



# T-BF Fixed-type Bottom Printing Machine



[www.gdtaiyi.cn](http://www.gdtaiyi.cn)

广东台一精工机械有限公司

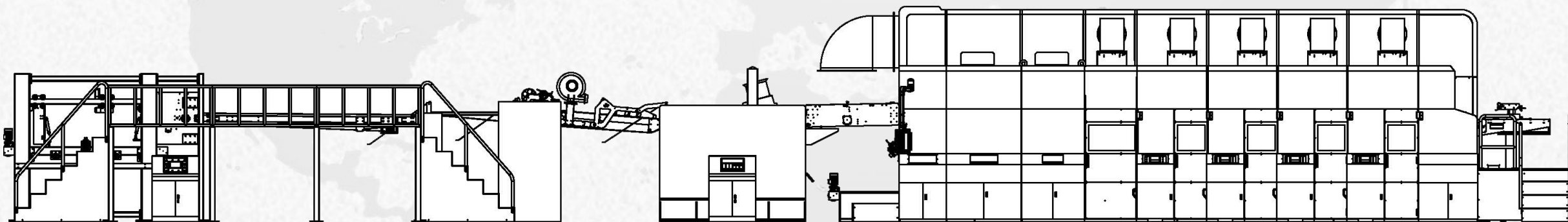
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# T-BF Fixed-type bottom printing machine



T-BF Fixed-type high speed flexo printer slotter die-cutter with vibrator stacker (Counter Stacker Optional)

T-ONE T-BF



SUN AUTOMATION RDC



New outlook of industrial design, combined with T-ONE & SUN AUTOMATION technique.



## T-BF Technical Specifications

Model	T-BF1224	T-BF1228	T-BF1628	T-BF1632
Figures				
Max. Speed (pcs)	250	230	220	200
Max. Feeding size (mm)	1200x2400	1200x2800	1600x2800	1600x3200
Min. Feeding size (mm)	320x600	320x600	450x600	450x600
Skip Feeding (mm)	1500x2400	1500x2800	1900x2800	1900x3200
Max. Printing Area (mm)	1200x2360	1200x2760	1600x2760	1600x3160
Standard Printing Plate Thickness (mm)	7.2	7.2	7.2	7.2
Min. Slotting (R) (mm)	260x65x260 x65	260x65x260x65	260x65x260x65	260x65x260x65
Min. Slotting (L) (mm)	130x130x130x130	130x130x130x130	130x130x130x130	130x130x130x130
Max. Slotting Depth (mm)	300	300	400	400



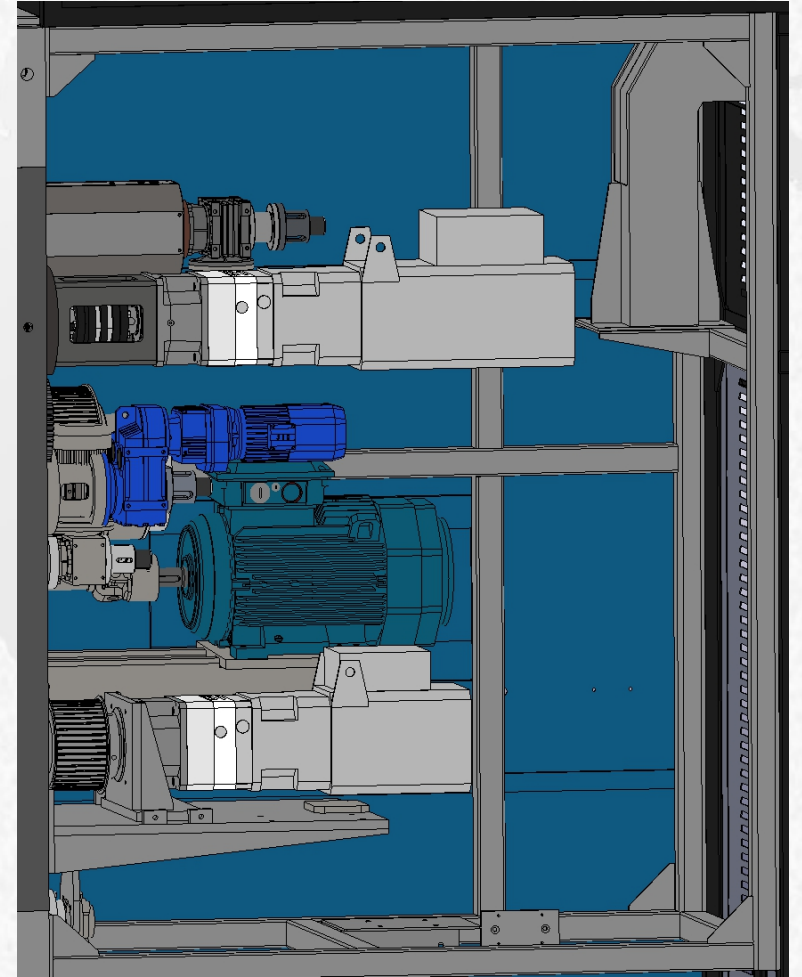
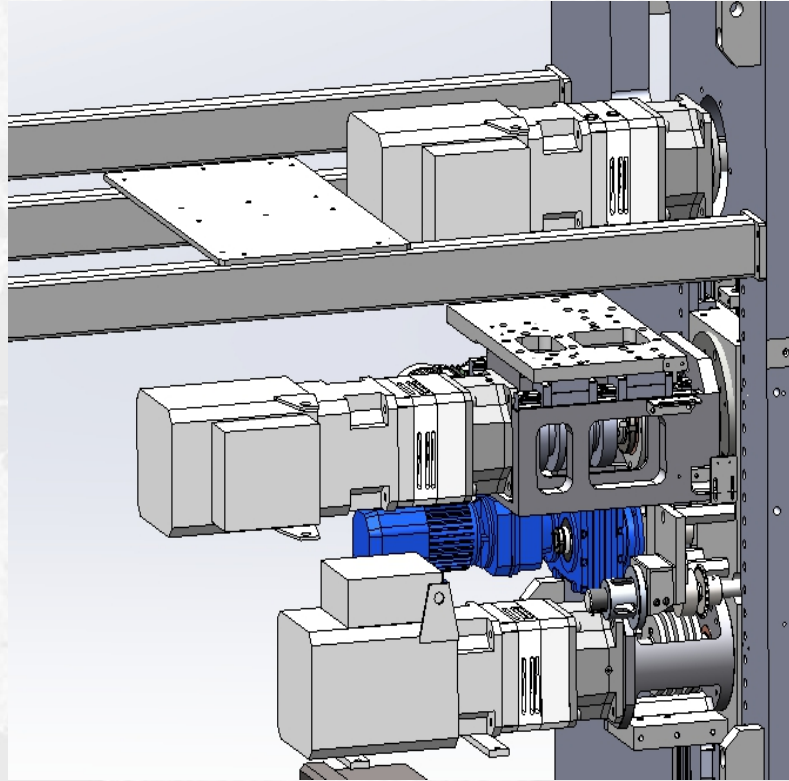
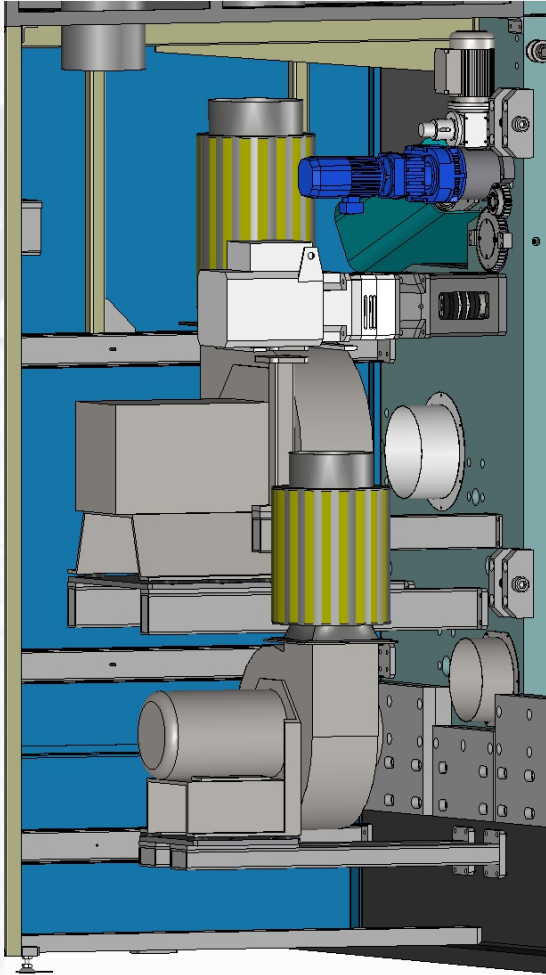
Quality of all transition shafts, impression rollers, rubber rollers, anilox rollers, Cylinder spindle heads and bearings are two grades higher to ensure longer service life and reduce maintenance cost. All frame walls thickness improve to 80MM for more steady operation.

- New outlook of industrial design
- All frame wall thickness improve to 80MM
- Quality of main transmission bearing are two grades higher
- All movement wheels enclosed with covers
- Using Piano seal cover lead on side guide on Feeder Unit
- Movable dust removal device in Feeder Unit
- Bigger diameter of anilox roller and rubber roller in Printer Unit
- Fast change device for rollers easy operation
- Independent creaser unit for better performance
- Double slotter structure to fit various types of carton
- 50mm side to side oscillation of anvil cylinder device
- Motorized pull ring adjustment





企业简介



Full Servo motor control, no need for maintenance.



Core technology - guarantee of both production quantity and quality

- SUN high speed lead-edge feeding
- SUN high speed vacuum transfer
- SUN high speed doctor blade for high graphic
- SUN die-cutting precision control system
- T-ONE Non-stop printing plate exchange
- SUN fixed type structure





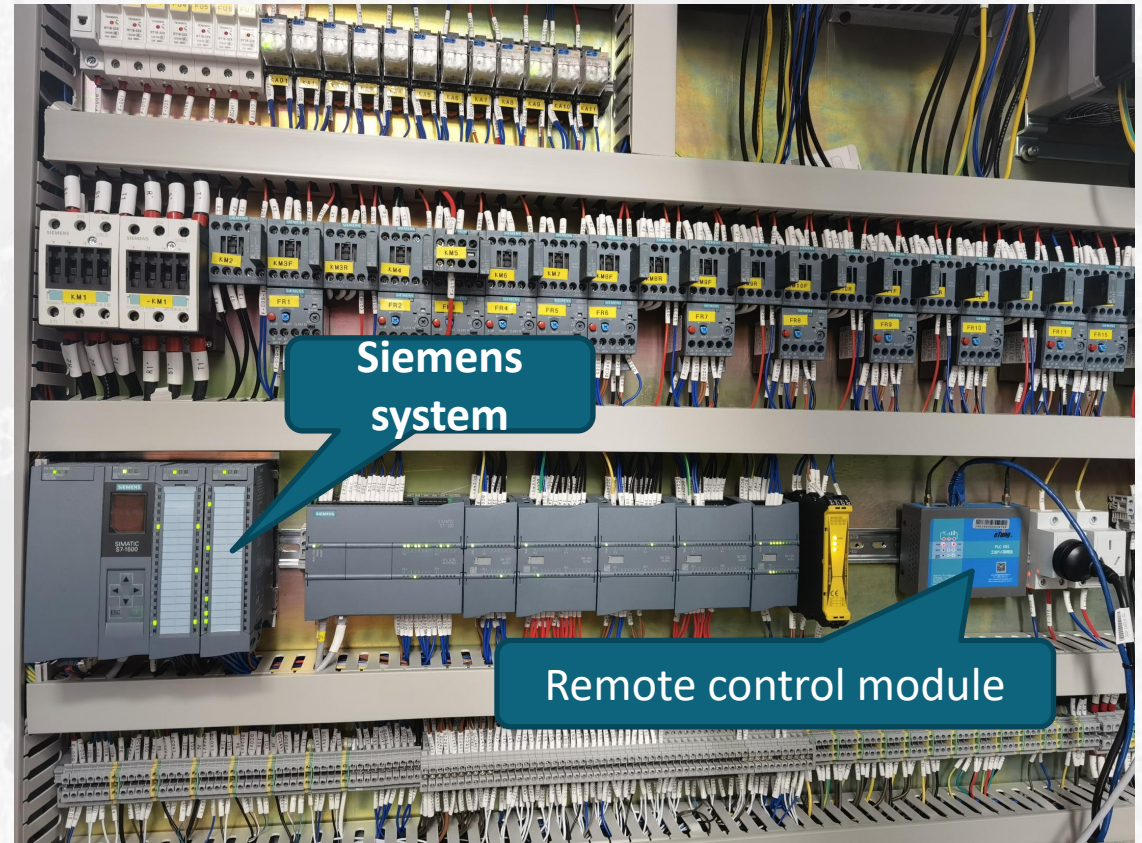
# T-ONE Servo driven with non-stop printing plate exchange Fast change of orders







