



Product information

# ABB Turbocharging A100-L

# The new marine standard

## ABB's all-new A100-L takes single-stage turbocharging for low-speed, two-stroke diesel engines to the next level.



ABB Turbocharging introduces the A100-L turbocharger series as a significant step in the development of single-stage, high-efficiency, high-pressure turbocharging for low-speed, two-stroke engines.

ABB currently supplies the two-stroke engine market with its highly successful TPL..-B family of turbochargers. Since being introduced to the market, more than 5000 TPL..-B units have been specified or put into service worldwide. ABB remains fully committed to supplying the high-performance TPL..-B for present as well as future two-stroke engines requiring compressor pressure ratios of up to 4.2.

To meet the performance and emissions requirements of a fast-modernizing and more environmentally oriented maritime sector well into the future, ABB is introducing the A175-L as the first of its next-generation A100-L turbochargers specifically for medium-bore, low-speed, two-stroke diesel engines designed for higher pressure ratios of at least 4.7 at highest turbocharger efficiencies.

## A100-L – a new brand debuts

More than the name is new. The A175-L features a brand-new design that builds on proven ABB turbocharger technology.

### Design features of the A175-L

ABB's engineers have developed the A100-L turbocharger series especially for the advanced low-speed, two-stroke diesel engine generations under development today. Its all-new design takes special account of the market's increasing focus on reducing engine emissions.

New compressor stages with further optimized impeller blading, new diffusers and new air casings allow pressure ratios of at least 4.7 with the A175-L. At the same time, it has been ensured that the compressor replacement intervals are comparable with those for today's standard turbochargers.

The turbines and gas casings for this next-generation turbocharger are also new. The bearing casing additionally features a new integrated emergency lube oil tank similar to that developed for the large TPL...-B turbochargers. Variable turbine geometry (VTG) is available as an option.

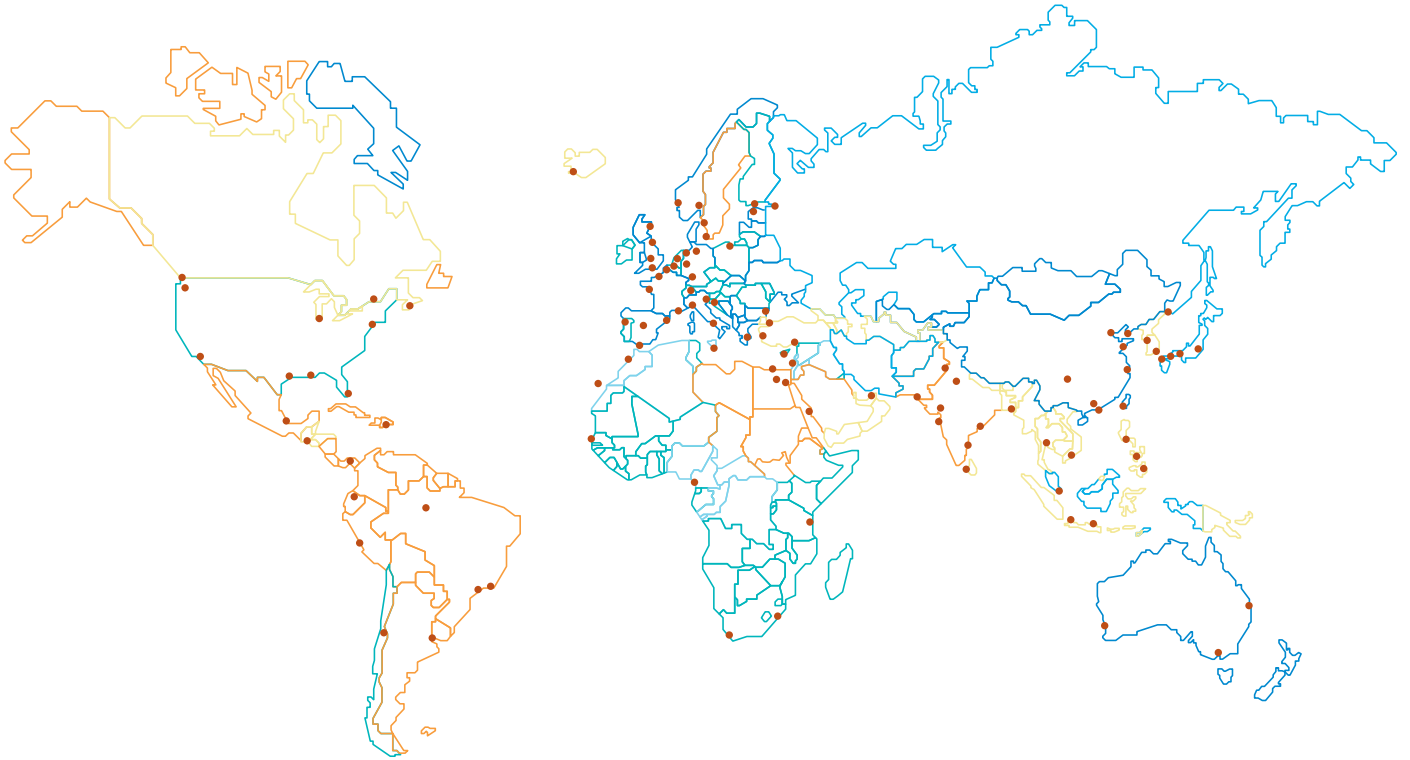
Service friendliness was given a top priority at all stages of development. The overall design of the A175-L builds on ABB's excellent field experience with the TPL...-B bearing concept.

### Some A175-L data

Length	3,250 mm
Width	1,650 mm
Height	1,690 mm
Weight	4,900 kg
Max volume flow	24 (m <sup>3</sup> /s)
Design pressure ratio	4.70



# ABB Turbocharging Service network



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