GENERATOR

A Product of Hard Work

Powerful, transportable, versatile, reliable, durable
On every level, JCB generators have it covered

DELIVERING THE POWER YOU NEED

When we developed our generator range, we benefited from a 'clean sheet of paper' approach which meant we could take the best from the rest, combined with all the latest technological advances. The result is a comprehensive range of 19 power nodes from 8 to 600kVA, split into 4 types: 19 open generators, 19 canopy generators, 10 rental and 4 telecommunication models. A range of custom built business solutions is offered for power requirements of 860-2350kVA. All set new standards of performance and reliability.

As you would expect from JCB, the build quality is superb with each generator boasting the highest quality components, alternators and engines. A digital control panel as standard (excluding 8-13kVA), lets you programme the system to meet your own engine and power monitoring requirements, whilst remote monitoring is available through GSM technology. And of course it's all backed up by the best customer support in the business.

Compact, transportable power, wherever and whenever you need it

The whole point of a small unit is transportability; a ready power source wherever and whenever you need it. So JCB make it even easier to get mobile with a range of trailers for towing behind standard automotive vehicles. Versatility is increased making this size unit a great choice for agriculture, construction, telecomms, military and residential applications.

JCB 8-45kVA generators are built around industry-recognised internal componentry, giving superior performance and maximum reliability. At their heart is a 3- or 4-cylinder Yanmar water-cooled engine, mounted on anti vibration shock absorbers. It gives you great performance in a compact package that can fit anywhere. Also across the range, we've chosen recognised industry-leader Newage Stamford's self-exciting alternator.

Open or canopied, single or 3 phase, 50 or 60Hz frequency, plus various voltage options; this range of generators gives you a lot of options for tailoring to meet exact needs. Standard canopy units feature fork pockets and a single point lift (excluding 8-13kVA) for superb manoeuvrability. JCB CP1 and CP2 control panels are available on all units, with the exception of the 8 and 13kVA units which feature the JCB KS1 key start system. And we also offer trailer-mounted lighting towers for units from 17 to 33kVA, featuring 6 floodlights rising to a height of 9.4m.


JCB
G22QX
G22QX
LWA
82dB

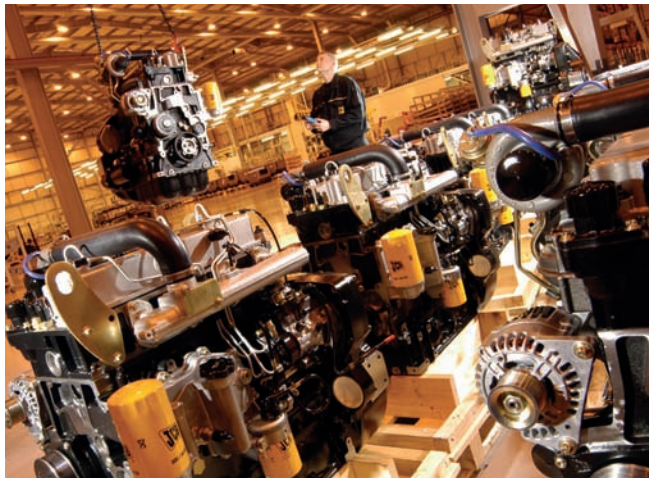
Powered by JCB world-beating innovation… the Dieselmax engine

The power behind all our 65-115kVA generators is the JCB Dieselmax engine. A typical example of JCB innovation, the world-beating, simple design of Dieselmax gives it exceptional performance, developed with heavy-duty applications in mind.

Unrivalled performance, fixed speed, with low fuel consumption and low noise. But on top of that is our clean-sheet-of-paper approach that's enabled us to look forward to 2011 and beyond, designing the base engine to meet future emissions legislation. Such foresight pays when it comes to protecting your investment well into the future.

In line with the rest of the range, these units are available in open or canopied and 50 or 60Hz variations, with a multitude of voltage options. Fork pockets and a single point lift on all canopy builds, increase mobility. The compact dimensions of the baseframe and canopy design also optimise transportability, whether by trailer or craned vehicle. These features are coupled with the compact, robust and resilient design of JCB canopies: all are designed using structural calculus programmes that make sure every component really performs under the most extreme conditions.

