3.2 The main drive system of the edging machine

3.2.1 The main drive of the edging machine is driven by a frequency conversion motor combined with a gear reducer, which can well control the temperature rise of the mechanism and ensure the long-term operation of the equipment.

3.2.2 The design of the separation of the main drive shaft and the timing belt wheel facilitates the replacement of the timing belt.

3.2.3 The main drive shaft is equipped with a dust-proof and waterproof shield to ensure that the main driveshaft does not rust and does not appear to be stuck in opening and closing.

3.2.4 The outlet of the edging machine is equipped with a water-driving air knife and a water spray mechanism toper-clean the glass after edging to reduce the entry of glass powder into the turntable and washing machine. The water blown by the water-driving air knife needs to be collected and discharged independently. The air knife and spray are equipped with protective covers, so that the water does not splash on the edging machine and gearbox.

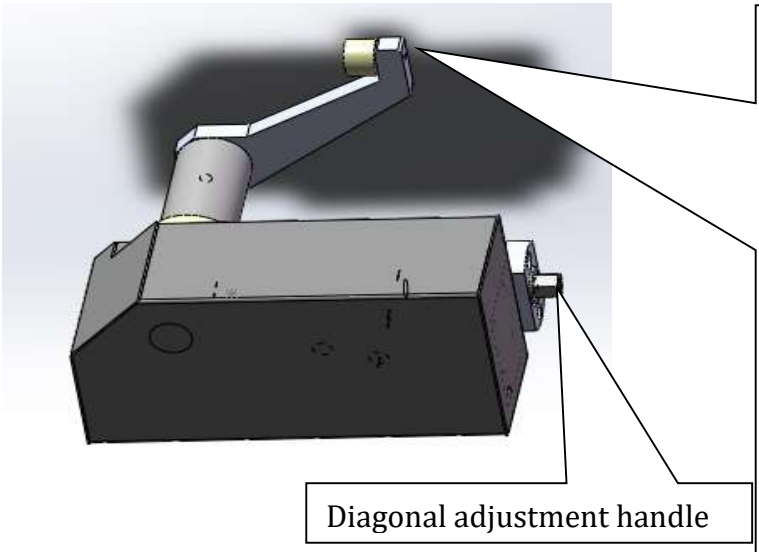
3.3 Positioning of the entrance glass of the edging machine

3.3.1 The feed end is fixed with a fixed wheel, and the moving side is equipped with an automatic wheel-based pressure measurement positioning mechanism to position the glass in the direction of travel, while preventing excessive deviation of the original glass from causing the equipment entrance to jam, and the moving side is leaning. The wheel adopts nylon leaf spring structure.

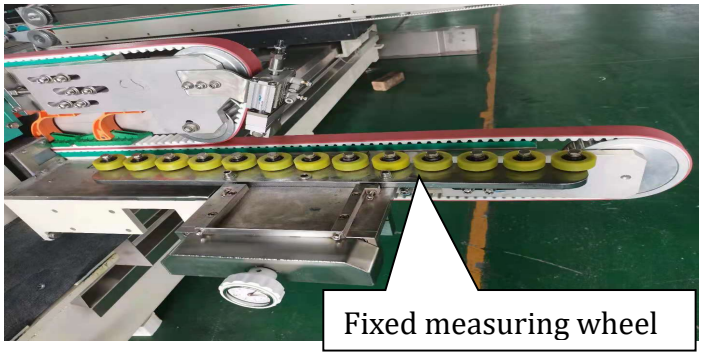
3.3.2 At the same time, the feed end is equipped with an upper pressure feeding wheel to facilitate small pieces of glass and glass with insufficient cutting precision to enter the edging equipment smoothly.

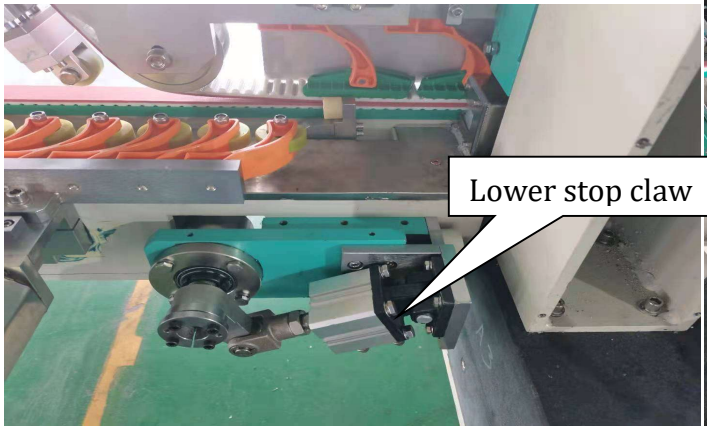
3.3.3 In order to quickly and accurately adjust the diagonal error of the glass, the set gripping and positioning mechanism of the nylon block automatically guided can adjust the diagonal of the glass according to Theon-site processing at any time without stopping the machine (1# edging machine is equipped with this mechanism).