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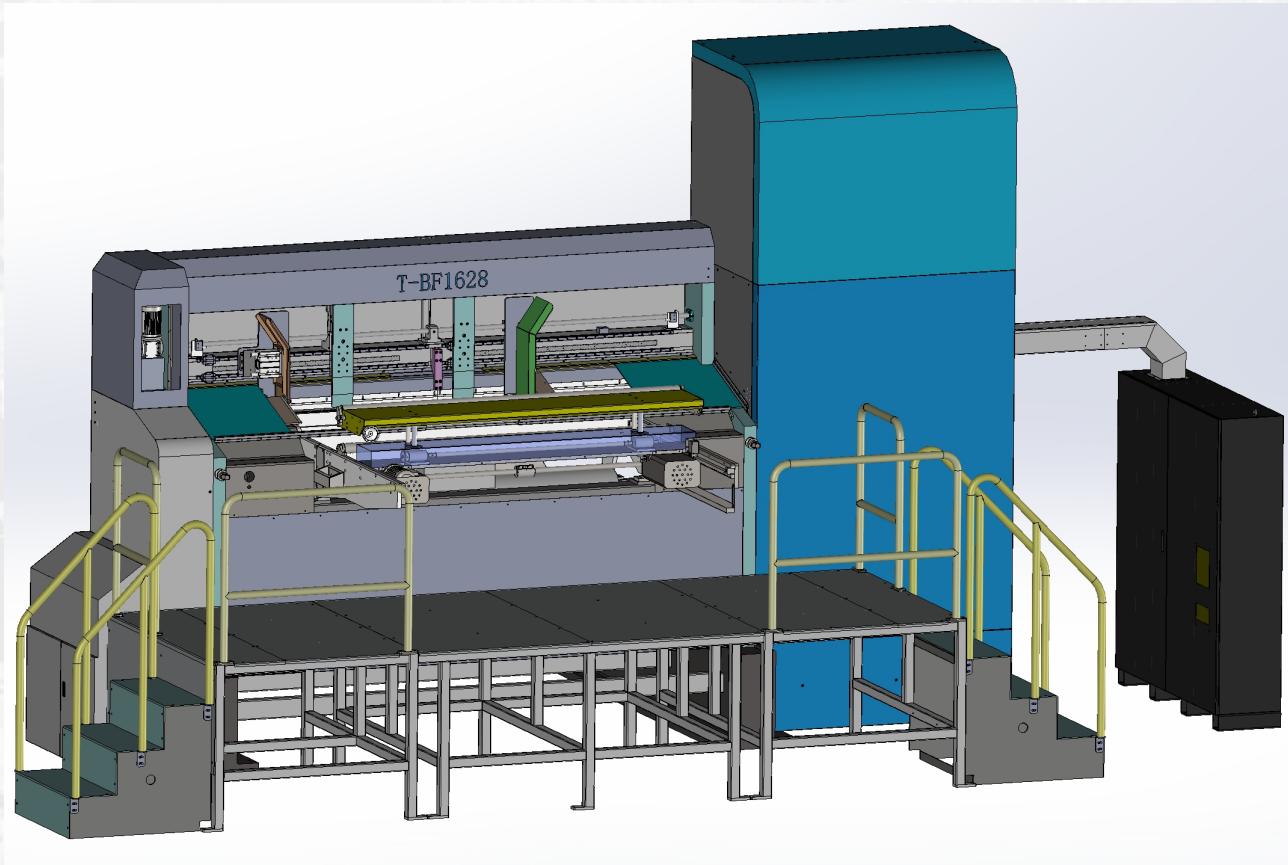


Siemens system

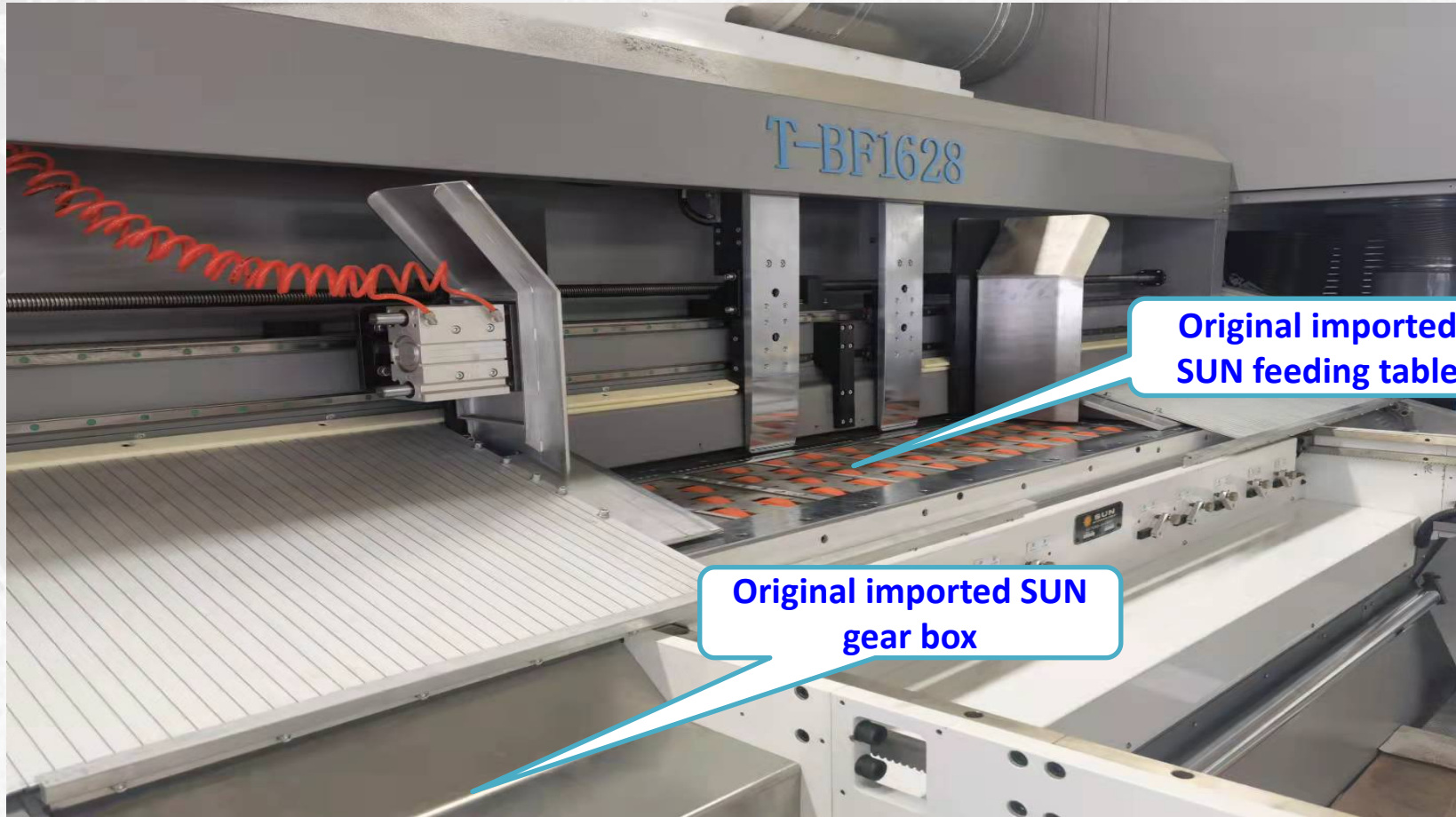
Remote control module

Siemens system is applied. Main components are imported with remote control module to ensure quality and stability





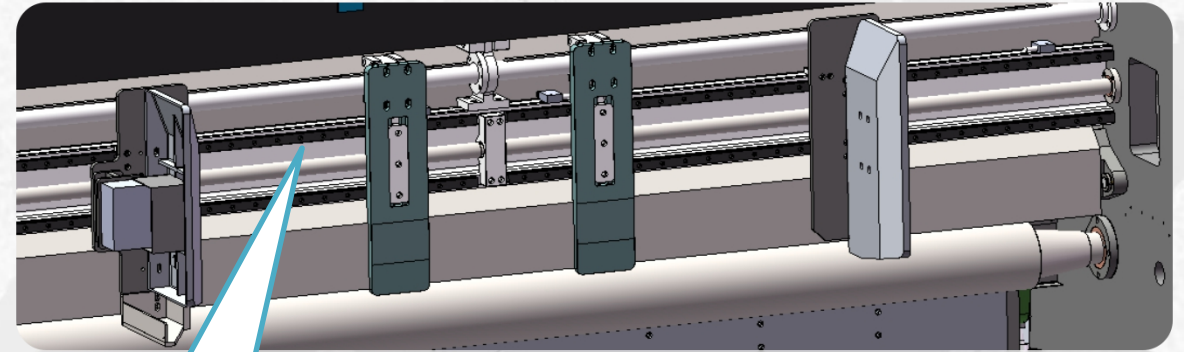
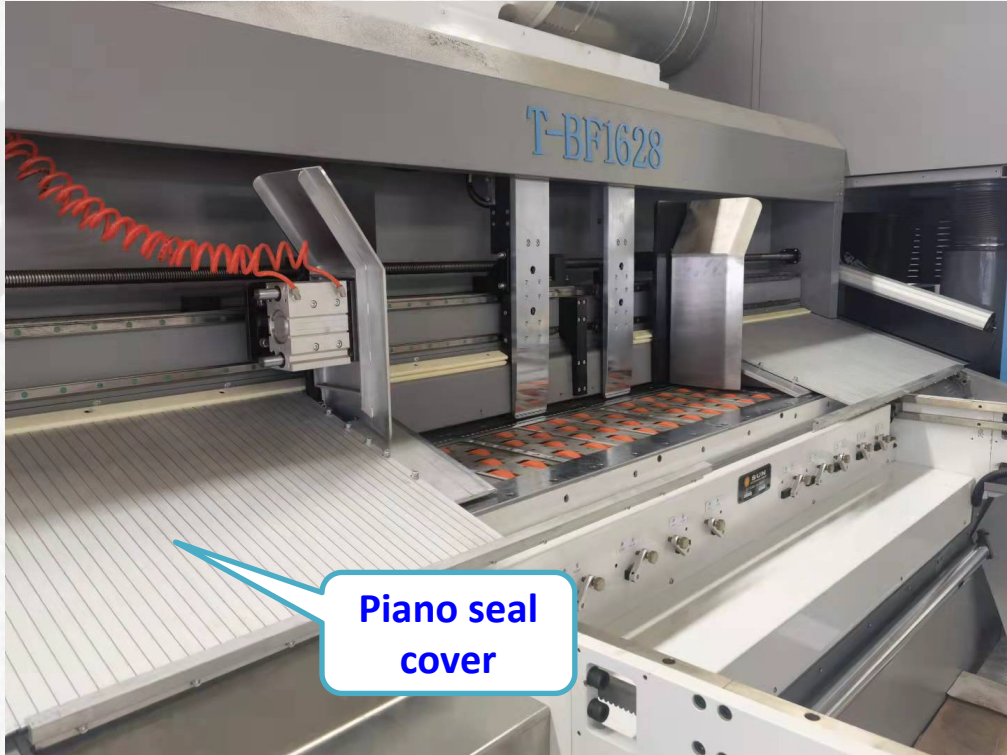
- ※ Continuous or skip feeding (counter) .
- ※ Lead-edge feeder with adjustable feeding stroke to reduce pressure to the pull roller.
- ※ Air flow/pressure controlled by inverter to match various size of paperboards.
- ※ Rubber roller covers with two-layer which inner side is soft and outer side is harder. This can help reduce crush on the surface of paperboards.



✘ Original imported SUN Automation gear box and feeding table to ensure feeding accuracy and stability. Daily production is upto 1 to 1.3 million square meter

✘ Independent servo drive





Linear Guides

✘ Front stopper and push plate are linked with linear guides for smooth movement and accurate location.

✘ Height of front stopper adjusted by handler manually.

✘ Independent motor drive for side baffles to adjust distance automatically. Applied with piano seal cover for protection.



