

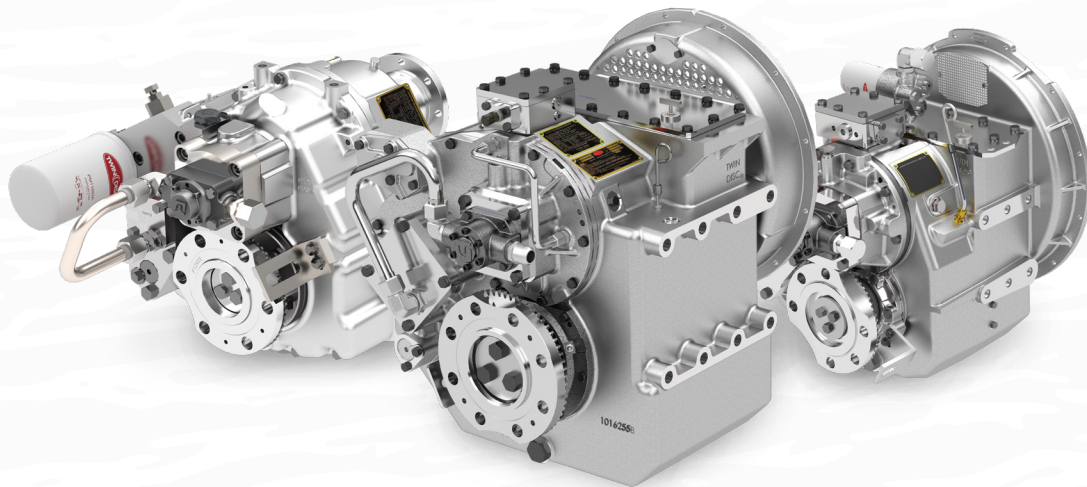


ON WATER



MGE SERIES

MARINE GEARS FOR ELECTRIC & SERIAL HYBRID PROPULSION



GO ELECTRIC

WITH OUR ELECTRIC AND HYBRID SYSTEMS

With more than a hundred years of experience in the design of innovative power transmission products, Twin Disc understands your needs and delivers the solutions that earn your confidence. Our innovative hybrid and electric systems support greener power transmission while delivering the reliability you expect from Twin Disc.

GET TO KNOW YOUR OPTIONS

FULL ELECTRIC

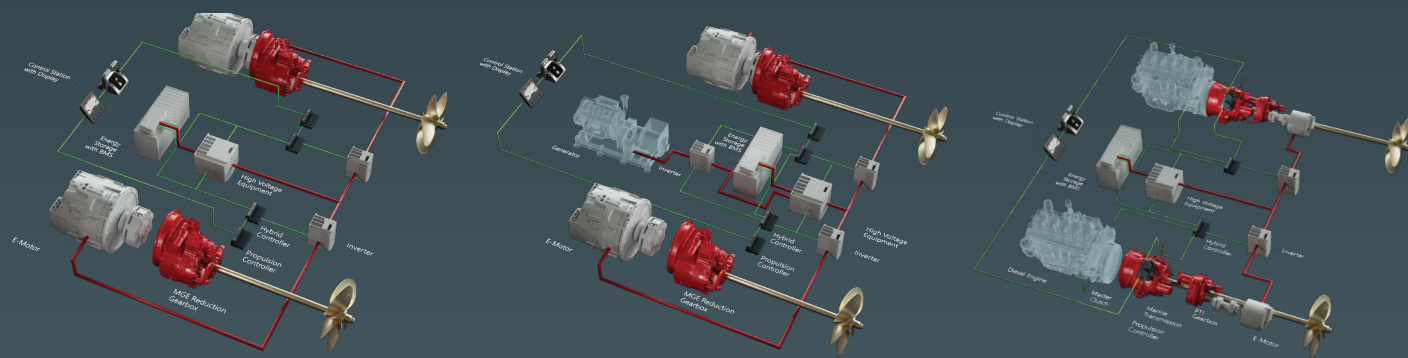
Eliminate the main diesel engine and its maintenance costs, and cut fuel costs and emissions. Configurable power-dense energy storage systems efficiently provide the energy needed to power the application.

SERIAL HYBRID

Electric motors replace the traditional main diesel engines, drawing electric power from onboard gensets, or an energy storage system in combination with gensets.

