

## μ-MIM realises innovative gear production

MIM realises mass production of special gears such as intermittent gears, difference module stepped gears, a gear having different specifications in a lap, and so on. Moreover, μ-MIM can achieve high strength and geometric tolerance by integrating parts in any shape including the tooth and its root design. Additionally, we apply latest micro X-ray CT scanner and other optical measurement system for our quality assurance. This system combines the data with 3D design, thus high-integrity measurement data will be provided with the products.

### Small module Smaller than the standard exist



### Micro gear mass production

Utilising high precision mass productivity which is a feature of μ-MIM, it realised the mass production of gear module 0.5 or less with high accuracy. It is also possible to correspond to orders of 1 million units per month for internal or helical gears. We also accept the mass production of gear module 0.02.

### Integrated gear Space saving, cost reduction and higher performance



### Free from the design restriction

For fixing gears and shafts, it requires set screw, key, pin, splines, and so on. However, MIM is free from the gear design restriction, thus any integration is possible. Not only by reducing the number of parts but also by realising high accuracy and strength, we will be able to support cost and space saving for all kinds of small gears.

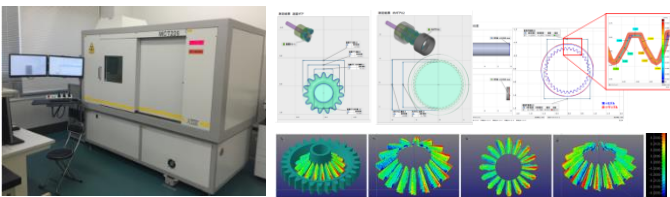
### Special gear Innovative design to manufacturing



### Experience in latest medical equipment parts mass production

Totally free from the design restriction, thus any special gear, such as non-circular, intermittent, eccentric gear, or tooth design are also available. μ-MIM can realise any tooth designed mass production and not only gear itself but also the case. It is possible to produce the case with internal gear till the very bottom end.

### Measurement evaluation Evaluate any gear design



### Provide integrity data using latest measurement technology

By using the high resolution X-ray CT and gear analysis software, it is possible to compare and verify 3 dimensional structural data with your 3D - CAD data. This quality assurance system exhibit the power especially in small module, internal helical gears.

### Column

Hi. This is Izumi Nakamura from German office. In January, I was back in Japan and enjoyed the New Year celebration in Japan. Since 1873 we celebrate the New Year on

1st January like most of the Western countries (many countries in Asia celebrate it according to the lunar calendar or buddhist calendar). During the New Year Days many people eat what we call „Osechi“ which is a set of different dishes which are easy to preserve. Another typical dish is „Ozoni“ soup, which contains Mochi (rice cake). The ingredients of Osechi and Ozoni vary a lot depending on where you are from.

Outside of the house we decorate „Kadomatsu“ a traditional decoration for the new year holiday and inside we put „Kagamimochi“. Another important tradition is that we send each other greeting cards, just like Christmas cards. Nowadays when everyone writes on SNS, it is only time of the year Japanese people write cards. During this holiday time, many people visit their family and children get „Otoshidama“ from their relatives in a decorated small envelope. This is always a great time for children!