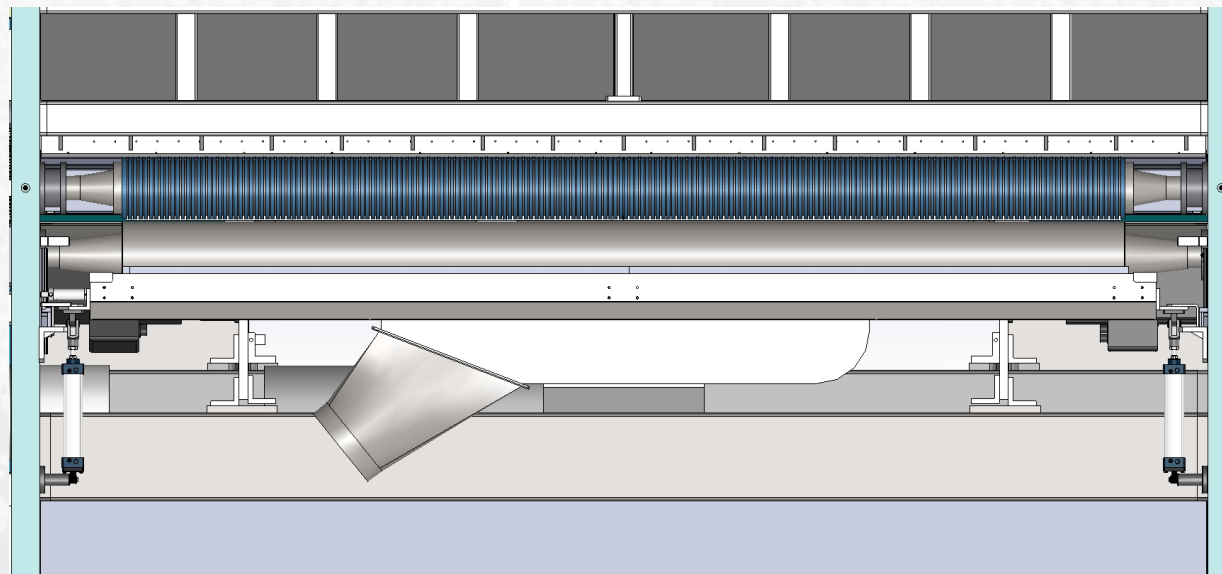
Antic static device

Raise structure of dust suction device

Multiple brush

Two-layer rubber roller

Anti-jam device

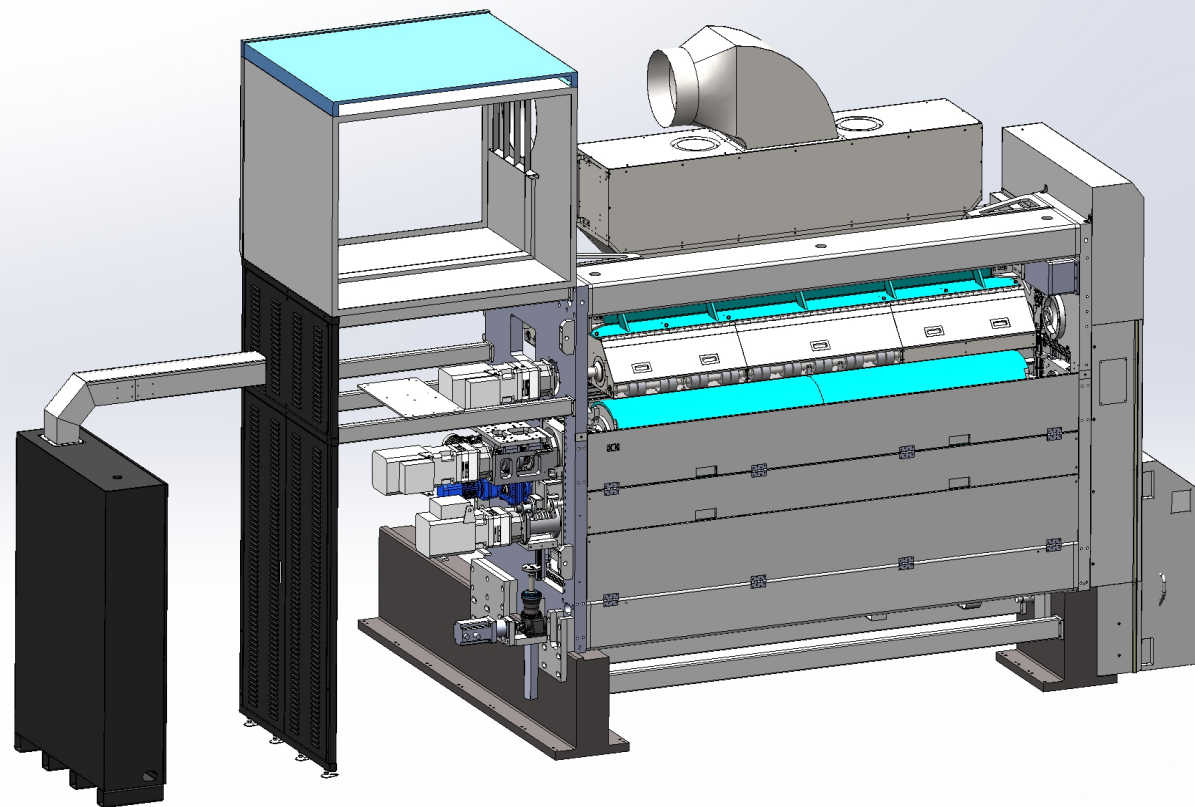
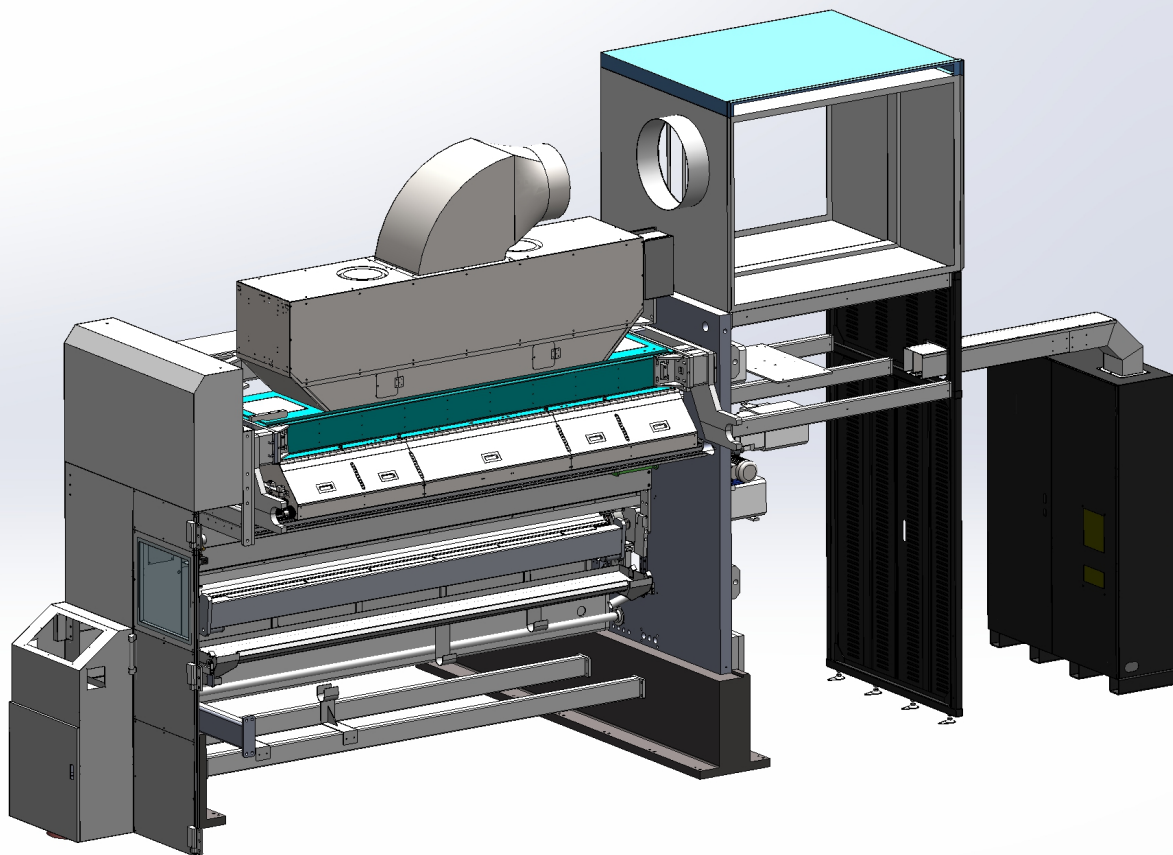


※ Two-layer rubber roll, less crush on paperboards and wear resist.

※ Dust suction device can lift up about 150mm for brush easy operation.

※ Multiple brush and anti static device and an-jam device.





- Vacuum absorption feeding (Ceramic coated feeding wheels, wear resist and longer service life) .
- Ratchet printing plate locking device to ensure accurate location.
- Servo motor drive to adjust printing registration.
- Automatic cleaning device to ensure ink recycling; auto reset system after cleaning printing plate.





ceramic roll

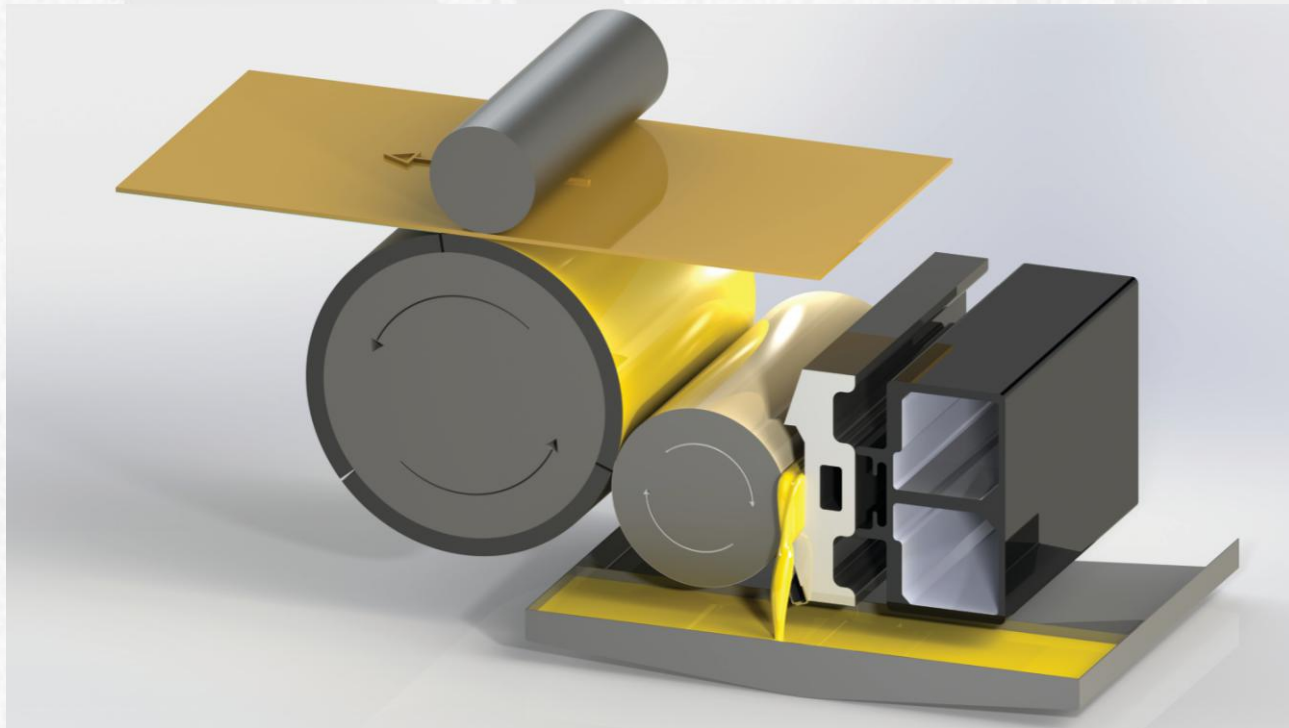
## SUN high speed vacuum transfer – accurate control, fast and smooth transition

※ Vacuum absorption feeding (Ceramic coated feeding wheels, wear resist and longer service life) .





## Applied with skilled SUN ColorMaster®



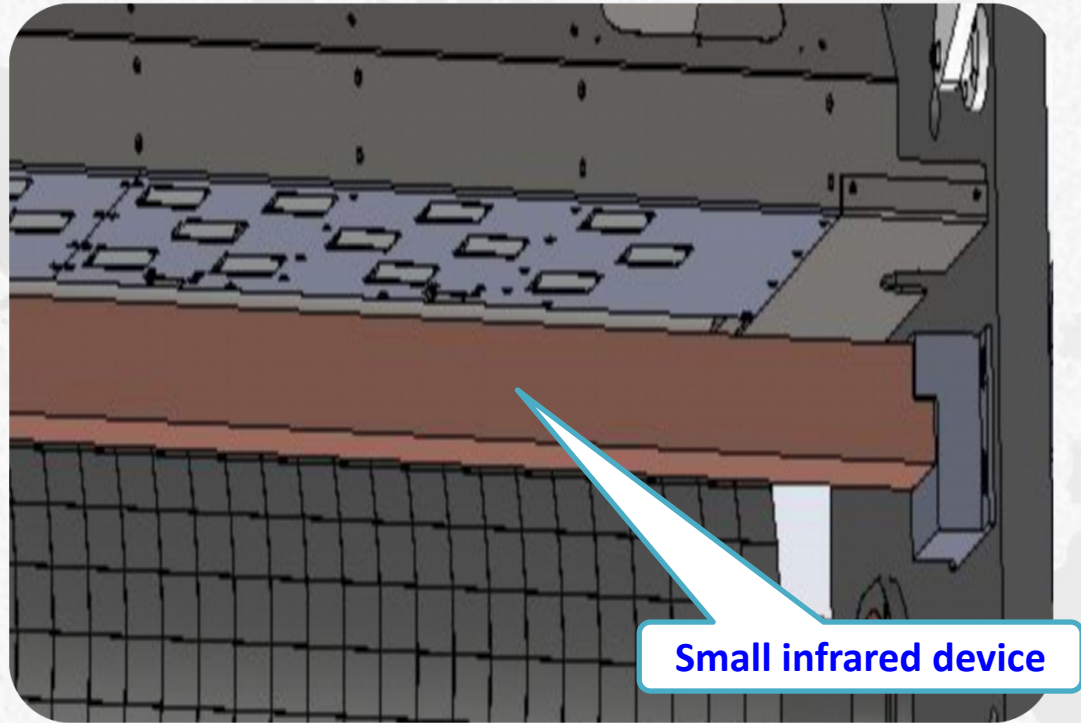
※ Rubber roller or SUN single doctor blade inking system is optional for printer unit. Higher quality with easy operation.



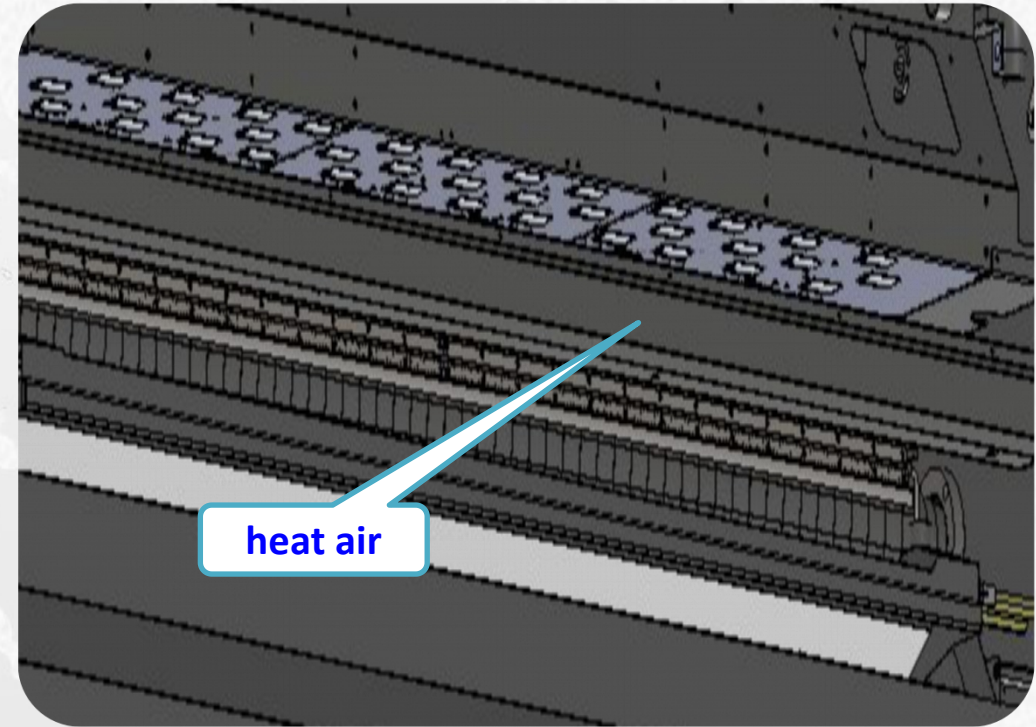
## ROI drivers performance comparison

ROI performance	Normal chamber	SUN chamber
1, Corrosion resistance	Inner side of chamber will be corroded and rusted by ink. Some of them will get rusted and deformed within 1 year which will cause printing problems or become useless.	Inner side of chamber is corrosion resistant from the ink for over 10 years which ensures extremely long service life. Actual service life is several times of normal chamber.
2, Performance in high speed production	When doing high speed printing, it will cause deformation of doctor blade because of uneven pressure from different parts, which will affect the production speed.	When doing high speed printing, pressure of every part of doctor blade is even which ensures high speed of 300m/min or above production.
3, Performance in high graphic printing	When doing high graphic printing, the printing quality of cells is affected because uneven pressure from doctor blade.	When doing high graphic printing, the doctor blade can achieve 133LPI or above printing easily, which ensure higher profit and more delicate orders to the manufacturer.
4, Operation convenience	Hard to adjust the pressure of different parts of doctor blade. Cost much time to change new doctor blade, sometimes even upto 30mins for one printer. Complicated operation which will cause waste of production time.	Pressure adjustment is explicit and even. Fast change of doctor blade, which normally takes less than 2mins for one printer. Easy operation to save much time for production.
5, Maintenance cost	Need to replace new ones within two to three years because of rust or deformation which causes high maintenance cost.	Service life is upto 10 years or above because its corrosion resistance, which can save maintenance cost widely.
6, Protection to anilox roller	Cause damage to anilox roller because of rust or ink dregs, which cause high quantity of waste production.	Unique explicit and even pressure adjustment technique to ensure smooth inking, which helps protect the anilox roller and reduce waste of production.

