



# THE NEW DIESEL ENGINES FROM DDC AND MTU

COMPLEMENTED BY

EXHIBITORS AT  
SIA 2007 - 11-13/14/15/16  
MOTOR SHOW CENTRE





## THE SERIES 2000 AND 4000 ENGINES: OUR CUSTOMERS SET THE STANDARD

Good engine development is not a linear process. It's a series of design and program trials.

New rules in power generation have established goals for the manufacturers: maximum efficiency, maximum emissions, maximum ability to control and reduce noise.

The only ASEA Turbocharger and Turbogenerator in the world. ASEA's turbochargers and turbogenerators are a world-renowned path to design the new generation of large data high-speed diesel engines capable of providing optimum efficiency in a variety of applications. ASEA's unique design philosophy has made us the world's most advanced manufacturer of turbochargers and turbogenerators. We spend no time on unproven technology. We are always in the development frontier zone.

The engine for the Series 2000 and Series 4000 engines has been developed in Sweden.

ASEA — we invent in a wide range of manufacturing systems. We understand what flexibility and adaptability means. We understand our own limitations in terms of what they really mean. We understand the business challenges that have to be met to meet our customers, governments, environmentalists and regulatory agencies.

What manufacturing businesses will experience is the challenge to meet the customer using a design combination of new novel engineering concepts and old. We take these new concepts and combine them with proven, known fact, scientific and technical. They can mean the difference between profit and redundancy in any business. They can allow you to increase efficiency and capacity of operation, and

they can enable us to say "yes".

ASA Turbochargers and Turbogenerators present a challenge.

The new turbochargers and turbogenerators are being introduced in new engines with unique and sophisticated systems to meet customer needs.

These engines develop their power, efficiency and torque are equal to all other diesel and turbocharged engine products. And we believe we're first.

The ASEA Turbocharger and Turbogenerator are the most advanced turbochargers and turbogenerators developed for the engine. Improving efficiency also adds capacity for all products in the power market. We've found it to increase power levels.

The ASEA turbo and turbochargers have been applied to new Series 2000 and 4000. This is a milestone. The new turbochargers have been developed and tested by our performance and reliability engineers from the combined experience of the ASEA and Deere Diesel divisions.

We supply our turbochargers and turbogenerators to the equipment in power generation, marine, mobile, mobile, and power generation, construction, mining and industrial markets worldwide.

A first in the world: ASEA offers a unique technology for new engines. The Series 2000 turbocharger will show 10-15% efficiency gain and 10-15% torque gain. The Series 4000 turbocharger will show 10-15% efficiency gain and 10-15% torque gain. ASEA's turbochargers and turbogenerators are the most advanced in the world. ASEA's turbochargers and turbogenerators are the most advanced in the world. ASEA's turbochargers and turbogenerators are the most advanced in the world. ASEA's turbochargers and turbogenerators are the most advanced in the world.







to provide the most advanced and reliable engine option. "Multi-cylinder diesels are well-proven, but only until 2000 when most of our multi-cylinder diesels in the low-horsepower segment will have been replaced by more-efficient, six-cylinder, four-cylinder and five-cylinder engines," says the company's president.

The four-cylinder, low-horsepower engines required re-engineering of the drivetrain and auxiliary components. "When operators do the same work, the only engine we

will change is the 40-hp model. By taking engine classes in 10-hp steps and then, by 2000, changing to 5-hp steps, we provide a gradual, but steady, change in efficiency and power," says the company's president.

Over the next 10 years, continued work will go into engine space efficiency, especially fuel use and torque production and finally power-to-weight ratio. "It's better to have a 100-hp engine and not require the extra gear, more complex maintenance and extra weight," says the

company's president. "We're going to have a more gas-efficient engine and fuel consumption over the next 10 years."

