CONTINUOUS POWER GENERATION FOR YOUR BUSINESS

With Mantrac, you can choose medium speed genset units from the industry's largest range, for reliable, non-stop power generation at lower costs than highspeed alternatives.



MANTRAC MANTRAC

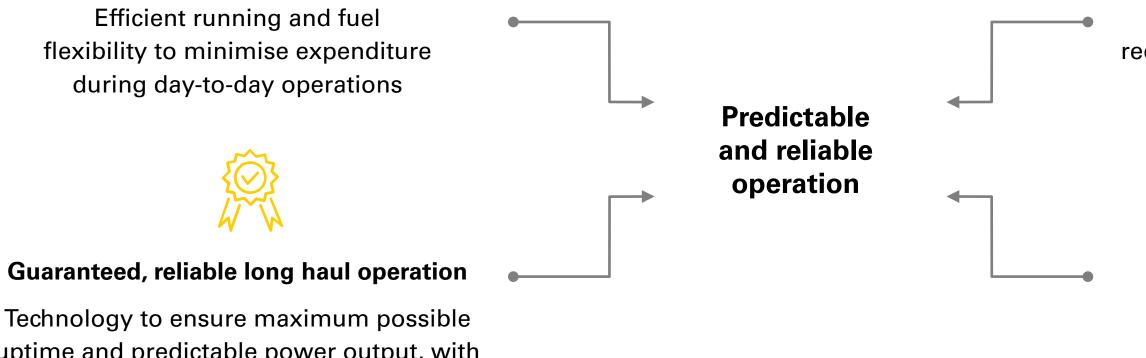
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NON-STOP POWER FOR NON-STOP OPERATIONS

An ideal medium-speed genset solution should meet all your requirements for predictable and reliable operation.



Lowest possible ownership costs



uptime and predictable power output, with proven success across applications



Customisability

Configurability for your requirements, whether you require quieter operation or higher efficiency



Parts and service availability

A readily available product range for quick access during service and repairs

PROVEN PERFORMANCE ACROSS CONFIGURATIONS

The medium-speed category is the most powerful in the Cat® genset range. These systems are more cost-effective, providing higher fuel efficiency and output compared to other speeds.

Unmatched operations

Fuel flexibility

- Diesel
- Heavy fuel oils
- Dual fuel
- Natural gas
- Biogas

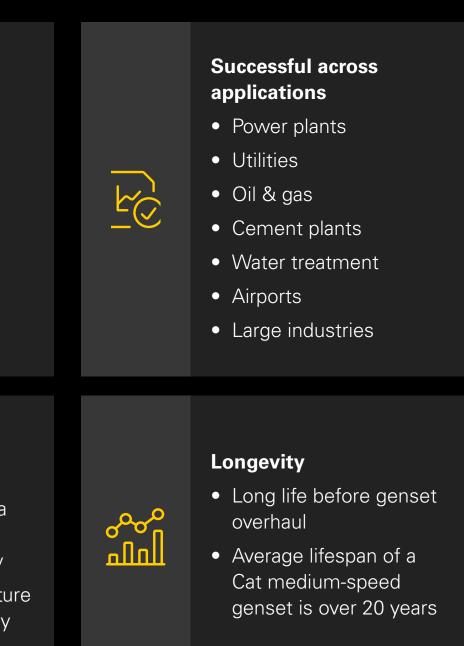
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- Coal gas
- Coke oven gas

Wide range

- Manufactured to specifications, with a dedicated mediumspeed genset facility
- Low capital expenditure or high fuel efficiency





CUSTOMISED SOLUTIONS TO KEEP THE POWER ON

Whatever output requirements you are looking for, there is a Cat medium-speed genset optimised for it. With the industry's largest range, we can configure tailormade solutions.