It really is small wonder that these units are so popular in retail settings, factory units, and the agricultural and construction sectors, especially for large infrastructure projects.




JCB
G65QX
G65QX

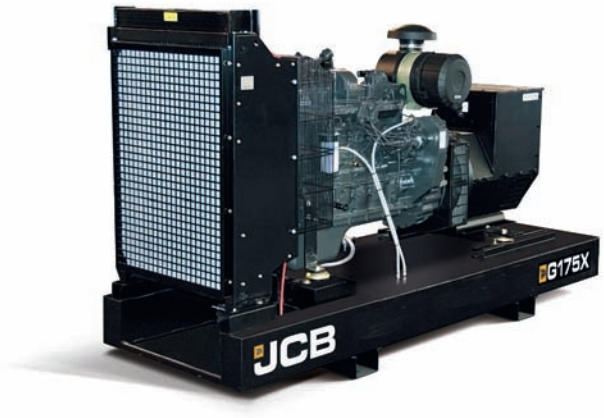
Robust and powerful with effective silencing for industrial or commercial use

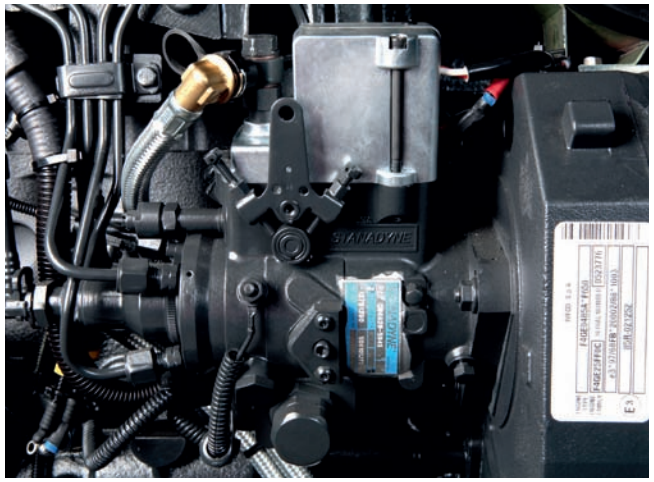
Generators do not always work on flat stable surfaces so it's crucial that they have a high structural tolerance. This is true of all JCB generators, not just within this power range, so it will come as no surprise to find that JCB generators are contained within a robust steel body.

The 144-220kVA power nodes are particularly popular and typical applications include powering tower cranes, factory units, conveyor belts and sawing machines.

As with the entire range, these units are available in both open and canopy varieties. The canopied generators are protected by sound attenuating enclosures and all soundproof units feature a residential silencer. The open range features an industrial exhaust silencer as standard, with the option of a residential silencer.

Powering our 144-220kVA models is a 6-cylinder, 4-stroke, water-cooled, electric-start high-performance Iveco engine. Standard features on this engine include an oil sump extraction kit to complement the 110% bunded tanks. Where fuel sources may be questionable, a Racor pre-fuel filter is an option. Once again, Newage Stamford provides the self-exciting alternator, and if you opt for standby on these models, you receive a battery charger and water jacket heater as standard.






G275QX
JCB
G275QX

Designed for non-stop performance… they won't let you down

Reliable operation is the main objective for anyone buying a generator. With JCB's commitment to putting customer needs at the heart of our business, of course we have developed our new range, from the smallest 8kVA to these large units, to ensure more up time through longer service intervals.

This increased operating time and minimum maintenance is a guarantee of maximum productivity and high profitability.

