

# MMK-E MML-E

High Pressure Multistage Pump

**E**NERGY-EFFICIENCY

**E**CO-FRIENDLY

pump  
efficiency  
up to **10%**  
improved!!



# MMK-E/MML-E High pressure multistage pump

## Newly developed hydraulics significantly improves pump efficiency!!



The Torishima MMK/MML pumps are high pressure multistage pumps for a wide range of applications including boiler feed, condensate, water supply, fire extinction, RO desalination and building services. Amid growing concern over energy efficiency around the world, Torishima has recently successfully developed its pump hydraulics with the latest CFD\*1 technology, improving the pump efficiency by 5 to 10%\*2. Having the same structure and outer appearance as our existing model, the new model can be easily replaced without changing piping layout or plant design. This enables you to increase the efficiency of plant and reduce electricity costs. The new model is called as "MMK-E / MML-E" taking from "E" for Energy-efficiency and Eco-friendly with the knowledge that Torishima is continuously contributing to conserve the Earth's environment in the years to come.



\*1. Computational Fluid Dynamics

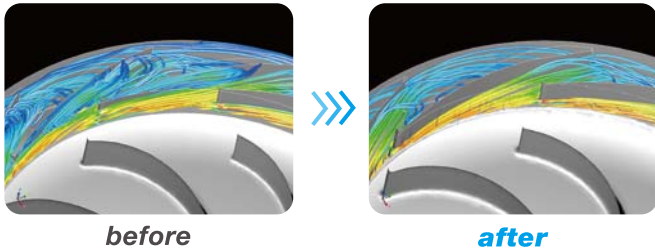
\*2 compared to Torishima's existing models

- ✓ Can be installed in existing installations
- ✓ A wide range of applications
- ✓ Reduce LCC (Life Cycle Cost)

## The latest CFD technology optimizes the fluid flow

### Optimized hydraulic performance

Optimized casing design ensures smooth fluid flow



before

after

### Improved surface finish of pump hydraulics

Smoothed surface reduces energy loss

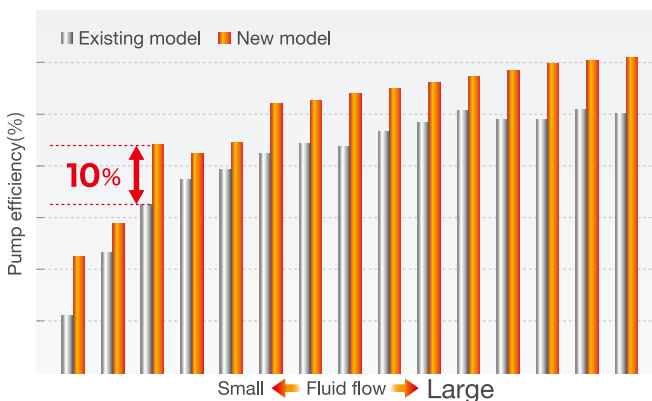


before

after

### Pump efficiency

Pump efficiency is improved by 5 up to 10%



### Impact of energy conservation

Power consumption reduced by 13.3%

