

Aluminum Coil Coating Production Line



Specifications of SCL1250 Steel Color Coating Production Line

1. Hydraulic elevating car

Send coil to decoiler or coiler by adjusting the position of the car to load and unload the raw material of steel coil.

2. Unwinder

Send the raw material of steel coil to collapsible drum by adjusting the car and tension coil hydraulically. Feed coil by rotating the drum.

3. Pinching machine

The decoiling and pinching process clamps and feeds the head of steel coil into the stitcher and the coiling and pinching process clamps and feeds the head of steel coil into the wrapper.

4. Clipper

The clipper installed behind the decoiler 2# is mainly used to clip the head of the coil in the decoiler 1# and the end of the coil in the decoiler 2# and moves the coil to the stitcher.

5. Stitcher

Stitcher is a pull-up jointer which is mainly used to joint the head and end of the aluminum coils so as to ensure continuous supply of raw material

6. Pressing machine

The edge roller is mainly used to flat the strip materials after stamping and level the wave edge or rough edge

7. Tension machine

Establish tension between the strips so as to assure regular running and press the head and end of the steel strips by pressing roller when change coil or wind coil.

8. Storing unit

Keep the speeds of processing stages (precise coating, primary coating and solidifying furnace) at setting values so as to avoid over burning of the color coating plate through the fluctuation of the loop.

9. Roller brushing

Clean the oil film on the surface of the strip by a steel roller and a circular nylon brushing roller which are rotating and driven by a motor and decelerator.

10. Alkaline cleaning unit

Drawing the alkali liquor to the spray header from the water tank by stainless steel pump, spray and clean the oil film on the surface of the strip.

11. Water washing device

Drawing water and purified water to the spray header by a water pump, spray and clean the surface of the strip.

12. Drying unit

Dry the cleaned belt material to ensure quality of chemical treatment.

13. Activating unit

Make the active agent contact with the surface of the strip sufficiently by the roller which is in dipping tank and form an oxide film on the surface of strip so as to enhance the adhesion between the surfaces of strip and painting.

14. Baking unit

Bake the strip after chemical roll coating and prepare for painting.

15. Coating unit

The paint roller sticks with paintings after dipped in the painting pan and paints the strip while it contacts with the surface of the strip.

16. Solidifying surface

Dry the paints on the surface of the strip. It includes three stages: advection zone, solidifying zone and soaking zone.

17. Air cooling

Blow cold air with a centrifugal fan to cool down the strip which is going out from the solidifying furnace.

18. Water mist cooling

Spray the purified water which is drawn by a pump to the surface of the strip to further cool down the strip going out from the solidifying furnace.

19. Winder

Wind up the final strip to coil, convenient for storing and transportation. With EPC automatic alignment.