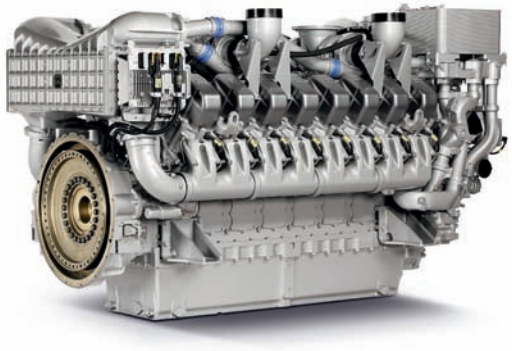
Such high levels of reliability, combined with high power and performance, puts these units in much demand, particularly within the waste and recycling industry, and for stand-by applications in hospitals, banks, factories and data logging systems.

At this larger end of the range, we use Scania engines. Long associated with good quality large engines, most notably in highway trucks and buses, Scania's industrial and marine engines have a well-established reputation for enduring reliability and dependability. The engines, either 5, 6 cylinder or V8, are easy to package in stationary units and in mobile installations. They come with 4 pole circuit breakers and a battery isolator, as standard.

As for all our generators above 13kVA, every unit features a JCB CP1 digital control panel. Combining excellent functionality with intuitive use, this allows you to operate and monitor your generator very easily.


JCB
G550QX
G550QX

Custom built to match your exact specifications



At the top end of the range, each generator is custom built for your specific needs using engines from MTU. From stand-by power for large banking corporations and supermarkets, to power stations in the developing world, these are big solutions that require real expertise.

MTU products have a superb reputation in the power generation industry. Like JCB, the company is a market leader in diesel engine construction. Add JCB's expertise and experience in planning, producing and operating everything from single gensets to entire power generating stations, and you have a powerful partnership indeed.

These bespoke, larger units have enabled power producers throughout the world to meet the urgent and evolving need for reliable, scalable, economical and environmentally-compliant generating resources. JCB offers a range of these highly engineered units in generating sets over 860kVA in either containerised or open format.

All units of this size are bespoke builds because they are usually part of a project build where the unit is actually constructed into the building that it is providing power to. In this case, the JCB Power Products team can work with you from the start to ensure the most effective solution. Alternatively these units may be utilised as part of a power plant in the developing world, in which case JCB's meticulous preparation and planning will be invaluable to your project.

Designed for individual market applications

Rental: Ranging from 20kVA up to 250kVA, JCB rental units are powered by a combination of Yanmar, JCB Dieselmax, Iveco and Scania engines coupled with Newage Stamford alternators. They are built into rental-specific sound-proofed canopies and feature high specifications as standard to reflect the diversity of rental applications and the need for transportability: digital control panels, 4 pole circuit breakers, earth leakage protection, auxiliary socket boxes (with individual breaker protection), sledging skids, fork pockets, chain draw bar, bunded chassis, single point lift, high-capacity fuel tank and a residential silencer with a rain cap.

Lighting towers: We offer 2 types of lighting tower. The LT9 is a dedicated lighting tower featuring a 9m hydraulically activated mast holding 4 spotlights each of 1000 watts and 90,000 lumens. The mast can rotate 360° providing light wherever you require. Compact and road-towable for maximum transportability, the LT9 is perfect for rental fleets and individual users alike. The VLT is a mobile trailer unit with a 9.4m lighting tower. The mast can be erected level even when the trailer is at a 45° angle and there are 4 stabiliser legs to increase stability. The trailer itself is designed to house the JCB G17QX, G22QX, G33QX and the G45QX. The VLT is adaptable and can be employed in a variety of situations, as a lighting tower or a generator.

Telecoms: Telecoms units are available from 8kVA to 22kVA featuring Yanmar engines and Newage Stamford alternators. Bespoke builds are available for 33 and 45kVA. These generators feature sound-attenuated canopies and a range of fuel tanks from 200 to 600 litres, allowing them to be operated in remote locations and left to run for days at a time. As telecommunication towers can be vulnerable to lightning strikes, the range also features a lightning surge suppressor.


G60RX
JCB
G60RX

Easy to use

Control panel is simple and intuitive to operate.

Highly efficient alarms and pre-set protections notify the operator of daily checks.

A digital control panel is standard on all generators above 13kVA, offering excellent functionality and simplicity of use.

