



# AGCO SISU POWER™



**No Compromises**

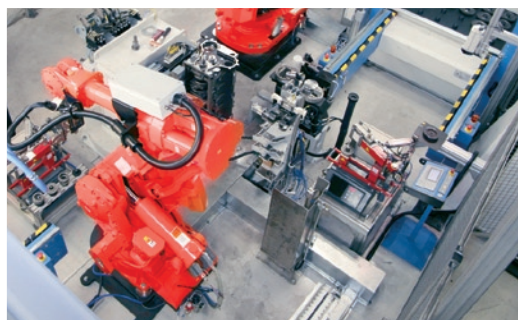
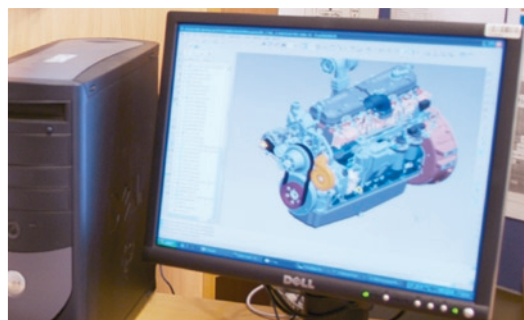
**Increased** Power   **Reduced** Emissions   **Improved** Fuel Economy



AGCO SISU POWER is at the forefront of AGCO's corporate mission: **High-tech solutions with a commitment to quality.**

# AGCO SISU POWER™

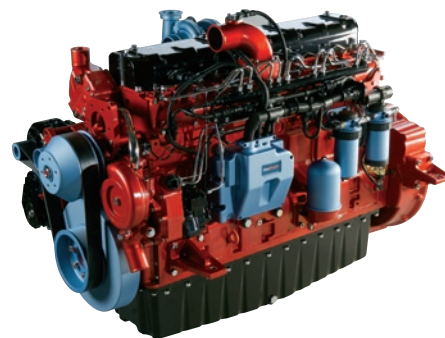
The next generation in engine power



**AGCO SISU POWER** specializes in the design and manufacture of durable, powerful engines with industry-leading environmental performance. AGCO SISU POWER also produces generators and pumps, as well as gears, axles and transmissions for such applications as harvesters and tractors. As a highly respected brand, AGCO SISU POWER is recognized throughout the world.

Established in 1942, AGCO SISU POWER products were originally marketed under the Valmet brand. Total worldwide production is nearing 50,000 engines per year. With a workforce of nearly 800, AGCO SISU POWER continues to grow in size and performance.

In 2004, the company became part of the Fortune 500 AGCO Corporation. US-based AGCO Corporation is the world's third largest developer and manufacturer of agricultural machinery and equipment. AGCO has over 20 brands that are sold in over 140 countries by 3,200 independent dealers and importers.



## Powered by advanced technology

Advanced technology has been the hallmark of AGCO SISU POWER for over 60 years. Many of AGCO SISU POWER's early innovations have only recently been adopted by competitors. For example, direct injection technology, cross-flow cylinder heads, centrally supported cylinder liners and advanced turbocharger technology have been commonplace in the engines for decades. AGCO SISU POWER also leads the industry in engine electronics, particularly with its advanced SisuTronic electronic engine management system.

AGCO SISU POWER's new R&D laboratory utilizes the latest automation and technology for development and testing of ever more advanced and powerful engines.

AGCO SISU POWER's quality and environmental systems are certified according to the ISO 9001 and ISO 14001 standards.

## Advanced automation and production technology

Investments into the Finish and Brazilian operations have created one of the world's most modern diesel engine plants. In Finland, the plant's fully automated assembly line uses advanced robotics that work tirelessly to create the highest level of quality. Nearly one hundred industrial robots integrate functions with skilled personnel to create products of the highest quality.

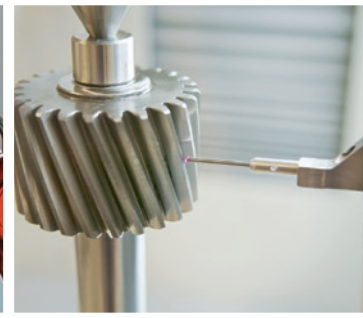
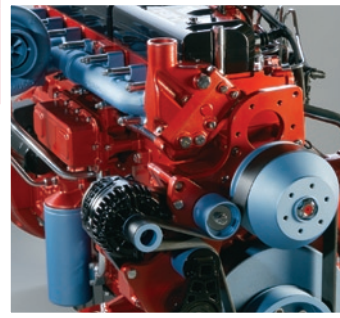
AGCO SISU POWER's engine assembly plant utilizes automated guided vehicles for material movement and logistics. Unmatched production flexibility allows engines to be customized according to each individual customer specifications.

