



AGCO SISU POWER engines have durability, robust construction, and reliability.

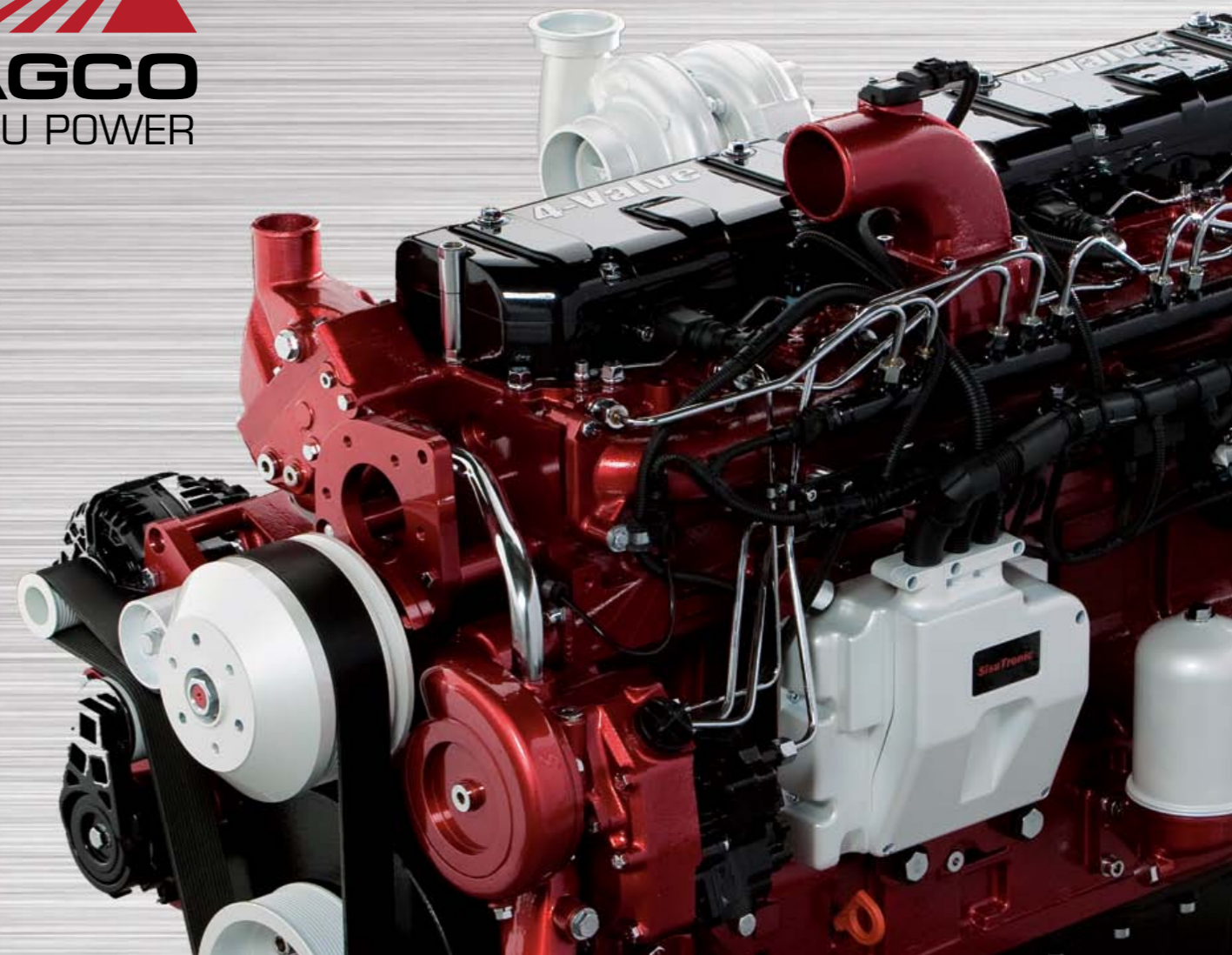
**AGCO Sisu Power engines are designed for demanding machinery applications. Robust construction, durability, reliability and strong torque are features the AGCO SISU POWER engines are famous for throughout the years. Continuous research and development has contributed in significant improvements in combustion process of this engine series. These technically essential changes further strengthen the best properties of these engines.**

**Increased power density – reduced gas and noise emissions**

These engines fulfil the European Stage 2 emission requirements. Solutions used for reducing emissions have simultaneously enabled the increase of power density and torque level while maintaining good fuel economy. Reduction in combustion noise has been achieved by the use of pilot injection. Also the new gear design and profile of timing gears introduced in Citius series engines essentially reduces the mechanical noise. Four valve cylinder head configuration is standard on electronically controlled Common Rail engines.



