

3rd Generation Series 7-Cylinder Diesel Engine

AGCO SISU POWER's 7-cylinder 3rd Generation series engines are designed for demanding off-road machinery applications because of their robust construction, durability, reliability and strong torque. An improved combustion process is the result of continuous research and development.

Increased power density – reduced gas and noise emissions

Meeting both the European and US Stage 3A / Tier III emission requirements, this series offers reduced emissions in conjunction with increased power density, greater torque and good fuel economy. Combustion noise has also been reduced through the use of pilot injection. Mechanical noise is reduced through a new timing gear.

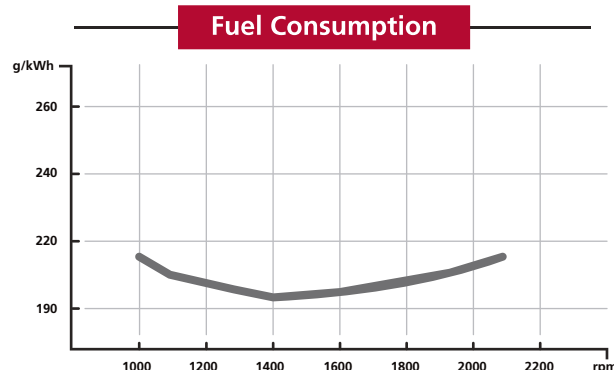
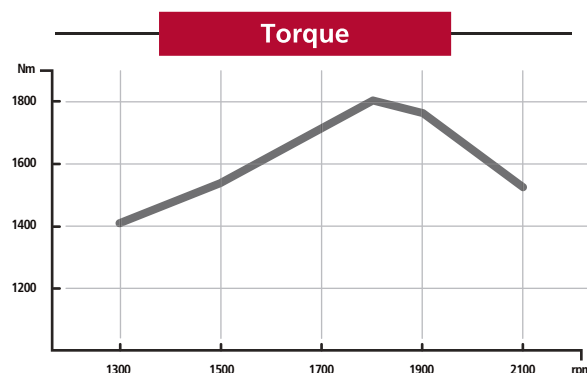
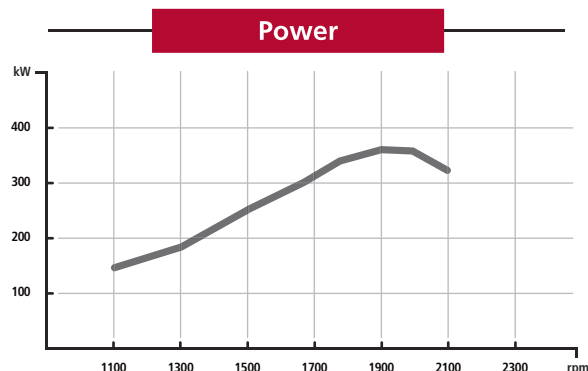
Fuel injection system

All 7 cylinder 3rd Generation series engines are implemented with Common Rail fuel injection system. Supplier of the components and basic software for CR system is Robert Bosch GmbH, while customized program design and CAN bus communication software are developed and applied by AGCO Sisu Power. The CR system allows substantially higher injection pressures than conventional, mechanical systems.

3rd Generation electronic engine control system

3rd Generation series Common Rail engines feature the SisuTronic EEM3, a third generation electronics control system based on years of development and experience in the field. This system phases injections up to five stages during one combustion process.

AGCO SISU POWER
3rd Generation Series
engines have durability,
robust construction,
and reliability.



98 CTA SCR

All curves are examples of existing customer applications

ISO 14396

No Compromises

Increased Power Reduced Emissions Improved Fuel Economy



3rd Generation Series 7-Cylinder Diesel Engine

ENGINE TYPE	98 CTA SCR
Rated power (kw)	250 - 350
Nominal speed (rpm)	2200
Rated torque (Nm)	1400 - 1800
At speed (rpm)	1500
Number of cylinders	7
Displacement (Litres)	9,8
Cylinder bore (mm)	111
Stroke (mm)	145
Rotation direction (seen from flywheel end)	CCW
Aspiration	Turbocharged and charged air cooled
Type of intercooler	Air to air
Emission certification	EU Stage 3 A / EPA Tier III
Injection system	Common rail

ENGINE TYPE	Dimensions mm			Dry Weight kg
	A	B	C	
98 CTA	1450	640	1060	790

