



AGCO SISU POWER  
FI-37240 Linnavuori, Nokia  
FINLAND



Dealer:

**AGCO SISU POWER**  
Remanufactured Engine  
*No Compromises*



## The History of AGCO SISU POWER

Finnish Ministry of Defence 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 50,000<sup>th</sup> diesel engine.

Engine size continues to grow to meet the demands of big combine harvesters and tractors. A 7.4 litre, six-cylinder engine is introduced in 1985.

Engine power continues to grow through the 90s, including an 8.4 litre, 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 litre – 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.

## AGCO SISU POWER Remanufactured Engine - *No Compromises*

AGCO SISU POWER has made diesel engines at its plant in Linnavuori in the town of Nokia (Finland) for more than 60 years. The production technology of this modern facility was completely renovated in 2005-2007.



Engine assembly in 50's

The acquisition of AGCO SISU POWER (former Sisu Diesel) made by AGCO Corporation and the associated investments of tens of millions of euros have made AGCO SISU POWER one of the world's leading manufacturers of diesel engines. In 2008 Sisu Diesel was re-branded AGCO SISU POWER.



Former SisuDiesel is now AGCO SISU POWER

The plant manufactures more than 30,000 diesel engines annually and has approx. 680 employees.

AGCO SISU POWER supplies engines to many of the world's leading manufacturers of tractors and other farm machinery. It is also the engine of choice for a large number of other applications around the world.

AGCO SISU POWER is a leader in engine technology; its 4th Generation 3B emission engines which meet the latest European and North American emission standards, are excellent proof of this. AGCO SISU POWER has always taken environmental concerns to heart, which is why the engines can also use environmentally friendly biofuels.

AGCO SISU POWER engines have always been well known from reliability and durability. Even though at some point the heart of your machinery may need an overhaul or repair, then AGCO SISU POWER is ready to take care of you and can offer, through years of manufacturing experience a wide range of options to put your machinery back to work.

The AGCO SISU POWER range of Remanufactured engines are designed in response to customer demands to minimize downtime and provide the customer a low-cost repair alternative.

**These engines are fully REMANUFACTURED by original manufacturer AGCO SISU POWER and should not be confused with lower quality REPAIR engines that are sometimes available on the market.**

**Regardless of the condition, every engine undergoes the same stringent quality specifications and approved OEM remanufacturing process:**

- Stripping to sub-components
- Thorough cleansing of all pieces
- Replacement of key items (bearings, seals, gaskets, torsion bolts)
- Crack testing of all heavy metal items to check for damage
- Fuel injection system fully overhauled
- Turbo overhauled
- Re-build to 'as new' factory conditions
- Dyno-testing as per original engine.



Fully automatic engine block machining



AGCO SISU POWER factory at Nokia, Finland



All Remanufactured engines updated to meet current engine specifications

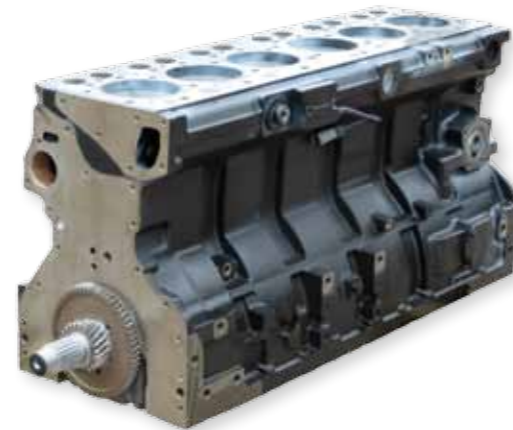


Engine testdrive laboratory

AGCO SISU POWER can provide 3 stages of Remanufactured engines; short engines, long engines and complete engines.

### Short Engine

- Cylinder block
- Cylinder liners
- Pistons and connecting rods
- Crankshaft
- Bearings
- Oil pressure regulating valve



### Long Engine

Short engine specification plus,

- Camshaft with valve tappets
- Cylinder head with valves
- Valve mechanism
- Valve cover
- Timing gears
- Gear housing
- Belt pulley / Vibration damper
- Oil pump and suction pipe
- Oil sump (transport cover)
- Counterbalance unit (4 cyl. engines)



