

1. 3D Metal Printer and MIM

Recently, the clients who compare MIM and 3D metal printer as the manufacturing method of complicated shaped metal parts have increased. The 3D printer and MIM are not the alternative technologies, rather a complementary technology which brings out the merits of each technology used differently depending on the manufacturing volume or the metal materials.

Therefore, Taisei Kogyo suggests the best method using the 3D metal printer technology selectively not only MIM.

How to select the 3D metal printer or MIM

The 3D metal printer is suitable for the manufacturing of 100 pieces or less and the complicated shaped parts which are difficult to produce by the machining process as like as MIM. For those fields, merits of the 3D metal printer can be derived significantly.

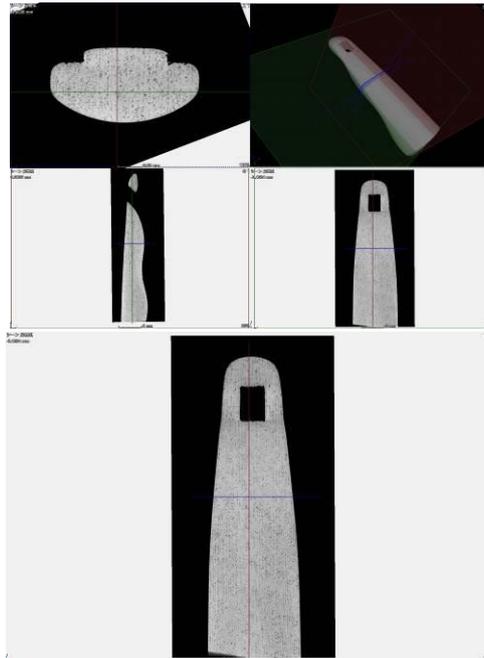
Major selection in the kind of metals is SUS series, and in some part, practical application of the 3D metal printer to the titanium series is ongoing.

At this moment, MIM has a wider range of selection.

Measurement evaluation of the 3D metal printer

The parts made by the 3D metal printer can be evaluated by the measurement in almost same as of MIM.

We already have inquiries for the evaluation of the inner defect for the parts made of laser sintering method. Responding to these inquiries, Taisei Kogyo conducts the evaluation with X-ray CT scanner as like as our MIM parts.



▲X-ray CT scan of the parts made by the 3D metal printer

Since the high-resolution latest unit is employed, minor internal defects can be detected. Taisei Kogyo carries out 3D metal printer or other measurement services not only MIM. If you are in trouble in the minor metal parts, please contact us.

2. MIM is the most appropriate for internal gears

Significant manufacturing costs reduction with μ-MIM technology

Inner gears are the products often processed with μ-MIM of course as outer gears are. If the inner gears are produced by the machining process, the processing step number drastically increases comparing with the outer gears. Accordingly, the manufacturing costs of inner gears will generally be higher than the outer gears.

Significant cost reduction like 30% to 80% per part especially the smaller part in mass production may be achieved since these are produced with die in μ-MIM. Please leave the manufacturing of inner gears in micron order to our μ-MIM.



3. Exhibition schedule

We will exhibit at the MEDIX (Medical Device Development Expo), which is a part of M-Tech exhibition (Mechanical components & Materials Technology Expo) in Tokyo, Japan between 21st and 23rd June 2017.

Please make an appointment with us so that we can make sure we are there to discuss with you and show you our micro-MIM parts sample.

We look forward to seeing you there!

Taisei Column



Mrs. Noriko Okamura Tokyo office

Hi, I am Noriko Okamura in Tokyo Sales Office. We had an internal barbeque party. The members who usually do not see each other due to different shifts gathered in a place. The employees who are good at outdoor activities cooked with Dutch oven and served the dish. A show by the trainees from Thailand was full of laughing voice. By the communication in a joyful atmosphere, it surely leads to a new innovative idea and better internal communication.