



## Steam Boiler Quality Comparison

### 1. Front tube sheet-drilling and welding

Front tube sheet is a very important component, where more than 90% quality problems occur. ZOZEN drills on the sheet by full-automatic drilling machines bought from America. While some other boiler factories drill by hand, which is easy to have a big deviation. It can absolutely cause the sheet crack, especially for the boilers with big steam capacity.



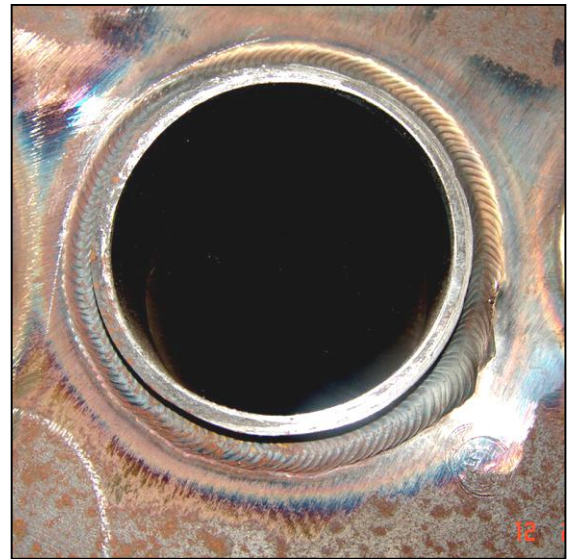
ZOZEN Full-automatic Drilling Machine



ZOZEN welds tubes and sheets together with a small and automatic welding machines exported from Germany, while some other boiler factory do it by hand. Boilers working after a period of time will probably have quality problem.



ZOZEN small and automatic welding machine.



Welding Effect



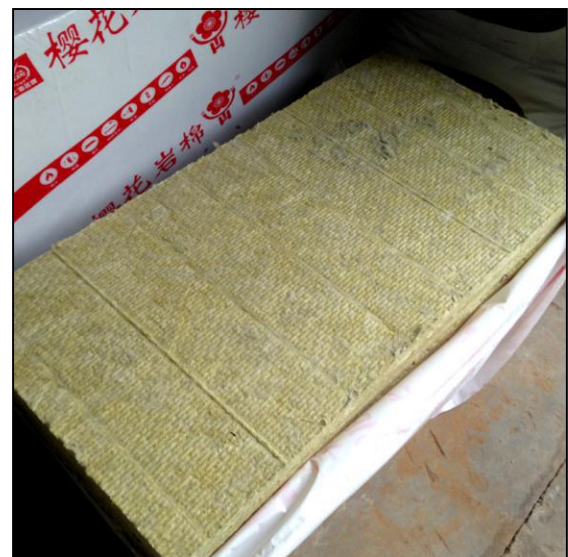
Welding effect from some other boiler factories.



Welding effect

## 2. Insulation layer

ZOZEN purchases the best rock wool in China with the brand "Yinghua", and we have one more job to put refractory cement on the rock wool. It can keep the water away from the rock wool. Keep the rock wool dry. Only 2-3 boiler factories in China do the job.



**ZOZEN Boilers' Insulation Material 1.**



**ZOZEN Boilers' Insulation Material 2. (Refractory cement on the rock wool)**



**Some other factories' insulation material and effect**



### 3. Economizer

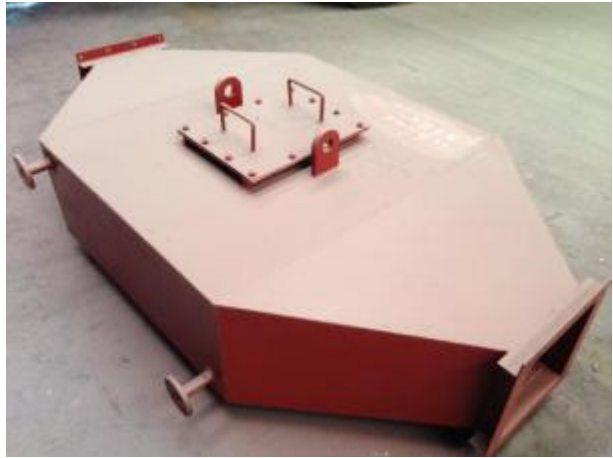
What we offer is top-set condensing economizer ( with insulation layer). It can save house space. And the heat efficiency of our steam boiler can get 97%~98% and the temperature of exhaust smoke can be 95oC, Inside the condensing economizer, we use the ND fin tubes to exchange heat. While some other common economizer can get most 92%~93% heat efficiency and least 130oC exhaust smoke. Considering the technical security, we can offer you the drawing for now.



ZOZEN CONDENSING ECONOMIZER



Other factories' common economizers made of carbon tubes.





#### 4. Second seal for the burner.

In China, only ZOZEN makes a second seal for the burner. Our boilers are much safer than those without second seal for the burner.

#### 5. Easy maintenance.

ZOZEN boiler's front face-plate can open and is detachable. It is easy for user to maintain the boiler.



ZOZEN BOILER



OTHER FACTORY'S BOILER

#### 6. Auxiliary equipments in good quality

Zozen has very strict procurement rules. We must make sure every auxiliary equipment is of good quality. More than 50% problems are due to auxiliary equipments of bad quality.