Tailor-made solutions

Speed and frequency

- 500, 600, 750 and
 1,000 rpm
- 50 Hz or 60 Hz

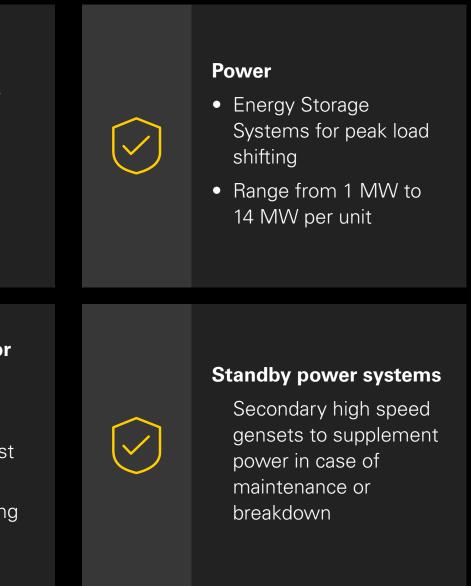
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Dedicated systems for

- Lubricating oil
- Engine coolant
- Air filters and exhaust gas systems
- Starting and mounting systems





POWERFUL PARTNERSHIP, POWERFUL OPERATIONS

We maximise equipment lifespan for optimal uptime and operational ease. You can rely on us as a partner throughout the lifetime of your medium-speed genset.



Support & service

Installation:

- Modular Power Plant (MPP)
- Technical supervision
- Full plant balancing including transformers and switch gears

Quick maintenance/repair:

- Easily accessible service and delivery with local Catcertified service teams
- Periodic maintenance contracts



Consulting

Site grading:

• Accounting for all site conditions (altitude, temperature, humidity)

Custom sizing:

- Looking at your space to provide the optimal genset and containment solution
- Using multiple gensets in a series as a cheaper alternative to a single genset with high output

TSI

Financing

Minimise upfront costs:

• Take advantage of credit and financing



Warranty support

Warranty support:

- 12–18 months warranty on gensets
- Performance warranties may be applicable, depending on the project

EXCELLING IN EFFICIENCY, RELIABILITY, AND COST SAVINGS

The advantage of a Cat medium-speed genset over a high-speed genset is clear.

This data from a Mantrac project in Egypt shows medium-speed gensets offer better overall return, with a lower lifecycle cost and space utilisation, compared to a high-speed genset for a 10 MW plant.

Total electrical power (ekW) Number of units needed **Total Capital** Expenditure (M USD) 3

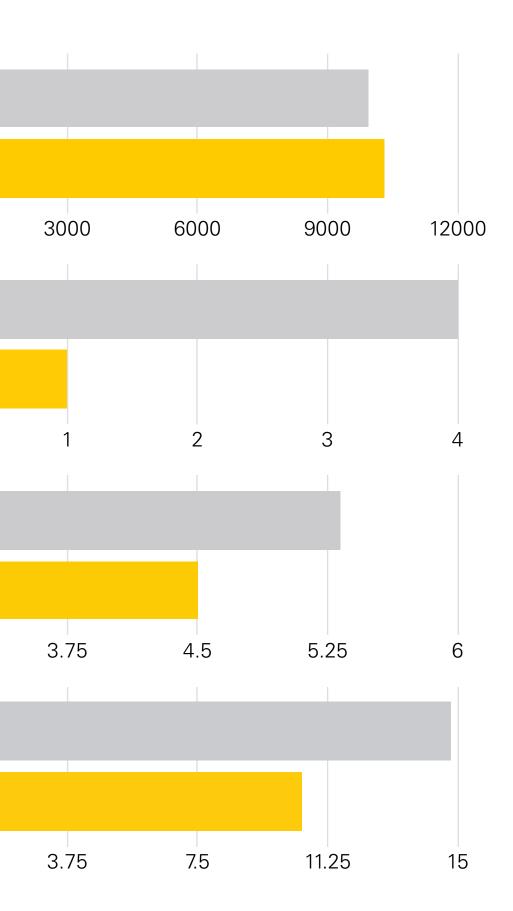
> Total Lifecycle Cost at 20 years, without fuel (M USD)

Cat G20CM34

Medium speed (750rpm)

