

Barloworld Equipment launches NEXT GENERATION 20 TON CAT® EXCAVATORS

On 26 July 2018 Barloworld Equipment officially launched the Next Generation of Cat 20-ton excavators that do exactly what customers want. They perform better at lower cost, assisted by tried and tested technologies that used to be 'on the wish list' but are now standard equipment.

The three new excavators in the Next Generation line-up, the Cat 320 GC, 320 and 323, are designed to give machine owners more and better options to suit different sites, conditions and operating requirements. "This is not just a model upgrade but a new range of smart, savvy and high performing machines that transform the industry and change the game," says Vasco Santos, Barloworld Equipment Executive Head: Construction, Rental & Used.

"There are differences from top to bottom, including owning and operating costs, productivity, safety, interface, operator comfort and more."

The Next Generation Cat Excavators have been developed to provide the best in class fuel burn, lowest owning and operating cost and user-friendly technology to boost productivity.

"Simply put, operators will deliver more work with less time and money spent."

Santos explains that the Next Generation Cat Excavators combine three compelling characteristics that talk to the needs of all construction equipment owners.

They offer up to 45% increased operator efficiency, up to 25% reduced fuel consumption and up to 15% lower maintenance costs than previous Cat 20-ton excavators.

"It's also quite exciting to have a machine that can start without a key, but rather a simple key code or a smart phone app. Up to 50 operator profiles can be created on one machine."

Efficiency is increased significantly in the Cat 320 and 323 with the industry's highest level of standard factory-equipped technology, including Cat Grade with 2D, Grade with Assist and Payload. "The 2D dig assist technology is not new to the industry, but the benefit to our customers is that our 2D system is factory fitted and comes standard with the Cat Payload system, enabling customers to determine the right amount of material in a truck," explains Santos.

All Next Generation Excavators feature a precise combination of lower engine speed and a large hydraulic pump that delivers performance while burning less fuel.

Extended maintenance intervals increase uptime and reduce costs across the line-up.

The new Cat 320 is designed for medium-to heavy-duty applications, while the 323 is equipped for heavy-duty work with the most power and lift capacity in the line-up. The Cat 320 GC balances high reliability with low cost-per-hour performance in low- to medium-duty applications.

Efficiency boosting technology

The new Cat 320 and 323 are equipped with integrated Cat Connect Technology, which increases operating efficiency by up to 45% over traditional grading operations.

This includes the standard Cat Grade with 2D system which helps operators reach desired grade quickly and accurately by providing guidance for depth, slope and

Engine	320 GC	320	323
	Cat C4.4 ACERT™	Cat C7.1 ACERT™	Cat C7.1 ACERT™
Gross Power, kW (ISO 14396)	107	117	117
Operating weight, kg	20 500	22 000	24 500
Boom	Reach 5,7m	Reach 5,7m	Reach 5,7m
Stick	Reach 2,5m	Reach 2,5m	Reach 2,5m
Bucket	1m ³	1,19m ³	1,3m ³





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horizontal distance to grade. Operators cut and fill to exact specifications and no grade checkers are needed.

The system's E-fence feature enables the excavator to work safely under structures or near traffic by preventing any part of the machine from moving outside operator-defined set points.

The standard Cat Grade with Assist function automates boom, stick and bucket movements, so operators stay on grade simply and effortlessly by setting the depth and slope into the monitor and activating single-lever digging.

The standard Cat Payload is also integrated in the Cat 320 and 323 at the factory to deliver precise load targets and increase loading efficiency. On-the-go weighing and real-time payload estimates avoid truck over/under-loading.

Cat LINK™ hardware is standard, so that machine owners can simply link up the software to connect jobsites to the office and provide machine-critical operating information.

Fuel savings

A Cat C4.4 ACERT engine provides a duty-matched power rating of 107 kW for the 320 GC, while C7.1 ACERT engines give the 320

and 323 models 117 kW of power. The Next Generation Excavators consume up to 25% less fuel than the previous models with new Smart Mode operation which automatically matches engine and hydraulic power to digging conditions, optimising both fuel consumption and performance.

Engine speed is automatically lowered when there is no hydraulic demand, further reducing fuel consumption.

The new cooling system uses multiple electric fans which independently monitor hydraulic oil, radiator and air-to-air aftercooler temperatures to deliver the exact airflow required. The hydraulic system in all three new models features a new main control valve that eliminates the need for pilot lines, reduces pressure losses and lowers fuel consumption.

Fewer hydraulic lines on the excavators reduces the oil required by 20%, resulting in lower long-term operating costs.

Maintenance costs

Maintenance intervals have been extended and better synchronised in the Next Generation Excavators. The new Cat hydraulic return filter has higher dirt capacity and a 3 000-hour service life, 50% longer than previous filters.

A new Cat air filter with integrated pre-cleaner and primary and secondary filters extends service life to 1 000 hours, a 100% increase over previous designs, while a new fuel tank cap filter extends service life to 2 000 hours. Each of the three fuel system filters has a 500-hour service interval.

Together these improvements reduce maintenance costs by up to 15% compared to the previous models.

All daily maintenance checks for engine oil, fuel water separator, fuel tank water and sediment, and cooling system level are performed from ground level for easy access and safety. Consolidated filter locations reduce service time.

New cab

To enhance productivity, safety and comfort, all Next Generation Cat Excavator cabs come standard with keyless push-button start, large 203 mm touchscreen monitor with jog dial keys for control, and sound-suppressed rollover protective structures (ROPS). Joystick buttons programmable for response and pattern allow the operator to dial in productivity settings.

New advanced viscous mounts reduce cab vibration by up to 50% over previous models.

Operators will find the new cab spacious with a low-profile design and large front, rear and side windows to enhance visibility. Optional 360-degree visibility can be provided by multiple machine-mounted cameras that combine images to improve sight-lines in all directions for the operator.

Automatic climate control and a Bluetooth integrated radio with USB ports for connecting and charging phones provide comfort and convenience. ■