Like re-engineering for the engine, re-engineering for the whole machine is another story. "Manufacturers need to take a more global view of the machine, not just the engine," says the president. "It's not just the engine that's important, it's the whole machine. It's not just the engine that's important, it's the whole machine. It's not just the engine that's important, it's the whole machine."

## ENGINEERING HARD ROCK

Construction's hard-rock market, the Stone 300 engine family, has been chosen as the best value in all highway applications, including railroad, utility, power-generation and other industrial markets. Stone made such a claim based on a specific performance measurement program—the StoneDurability Index, the most performance-oriented index for a power application.

The Stone 300 family includes six engines and applications, including construction, power-generation, utility, and other industrial markets. The StoneDurability Index is a performance measurement program that takes into account engine life, maintenance, and other factors. "The StoneDurability Index is a performance measurement program that takes into account engine life, maintenance, and other factors," says the company's president.

The Stone 300 engine family is available in 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000, 1050, 1100, 1150, 1200, 1250, 1300, 1350, 1400, 1450, 1500, 1550, 1600, 1650, 1700, 1750, 1800, 1850, 1900, 1950, 2000, 2050, 2100, 2150, 2200, 2250, 2300, 2350, 2400, 2450, 2500, 2550, 2600, 2650, 2700, 2750, 2800, 2850, 2900, 2950, 3000, 3050, 3100, 3150, 3200, 3250, 3300, 3350, 3400, 3450, 3500, 3550, 3600, 3650, 3700, 3750, 3800, 3850, 3900, 3950, 4000, 4050, 4100, 4150, 4200, 4250, 4300, 4350, 4400, 4450, 4500, 4550, 4600, 4650, 4700, 4750, 4800, 4850, 4900, 4950, 5000, 5050, 5100, 5150, 5200, 5250, 5300, 5350, 5400, 5450, 5500, 5550, 5600, 5650, 5700, 5750, 5800, 5850, 5900, 5950, 6000, 6050, 6100, 6150, 6200, 6250, 6300, 6350, 6400, 6450, 6500, 6550, 6600, 6650, 6700, 6750, 6800, 6850, 6900, 6950, 7000, 7050, 7100, 7150, 7200, 7250, 7300, 7350, 7400, 7450, 7500, 7550, 7600, 7650, 7700, 7750, 7800, 7850, 7900, 7950, 8000, 8050, 8100, 8150, 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## GLOBAL CUSTOMER CHALLENGE

Over 300,000 MTU engines are in operation today, that's more than 100,000 engines in every 1000 km<sup>2</sup> of land. This is a challenge to deliver world-wide customer support with a new level of technology and service capabilities. However, the customer service support requirements are fulfilled across any level of infrastructure to meet these needs.

Leading edge technology and maintenance

capabilities are key to our customer solutions. In fact, when we know the challenges in your environment, it becomes important that a maintenance team be available to support your system. In the Americas, Europe, and Asia, we have service centers to provide expert technical support. In the rest of the world, being responsive means having a service center located nearby with our customer service center staff, online support, and regional offices to help you get up and running.



The support using communication tools is essential to ensure the customer's system is running smoothly. We have a global network of service centers that can provide 24/7 support.

We extend service global through our global network with the customer support centers and our full advantage of our customer support and compliance strength. We have regional support centers that will cover any area you need. Our service centers are located in North America, Europe, and Asia, as well as the growing economies.

Global service centers are a key element in our global support strategy. We have service centers in North America, Europe, and Asia. In fact, we have service centers in every major region of the world. We have service centers in every major region of the world. We have service centers in every major region of the world.

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MTU and MAN products are the most reliable in the industry. Additionally,

over 300,000 MTU engines are in operation today, that's more than 100,000 engines in every 1000 km<sup>2</sup> of land. This is a challenge to deliver world-wide customer support with a new level of technology and service capabilities.



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**DDC**  
**mtu**

**2000**



**MEET US ALL OVER THE WORLD.**

**mtu**  
**DDC**

**4000**

**DETROIT DIESEL**

CORPORATION



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