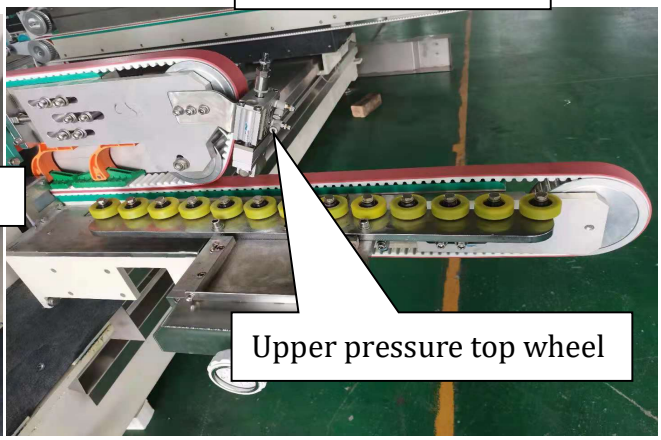
3.3.4 The fixed measuring wheel, the movable side supporting wheel and the claw stop device all adopt the structure of the lower guide rail and the sliding plate, and are equipped with a stainless-steel shield. The glass dust and water will not enter the sliding mechanism device, which enhances the service life and positioning accuracy.



The blocking and grasping positioning mechanism introduces a unique design. When the operator uses the blocking and grasping to adjust the diagonal error of the glass, the nylon block will not rotate, so it can ensure that the glass and the block are always in contact and positioning at the same point before and after the adjustment, which can be very good Judgment adjustment amount in order to achieve rapid adjustment effect. At the same time, the production line does not need to stop production when adjusting the catch.







3.4 Grinding head system of edging machine

3.4.1 The equipment is equipped with three groups of power grinding heads for customers to choose to meet different edging requirements. At the same time, the original grinding wheel height adjustment system is a gapless adjustment

mechanism, with a digital scale display, to more accurately adjust the height of the grinding wheel to achieve the best edging effect. At the same time, the grinding head mechanism is provided with a grinding wheel level adjustment mechanism and a manual grinding amount adjustment mechanism. Changing the grinding wheel can rotate the entire grinding head mechanism on the outside of the equipment to facilitate the replacement of the grinding wheel. The grinding wheel reset adopts a quick reset mechanism.

3.4.2 The grinding head of the equipment adopts a multi-layer waterproof structure, which has good waterproof effect, and the work surface is clean and tidy, which prolongs the service life of the equipment.

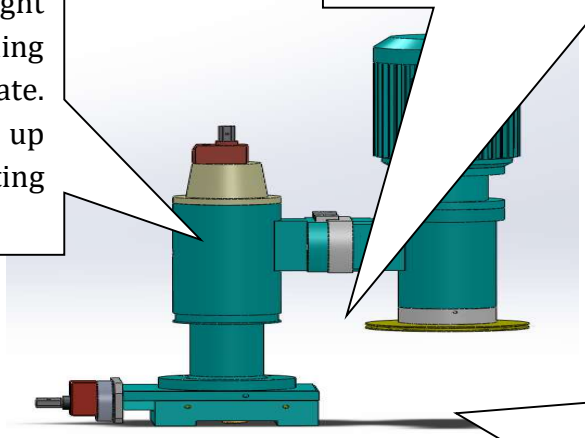
3.4.3 The design of the cooling water circuit for the grinding wheel of the equipment is reasonable, which is convenient for cleaning and maintenance. The cooling water of the edging machine is directly discharged from the water receiving pipe to the circulating water channel, and there is no water receiving tank for the inlet and outlet pieces.

3.4.4 The advance and retreat and lift of the grinding wheel have scale display.

3.4.5 The grinding wheel is cooled by a double-sided cooling device, and the water spray pipe is a fixed brass tube, which ensures stable cooling water to ensure the grinding effect of the glass.

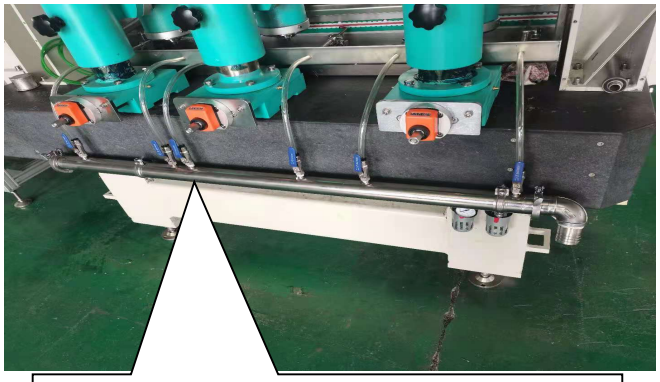
The original no-clearance grinding wheel lifting mechanism makes the height adjustment of the grinding wheel faster and more accurate. (Adjust the grinding wheel up and down without eliminating the screw gap)