Designed for simple serviceability

Fully bunded basetank as standard on all canopy generators throughout the range.

Generator base will hold 110% of total generator fluids (fuels, lubricants and coolants).

All service items (filters, radiator, oil change, battery) are easily accessible through large doors or dismountable panels in the bodywork.

Large doors provide comfortable access for mechanical or electrical checks.

Easy access for cleaning and a fast-draining fuel tank.

Service interval guaranteed at 400 hours, dependent upon the quality of fuel used.

Tank protected by a water separator means time between services is extended as continuous cleaning is not required.

Large fuel tanks as standard reduce the need for refilling.

Robust and durable

Compact, robust and resilient structures feature very strong framework.

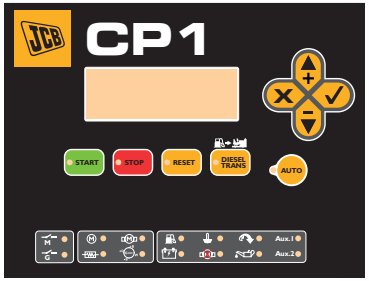
Tested using ANSYS structural calculus programmes.

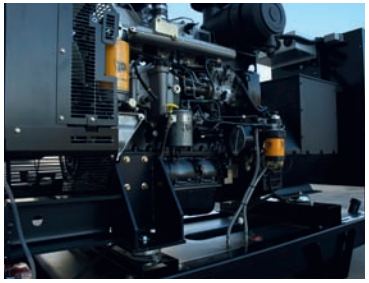
Designed to resist maximum structural stress.

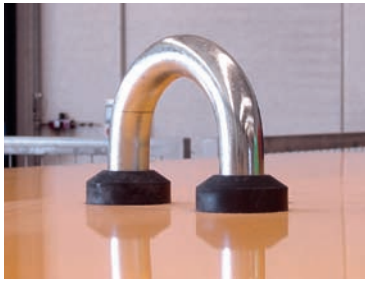
Durable paint treatments stand the wear and tear of extreme environmental conditions.

Totally watertight, sound-proof canopies feature flame-proof, heat-resistant, heavy-duty rock wool sound insulation, providing superb noise level retention.

Doors are pressure locked to ensure a watertight seal.







Cleaner, safer and quieter

Watertight bodywork ensures protection against ingress of dust and water.

Engines are compliant with 97/68/EC modified 2002/88/EC and 2004/26/EC regulations relating to gas and polluting particles emissions.

All JCB generators exceed European regulation 2000/14/EC modified 2005/88/EC.

Open units feature industrial exhaust silencing while canopy units include residential silencers, both as standard.

Designed to be easily transported

Compact designs make it easy to fit into the tightest of confines while still providing optimum performance.

Compact proportions mean optimised transportation costs.

Central lift point is standard on all canopy builds 17kVA and above.

Forklift pockets are standard on all units.

Performance and reliability

Newage Stamford alternators are used across the range.

Depending on the size requirement, Yanmar, JCB Dieselmax, Iveco, Scania and MTU engines are employed: all offer industry recognised power delivering ultimate performance.

Built using the world's most advanced technology available, JCB Dieselmax is tomorrow's engine, today.

Control panels and automatic transfer panels

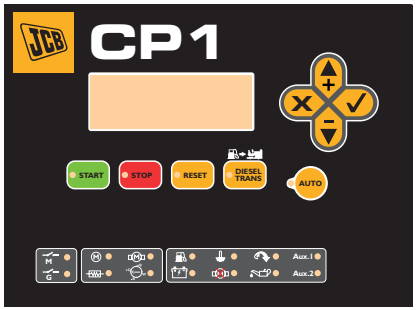
The JCB generator range offers a choice of 3 types of control panel. 2 are fully digital push-button start while the other is an analogue key start.

KS1: The KS1 control panel is standard on 8 and 13kVA generators where its compact design fits these small-size units perfectly. It incorporates a 3-position key start switch (run, stop and auto) and comes with all industry-standard alarms and shutdowns including low oil pressure, engine temperature and emergency stop shutdown. All analogue metres and gauges are separate to the controller and cover volts, amps and frequency.

