



AGCO
SISU POWER

3rd Generation Series

For the most demanding off-road machinery applications



No Compromises

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

3rd Generation Series

State-of-the-art engine technology that delivers performance and durability

AGCO SISU POWER's new 3-, 4-, 6- and 7-cylinder 3rd Generation Series engines are designed for demanding off-road machinery applications. Robust construction, durability, reliability and strong torque have made AGCO SISU POWER engines respected throughout the world. Most importantly, the new 3rd Generation Series has been developed to be the most economic off-road diesel engine in the world.

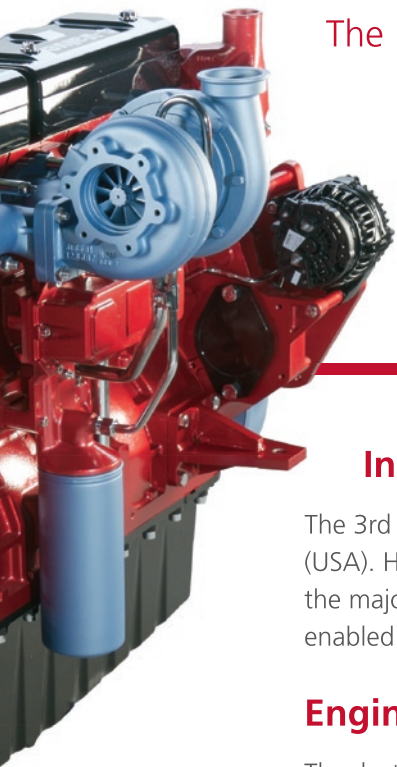
The new 3rd Generation Series engine reduces emissions without sacrificing fuel economy and its design is at home in many off-road applications, including tractors, combines and industrial equipment.

Increased power density – reduced emissions


The 3rd Generation Series engines fulfill the emission requirements of Stage IIIA (EU) and EPA Tier III (USA). High injection pressure, precise electronic injection timing and effective charge air cooling are the major factors in emission control. The solutions used for reducing emissions have simultaneously enabled the increase of power density and torque level while maintaining good fuel economy.

Engine response faster than ever

Thanks to the new design solutions, 3rd Generation Series engines are fast in response. The state-of-the-art electronic control, high pressure fuel injection and turbo-charger enable the engine to react without delay in changing load conditions.



3rd Generation Series



Engine Type	Length MM	Height MM	Width MM	Dry Weight KG
33	765	750	550	330
44	902	887	620	390
66	1190	997	600	590
74	1190	997	600	600
84	1250	1060	640	690
98	1450	1060	640	790

High reliability – ease of maintenance

AGCO SISU POWER's renowned durability includes wet cylinder liners and charge air cooling for a long service life and reduced operation cost.

The whole fuel system is located on the cool side of the engine. Fuel filters are easily accessible for quick replacement without tools or spilling due to slip-ring fitting design. All service points are easily accessed for streamlined service. Electronic maintenance controls extend filter change intervals when good quality fuel is used.

Reduced noise

Combustion noise has been reduced by the use of pilot injection. The rise of firing pressure is slow and does not produce typical diesel engine noise levels. The sound of combustion is smooth and frequency is pleasantly low. The new gear design and profile of timing gears also reduce mechanical noise. Enjoy a comfortable working environment in the cabin.

Cylinder liner with mid-support

The 3rd Generation Series engine features mid-cylinder liner support design. This type of design:

- REDUCES liner vibrations in order to nearly eliminate cavitation corrosion
- MINIMIZES wear of cylinder liners and piston rings, resulting in long service life
- LOWERS oil consumption, among the lowest in engines of this power range.

Engine for frameless tractor design

The robust engine construction is suited for the load bearing member of the tractor frame without requiring a separate engine frame. Dimensions match the 2nd Generation Series, making re-installation uncomplicated.

Pilot Injection reduces combustion noise, lower than typical diesel engines.

The 3rd Generation Series design is at home in many applications, including tractors, combines and industrial equipment.



3rd generation engine control

AGCO SISU POWER 3rd Generation Series engines feature 3rd generation control electronics that enhance and extend the proven technology behind the Fortius series engines. New or improved features include:

- + **Injection process** – The whole injection process is completely controlled by the ECU. Injection timing is automatically optimized according to operation conditions.
- + **Multi-power and multi-governor performance** – Static and dynamic properties are optimized into the EEM3 control system using CAN bus technology to achieve highest performance and efficiency.
- + **Cruise control functions** – Functions are controllable for both travel speed and for PTO shaft speed. Maximum speeds can be set via the CAN bus connection.
- + **Warning systems** – Engine protection warnings are integral to the control system.
- + **OnBoard control** – Enjoy continuous control of the engine during operation. Common Rail pressure and cylinder functions are monitored continuously.
- + **Service displays** – Maintenance messages are displayed in order to optimize scheduled service and performance. The serial number and other engine information is also electronically displayed to simplify service.
- + **CAN bus compatible** – Communication via CAN bus simplifies engine upgrades from 2nd Generation to 3rd Generation AGCO SISU POWER engines.
- + **Fuel monitoring** – Real-time monitoring of fuel consumption and load optimizes power transmission, engine efficiency and economy.
- + **Cold weather** – 3rd Generation Series engines automatically compensate for fuel temperature when starting or running when cold.
- + **Shut-down log** – Every engine shut-down is monitored and recorded to facilitate problem solving and service.
- + **Virtual engine** – An electronic simulation model of the 3rd Generation Series engine is available for development of custom vehicle control systems.

AGCO SISU POWER

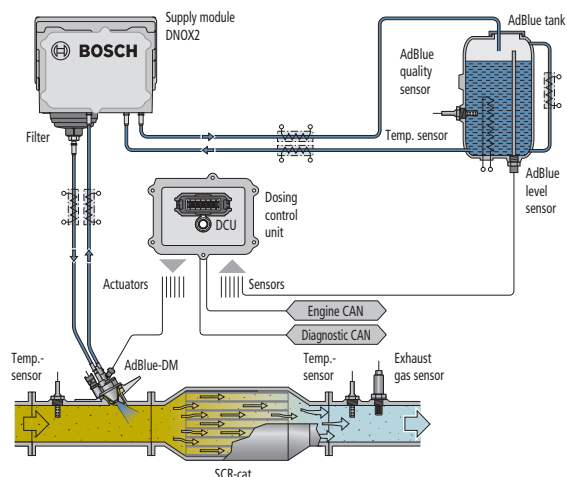
3rd Generation Series engines have proven power, unsurpassed torque and improved fuel economy.

Energy, Economy, and Ecology



AGCO SISU POWER's e³ Selective Catalytic Reduction (SCR) 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. SCR will be the base technology for the 4th Generation engine series, as well.





AGCO SISU POWER
FI-37240 Linnavuori, Nokia
FINLAND

TEL: +358 3 3417 111
FAX: +358 3 3417 330
EMAIL: info@agcosisupower.com
WEB: www.agcosisupower.com



©2008 AGCO Corporation. All rights reserved.