# **JCB** POWER SYSTEMS

## KEY FACTS

Efficient combustion process has lead to minimum aftertreatment requirements

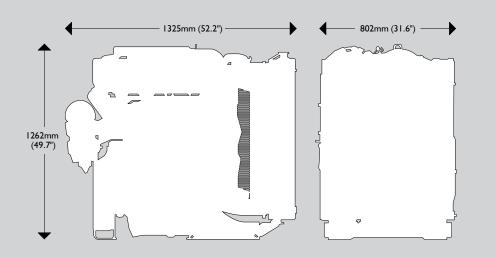
Heavy duty engine with common customer installation interface points across the product family

Supported by Global Distributor and Dealer Network

GENERAL TECHNICAL DATA		
Model		448 Stage V
Maximum rating (gross intermittent)	kW (hp)	129 (173)
Thermodynamic cycle		Diesel 4 stroke
Aspiration		TCA
Arrangement		4 Cylinder
Emissions level		Stage V
Bore	mm (in)	106 (3.17)
Stroke	mm (in)	2(4.4 )
Total displacement	cm <sup>3</sup> (in <sup>3</sup> )	4765.4
Valves per cylinder		4
Injection system		Common Rail
Cooling		Liquid
Direction of rotation (viewed from crank nose)		Clockwise
Dry weight	kg (lbs)	775 (1708) Exc. DEF Tank
Rated speed	rpm	2200
Peak torque	Nm (lb-ft)	690 (509)
Peak torque speed	rpm	1 500
Maximum no load governed speed	rpm	2450
Nominal idling speed	rpm	850
Minimum starting temperature without auxiliaries	°C (°F)	-12 (10.4)
Gradability - continuous	degrees	35
Gradability - intermittent	degrees	45



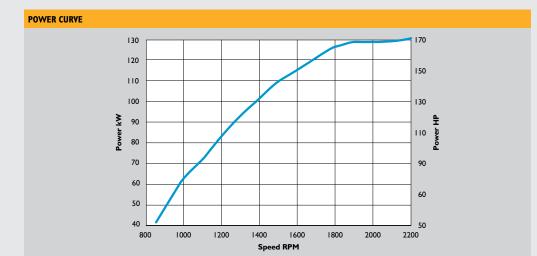
### DIMENSIONS





430





Speed RPM									
80	0 10	00 12	200 14	00 16	81 00	00 20	00 22	.00	
400		[						290	
								310	
450	•								
500								330	
								350 F	lord
 550								370 4	Torque Ib-ft
600								390	
650								410	

#### EMISSIONS CONTROL SOLUTIONS

**TORQUE CURVE** 

700



#### OPTIONS

Extensive range of configuration options available - contact local JCB Power Systems distributor, or JCB Power Systems sales and applications department for availability and configuration options. For more information on purchasing a JCB Engine or configuration of a bespoke product for your requirements contact a JCB Power Systems distributor.

\*Orientation from flywheel.

Finish

STANDARD CONFIGURATION

Flywheel housing

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F sensor

SAE3

Lacquered



Intake manifold location	Left hand forward*
Exhaust manifold / turbocharger location	Right hand rearward*
Turbocharger	Electronic Wastegate controlled
Fan drive ratios	0.85:1, 1:1, 1.16:1, 1.25:1, 1.37:1
Distance between fan - crankshaft centres mr	n 262 or 356
Fuel filter	Engine mounted
Fuel lift pump	Pre-filter with primary pump & WIF sense
Oil filter	Single, vertical - LHS*
Oil sump	Pressed steel
Breather system	Open
Oil cooler	LHS*
Oil filler position	Top or LHS*
Starter motor	12V, 4.2kW/24V 4kW
Alternator	12V, 95A/24V 100A
Power Take-off: Heavy Duty	60kW/205Nm(1.268:1)
Power Take-off: Light Duty	15kW/40Nm (1.625:1)

## **ENGINE SPECIFICATION SHEET**