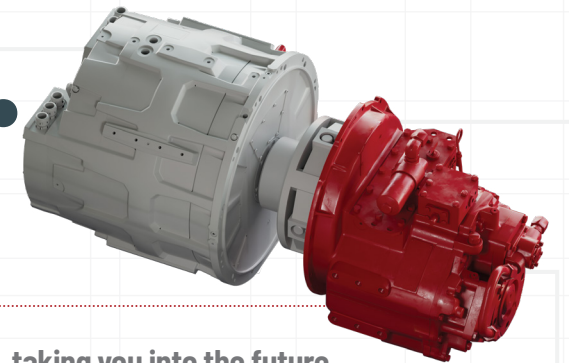
PARALLEL HYBRID

Pair the diesel engine with an electric motor. This configuration takes advantage of both, allowing for diesel-only, electric-only, peak shaving, and power boost operation.



If you're ready to explore hybrid or electric power systems, Twin Disc is the smart place to start.

MARINE ELECTRIFICATION: PROFITABLE. SUSTAINABLE. POWERFUL.



Discover the MGE Series of electric and serial hybrid-ready gearboxes, taking you into the future with over a decade of field-proven performance. This innovative series supports greener propulsion.

ENGINEERED FOR EFFICIENCY AND SUSTAINABILITY

Building on our industry-leading MG and MGX marine transmissions, we've developed a marine gearbox especially for applications requiring direct power response with a reduction ratio—specifically suited for serial hybrid and diesel-electric applications. The MGE provides immediate power from the motor, whether the shaft is turning clockwise or counter-clockwise, with the optimum reduction ratio for efficient, environmentally-friendly propulsion.

EVOLVING EVERY DETAIL OF DESIGN

MGE Series models require no reverse gears, wet clutch or advanced high-pressure hydraulic circuit. A built-in bi-directional oil pump provides lubrication. Built-in thrust bearings deliver superior performance over industrial gearboxes. MGE gearboxes are built to the same standards as Twin Disc marine transmissions, with the same installation envelope. Meet applicable marine standards, including survey society approvals, and use the MGE Series wherever you use MG or MGX transmissions.

ENHANCING ELECTRIC VESSEL PROFITABILITY

With more than a hundred years of experience in the design of innovative marine products, Twin Disc understands your needs and delivers the solutions that earn your confidence. Our first MGE transmissions, operating since 2011, continue to satisfy owners and operators. Choose MGE Series marine transmissions, good for the environment and good for your business.



DESIGNED TO ACHIEVE YOUR GOALS

MGE gearboxes offer a profitable, sustainable, powerful choice for owners, fleet operators, shipyards and naval architects. You can rely on Twin Disc's commitment to solve marine industry challenges while contributing to a cleaner world.

MGE FEATURES

- 90% of components in common with diesel-driven marine transmissions
- Simplified design without clutch
- Simplified hydraulic circuit
- Bi-directional gear-driven lube oil pump
- Built-in thrust bearing

MGE BENEFITS

- Robust and proven design
- Ability to match optimum propeller rpm
- Simple and reliable
- Handles propeller thrust—no need for external thrust bearing
- Easy installation: drops into existing MG/MGX envelope

MGE OPTIONS

- Freestanding connection with the e-motor
- Mounted heat exchanger
- Misalignment coupling
- Bolt-on mounting brackets
- Companion flange
- Type approval & unit certification on request