**AGCO SISU POWER**  
Generating set applications



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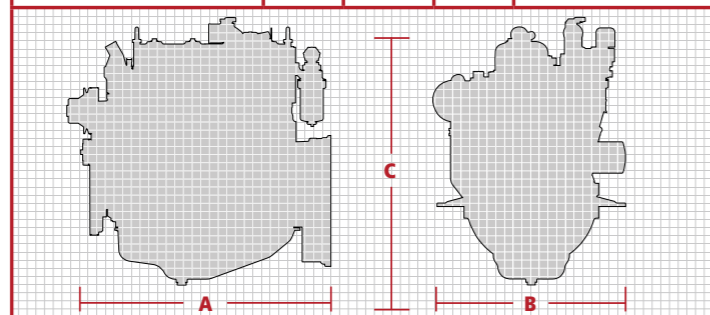
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**No Compromises**

**Increased Power Reduced Emissions Improved Fuel Economy**

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

| ENGINE TYPE | Dimensions mm |      |      | Dry Weight kg |
|-------------|---------------|------|------|---------------|
|             | A             | B    | C    |               |
| 33 DTG      | 765           | 550  | 750  | 330           |
| 49 DTG      | 1340          | 750  | 1130 | 500           |
| 49 DTAG     | 1420          | 950  | 1240 | 500           |
| 49CTAG      | 1420          | 950  | 1240 | 530           |
| 74 DTG      | 1580          | 1100 | 1350 | 725           |
| 74 DTAG     | 1580          | 1100 | 1350 | 725           |
| 74 CTAG     | 1580          | 1100 | 1350 | 775           |
| 84 CTAG     | 1610          | 1100 | 1280 | 850           |
| 98 CTAG     | 1730          | 1100 | 1280 | 970           |



Dimensions only for reference, not for installation specifications

### Non-emission certified

| Engine Type                | 33 DTG            | 49 DTG | 74 DTG | 49 DTAG | 74 DTAG |
|----------------------------|-------------------|--------|--------|---------|---------|
| PRP (kW) / 1500 rpm        | 55                | 82     | 136    | 105     | 182     |
| LTP (kW) / 1500 rpm        | 61                | 90     | 150    | 116     | 200     |
| Number of cylinders        | 3                 | 4      | 6      | 4       | 6       |
| Displacement (litres)      | 3,3               | 4,9    | 7,4    | 4,9     | 7,4     |
| Cylinder bore (mm)         | 108               | 108    | 108    | 108     | 108     |
| Stroke (mm)                | 120               | 134    | 134    | 134     | 134     |
| Rotation                   | CCW               | CCW    | CCW    | CCW     | CCW     |
| Aspiration                 | TC                |        |        | TC, CAC |         |
| Injection system           | Rotary mechanical |        |        |         |         |
| Governor system            | Mechanical        |        |        |         |         |
| Fuel consumption l/h (PRP) |                   |        |        |         |         |
| 100% Load                  | 14,4              | 26,1   | 33,8   | 28,5    | 44,7    |
| 75% Load                   | 10,8              | 20,2   | 26,3   | 22,4    | 34,6    |
| 50% Load                   | 7,5               | 14,4   | 17,8   | 16,2    | 22,9    |
| 25% Load                   | 4,5               | 8,0    | 10,3   | 9,0     | 12,1    |

Prime power PRP: corresponding to ISO 3046 for continuous operation at variable load without time limitation, 10% overload capability

Standby power LTP: for continuous operation at variable load, max power limitation 1 hour every 12 hours / 300 h per year

### Fuel injection system

C series genset 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. D series engines run with reliable Stanadyne DB series injection pump and mechanical governor. These engines are, naturally, based on the same robust engine design as those with higher ratings.



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

### Third generation electronic engine control system, SisuTronic EEM3

Citius series Common Rail engines feature a state-of-the-art, third generation control electronics based on years of development and application experience in the field. The electronic control system developed for the CR injection system enables also the phasing of injections upto five stages during one and same combustion process. Load acceptance of electronically controlled engines is outstanding.

### Certified to emission regulation EU 97/68/EC Stage 2

| Engine Type                | 49 DTG            | 49 DTAG | 74 DTAG | 49 CTAG                     | 74 CTAG | 84 CTAG | 98 CTAG |
|----------------------------|-------------------|---------|---------|-----------------------------|---------|---------|---------|
| PRP (kW) / 1500 rpm        | 74                | 95      | 146     | 116                         | 182     | 250     | 300     |
| LTP (kW) / 1500 rpm        | 81                | 103     | 163     | 128                         | 200     | 275     | 330     |
| Number of cylinders        | 4                 | 4       | 6       | 4                           | 6       | 6       | 7       |
| Displacement (litres)      | 4,9               | 4,9     | 7,4     | 4,9                         | 7,4     | 8,4     | 9,8     |
| Cylinder bore (mm)         | 108               | 108     | 108     | 108                         | 108     | 111     | 111     |
| Stroke (mm)                | 134               | 134     | 134     | 134                         | 134     | 145     | 145     |
| Rotation                   | CCW               | CCW     | CCW     | CCW                         | CCW     | CCW     | CCW     |
| Aspiration                 | TC                | TC, CAC |         |                             |         |         |         |
| Injection system           | Rotary mechanical |         |         | Common rail                 |         |         |         |
| Governor system            | Mechanical        |         |         | Electronic. SisuTronic EEM3 |         |         |         |
| Fuel consumption l/h (PRP) |                   |         |         |                             |         |         |         |
| 100% Load                  | 19,1              | 24,0    | 35,8    | 29,2                        | 43,4    | 59,3    | 71,1    |
| 75% Load                   | 14,8              | 18,4    | 27,9    | 21,9                        | 39,4    | 45,7    | 54,9    |
| 50% Load                   | 10,2              | 13,0    | 19,6    | 15,1                        | 27,0    | 31,5    | 37,8    |
| 25% Load                   | 5,8               | 7,1     | 11,0    | 7,9                         | 14,0    | 15,5    | 18,6    |