



## PRESS RELEASE:

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### WinGD's biggest X-DF dual-fuel engine awarded GUINNESS WORLD RECORDS® power title

Since the first 12X92DF engine was built in 2019, WinGD has been confident in calling it the world's most powerful dual-fuel engine. Now it's official. The engine series has been awarded the GUINNESS WORLD RECORDS for the most powerful Otto-cycle engine ever built.

In tests carried out at engine builder CSSC-MES Diesel Co (CSSC-CMD) and verified by GUINNESS WORLD RECORDS, for the official record title, '**Most powerful marine IC engine (otto cycle) commercially available**', the 2,140-tonne engine demonstrated a power of 63,840 kW at a speed of 80 rpm. The super-sized engines fueled from 18,600 cubic metre (cbm) tanks, containing enough liquefied natural gas (LNG) to sail complete Asia to Europe round trip, will propel nine 23,000 TEU containerships operated by world leading French shipping and logistics company, CMA CGM.

These ships are the world's biggest LNG-powered vessels. In November 2017, Rodolphe Saadé, Chairman and CEO of the CMA CGM Group, decided to make CMA CGM the first ship-owner to operate ultra-large containers using LNG. These ships are the result of seven years of research and development, and a concentration of technological innovations.

WinGD CEO Klaus Heim said: "The future uptake of LNG as a marine fuel is being driven by large merchant vessels with two-stroke engines, where the savings - and the environmental benefits - are the greatest. We are delighted with this achievement, which was made possible by CMA CGM's strong vision and close cooperation with engine builder CSSC-CMD and Bureau Veritas. The 12X92DF is not just the biggest dual-fuel engine in our portfolio - it is now officially the most powerful of its type in the world."

GUINNESS WORLD RECORDS Vice President, Neil Foster said of the achievement: "The WinGD marine internal combustion engine is thoroughly deserving of its GUINNESS WORLD RECORDS title. Records for engineering excellence never fail to fascinate, and this title is testament to the skill of the team at WinGD that had the vision and dedication to deliver the technology behind the title."

The 12X92DF is further evidence of WinGD's commitment to accelerate sustainability within the shipping industry. The market leading X-DF range of dual-fuel engines enables the use of LNG as a marine fuel. LNG fueled vessels significantly minimise air pollution caused by emissions of SOx, fine particulates and NOx while offering a substantial reduction in greenhouse gas emissions. Like other engines in the X-DF range it is ready for use, with no modifications required, once carbon-neutral fuels including methane produced from biomass or renewable electricity become available. These engines are playing an important role in helping shipping reach its target of reducing greenhouse gas emissions by 50% by 2050 and eliminating emissions as quickly as possible thereafter.

The ground-breaking engine series draws on design and field experience earned through an installed base of more than 100 X-DF engines logging nearly 1 million running hours with almost 400 X-DF engines on order. The development and scaling up of the most cost-effective and most



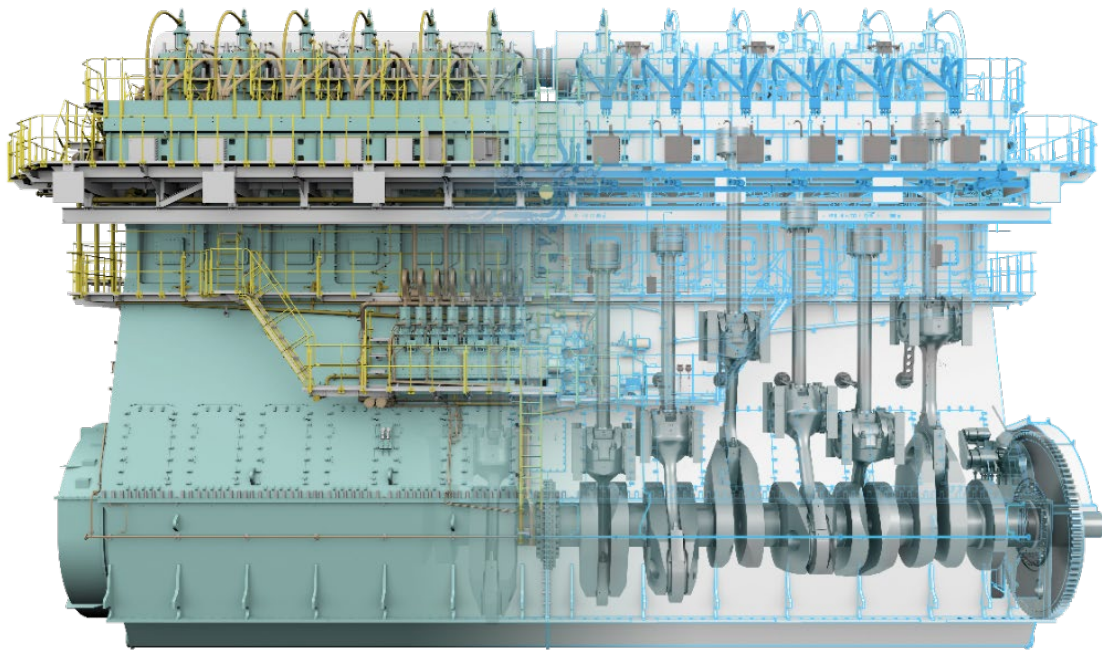
widely used dual-fuel engines position WinGD and the X-DF series to play a pivotal role in the maritime industry's transition to clean fuels.

### 12X92DF engine particulars

Bore: 920 mm  
Stroke: 3468 mm  
Speed: 80 rpm  
Power: 63,840 kW  
Mass: 2,140 t  
Length: 22.87m  
Total height: 15.92m

ENDS...

IMAGES:



**Image caption:** The WinGD 12X92DF now holds the GUINNESS WORLD RECORDS® for Most powerful marine internal combustion engine (otto cycle) commercially available



**Image caption:** CMA CGM JACQUES SAADE's arrival at Le Havre, France, 21 January 2021. *Photo courtesy of the CMA CGM Group.*

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#### **WinGD in brief**

WinGD (Winterthur Gas & Diesel Ltd.) is a leading developer of two-stroke low-speed gas and diesel engines used for propulsion power in merchant shipping. WinGD sets the industry standard for reliability, safety, efficiency and environmental sustainability. WinGD provides designs, training and technical support to engine manufacturers, shipbuilders, ship operators and owners worldwide. Headquartered in Winterthur, Switzerland, since its inception as the Sulzer Diesel Engine business in 1893, it carries on the legacy of innovation in design.

For more information visit: [www.wingd.com](http://www.wingd.com)

#### **About Guinness World Records**

What's the fastest game bird in Europe? This was the question that inspired the founding of Guinness World Records back in 1955. Starting with a single book published from a room above a gym, GWR has grown to become a global multi-media brand, with offices in London, New York, Beijing, Tokyo and Dubai. Today, we deliver world-class content, not just through Books, but via



TV shows, Social Media and Live Events. Our in-house consultancy works closely with brands and businesses around the world to harness the power of record-breaking and deliver award-winning campaigns and business solutions. Our ultimate purpose is to inspire people - individuals, families, schools, groups, companies, communities and even entire countries - to read about, watch, listen to and participate in record-breaking. To join this record-breaking community - and find out the answer to that original question - visit [guinnessworldrecords.com](http://guinnessworldrecords.com).