Independent mineral wool blanket stitching machinery

Brief introduction
Mineral wool stitched blanket is one kind of mineral wool final products. It has the advantage of thermal insulation, and low thermal conductivity. Generally, the mineral wool glass cloth blanket could be used in the large-caliber industrial equipment and construction structure. And the mineral wool wire mesh blanket could be used in the strong-shake and high-temperature conditions.
Machinery introduction
The independent mineral wool blanket stitching machinery is made to improve the strength of the blanket. It could operate separately and could finish the process of wool allocating, longitudinal cutting, stitching, cross cutting and blanket rolling. It could stitch the blanket made of rock wool, glass wool and slag wool. With the feature of simple structure, easy maintenance, small area cover, highly automaticity, it is typical multi-functional machinery.

The stitching machine adopts the needle device which synchronizes with the whole stitching production line. It could process single surface and double surface stitching. The mineral wool blanket which is stitched by the machine looks good. And the needle spacing and row spacing of the mineral wool blanket are trim. Its quality and performance is incomparable with blanket stitched by hand. Generally, the needle spacing is 80mm, row spacing is 120 mm. And we could make some adjustment about the spacing of the needle and row according to your specific requirements.

Machinery composition

Wool allocating conveyor: it could allocate the mineral wool bulk with blocking board and prepress it with big pressure roller. Then send the crude blanket to the cutting machine.

Longitudinal cutter: it could cut the edges of the blanket to make both sides neat.

Blanket stitching machine: it could stitch the blanket with wire mesh or cotton thread.

Cross cutter: it could cut the blanket according to the required width.

Blanket rolling machine: it is used to roll the blanket to be rolls.

Control cabinet: it is used to control the operation of the whole machinery.

The blanket stitching machine is the key equipment in the whole blanket stitching machinery. The fiberglass fabric or wire mesh could be stitched with one side or both sides of the blanket. It is comprised of the following parts:

Machine frame: it is used to support the other devices of the stitching machine.

Stitching vehicle: it is synchronous with the moving speed of the blanket.

Traction system: it provides blanket with driving power to go forward.

Needle device: it is used to stitch the blanket with wire or cotton thread. It is the key device of the whole machine.

Main drive device: it provides stitching vehicle and needle with credible driving power.

After stitching, the strength of the blankets could be greatly improved and get more applications in the thermal insulation fields.

Technical parameter:
Running speed: 2 – 7 m/min
Applicable stitched blanket length: 1000 – 10000 mm
Applicable stitched blanket width: 1200 mm
Applicable stitched blanket thickness: 25 – 80 mm
Applicable stitched blanket density: 40 – 128 kg/m³
We could provide a series of service including the project consultancy, technical support, installation and commission, employees training, system maintenance, technology upgrade, etc. Our technicians will recommend suitable solution according to customer’s special condition.