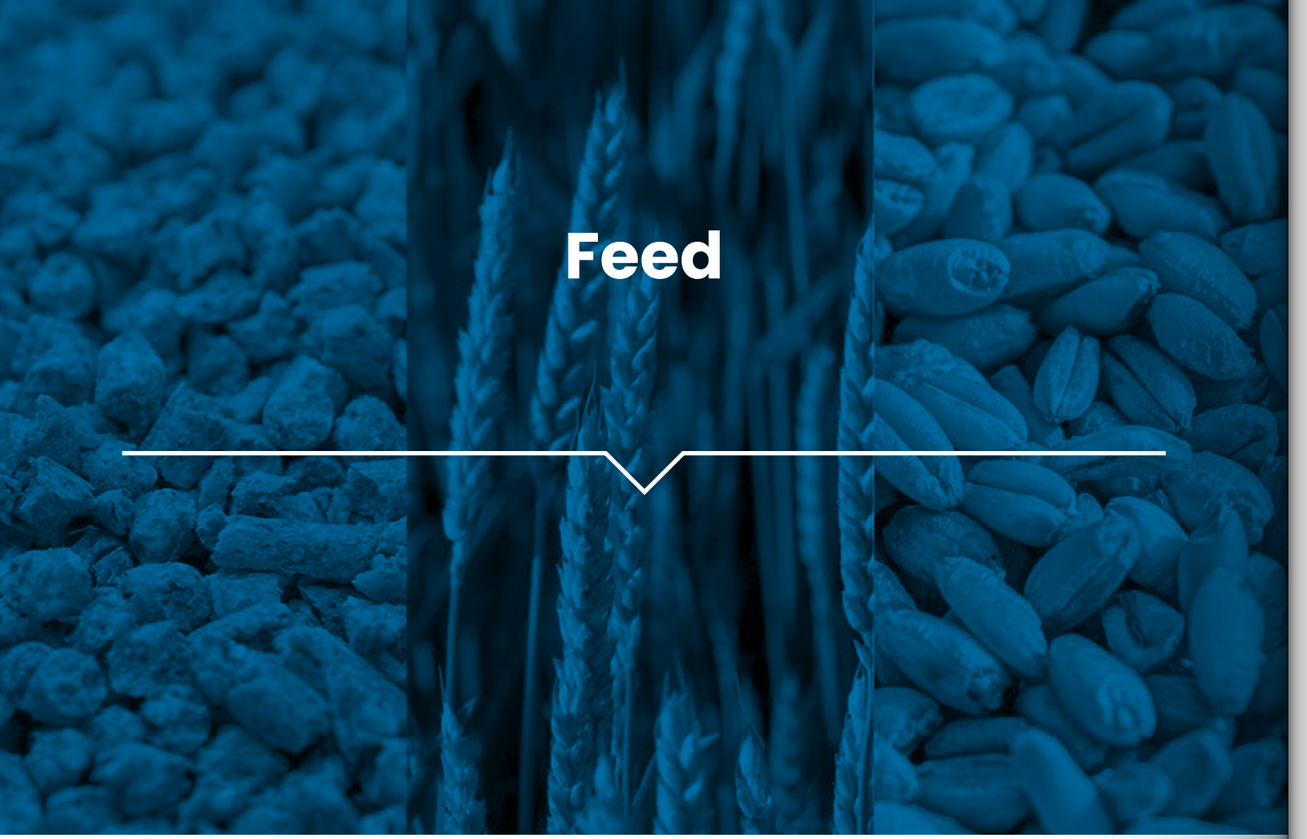












Feed

Storage of circular raw materials, biodiesel, and waste management

Circular raw materials such as biodiesel (including its processing), animal by-products, and used cooking oils (UCOs) often have a high acidity. This leads to accelerated corrosion in traditional storage materials like stainless or carbon steel.
For companies involved in storing or processing such products, this poses a significant challenge. Composite tanks offer a practical solution. They also provide major benefits in cleaning and in keeping contents warm.

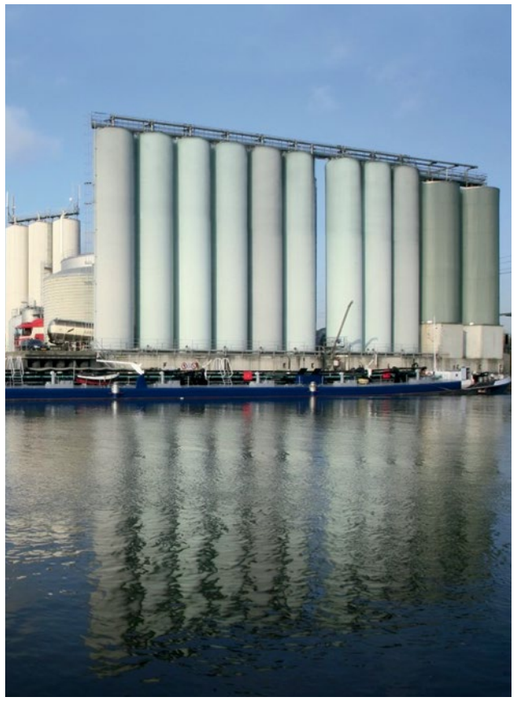
Suitable for the storage of compound feed, wheat, barley, corn, soy, and other dry bulk materials.