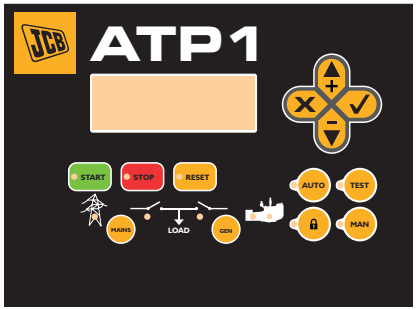
CP1/CP2: These 2 options are both digital control panels. The CP1 is standard on the entire range above 13kVA and offers complete visualisation of the generator's performance through the large LCD screen. The CP1 works in conjunction with the ATP1 (Automatic Transfer Panel) controller to allow full mains failure control. CP2 provides the combined performance of the CP1 and the ATP1 in one control panel.

Both CP1 and CP2 panels offer 99 fault recording history, and full engine and alternator alarms and shutdowns. The generators can also be remotely controlled and monitored through the control panel and GSM connection, they are also CAN/USB connectable enabling them to interface with all modern electronic engines.

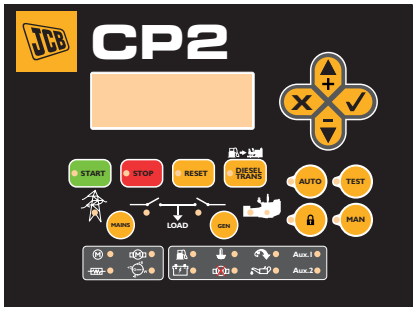
ATP1: The ATP1 is JCB's automatic mains failure offering. It's a panel that is fitted onto the automatic transfer switch and linked to the CP1 control panel, located on the generator. This provides complete monitoring of both mains and generator outputs by using the CAN/USB link. These panels start at 40A and go up to 3,200A.



CP1 works in conjunction with ATP1 automatic transfer panel



ATP1 automatic transfer panel, works with CP1 control panel



CP2 control panel complete with mains failure control

JCB Generator G8X – G600X Open

Model	50Hz				60Hz			
	Prime		Standby		Prime		Standby	
	kVA	kW	kVA	kW	kVA	kW	kVA	kW
G8X	7.8	6.2	8.6	6.9	9.3	7.5	10.2	8.2
G8X*	8.4	6.7	9.2	7.4	10	8	11.25	9
G13X	12.3	9.8	13.3	10.7	15	12	16.5	13.2
G13X*	12.8	10.3	13.8	11	15	12	17.5	14
G17X	16	12.8	17	13.6	20	16	21.2	17
G22X	20	16	22	18	25	20	28.7	23
G22X*	18	14.4	19	15.2	20	16	21.25	17
G33X	31	25	33	27	37.5	30	40	32
G33X*	25	20	26	21	27.5	22	28.75	23
G45X	41	33	45	36	50	40	52.5	42
G45X*	34	27	36	28	40	32	42.5	34
G65X	60	48	66	52.8	75	60	80	64
G90X	80	64	88	70.4	86.9	69.5	96	76.8
G115X	108	88	119	96	101	80.9	110.9	88.7
G144X	130	104	143	114	143.7	115	157.5	126
G175X	160	128	175	140	172.5	138	190	152
G220X	200	160	220	176	225	180	250	200
G275X	250	200	275	220	283	226	306	245
G330X	300	240	330	264	334	267.8	382	306
G400X	350	280	400	320	375	300	413	330
G440X	400	320	440	352	436	350	460	368
G500X	455	364	500	400	-	-	-	-
G550X	502	402	550	440	500	400	545	436
G600X	550	440	590	472	552.5	442	600	480

