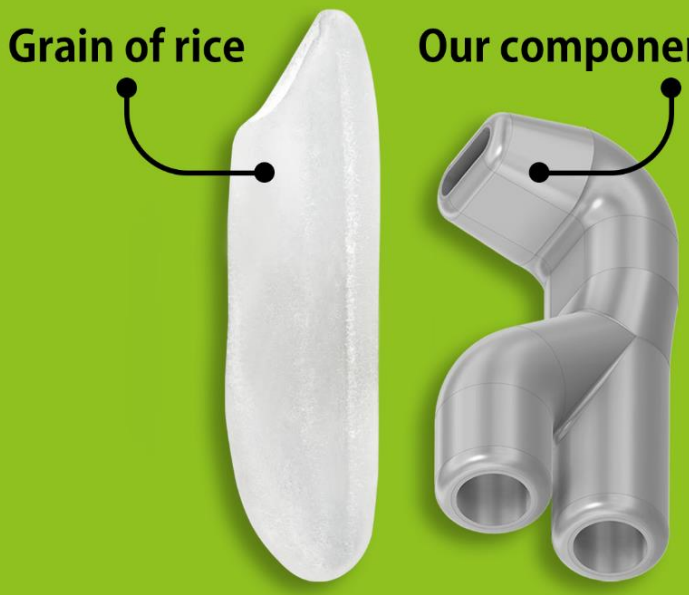
Experiencing Technical Difficulties?

We can solve your technical challenges with our µ-MIM® technology.



We manufacture components smaller than a grain of rice

Companies choose us because of

- ✓ ultra high precision
- ✓ material varieties
- ✓ design freedom
- ✓ stable mass production
- ✓ ISO 13485 quality assuarance
- ✓ innovative R&D

Advantages of our unique technologies

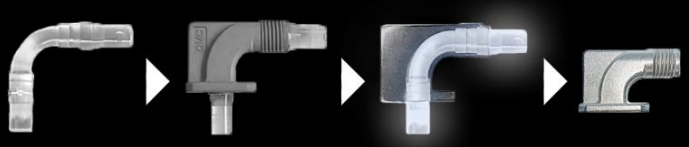
µ-MIM®

µ-MIM® is a technology that realises **ultra-precise MIM (Metal Injection Moulding) components** that would not be possible with conventional MIM manufacturing methods.

With over 50 years of experience in the industry and more than 25 years of research and development, we are able to produce very small parts with complex shapes from a wide range of materials in large quantities with high precision and quality.

3D-µMIM®

3D-µMIM® is **our unique lost-core process** that enables the mass production of components with complex geometries with hollow structures and undercuts that are difficult to fabricate using conventional MIM or machining.



Micro MIM
Europe GmbH

6 reasons why engineers love our µ-MIM® technology

High precision
Ultra high precision equivalent to machining

Material varieties
Large selection in the industry

Design freedom
Flexible MIM processing of near-net-shape parts

Mass production
Mass-produced parts with ISO 13485 guarantee

Quality assuarance
CP, CPK 1.33 or higher quality assurance

Innovative R&D
Working together to solve customer issues

Material varieties

µ-MIM® experienced material (trial included)

Stainless steel	304L, 316L, 17-4PH (630), 410L, 420J2, 440C
Titanium	Ti, Ti-6Al-4V (medical grades available)
Copper	Cu, Cu-Ni
Nickel	Ni, Invar, Inconel
Magnetic	410L, Fe-3%Si, PB permalloy, Permendur
Tungsten	W-Ni-Cu, W-Cu, W-Co, W-Ni-Fe
Molybdenum	Mo-Ni
Precious metal	Au alloy, Ag alloy, Pt alloy, Ir alloy, Pd alloy
Other alloy	Kovar, SKD11, SCM440

* We develop material and binder, so please contact us even if the material is not on the list.

µ-MIM® specifications

Our expertise is unmatched by any other MIM company.

Length		Approx. 10 mm Max 30 mm
Thickness		Approx. 0.5 mm
Minimum wall thickness		0.045 mm (partial)
Smallest hole size		φ 0.03 mm
Precision	< 5 mm	± 0.01 mm
	5 - 10 mm	± 0.015 mm
Relative density (%)		> 98
Surface roughness (Ra)		0.35 µm
Product weight		≤ 5 g

* When stainless steel powder of the smallest particle size (D50=3µ) is deployed.
* Results may vary depending on product shape, powder particle size and manufacturing conditions.

Why other companies like to work with us

Johnson & Johnson

Dr. Y.F.

This company has strong R&D, and they really know what they are doing. Their 3D-µMIM® technology is specialized for challenging parts with reasonable cost, and it provides 3 - 5 times better dimensional accuracy than conventional MIM process, comparable to machining.

CKD Corporation

M.T.

Because of excellent component partners like Micro MIM, our products are able to be manufactured with incredible precision and high quality!

Micro MIM Europe GmbH

Micro MIM Europe GmbH is a metal injection moulding company with µ-MIM® technology that manufactures micro parts with world-class precision, form and quality.

Get in touch

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