Our feed silos are manufactured in one seamless piece, ensuring maximum strength and durability. Thanks to the flanged top filling, even distribution during filling is guaranteed. The smooth interior wall promotes optimal flow, for both pellet and meal products.
M.I.P. silos are available in various versions: with a slide chute, external discharge, compatible with feeding systems, or mounted on a support frame. For products with difficult flow characteristics, we offer custom-made solutions.



Scan the QR code for an overview of references on our website











Food
Food industry

Storage of food products

Food production and processing involves a wide range of raw materials. Naturally, strict regulations apply to their storage.

Specifically for the food industry, M.I.P. designs and builds composite tanks and silos that meet the highest sector standards. Whether for flour, grains, or other food ingredients, M.I.P. always offers a reliable, tailor-made solution.

Polyester resin with GMP food approval

Our composite silos and tanks are made of glass fiber reinforced plastic (GRP), using an advanced spray-winding process. GRP combines polyester resin with fiberglass, resulting in a strong, durable, and corrosion-resistant construction.

For silos such as flour or coffee bean storage, we use specially selected resins with GMP Food Approval. M.I.P. works closely with its raw material suppliers to select the best materials for each application. This guarantees compliance with strict European standards.

Our tanks and silos can be supplied in food-grade versions, with optional Kosher and Halal certification.



Scan the QR code for an overview of references on our website











Food
Breweries

Optimal storage for the best beers

Beers are known worldwide for their refined taste and wide variety. To preserve this quality, proper storage of beer ingredients is crucial. Malt, yeast, and hops are sensitive to natural processes such as condensation, which can negatively impact the flavor and quality. A professional brewing system with proper storage plays a vital role.

M.I.P. is an experienced manufacturer of composite tanks, silos, and storage systems for breweries and distilleries. In practice, these clients often choose composite because of its unique material properties.

Thanks to their high thermal insulation value, our systems resist condensation, keeping ingredients optimally protected.

Additionally, we manufacture our silos with minimal seams and extremely smooth interior walls, which are ideal for storing beer ingredients. Our beer tanks are also chemically resistant and completely corrosion-free, making them suitable for all types of breweries, from craft brewers to large-scale production.



Scan the QR code for an overview of references on our website













Environment

Sustainable storage and processing solutions for the environmental sector

The environmental sector imposes strict requirements on the storage, processing, and purification of hazardous and harmful substances. M.I.P. Tanks & Silo's supplies corrosion-resistant storage tanks and silos with optimal chemical resistance. They are highly suitable for applications such as water treatment, sludge processing, or emission reduction.

M.I.P. has built a strong reputation in this sector. We are the exclusive producer of Polytec biofilters; biological odor removal towers for sludge drying installations. In addition, we work with Pure Green on developing an innovative bioreactor that effectively reduces nitrogen.

M.I.P. – Innovative and sustainable solutions for a cleaner future.

References

Scan the QR code for an overview of references on our website















Plastics

Storage of plastic granulates and thermosets

At M.I.P., we develop and manufacture high-quality composite granulate silos designed specifically for storing various plastic granulates such as PE, PP, and other synthetic materials. Our silos are also an excellent solution for thermosets.

Benefits of composite granulate silos

Smooth Interior Walls – Optimize granulate flow and prevent buildup.
Excellent Insulation – Essential for temperature-sensitive materials, preserving product quality.
Corrosion Resistance – Provides maximum protection for synthetic products and thermosets.
Lightweight and Mobile – Easy to move, ideal for facilities using multiple smaller silos.

Our silos can be equipped with weighing and dosing systems and conveying units, making them a perfect fit for your logistics and production processes. With composite silos from M.I.P., you choose a sustainable, efficient, and reliable storage solution.

Scan the QR code for an overview of references on our website













Advantages of composite as a construction material for storage tanks



Advantages

- Corrosion resistant
- Resistant to aggressive substances
- Not affected by condensation
- Superior insulation value
- Lower carbon footprint
- Lightweight

Composite has excellent thermal characteristics

Research shows that the wall temperature of GRP is farthest from the condensation point, making condensation least likely to occur with composite.

Superior insulation with glass-fiber reinforced composite:

The smart choice for storage tanks

The thermal conductivity of glass-fiber reinforced composite is significantly lower than that of steel (by a factor of 450) and stainless steel (by a factor of 300). This means composite naturally provides much better insulation.