AGCO SISU POWER's advanced production technology is designed to flexibly produce all strategic components. State-of-the-art production lines can adapt to meet assembly needs as required.

## Meeting Stricter Environmental Standards

AGCO SISU POWER has met the challenge of producing three generations of engine power that are acceptable to environmental regulators in Europe and North America and is positioned well to advance with the next generation in engine power.

	EU	USA
1st Generation	Stage 1	Tier I
2nd Generation	Stage 2	Tier II
3rd Generation	Stage 3A	Tier III
4th Generation	Stage 3B	Tier IV Interim
5th Generation	Stage 4	Tier IV Final



## Energy, Economy, and Ecology



AGCO SISU POWER's e<sup>3</sup> Selective Catalytic Reduction (SCR) Emission Technology sets new standards in environmental efficiency and engine performance.

This after-treatment system together with the SisuTronic electronic engine management system offers a significant improvement in fuel economy and emission control – without compromising engine power, torque characteristics or throttle response.

AGCO SISU POWER's e<sup>3</sup> SCR Emission Technology is the most effective method of reducing nitrogen oxide emissions with a conversion rate up to 85%. Best of all, it reduces operating costs 10% compared to other Stage 3A engines.



AGCO SISU POWER's E3 SCR Emission Technology sets new standards in cleaner emissions and enhanced fuel economy, without reducing engine performance.



BRANDS WHO RELY ON AGCO  
SISU POWER ENGINES

### **Agricultural & Forestry**

Challenger

Fendt

Iseki

Laverda

Logman

Logset

Massey Ferguson

Profi-Forest

Sampo Rosenlew

Steyr

Valmet

Valtra

### **Generating Sets**

AJ Power

GenPowex

### **Marine & Industrial**

Formatic

Kalmar

Konecranes

Lannen

Nordhavn

Sandfirden



## **Transmitting power**

A high-quality engine requires a high-quality transmission. AGCO SISU POWER manufactures gears and transmissions that are used in tractors, harvesters and more.

AGCO SISU POWER is one of the biggest transmission component manufacturers in Northern Europe, producing a million gears a year. AGCO SISU POWER's advanced automation delivers the highest level of gear quality at a highly cost-efficient price point.

## **Reliability for generators & pumps**

When electricity is unavailable or unreliable, AGCO SISU POWER's diesel generators and pumps offer the perfect solution. Most importantly, quality is ensured by testing every single diesel generator and pump before delivery to the customer.

AGCO SISU POWER offers power generation solutions for land and sea under the GenPowex™ brand. Design, manufacturing and marketing activities are all handled in Finland. Generator sets are offered in power range from 11 to 2000 kVA for both prime and stand-by use. GenPowex is the leading manufacturer in this category for northern Europe.

AGCO SISU POWER also manufactures diesel pumps for a range of applications, including automatic fire-fighting systems. These are also powered by fuel-efficient AGCO SISU POWER engines.

## **A respected worldwide brand for engines**

Leading brands of advanced machinery and equipment choose AGCO SISU POWER engines for their power, reliability and clean running characteristics. Quality materials and advanced manufacturing processes ensure excellent reliability.

## **Global service network**

AGCO SISU POWER engines are backed by an extensive global network of service resources. All AGCO dealers, regardless of brand, have access to the complete range of service manuals, bulletins and parts making it easier to keep equipment working at peak performance anywhere in the world.



**Leading brands choose AGCO SISU  
POWER engines for their power,  
reliability and fuel efficiency.**

# The History of AGCO SISU POWER

- Finnish Ministry of Defense establishes engine factory in 1942.
- Diesel production begins in 1946.
- By 1951, Valmet is at the forefront of diesel engine design with direct injection and turbocharged engines.
- The diesel era of Valmet tractors begins in 1957. By 1963, the company produces the first four-cylinder diesel engine – turbocharged by 1967.
- By 1974, the company produces its 50,000th diesel engine.
- Engine size continues to grow to meet the demands of big combine harvesters and tractors. A 7.4 liter, six-cylinder engine is introduced in 1985.
- Engine power continues to grow through the 90s, including an 8.4 liter, 400 hp engine.
- 1994 SKD engine production in Brazil is started.
- 1999 complete engine production in Brazil is started.
- In 2004, SisuDiesel joins the USA-based AGCO Corporation. With production plants in Finland and Brazil, SisuDiesel produces over 25,000 engines a year.
- In 2008, Sisu Diesel is branded AGCO SISU POWER. A new engine facility is opened in Russia. The 9.8 liter – the first 7-cylinder in that power class – is introduced to the market. The total annual volume increases to close to 50,000 units.

With over  
60 years of  
experience,  
AGCO SISU  
POWER has a  
strong basis  
for technical  
innovations.



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