Grinding wheel level adjustment mechanism

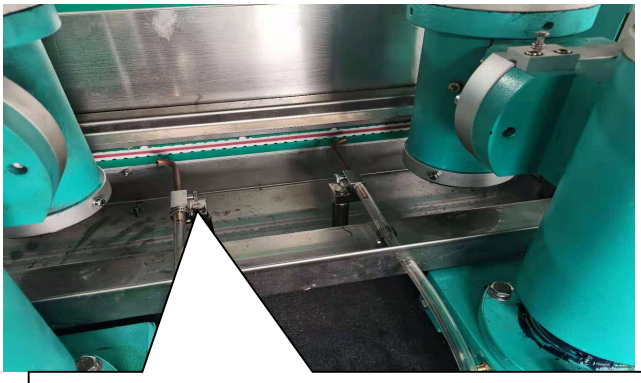


It is convenient to replace the grinding wheel. When changing the grinding wheel, the grinding head mechanism can be rotated to the left side of the figure, and the grinding wheel can be easily replaced.

Grinding wheel cutting volume adjustment



Grinding wheel cooling main water pipe



Grinding wheel cooling brass water spray pipe

3.5 The upper and lower synchronous belt pressure feed system and the center carrier system.

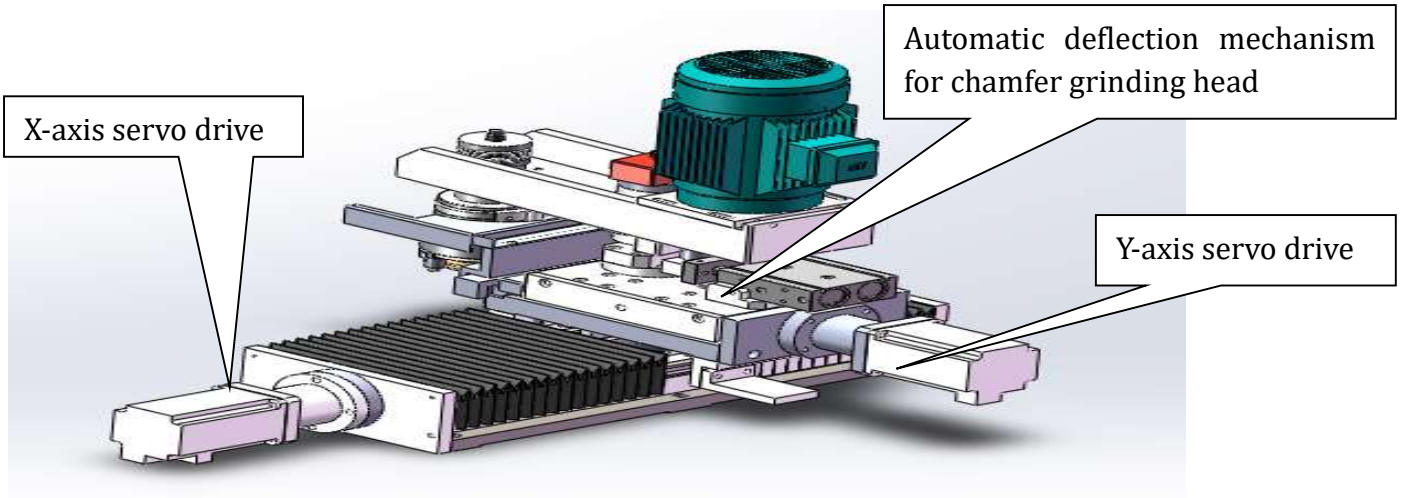
The upper and lower timing belts and pulleys are made of Italian Barbary timing belts. The upper timing belt adopts a one-piece design with double movable joint nylon leaf spring compression structure to ensure that the overall compression force of the upper timing belt is consistent to reduce the movement of the glass. The upper synchronous belt is compressed manually by a digital display scale device.

3.5Double servo chamfering system

3.5.1 The patented chamfering system adopts a dual-axis servo feed mechanism, which can reduce the direct impact force between the grinding wheel and the glass during the chamfering process.

3.5.2 Chamfering mechanism in order to better ensure the chamfering effect and accuracy, an automatic yaw mechanism of the chamfering power head is added.

3.5.3 All ball screws and guide rails of chamfering mechanism adopt automatic lubricating oil pump for lubrication, and the amount and frequency of lubricating oil can be set.



3.6 Linear Turntable

3.6.1 The main frame of the equipment is a steel welded structure.

3.6.2 The equipment is divided into two sections: the acceleration section and the smooth transition section. A stainless-steel drain pan is installed under all the conveying rollers to immerse the transmission rollers to ensure that the contact surface of the rollers is clean and the glass surface is not scratched. And set an overflow outlet to recover the excess water uniformly.

3.6.3 The roller conveyor is driven by a frequency conversion motor, and the program is incorporated into the edge