



All secure: 200,000 safe mooring operations

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Cavotec MoorMaster™ achieves 200,000 moorings

Our innovative automated mooring technology, [MoorMaster™](#), recently passed a landmark 200,000 moorings at applications worldwide, highlighting the growing acceptance of this unique system.

MoorMaster™ is a vacuum-based automated mooring technology that eliminates the need for conventional mooring lines. Remote-controlled vacuum pads recessed in, or mounted on the quayside or pontoons, moor and release vessels in seconds.

Some 200 MoorMaster™ units, installed at 28 locations worldwide, have completed the 200,000 mooring operations at RO/RO, container and bulk handling, and lock applications; and in doing so have made mooring operations safer, more efficient, and even more environmentally sustainable.

Since its introduction in New Zealand in 1998, the [award-winning](#) technology has been steadily introduced at a variety of applications around the world including Australia, [Canada](#), Denmark, [Finland](#), the Netherlands, Norway, Oman, South Africa, [the UK](#), and the United States.

Elsewhere, specially adapted MoorMaster™ units recently completed [At Sea Demonstrations](#) for a project with the US Navy, and we are also working on ATEX, (explosion proof), approved MoorMaster™ systems, potentially for use at LNG berths.

Two of the three applications in Norway [combines our Automatic Plug-in System and one of our shore power units](#) to automatically moor and then charge the battery power unit of a passenger and vehicle ferry - the first system of its kind anywhere in the world, powering the world's first battery powered passenger ferry.

And in another recent development for MoorMaster™, [Cavotec](#) and global marine and energy services group [Wärtsilä](#) are to jointly develop the [world's first combined induction charging and automated mooring concept](#).

MoorMaster™ holds vessels off the berth producing a reduction in fender wear and tear. The system can also be used to reposition vessels along the berth without the need for tugs, mooring gangs, a pilot or vessels' propulsion - resulting in operational improvements and reduced emissions. In some cases, the introduction of MoorMaster™ has also meant that operators have not needed to extend berth infrastructure.

Crucially, removing lines from the mooring process also makes mooring significantly safer for ship- and shoreside personnel.

As vessels are secured in a matter of seconds, compared to up to an hour with conventional techniques, MoorMaster™ also delivers significant operational efficiency gains. This also reduces the use of tugs, which also helps reduce emissions.

Click on the link below to see MoorMaster™ in operation at an iron ore application in Australia, and a passenger ferry berth in Denmark.



[Watch video on YouTube here](#)

As MoorMaster™ goes from strength to strength, we look forward to developing and adapting this extraordinary technology further to make mooring ships safer, quicker, and more efficient.

Cavotec is a leading engineering company with 50 years of heritage in innovation, designing and delivering advanced connection and electrification solutions that drive the decarbonisation of ports and industrial applications. With five decades of experience, our systems ensure safe, efficient, and sustainable operations for a diverse range of customers and applications worldwide.

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