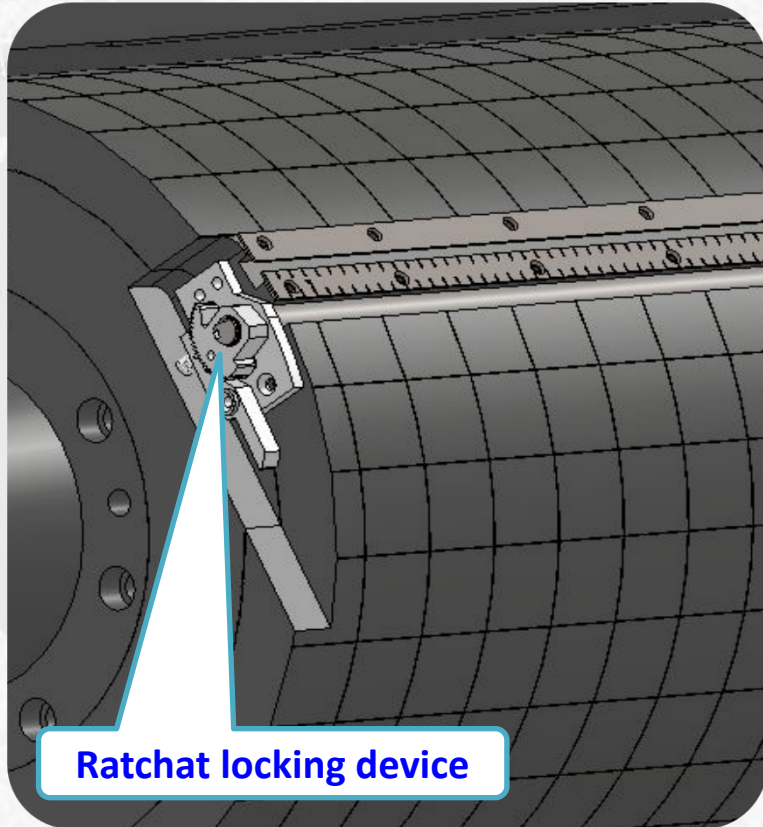




※ Small infrared device (optional)



※ Heat air (optional)



Ratchet locking device

※ Ratchet locking device for accurate location of printing plate



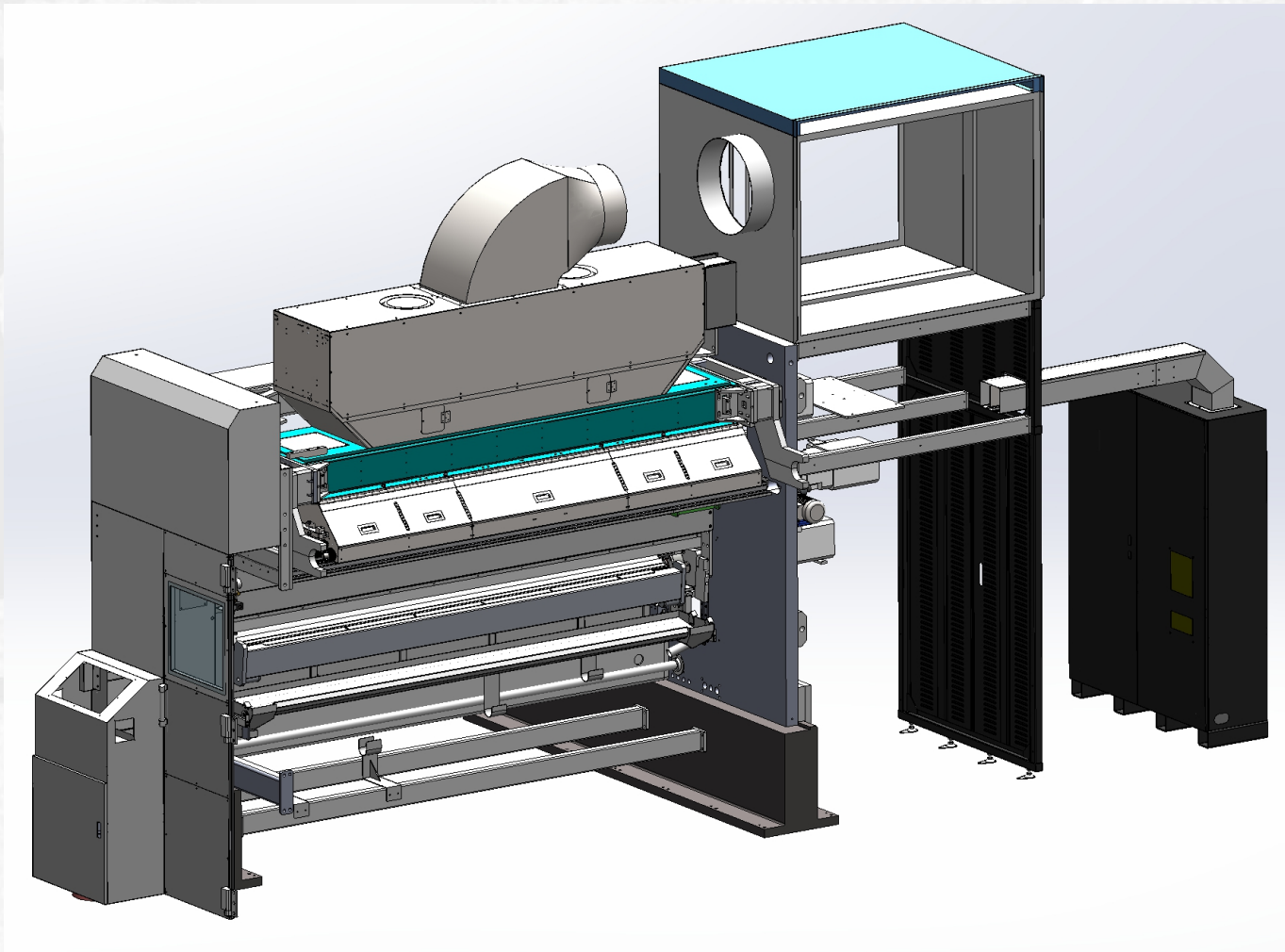


**Bigger diameter of anilox roller/rubber roller**

- ※ Bigger diameter anilox/rubber roller to reduce ink splash.
- ※ Fast change device for easy change of cylinders.

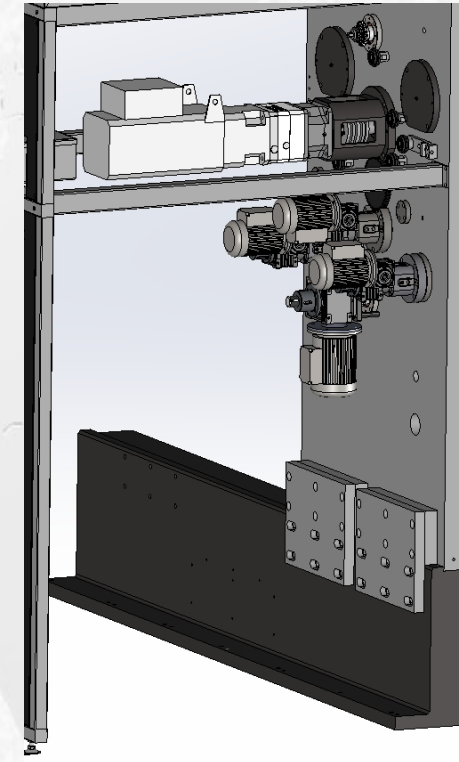
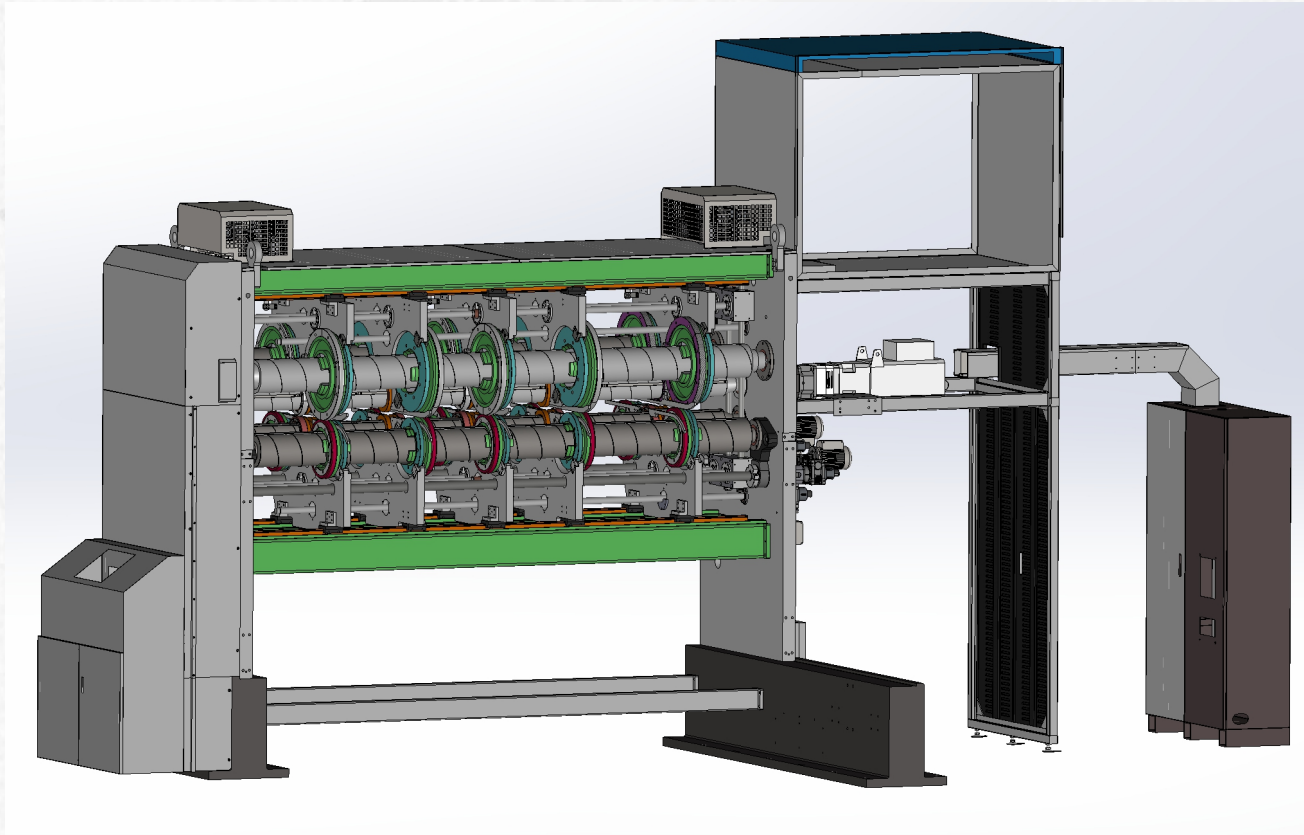


**Mounting/Dismounting holder**

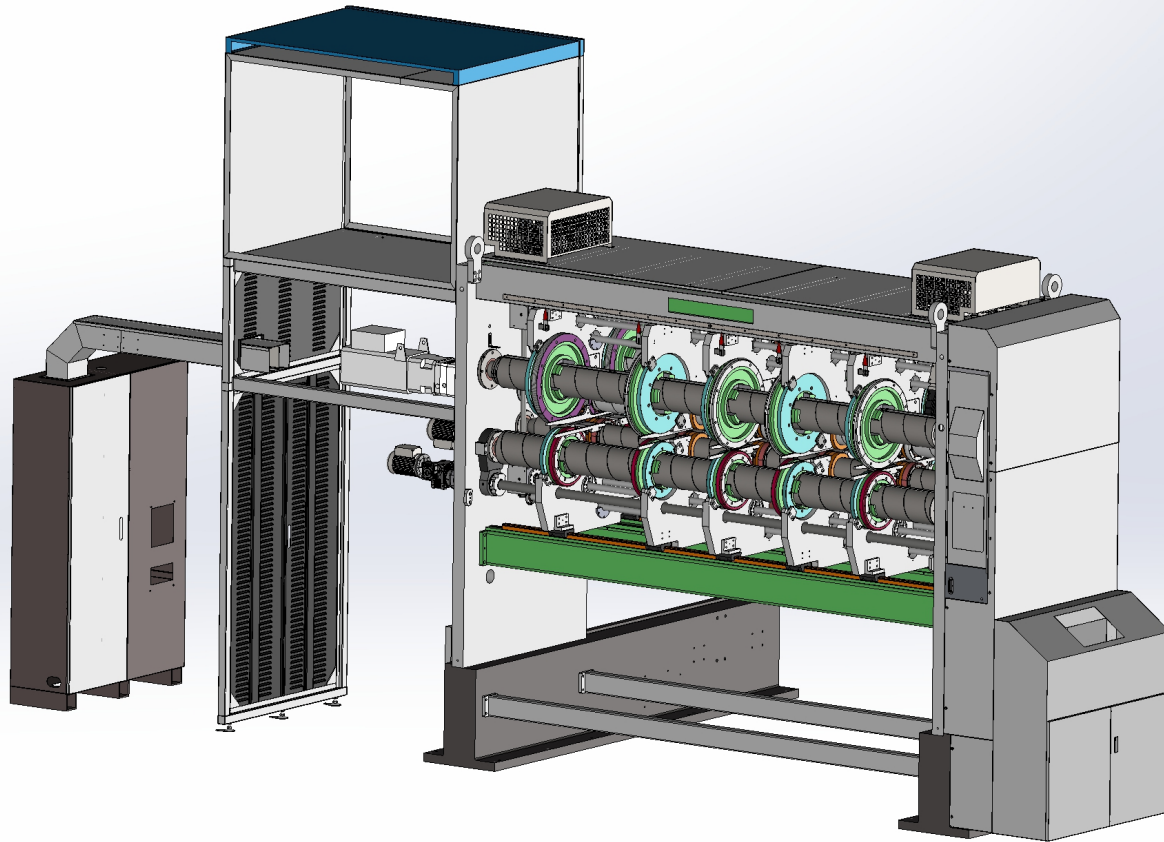


※ Permanent magnet blower is applied to save about 10% energy compared to traditional blower. Dust collecting system is applied.