JCB Generator Range G8QX – G600QX Sound Attenuated

Model	50Hz				60Hz			
	Prime		Standby		Prime		Standby	
	kVA	kW	kVA	kW	kVA	kW	kVA	kW
G8QX	7.8	6.2	8.6	6.9	9.3	7.5	10.2	8.2
G8QX*	8.4	6.7	9.2	7.4	10	8	11.25	9
G13QX	12.3	9.8	13.3	10.7	15	12	16.5	13.2
G13QX*	12.8	10.3	13.8	11	15	12	17.5	14
G17QX	16	12.8	17	13.6	20	16	21.2	17
G22QX	20	16	22	18	25	20	28.7	23
G22QX*	18	14.4	19	15.2	20	16	21.25	17
G33QX	31	25	33	27	37.5	30	40	32
G33QX*	25	20	26	21	27.5	22	28.75	23
G45QX	41	33	45	36	50	40	52.5	42
G45QX*	34	27	36	28	40	32	42.5	34
G65QX	60	48	66	52.8	75	60	80	64
G90QX	80	64	88	70.4	86.9	69.5	96	76.8
G115QX	108	88	119	96	101	80.9	110.9	88.7
G144QX	130	104	143	114	143.7	115	157.5	126
G175QX	160	128	175	140	172.5	138	190	152
G220QX	200	160	220	176	225	180	250	200
G275QX	250	200	275	220	283	226	306	245
G330QX	300	240	330	264	334	267.8	382	306
G400QX	350	280	400	320	375	300	413	330
G440QX	400	320	440	352	436	350	460	368
G500QX	455	364	500	400	-	-	-	-
G550QX	502	402	550	440	500	400	545	436
G600QX	550	440	590	472	552.5	442	600	480

* Single phase 220/230/240v. All 50Hz ratings apply at 400/230v. All 60Hz ratings apply at 480/277v.
Other voltages are available: 415/240, 380/220, 220/127, 440/254, 208/120.
All ratings are at standard reference conditions in accordance with ISO 8528-1 (Barometric pressure 100kPa: ambient air temperature 25°C: relative humidity 30%)

		G8X G13X	G17X G22X	G33X G45X	G65X G90X G115X	G144X G175X G220X	G275X G330X G400X G440X	G500X G550X G600X	G8QX G13QX	G17QX G22QX	G33QX G45QX	G65QX G90QX G115QX	G144QX G175QX G220QX	G275QX G330QX G400QX G440QX	G500QX G550QX G600QX
Engine	Sump oil removal pump	–	–	–	–	–	–	–	●	●	●	●	●	●	●
	Electronic engine speed governor	–	–	–	❍	❍▲	●	●	–	–	–	❍	❍▲	●	●
	Coolant level sender	–	–	–	❍	❍▲	●	●	–	–	–	❍	❍▲	●	●
	Engine water jacket heater	●	●	●	●	●	●	●	❑	●	●	●	●	●	●
	Battery isolator	❍	❍	❍	❍	❍	●	●	❍	❍	❍	❍	❍	●	●
	Industrial exhaust silencer	●	●	●	●	●	●	●	–	–	–	–	–	–	–
	Residential exhaust silencer	❍	❍	❍	❍	❍	❍	❍	●	●	●	●	●	●	●
Alternator	Permanent magnet generator	–	–	–	❍	❍	❍	❍	–	–	–	❍	❍	❍	❍
	Anti condensation heater	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍
Control panel	KS1 Key-start panel	●	–	–	–	–	–	–	●	–	–	–	–	–	–
	CP1 Digital control panel	–	●	●	●	●	●	●	–	●	●	●	●	●	●
	CP2 Digital control panel	–	❍	❍	❍	❍	❍	❍	–	❍	❍	❍	❍	❍	❍
	Emergency stop button	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	4 Pole circuit breaker	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Earth leakage protection	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍
	Remote screen	–	❍	❍	❍	❍	❍	❍	–	❍	❍	❍	❍	❍	❍
	Battery charger	●	●	●	●	●	●	●	–	●	●	●	●	●	●
	MCB Protected socket box	–	–	–	–	–	–	–	❑	–	❍	❍	❍	❍	❍
Chassis	Single point lift	–	–	–	–	–	–	–	–	●	●	●	●	●	●
	Fork pockets	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Fully bunded 8 hour tank	–	–	–	–	–	–	–	●	●	●	●	●	●	●
	Extended run fuel tank	–	–	–	–	–	–	–	–	–	❍	❍	❍	❍	❍
	Sledging skid	–	–	–	–	–	–	–	–	❍	❍	❍	❍	❍	❍
Canopy	Emergency stop button	–	–	–	–	–	–	–	●	●	●	●	●	●	●
	Power cable outlet	–	–	–	–	–	–	–	●	●	●	●	●	●	●
Fuel system	3 Way fuel valves	–	–	–	–	–	–	–	–	❍	❍	❍	❍	❍	❍
	Racor fuel filter	–	–	❍	❍	❍	❍	❍	–	–	❍	❍	❍	❍	❍
	Manual fuel fill system	❍	❍	❍	❍	❍	❍	❍	–	–	–	–	–	❍	❍
	Electronic fuel fill system	❍	❍	❍	❍	❍	❍	❍	–	–	❍	❍	❍	❍	❍
Automatic transfer switches	ATP1	❍	❍	❍	❍	❍	❍	❍	–	❍	❍	❍	❍	❍	❍
Synchronisation	JCB Multi-sync control system*	–	–	–	–	❍	❍	❍	–	–	–	–	❍	❍	❍
Remote monitoring	GSM Remote monitoring phone&pc**	–	❍	❍	❍	❍	❍	❍	–	❍	❍	❍	❍	❍	❍
	Remote monitoring via internet	–	❍	❍	❍	❍	❍	❍	–	❍	❍	❍	❍	❍	❍
	Remote monitoring via intranet	–	❍	❍	❍	❍	❍	❍	–	❍	❍	❍	❍	❍	❍
	Local monitoring via can/usb	–	❍	❍	❍	❍	❍	❍	–	❍	❍	❍	❍	❍	❍