M.I.P. uses rigid PUR or PET foam panels to insulate storage tanks. These panels offer up to 35% higher insulation values at the same thickness. The insulation is covered with a 5–6 mm layer of glass-fiber reinforced composite. This is machine-applied in our factory and finished with a UV- and weather-resistant topcoat.

This top layer creates a leakproof exterior that prevents water ingress and preserves the insulation's effectiveness.

An additional benefit: no more corrosion under insulation (CUI). Our solution is not only more efficient but also more durable and low-maintenance.



Certificaat
KSC-K82693/03 A

kiwa

CERTIFICAAT

ISO 9001

Kiwa heeft vastgesteld dat het door

M.I.P. Solutions

gehanteerde kwaliteitsmanagementsysteem en de toepassing daarvan voldoen aan NEN-EN-ISO 9001:2015 voor het toepassingsgebied:

Ontwerp, ontwikkeling, verkoop, installatie, montage en service van silo's en tanks in glasvezel versterkte kunststoffen voor de industrie.

Rion Scheepers
Kiwa

Nadere informatie over het toepassingsgebied van dit certificaat en de van toepassing zijnde eisen uit ISO 9001:2015 kunt u opvragen bij de gecertificeerde onderneming.

Safety, quality, and certification are always our highest priorities

That's why all our tanks and silos are produced according to the highest industrial standards and in compliance with today's stringent European regulations.

All M.I.P. storage systems comply with standards and guidelines including **DIN 18820** & **DIN 1055** for **GRP**, and **EN 13121** for tanks. Our production methodology aligns with **EN 1090-1 & 2** for steel and the **DIN 6600** series for stainless steel.

Every product is delivered with a declaration of conformity stating that it has been manufactured according to current European regulations. We are also **ISO 9001:2015** and **VCA**** certified, with annual audits to ensure compliance.



Design & engineering

M.I.P. is your partner from the design and engineering phase onward

Our engineers specialize in storage technologies and help you make the right choices for the storage of your valuable products. We also collaborate closely with our raw material suppliers to ensure the best materials are selected for each application.

From the initial design to commissioning, our engineers guide you every step of the way. With extensive experience in the composites industry, they are fully equipped to work with you in developing the ideal design.

We strive for perfection in every part of the process, from material selection to structural integrity and sustainability. By working closely with our clients, we ensure that each project meets the highest industry standards as well as your specific needs.

Our goal: to deliver innovative, efficient solutions that are safe, reliable, and cost-effective. Using the latest technologies and methods, we provide storage systems designed for long-term, trouble-free operation.

M.I.P. builds tanks up to 4,000 m³ and diameters up to 14,000 mm.
All composite storage systems are manufactured using a continuous filament winding process. This results in seamless tanks with smooth, durable interiors that offer excellent hygiene, chemical resistance, and optimal discharge properties for bulk goods, ensuring long life and maximum reliability across industrial applications.

Experienced project managers oversee every stage of the production process, from design to the finished product, and consult with you on desired adjustments to match your operational needs.



M.I.P. also handles transport, delivery, and installation of your tanks and silos

Delivery & installation

If road transport is not feasible due to tank size, waterway transport is an option. Both of our production sites have direct access to waterways. The Rijkevorsel factory is located on the Turnhout-Schoten canal, connected to the Albert Canal and Europe. The Moerdijk site provides direct access to the Hollands Diep.

Our tanks and silos can generally be transported both vertically and horizontally, meaning bridges are often not an obstacle. The complete logistics process is handled by our carrier in cooperation with our project manager, including permit arrangements. This way, you as a customer are fully relieved of the logistical burden.

Our technicians can also carry out on-site placement and assembly.
For installations on location, our project manager coordinates with all parties involved to ensure flawless operation.

M.I.P. supports you even after installation, including maintenance

Repairing composite tanks and silos requires the right expertise. M.I.P. has skilled professionals available to act quickly when needed, ensuring your production process continues without delay.

We also perform renovations and modifications inside tanks or silos. As no heat or sparks are involved, no hot work permit is required.

M.I.P. also offers service contracts. With these, our specialized service teams perform full annual maintenance on your entire installation.

Advantages of M.I.P.

Production	• Largest production capacity in Europe • Patented adjustable molds • Over 40 years of experience • Tanks and silos up to 4,000 m³
Transport & installation	• Road and water transport • On-site placement, assembly, and installation by our experts
Service	Solution-oriented service from design to installation and beyond
Innovation	We use the latest and most advanced techniques
Expertise	A family-owned business known for hands-on knowledge and an innovative mindset

M.I.P
TANKS & SILOS

Contact

M.I.P. Group BE
Vaart 20
BE-2310 Rijkevorsel
Belgium
T. +32 3 311 68 66

info@mip-nv.com
www.mip-nv.com

M.I.P. Group NL
Appelweg 12
4782 PX Moerdijk
The Netherlands
T. +32 3 311 68 66

info@mip-nv.com
www.mip-nv.com