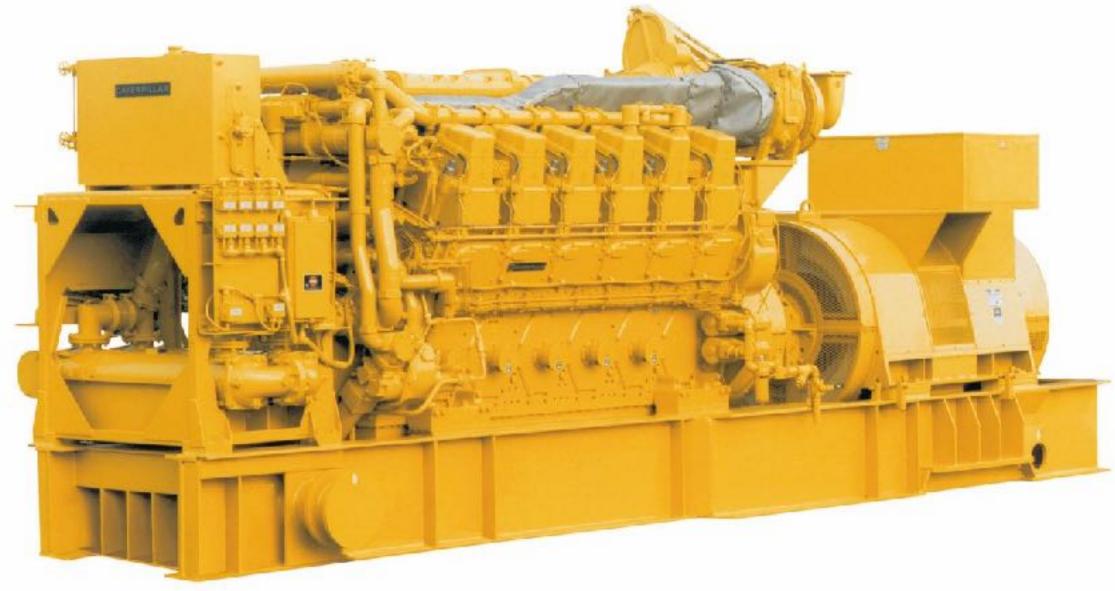
Cat 3520 HR

High speed (1500rpm)



A MANTRAC CASE STUDY

BUILDING A STRONG FOUNDATION FOR CEMENT PRODUCTION



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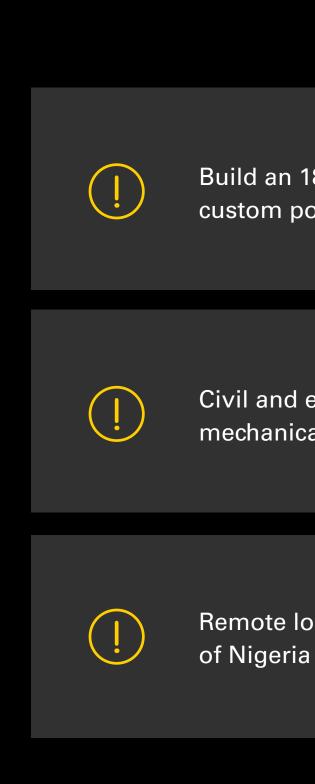


MANTRAC CAT

A MANTRAC CASE STUDY

BUILDING A STRONG FOUNDATION FOR CEMENT PRODUCTION

BUA Group entrusted Mantrac with starting from scratch on a new facility in Nigeria, owned by Heidelberg Cement. Here's how we approached the project and found the best solution.



BUA GROUP: NORTHWEST OF NIGERIA

Challenges

Build an 18 MW custom power plant

Civil and electromechanical work

Remote location in north-west

A MANTRAC CASE STUDY

BUILDING A STRONG FOUNDATION FOR CEMENT PRODUCTION

Solution

- Provide four 3616 HFO capable medium-speed gensets
- Install, supervise and provide maintenance with professional Mantrac personnel
- Make room for upgradability for growing power needs in the future
- Bring in all required talent and resources from other locations

\$3 billion USD

Amount of annual turnover facilitated by the new power solution

Growth enablement

Three additional 3616 medium-speed gensets for added power



Impact

Reduction in units

Higher power rating units were removed

Fuel savings

HFO capability facilitated the reduction in fuel consumption

RELATED ASSETS

EXPLORE OUR RANGR OF MEDIUM SPEED POWER SOLUTIONS

COMMERCIAL MATERIAL

Get an overview of the entire medium speed range by viewing our brochures and videos.

Discover Now

PROJECT REFERENCES

See how Mantrac has successfully delivered power solutions for customers across applications.



TECHNICAL DOCUMENTS

Understand the types of medium speed solutions that are ideal for your specific operational needs.



PRODUCT SPECIFICATIONS

Get all the details on prospective medium speed power solutions for your operations.