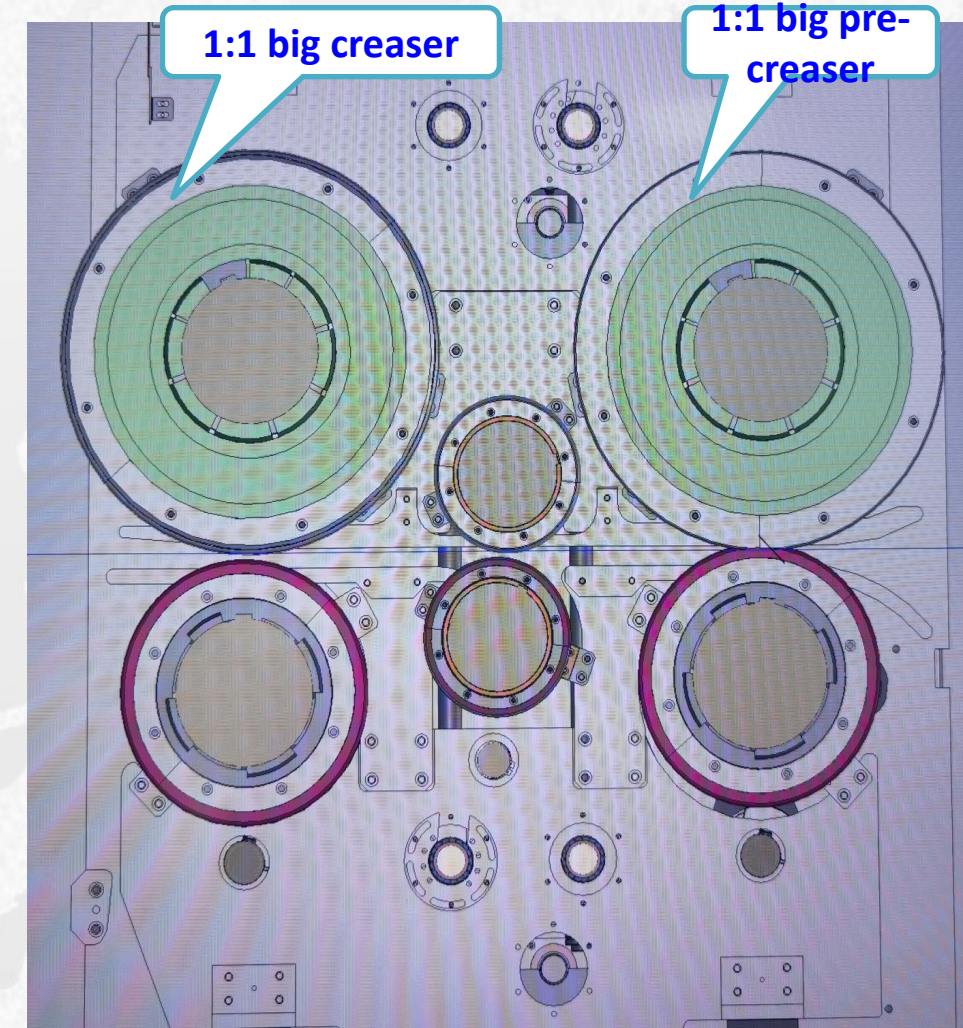
- Independent creaser unit with servo motor drive.
- Horizontal movement of creaser: Lead screw matched with linear guides to ensure flexible and accurate movement.
- Horizontal movement of pre-creaser/creaser and knives holder is motorized and computerized.



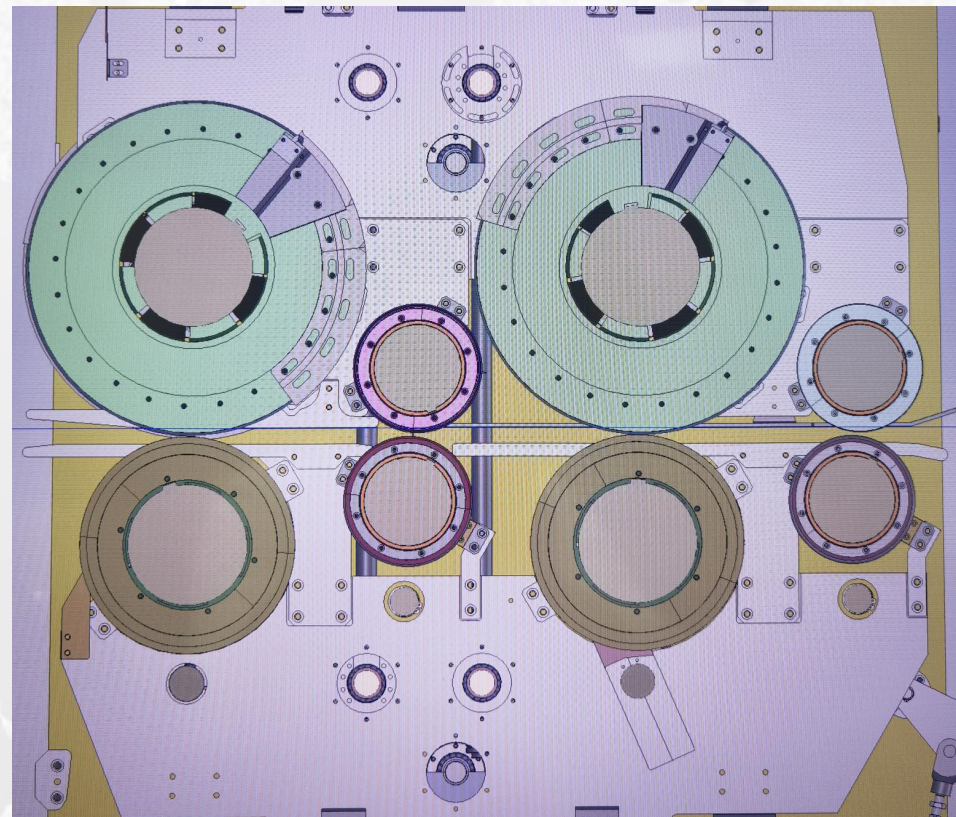
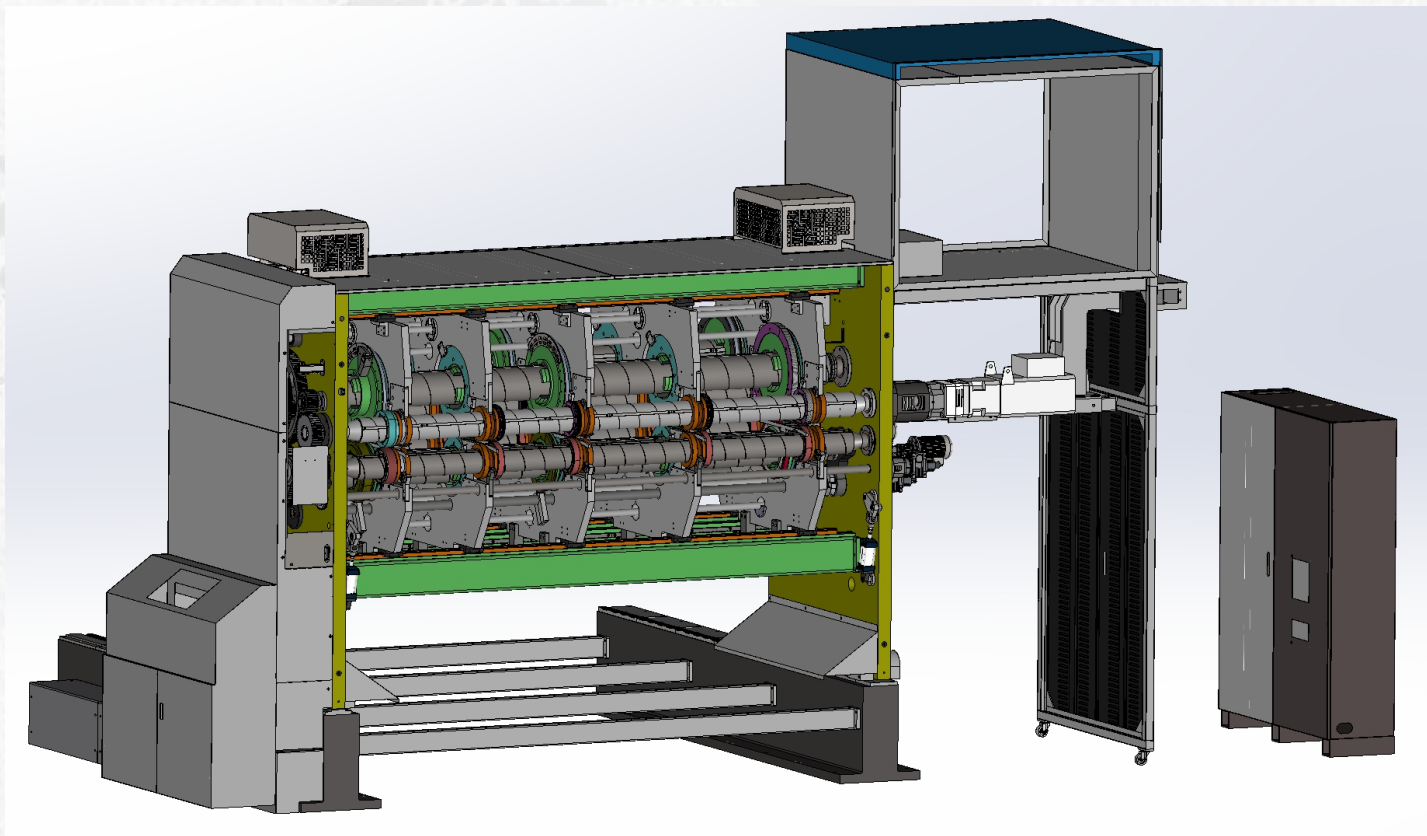
- Creaser unit: applied 1:1 big creaser structure for better performance.

Bottom creaser covered by polyurethane, no crush on paperboards (optional).

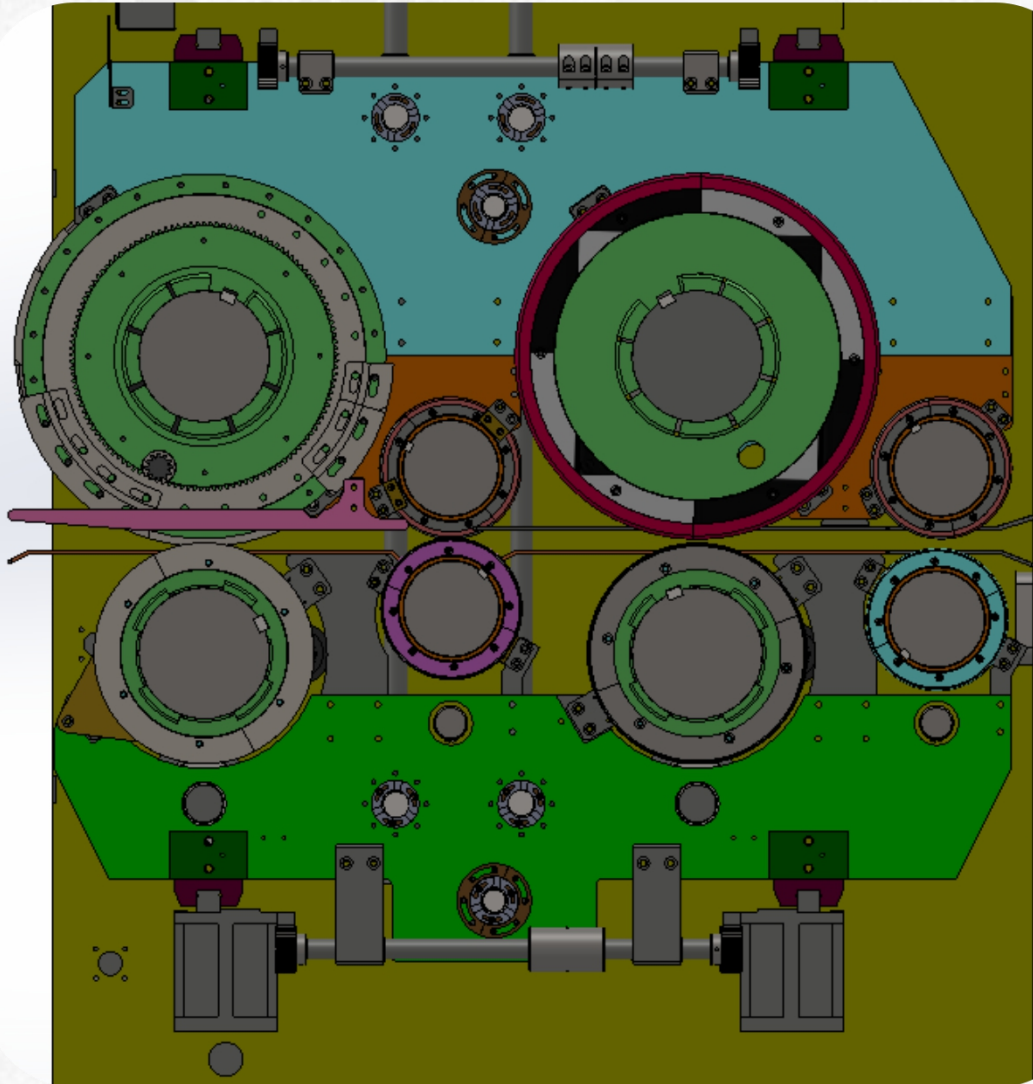
- Half wide or thin creasing is optional to big pre-creaser and big creaser.





