

Press release

## Sumitomo Drive Technologies presents the Fine Cyclo B Series, the next generation of Cyclo precision gearboxes

New Fine Cyclo series combines precision, rigidity and load-bearing capacity for compact, highly dynamic machine solutions

*Markt Indersdorf (Germany), 20 May 2026*

Sumitomo Drive Technologies is expanding its portfolio of backlash-free precision gearboxes with the B-Series of the Fine Cyclo® family. The new series is aimed at manufacturers and designers seeking to implement compact drive solutions with high dynamics and maximum transmission accuracy – particularly in applications with limited installation space and high demands on rigidity and running accuracy, such as those found in machine tools, medical technology or handling systems.

From 26 to 28 May, Sumitomo Drive Technologies will be presenting the Fine Cyclo B-Series for the first time at SPS Italia 2026 in Parma (Hall 5, Stand L021).

### **Compact in diameter. Big on performance.**

The Fine Cyclo B series combines a compact design with maximum precision and high-power density. The newly developed series featuring Cyclo technology covers outer diameters from 120 to 231 millimetres and transmits acceleration torques from 417 to 4,000 Newton-metres; in the overload range, it can withstand peak torques of up to 8,000 Newton-metres during emergency stops.

Axial and radial runout in the micrometre range, high torsional rigidity and maximum transmission accuracy ensure precise and dynamic movements even under the most demanding conditions.

Thanks to its single-stage design and wide reduction ratio range (29–179:1), the B Series can be integrated into machines in a particularly space-saving manner. The modular drive system also ensures quick and standardised adaptation to various motor and interface concepts.

“The new B Series supports highly dynamic applications without users having to compromise on accuracy, rigidity, load capacity or performance,” says Michael Berger, Product Manager and Business Development Team Leader at Sumitomo Drive Technologies, adding: “Two variants, each with four sizes and up to five reduction ratios, allow for precise adaptation to any application.”

### **Two variants for different integration and load requirements**

The series comprises two versions that cover different requirements:

- **F4C-B “main bearing type” – plug-and-play gearheads for robust precision axes**

The F4C-B variant with integrated main bearing impresses with exceptionally high rigidity, peak torque capacity and precise transmission accuracy – completely free of mechanical backlash.

As a Plug & Play solution, the gearboxes are factory-lubricated for life and fully sealed, making them maintenance-free and ready for immediate use.

The integrated axial angular contact ball bearings are designed for the highest loads and ensure reliable load-bearing capacity, whilst exact concentricity and parallelism at the output guarantee precise motion execution and a secure application connection.

The four sizes with graduated reduction ratios allow for flexible design for various automation tasks and are particularly suitable for applications where rigidity, precise transmission and reliable load support are key.

- **FC-B “KIT type” – Modular precision gearbox for customised machine solutions**

The gearbox kit offers maximum design freedom for customised machine concepts. It focuses on the core function of precise torque transmission and enables application-specific design – particularly where integration and interfaces are defined individually by the customer.

The kit is available in four sizes (B15, B25, B35, B45) with a wide range of reduction ratios up to 179:1 in the single-stage range and is particularly suitable for highly dynamic solutions where precision, flexibility and load-bearing capacity are crucial.

## Typical areas of application

The Fine Cyclo B series is suitable for the following industries, among others:

- **Machine tools:** High torsional rigidity and concentricity keep axes stable under load, improving surface quality and manufacturing accuracy.
- **Medical technology:** Precise axis movements in CT or MRI scanners, combined with smooth running, ensure stable image quality and quiet operation.
- **Packaging machines:** Compact design, high input speeds and maximum torque density enable short cycle times and efficient machine layouts.

With the B Series, Sumitomo Drive Technologies demonstrates how precision, dynamics and compactness can be combined in a single gearbox. The series offers maximum flexibility with

minimal installation space, high positioning accuracy and robust solutions for demanding automation and precision applications.

## **Technical principle: Cyclo gear technology**

The Fine Cyclo B-Series utilises the proven Cyclo® technology, which enables particularly high torques with smooth and vibration-free operation. An eccentric bearing is mounted on the drive shaft, which moves the cam discs. These transfer the rotational movement precisely to the output shaft. The principle reduces mechanical play and ensures smooth, highly dynamic movements.

What began in 1925 with the company's own patenting of the groundbreaking Cyclo principle by the Munich-based designer Lorenz Braren has since developed into the epitome of German engineering and makes Sumitomo Drive Technologies an international manufacturer of drive solutions with its European headquarters near Munich.

## **Available image material**

Images are available for download at: <https://emeia.sumitomodrive.com/en-gb/news>



Image source: Sumitomo Drive Technologies

**Fine Cyclo B Series: Small in diameter. Big on performance.**



Image source: Sumitomo Drive Technologies

**Back view of the Fine Cyclo B Series with Cyclo technology.**

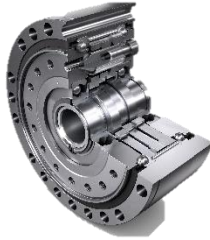


Image source: Sumitomo Drive Technologies

**Fine Cyclo B Series cutaway model: compact, torsionally rigid and highly precise for demanding industrial applications.**

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## About Sumitomo Drive Technologies

Sumitomo Drive Technologies is a leading global supplier of drive and control solutions, providing gear motors, gearboxes and related services to numerous industries. With a long-standing commitment to technical excellence, product reliability and customer support, Sumitomo Drive Technologies helps manufacturers worldwide to increase uptime, efficiency and performance.

## Drive technology close to the customer – worldwide

With ten production sites, over 30 assembly plants, 250 sales offices and around 7,000 employees across five continents, Sumitomo Drive Technologies has an extensive network to meet regional customer requirements worldwide.

Sumitomo Drive Technologies is part of Sumitomo Heavy Industries Ltd., one of the largest corporate groups in Japan and the world, with an annual turnover of around €7 billion.

Further information at: [www.sumitomodrive.com](http://www.sumitomodrive.com)

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