DMG MORI CO., LTD.
Global Head Quarter: 2-3-23 Shiomi, Koto-ku,
Tokyo, 135-0052, Japan
TEL: +81(0)3-6758-5900

Magnescale
SPEED X PRECISION
Magnescale Co., Ltd.
Headquarters
3-1-4 Edagawa, Koto-ku,
Tokyo 135-0051, Japan
TEL: +81 (0)3 6632 7920

Press Release

February 10th, 2022

DMG MORI & Magnescale
Construct a Semiconductor Lasers Factory at the Isehara Plant

DMG MORI CO., LTD. (hereinafter referred to as DMG MORI) and its group company Magnescale Co., Ltd. (hereinafter referred to as Magnescale) will construct a new facility for developing and producing semiconductor lasers for measuring instruments at its Isehara Plant in Kanagawa Prefecture, Japan. The construction is planned to be finished in June 2023.

Magnescale develops, manufactures, and sells measuring instruments. Its best sellers include LASERSCALE (an encoder with picometer-level resolution) and MAGNESCALE (a measuring device for machine tools). In the semiconductor manufacturing and inspection equipment industry, which is the main market for LASERSCALE, the demand for high-precision scales is increasing year by year. It is mainly driven by the rising necessity for downscaling and higher precision of superimposition for 3D architecture to further increase the level of circuit integration. LASERSCALE is also contributing to produce high-precision turbines of power generators, which is vitally important for a decarbonized society.
By 2025, we will need to secure approximately 100,000 semiconductor lasers per year to meet the growing demand for our measuring instruments.

In order to prepare for the increasing orders and to satisfy the market requirements for higher performance, we will internalize the development and production of semiconductor lasers.
The new facility for the development, prototyping, and production of semiconductor lasers in the Isehara Plant is scheduled to start its operation in 2024.
In addition, we are also studying if we can apply the know-how gained from the semiconductor laser business to the development and production of high-power semiconductor lasers for DMG MORI's additive manufacturing machines in the future.

◆ New factory overview

Location	: Suzukawa, Isehara City, Kanagawa Prefecture, Japan
Construction area	: 450 ㎡
Total floor space	: 918 ㎡
Schedule	: Building completion in June 2023, Start of operations in January 2024
Total investment	: Approximately JPY 3 billion

【Contact】 DMG MORI CO., LTD. Public Relations / Marketing Dept. E-mail : users@dmgmori.co.jp
Magnescale Co., Ltd. President's office, Public Relations E-mail : informationPR@magnescale.com

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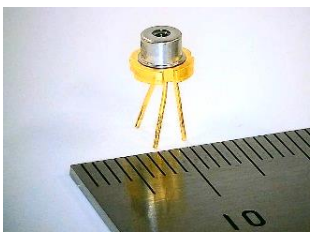
◆ Corporate profile

Company name	: Magnescale Co., Ltd.
Established	: March 31th, 2010
Headquarters	: 3-1-4 Edagawa, Koto-ku, Tokyo 135-0051, Japan (DMG MORI Tokyo Digital Innovation Center)
President	: Toru Fujimori, Dr. Eng.
Capital	: JPY 1 billion
Business scope	: Manufacture and Sale of measuring instruments

Established in August 1969 as Sony Magnescale Inc. For half a century, the company has been offering high-precision position detection systems based on magnetic and laser detection principles to the machine tool and industrial equipment fields. In 2010, the company was renamed to Magnescale Co., Ltd. and became a member of the DMG MORI group. MAGNESCALE, a measuring instrument using the magnetic detection method, is highly resistant to harsh environments such as condensation, oil, and vibration, and is popular in machine tools and industrial machinery. LASERSCALE, which utilizes the detection principle of laser, have realized the world's highest level of resolution, up to 2.1 picometers. It is widely used in semiconductor manufacturing and inspection equipment, where the extreme precision is required.

New factory exterior design



LASERSCALE / Semiconductor lasers

【Contact】 DMG MORI CO., LTD. Public Relations / Marketing Dept. E-mail : users@dmgmori.co.jp
Magnescale Co., Ltd. President's office, Public Relations E-mail : informationPR@magnescale.com