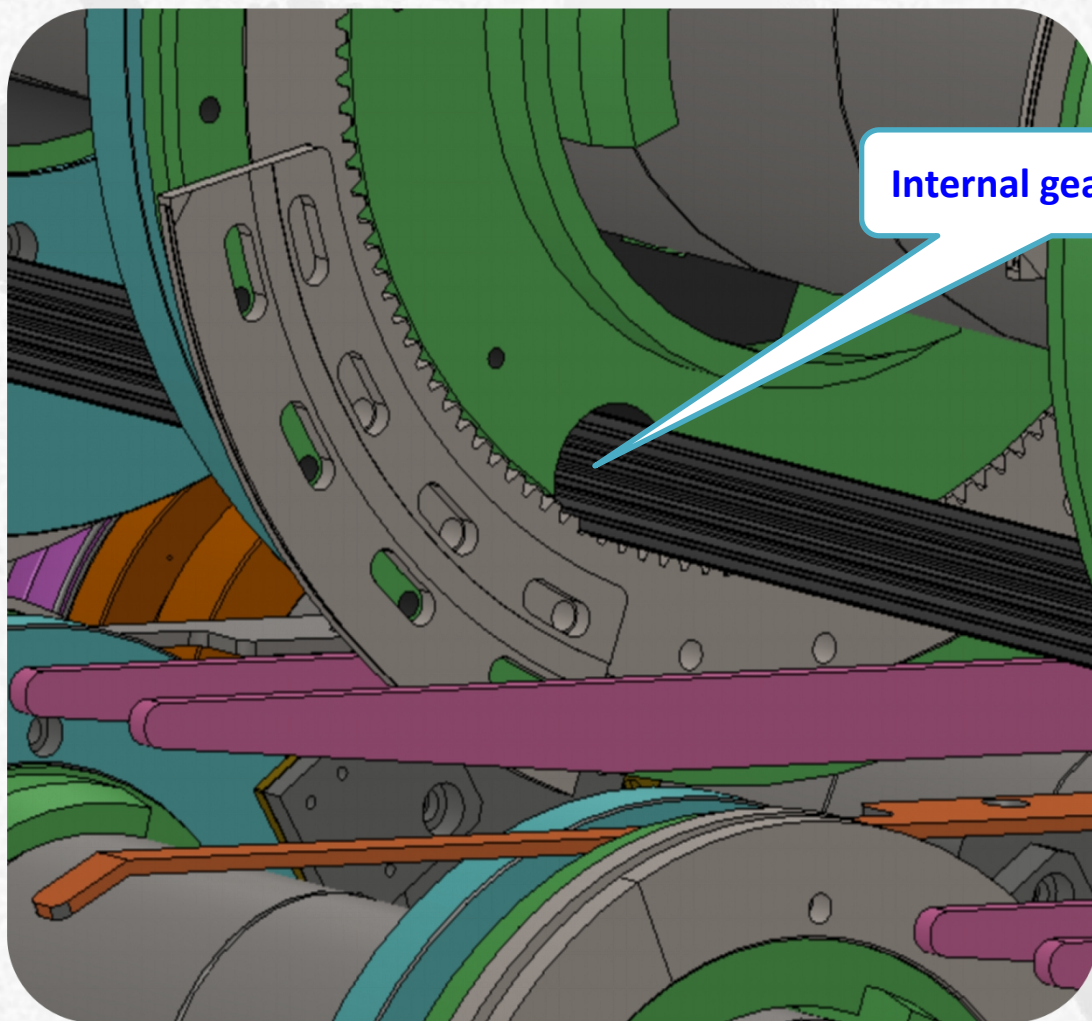


- Double shaft slotter with servo motor drive.
- Horizontal movement of knives: lead screw with linear guides for fast and accurate movement.
- Horizontal movement of pull wheels and knives holders is computerized.



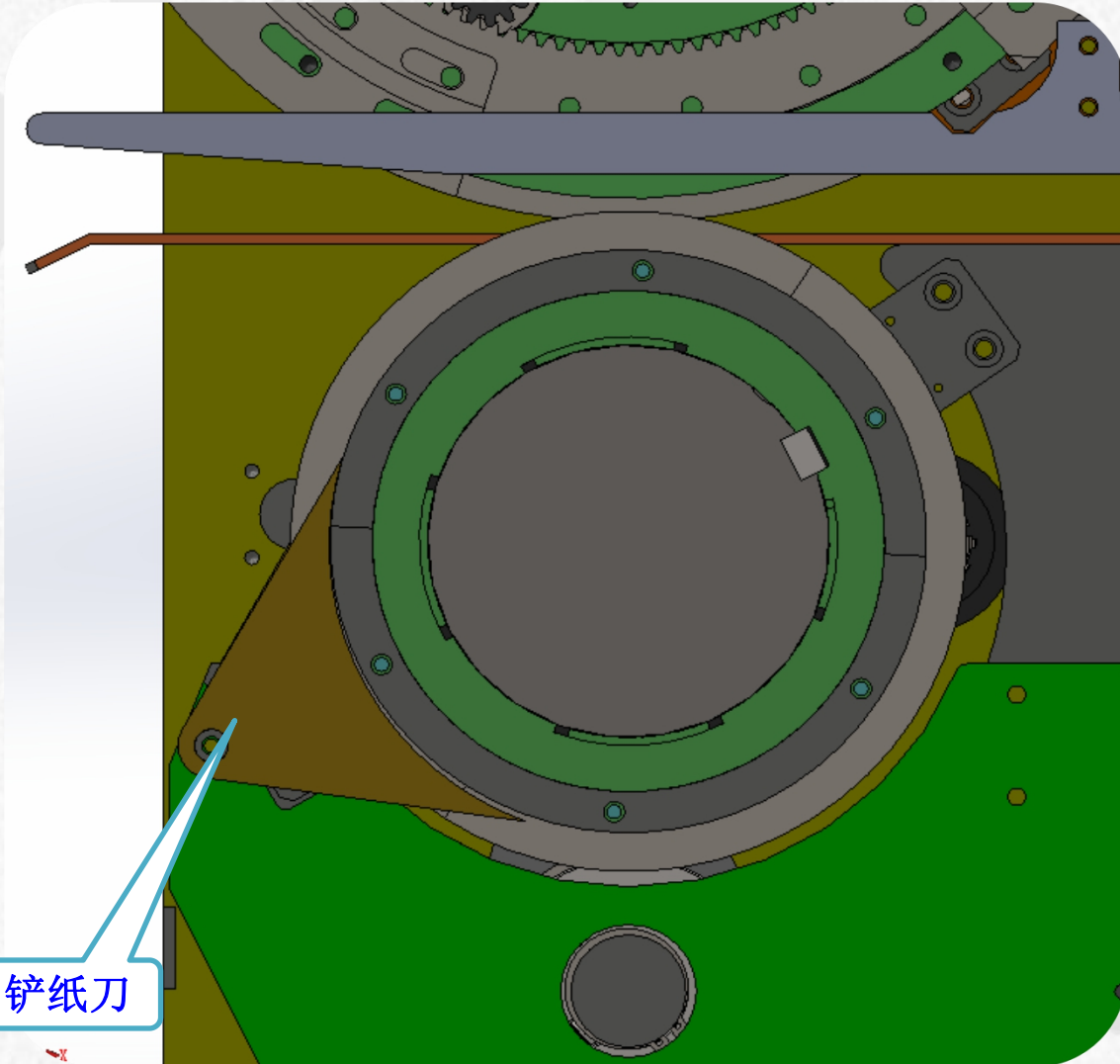
- ※ Single shaft slotter is optional (with double creaser)
- ※ Applied 1:1 big creaser structure for better performance. Bottom creaser covered by polyurethane, no crush on paperboards
- ※ Horizontal movement of knives: lead screw with linear guides for fast and accurate movement.
- ※ Upper and lower knife holders move with linkage structure to ensure perfect alignment and longer service life of knives.
- ※ Paper cutter device before trimming knife.





Internal gear structure

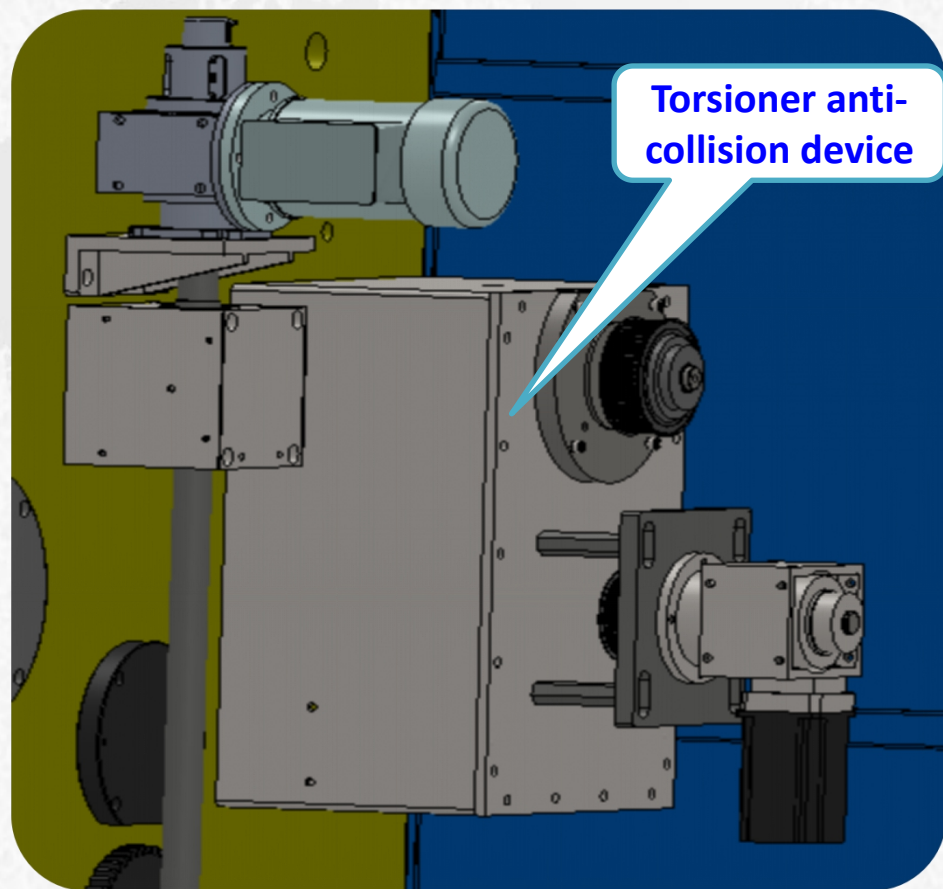
※ Internal gear structure to adjust slotting height, which help avoid stain from lubrication. The gear is perfectly matched to reduce friction when push plates moves. (single shaft slotter)



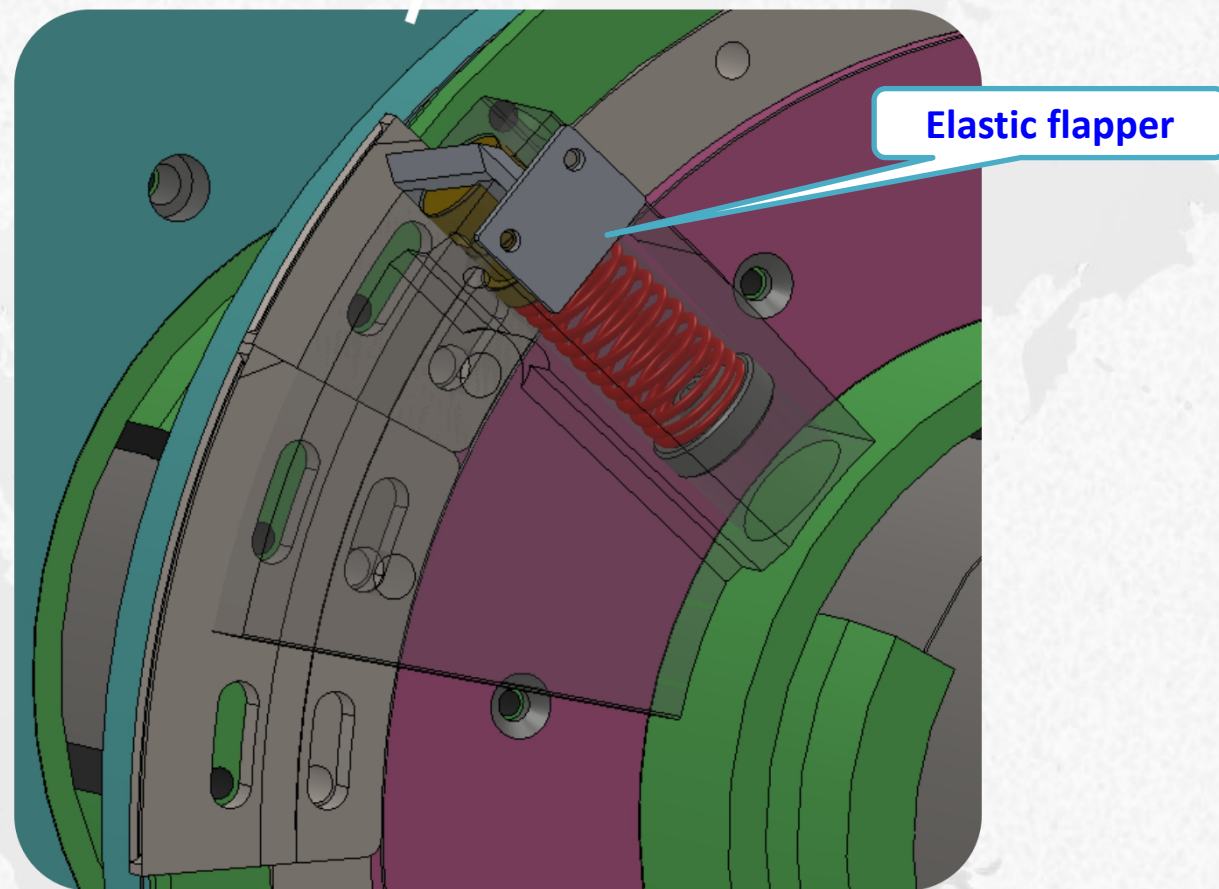
铲纸刀

※ Shovel knives using gravity principle: according to pivot and force of gravity principle Shovel knife will fall down naturally and soft touch with knife groove core. Less wearing

