



## Boiler feedwater preheating

Power plant, China

Case story



When building a new power plant, a Chinese power company installed an Alfa Laval DuroShell to preheat boiler feedwater. The DuroShell uses heat from condensed steam to heat the feedwater, thereby increasing the boiler efficiency.

The compact size and high thermal efficiency were the main reasons for the company to choose DuroShell. The unit is easy to operate and control with traditional liquid-level control systems, and the close temperature approach ensures that feedwater is heated as much as possible.

The superior thermal efficiency makes DuroShell very compact. In fact, it is up to five times smaller than a comparable shell-and-tube unit, resulting in lower costs for equipment and installation structures. And with the ability to perform condensation and subcooling in one unit, DuroShell further reduces installation space and costs.

### Results

- Maximum preheating of the boiler feedwater
- Compact solution and easy installation



**DuroShell RollerCoaster**  
Robust and efficient performance.



**DuroShell PowerPack**  
Optimized flow distribution and fatigue resistance.

Learn more at [www.alfalaval.com/duroshell](http://www.alfalaval.com/duroshell)

### Why Alfa Laval DuroShell

#### Maximize uptime

- High reliability and fatigue resistance
- Minimal maintenance

#### Cut costs

- Low investment cost
- Minimal energy consumption
- Reduced maintenance costs

#### Increase capacity

- DuroShell's compact size and high thermal efficiency make it easy to increase capacity to solve heating and cooling limitations

#### How to contact Alfa Laval

Up-to-date Alfa Laval contact details for all countries are always available on our website at [www.alfalaval.com](http://www.alfalaval.com).

Alfa Laval reserves the right to change specifications without prior notification.

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