I. Before we start to talk about the recycling mineral wool production line, I would to ask a few questions.

1. Why we suggest use rock wool products?
Rock wool products are based on sustainable materials from nature—Rock. The rock wool products are recycling and make buildings more energy efficient. The rock wool products can slow the spread of fire which is recommended material for constructional buildings.

Rock wool production line is manufactured by RONGAN. We offer the solution according to customer's requests. Following is an example project based on 5000tons per annual recyclable Mineral wool board production line.

2. When is a better choice to choose Coke Cupola Furnace for your rock wool production line?
When the main raw material slag and fuel coke is abundant in your local, the coke cupola furnace mineral wool production line is recommended. See the raw material introduction below.

By the way, if you already have the basic knowledge of mineral wool production line, please contact Alice Han directly through Skype: alice.h123 or send email.
1. Mineral wool production line raw material:

[Images of Slag and Basalt]

**Slag** refers to the type of metal manufacturing slag or molten waste material. **Basalt** is a common volcanic rock and was produced because of our earth's volcanoes and plate tectonics more and more every year.

2. Mineral wool production line process

[Diagram of production flow chart]

Above is the basic flow chart of slag wool production line. Cupola furnace melt slag and basalt with coke (fuel) at 1450 to 1500 °C. The molten lava is then blown to form fibers by centrifugal force (kind of being like the process of cotton candy). The wool fibers are collected in collecting chamber. The process to create the final products differs to slag wool board (slab), slag wool blanket (roll), slag wool pipe etc.

3. Structural Introduction the serial no can match with above flow chart.

3.1 **Mixing and batching system** is the plant which batching the raw material to the cupola system. Crushed slag and basalt in proper size are located into respective hoppers, weighted and discharge into conveying belt to the lifting hopper and reach the Cupola furnace finally.
Mixing and Batching System

3.2 Cupola Furnace melting
Here is the place where raw material melting the rocks into lava. This type of cupola melter allows the reduction of the iron contained in coke and basalt. It can be stopped or restarted quickly.
Fig. Cupola Furnace Introduction
3.3 Spinning
We adopt four wheels centrifuge turn the lava into thin fibers. Binding agent sprayed to form the raw mineral wool felt. The wheels spin in high speed and work efficiency. While one spinner is working, there is another spinner is standby.
3.4 Wool collecting and 3.5 Swing
Wool collecting machine also called felt forming chamber, wool collector. Wool collecting machine even lays the fiber come out of centrifuge into raw mineral wool felt on the conveyor to the swing. Swing also called pendulum. Pendulum allocates fiber felt crosswise stable and even on the line and get ready for the next procedure.

Fig. Outlook of wool collecting machine and Pendulum

3.6 Pleating
Pleating is a crimping machine which accepts and pressing the raw mineral wool felt from wool collecting and swing, and conveying it to pressing section.
3.7 Pressing
Pressing device is called pressure machine which is designed to further strengthen the raw felt come from the pleating machine. The product density is further improved, and then felt will go to the next process - curing oven. By the way, this part can be the optional machine according to the end products requirements. Tear resistance.

3.8 Curing oven
Curing oven is the key section in the process. The raw felt pleated by the upper and lower conveyors in twenty one meters curing oven, and heated and cured through hot air system. Finally, the raw felt became the board which with its final consistency and shape.

Fig. Outlook of Curing Oven

The rest part is the optional equipment of the machine according to the different end products requests.

Longitudinal cutting machine can slit board to certain width. This section also can be added the slitting machine which the mineral wool stripe can be used as the core material of sandwich panel. Rolling machine or Cross cutting machine will finished the final shape of the product. End products turn to the packing section. Boards will be stacked with 400mm height and to shrink wrap package. Also the optional products can have the alumina foil laminating machine etc. can be chose from
our optional equipment.

4. The final products parameters here for your ref.

<table>
<thead>
<tr>
<th>Rock wool product</th>
<th>Density(Kg/m³)</th>
<th>Size</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>Length(mm)</td>
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<tr>
<td>Panel</td>
<td>40-200</td>
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<td>Stitching felt</td>
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