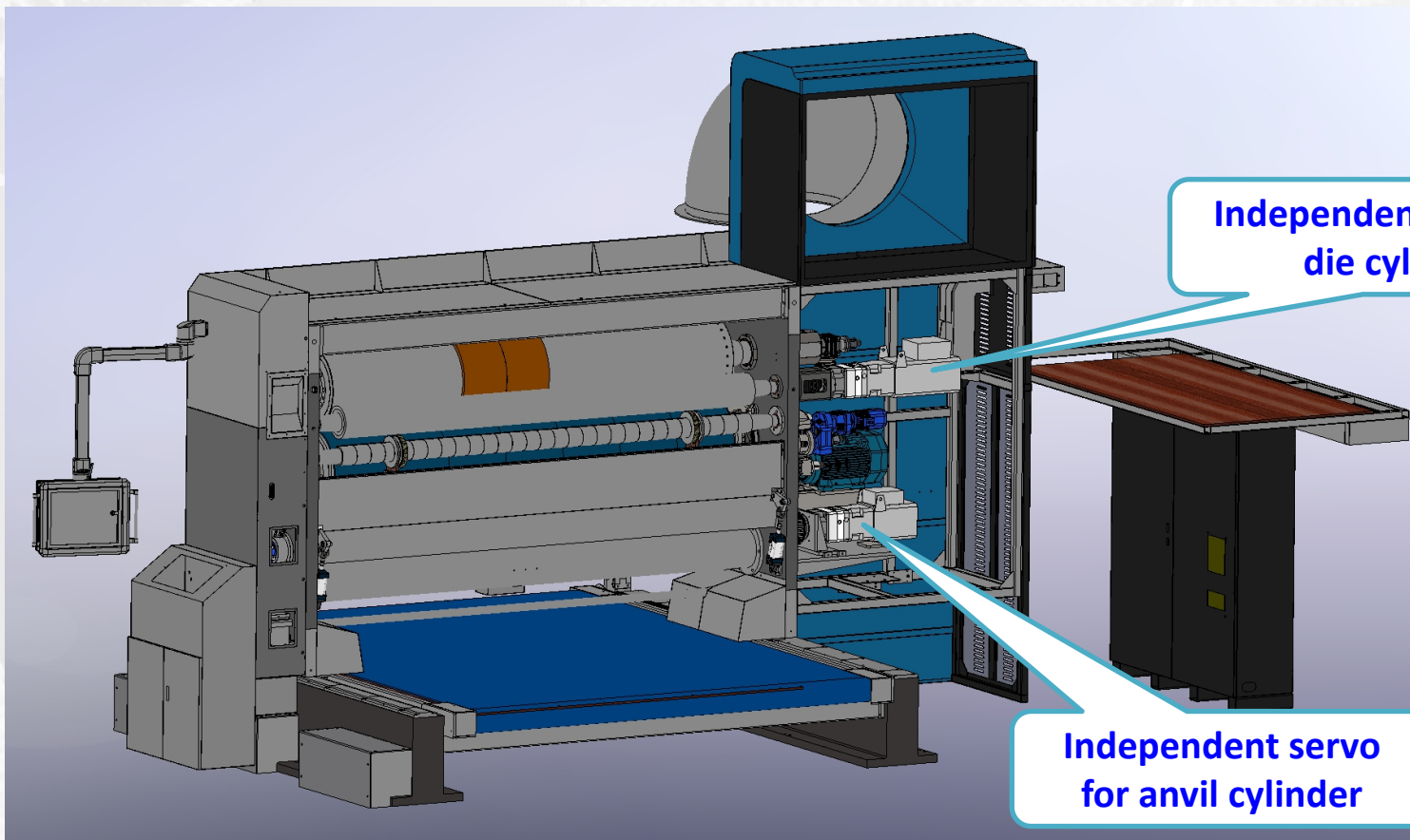




※ Torsioner anti-collision device is applied to slotting height adjustment. when friction increases, it can protect the machine from damage. (Single shaft slotter)



※ Elastic flapper can cut 3 and 5 ply paperboards without adjustment.



- Servo Drive for die-cutter unit.
- Independent motor for anvil cylinder compensation to control the speed. Compensation scope is  $\pm 3.5\text{MM}$ .





## SUN MicroGrind<sup>®</sup> system for die-cutter precision







Ensure precision of extremely long die-cutting requirements



## Advantages of SUN MicroGrind system

- Automatic grinding and adjusting speed of anvil cylinder at the same time, no need for operator interference.
- Ensure same die-cutting performance and neat cutting.
- Ensure more production time.





## Benefits of non-stop grinding

Calculated with grinding 5.5mm:

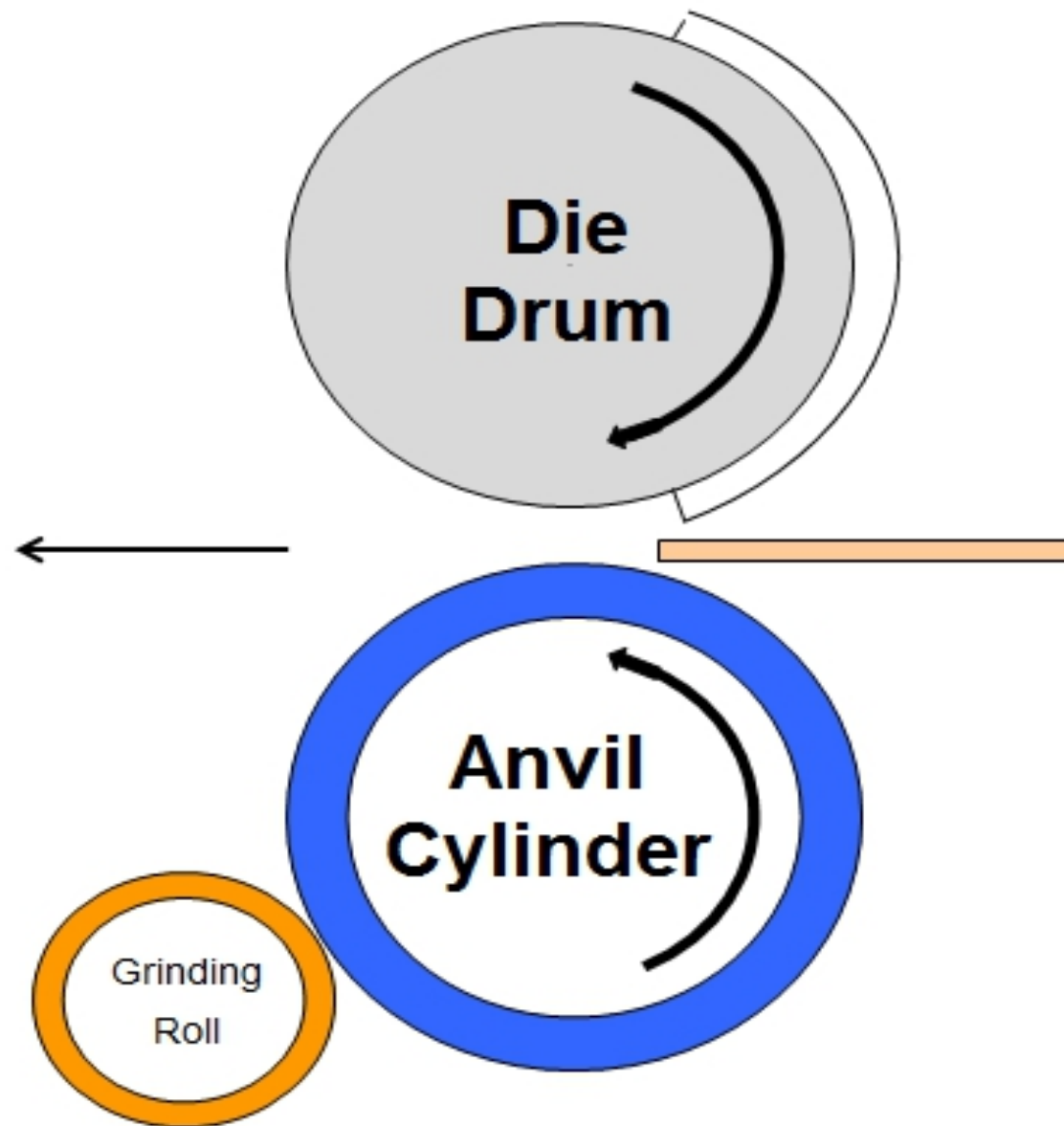
$5.5\text{mm}/0.025\text{mm} \times 10000$   
= 2,200,000pcs good cartons

50,000,000pcs cartons per year,  
reduce 1% waste, save value about  
500,000pcs of cartons.

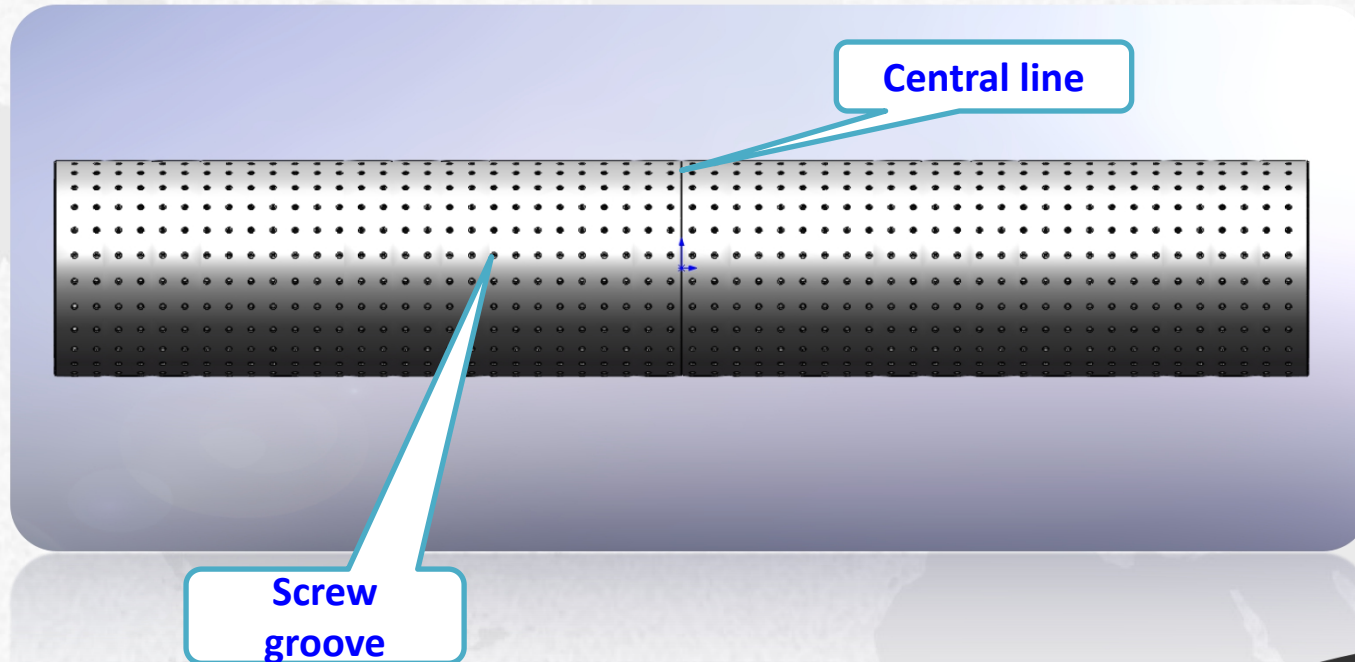




Excellent die-cutting precision  
guarantees about 25% higher waste  
removal.





