AGCO SISU POWER

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.

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Generating set applications





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AGCO Your Agriculture Company

No Compromises

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

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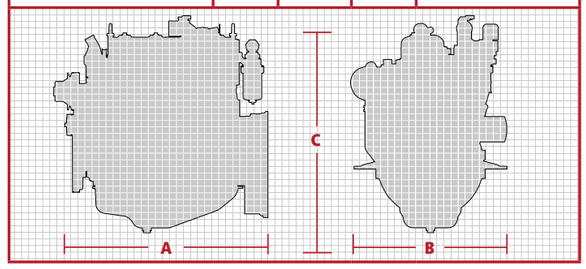
Generating set applications

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

ENGINE TYPE	Dimensions mm A	B	C	Dry Weight kg
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

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

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.

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.

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

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