** Synchronisation of up to 8 generators ** Mobile Phone network required. ● Standard ❍ Optional ▲ Standard on G220X and G220QX models ❑ Only available with ATP1 – N/A*

WATER JACKET HEATER

Designed to keep the engine water warm and allow the engine block to retain starting temperature in conditions below 0°C.

BATTERY ISOLATOR

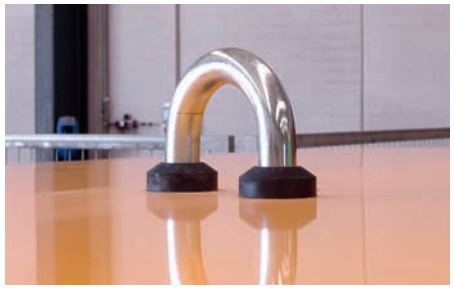
Isolates battery from the ignition to save battery power when not being used. The isolator is also used to disconnect the battery to provide additional security.

SUMP PUMP

Standard on all canopy builds, used to empty the engine's oil sump of old engine oil during servicing.

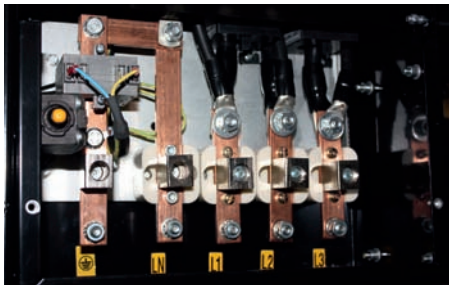
THREE WAY FUEL VALVE

A manual 3 way fuel connection system for fast and simple interchange between generator main fuel tank and external fuel supply.



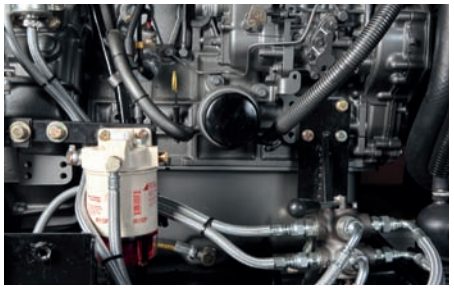
SINGLE POINT LIFT

Integrally designed into machine frame, this allows for ease of transport and manoeuvrability employing the use of craned vehicles.