### Complete Engine

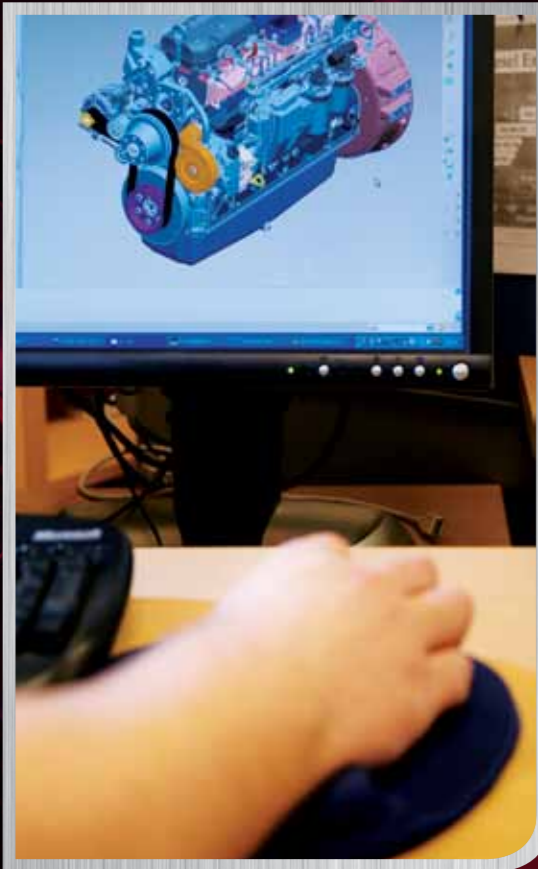
Ready for use

- Updated according to latest engineering modification
- Fully equipped, according to the application
- Test-run engine



### Key Features and Benefits

- **All engines are built by original manufacturer**
  - Latest quality specifications using only genuine OEM parts and approved OEM remanufacturing processes
  - Real peace of mind
- **All items checked thoroughly part by part**
  - By highly skilled and experienced engineers
- **Test run (complete engines) with same parameters as new engine**
  - Test run results recorded
- **Quick and flexible delivery time**
  - Minimize downtime
- **Competitive pricing**
  - Provides known repair costs up front
  - Price includes testing, only possible by the manufacturer.
- **Genuine Remanufactured unit**
  - Credit from old engine core
- **Exactly the same warranty period as a new engine**



## Meeting the demands of off-road applications

No compromises are made in the development of AGCO SISU POWER engines. The products are designed to deliver the utmost reliability with long engine life spans. Low running costs, high levels of power and torque, as well as low noise levels are built into every product. AGCO SISU POWER's intensive R&D operations are further enhanced by a broad network of technology partners.

Environmental friendliness is the cornerstone of AGCO SISU POWER's R&D operations. Sustainable development is sought in all areas and decisions are made with respect to environmental values. AGCO SISU POWER engines comply with the latest emissions regulations in EU and USA. Development work is carried out with a broad vision looking into the future.

AGCO SISU POWER engines have been designed for an extreme range of climates and conditions – from the blistering heat of South America to the harsh winters in Northern Europe. Each engine is customized to optimize the working conditions and power needs of the customer's application.



## Engine configuration table

| Major Components                                  | Complete Engine | Long Block          | Short Block |
|---|-----------------|---------------------|-------------|
| Cylinder Block                                    | •               | •                   | •           |
| Crankshaft  | •               | •                   | •           |
| Connecting Rods                                   | •               | •                   | •           |
| Pistons   | •               | •                   | •           |
| Bearings  | •               | •                   | •           |
| Oil pressure regulating valve                     | •               | •                   | •           |
| Camshaft  | •               | •                   |             |
| Gear Housing                                      | •               | •                   |             |
| Timing Gears                                      | •               | •                   |             |
| Cylinder Head Assembly                            | •               | •                   |             |
| Rocker Arm Assembly                               | •               | •                   |             |
| Valve mechanism                                   | •               | •                   |             |
| Valve Cover                                       | •               | •                   |             |
| Belt pulley / Vibration dampener                  | •               | •                   |             |
| Counterbalance Unit (4 cyl.engines)               | •               | •                   |             |
| Fuel Package (Pump, Lines, Nozzles, & Filter)     | •               |                     |             |
| Aftercooler, Turbocharger a Appropriate for Model | •               |                     |             |
| Intake & Exhaust Manifolds                        | •               |                     |             |
| <b>Pumps &amp; Accessories</b>                    |                 |                     |             |
| Oil Pump Assembly                                 | •               | •                   |             |
| Oil Cooler  | •               |                     |             |
| Oil Sump  | •               | • (transport cover) |             |
| Oil Filter  | •               |                     |             |
| Water Pump  | •               |                     |             |
| <b>Paint</b>                                      |                 |                     |             |
| Painted with 2-component colour                   | •               | •                   | •           |
| <b>Test-Run</b>                                   |                 |                     |             |
|   | •               |                     |             |