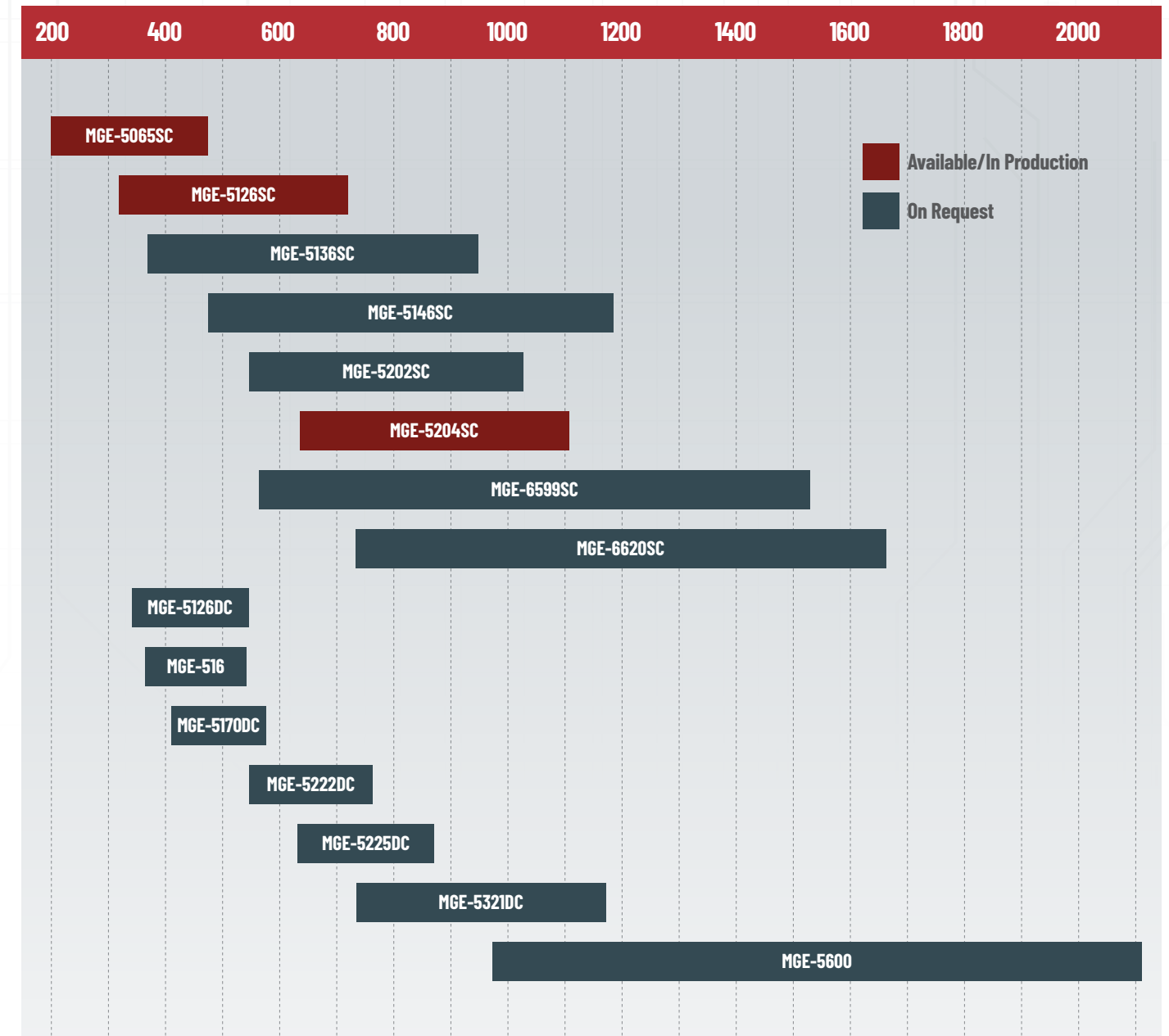
MGE APPLICATIONS

- Propeller or jet boats
- Single or multiple screw vessels, new construction or retrofit
- Any vessel type and duty cycle/load profile



GET IT DONE WITH TWIN DISC

MGE RANGE CHART (KW)



The final matching depends on the required reduction ratio and on the type of application. Twin Disc offers five duty classifications from Pleasure Craft to Continuous Duty.

Please contact applications@twindisc.com to match a MGE model to your application.

GLOBAL MEANS

A WORLD OF VALUE

GLOBAL RESEARCH & DEVELOPMENT

Twin Disc has designed, built and serviced countless marine products all over the world for almost a century. This unparalleled history of incorporating innumerable vessels in varied operating conditions affords us a unique understanding of the global marine industry.

Our global R&D perspective yields innovative marine products relevant and important to individual customer vessel types, missions and duty requirements.



GLOBAL APPLICATION ENGINEERING

Our application engineers possess global experience and resources to help you select the most appropriate boat management and propulsion system. Whatever the hull or operating parameters, Twin Disc offers a knowledgeable and efficient solution to achieve the optimum combination of speed, precision maneuverability and propulsion dependability for your vessel.



GLOBAL SALES & SERVICE

With 250 distributors and service dealers across the world, you've got genuine Twin Disc Parts and Service availability—wherever you are.

Our global network maintains an inventory of critical products and spare parts. In an emergency situation, our service team locates the available inventory nearest you and, combined with our after-hours emergency capabilities, gets you back underway right away.

To help you avoid the unforeseen, Twin Disc distributors and service dealers partner with you to review your specific application and recommend the most appropriate preventive and predictive maintenance program.



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And More

YOUR CURIOSITY LED YOU HERE; NOW, LET OUR EXPERTISE GUIDE YOU.

Visit our website to take control of your journey and find out how we can put horsepower to work for you.



MAKE TWIN DISC YOUR PROPULSION PARTNER

From system-design consultation to application development to in-service support, Twin Disc will partner with you to provide fully integrated propulsion solutions that will optimize your craft's performance, reliability and safety over the years. Bring Twin Disc aboard early in the development process, and you'll enjoy a lifetime of enhanced operating value and optimal cost of ownership.

For assistance with a specific application, please email applications@twindisc.com.



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**WE PUT HORSEPOWER
TO WORK[®]**

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