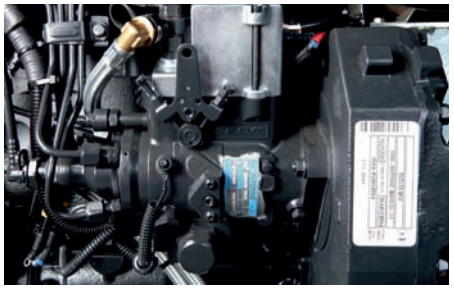
BUSBAR

Simple connections to mains output power.



RACOR FUEL FILTER

Industry accepted fuel filter protects against dirt ingress into the engine system through impure fuel.

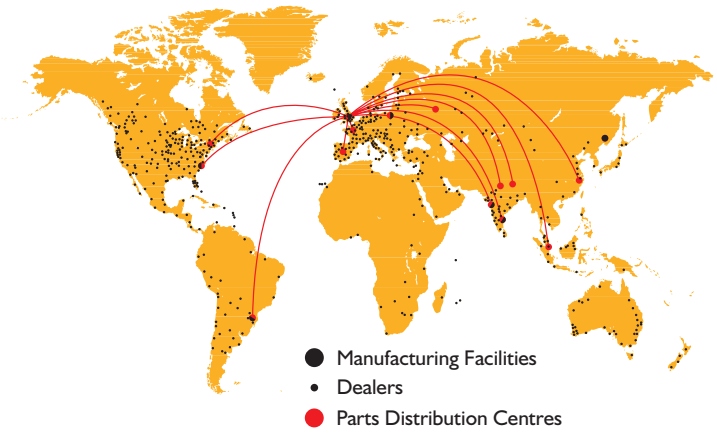


ELECTRIC SPEED GOVERNOR

Electronic management of the fuel system improves the engine response times on critical and heavy loads.

A few words about JCB

A groundbreaking, class-leading family business with a commitment to supporting our customers and protecting the environment



A family company on a global scale. JCB is no ordinary company. From the dreams of one man, Joseph Cyril Bamford, we have grown into the world's largest privately owned construction company by volume. Since 1945, the same attention to detail, passion for progress and family spirit has taken us from strength to strength.

Nowadays JCB operates across all five continents, manufacturing at 17 factories in the UK, Brazil, Germany, China, North America and India. With 1,500 dealerships and depots selling and supporting our products in over 150 countries, we are one of the top three manufacturers of construction equipment with some of the finest engineering facilities in the world.

A history of world-class innovation. Our business has always been driven by innovation, using only the most advanced technology, components and processes, meticulous design and rigorous testing. Evidence of this doesn't come much more powerful than our revolutionary JCB Dieselmax engine. Having grabbed the headlines when it smashed the world diesel land-speed record at 350.092mph, it is now providing our customers with tomorrow's performance today.

Sustainability in all we do. As a manufacturer of working machinery, operating in both established and emerging markets, we accept the challenge of helping to deliver economic and environmental sustainability.

Product innovations that provide the right solutions to our customers have been a vital part of our history and will be key to our sustainable future. But in addition to developing cleaner and more efficient machines, we have a commitment to ensuring our manufacturing facilities meet the highest environmental standards.

A commitment to our customers that goes on and on. That's a fact we remind ourselves of constantly, and it's the reason our customers are at the heart of everything we do. Whatever a customer needs, we make it our mission to provide world-class support and 100% satisfaction.

At the heart of this is a dedication to minimising machine downtime. So our state-of-the-art World Parts Centre dispatches more than a million genuine parts and attachments every week, with an 'Anywhere in 24 hours' strategy. Our JCB-trained technicians provide excellent, expert customer care, whether it's routine servicing or something more urgent. And we are constantly looking at new, innovative ways to help you get the most out of your machine.


JCB
LIVE LINK

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Download the very latest information on this product range at: www.jcb.com

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