

# MANUFACTURING

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## High-Power Density CD Couplings Have Smaller Machine Footprint Designs

The quest for smaller machine footprints continues as designers seek new ways to reduce machine size while increasing output. The Zero-Max CD coupling provides precise and reliable shaft connections in less space than other couplings. It operates without fatigue for reliable 24/7 operation required in the latest machine designs. Key to this CD coupling design is the composite flex element. It provides high torsional stiffness, yet allows for misalignment in high-stress applications. In addition, these zero-backlash CD couplings provide smooth operation at high speeds. The coupling's high performance material is configured in a compact design that surpasses the performance of much longer couplings. The space savings enable machine designers to reduce the footprint, saving valuable floor space.

**Specific specifications of the CD coupling include:**

- 12-inch diameter
- 4.5 inches long
- Continuous Torque Rating: 76,800 inch-pounds
- Torsional Stiffness: 250,000 inch-pounds/degree
- Design Speed: 5,000 rpm
- Engineered specifically to operate in sub-critical speed
- Maximum Angular Misalignment: 1.5 inches



Zero-Max

The Zero-Max CD coupling.

- Maximum Radial Misalignment: 0.045 inches
- Maximum axial misalignment: 0.2 inches
- Coupling inertia: 984 pounds/square-inch
- Coupling weight: 43.9 pounds

Designed around Zero-Max's unique composite center disc, Compact CD couplings perform at peak torques in the most hostile operating environments — from extreme cold to

hot weather conditions minus-70 degrees to 250 degrees F (minus-57 degrees to 121 degrees C). Applications include drive trains, gearboxes, and generators to provide trouble-free operation in sea water and abrasive desert-sand conditions. ↵

Source: Zero-Max

For more information, go to [www.zero-max.com](http://www.zero-max.com)

## Senvion Acquires Kenersys Assets in India

Senvion, a leading global manufacturer of wind turbines, will acquire the wind-turbine nacelle production facilities and infrastructure, complete product portfolio suite, wind turbine

inventory, and the service operations of Kenersys India Private Limited, in Baramati, India. The production facility of nearly 250 MW of capacity has the potential to be expanded

further. Senvion will be able to start its operations with the assets immediately after the closing of the transaction and obtaining the necessary approvals.

The product portfolio of the acquired assets ranges from 2 to 2.6 MW and rotor diameters from 82 to 120 meters, with cumulative installations of 220 MW in India with some of the large local key clients. With this acquisition, Senvion gets full rights to own, enhance, and sell the Kenersys India product portfolio worldwide, including K82 (2.0 MW), K100 (2.6 MW), K110 (2.4 MW), and K120 (2.3 MW) in development. The existing products also are registered with the National Institute of Wind Energy, India, and available for Senvion immediately. Additionally, Senvion takes over the complete Indian service operations of Kenersys India Private Limited (220 MW).

“There are two main advantages of this acquisition: Firstly, we shorten our time-to-market in India rapidly and, secondly, we can build on a strong base to further align the Kenersys products with our existing Indian R&D organization and the well-known technical expertise from our Senvion tech center in Germany,” said Senvion CEO Jürgen Geissinger. “By adding 2 MW turbines with rotor diameters of 110 and 120 meters to our existing portfolio, we are able to offer our customers in India even more profitable and cost-efficient Senvion technology. We believe that this acquisition comes at the right time for us when the Indian Government sets its sights on 60 GW of cumulative wind-energy installations by 2022 and will have a positive impact on creating jobs in India for delivering state-of-the-art solutions for India and additional markets.”

“Earlier this year, we decided and announced to invest, access, and grow in the Indian market,” said Senvion CFO Manav Sharma. “We are a proud member of the Make in India initiative of the Government of India, and this investment strengthens our

commitment towards India. With the acquisition of specific Kenersys India assets, we are creating a fusion of Senvion’s international growth strategy, high-quality engineering competence, and the Indian market presence of Kenersys. With this transaction, we can combine these assets with Senvion strengths for presenting superior offers to Indian clients. The service business gives us instant access to some of the top independent power producers in India. We will finance the transaction with existing cash on our balance sheet. Our focus now shifts to working with the Kenersys India Team and other stakeholders toward the closing of the transaction.”

In February, Senvion announced it was adding India to its core markets and named Amit Kansal as managing director of Senvion India.

“The facilities in Baramati will give Senvion a ready home for production and is further supported by a product portfolio of German-designed products of Senvion and Kenersys India, some of which have already been successfully localized to India, and key client relationships,” Kansal said. “We look forward to growing Senvion by a strong mix of bringing top-of-the-line technologies to India, along with significant local knowhow and relationships.”

Since 2015, a research and development center in Bangalore is working fulltime to support the Senvion Product Development department, based at the TechCenter in Osterrönfeld in Northern Germany. ↴

Source: Senvion

For more information, go to [www.senvion.com](http://www.senvion.com)

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