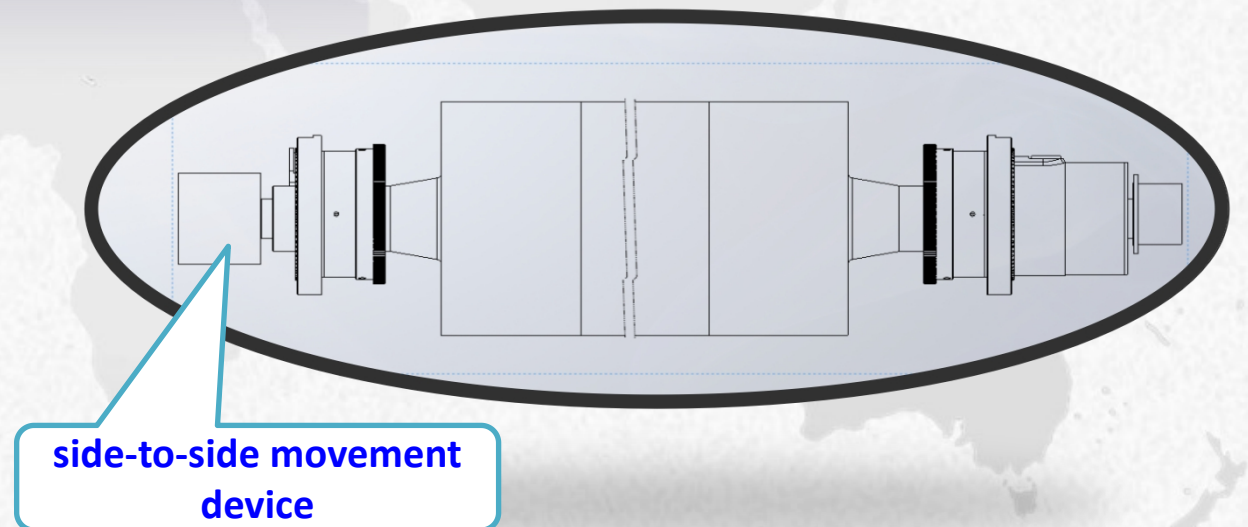


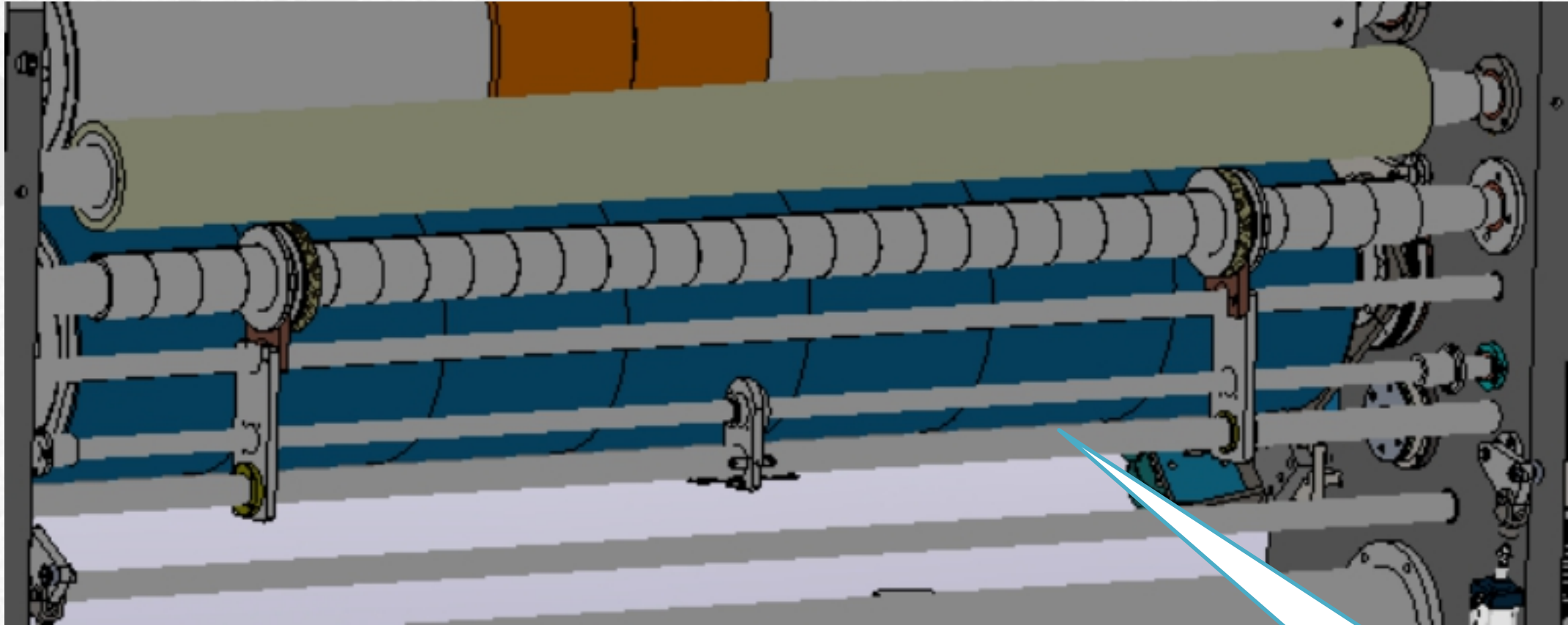
※ No holes on central line. the holes lays from center to both sides evenly for accurate positioning of wooden die.

※ All holes are inserted with screw. easy change.

※ 50mm side to side oscillation of anvil cylinder.

※ Anvil cylinder compensation controlled by independent motor to adjust the speed. The compensation scope is  $\pm 3.5\text{MM}$ .

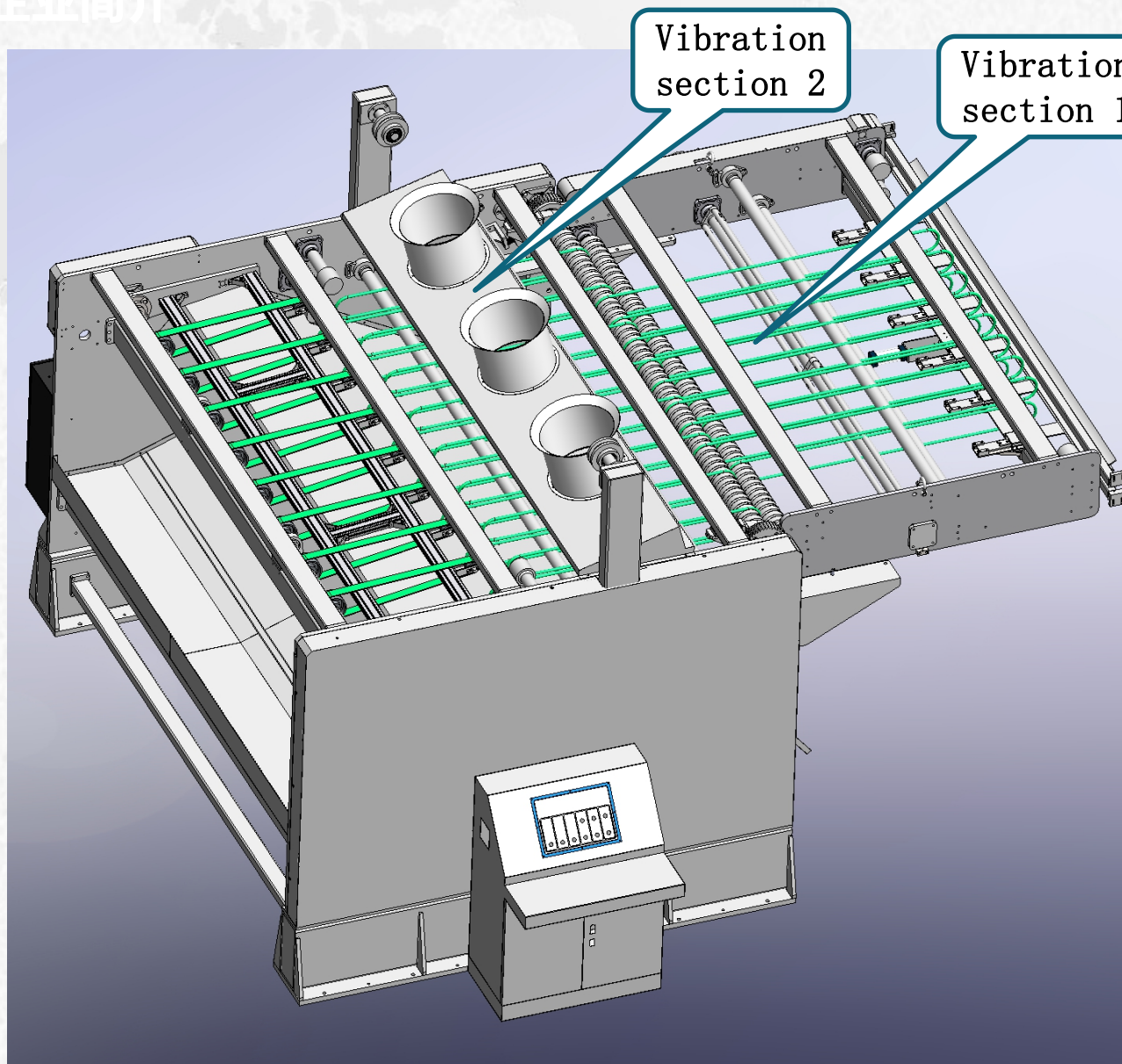




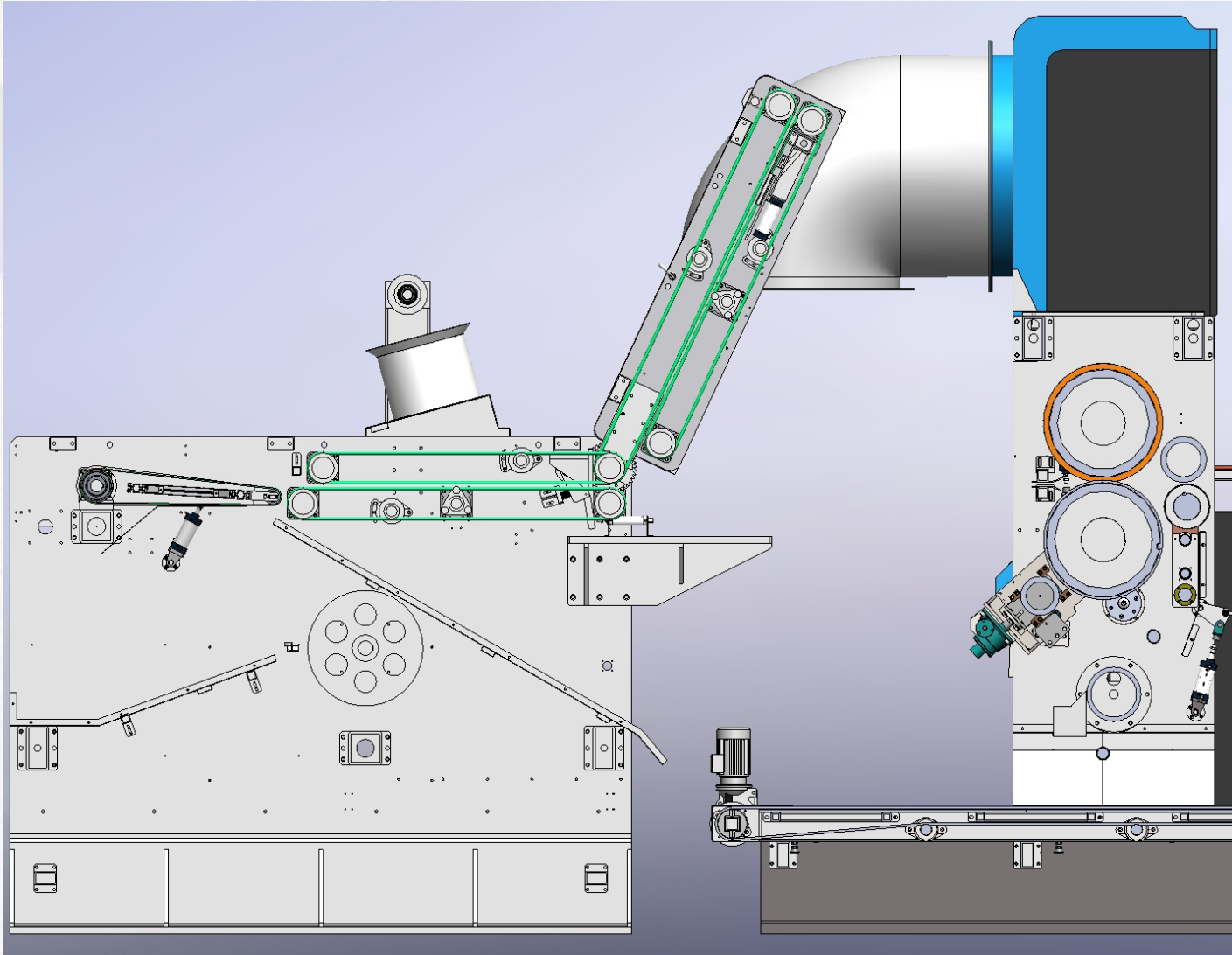
Lead screw adjustment

※ Pull wheels controlled by motorized lead screw.



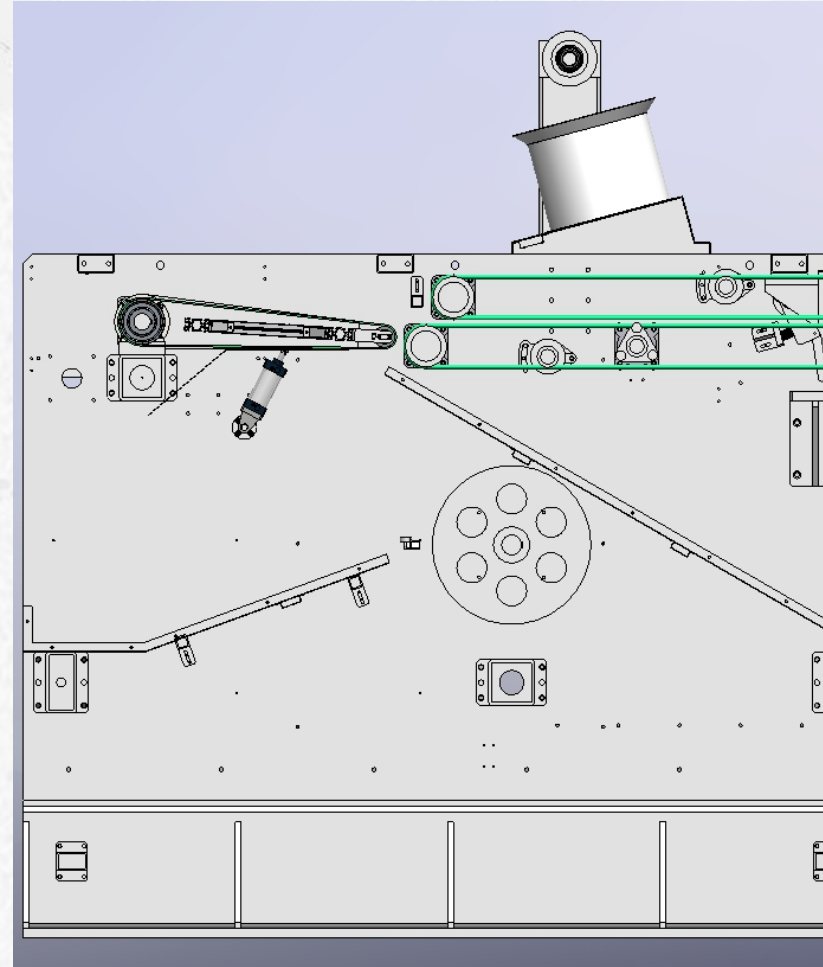
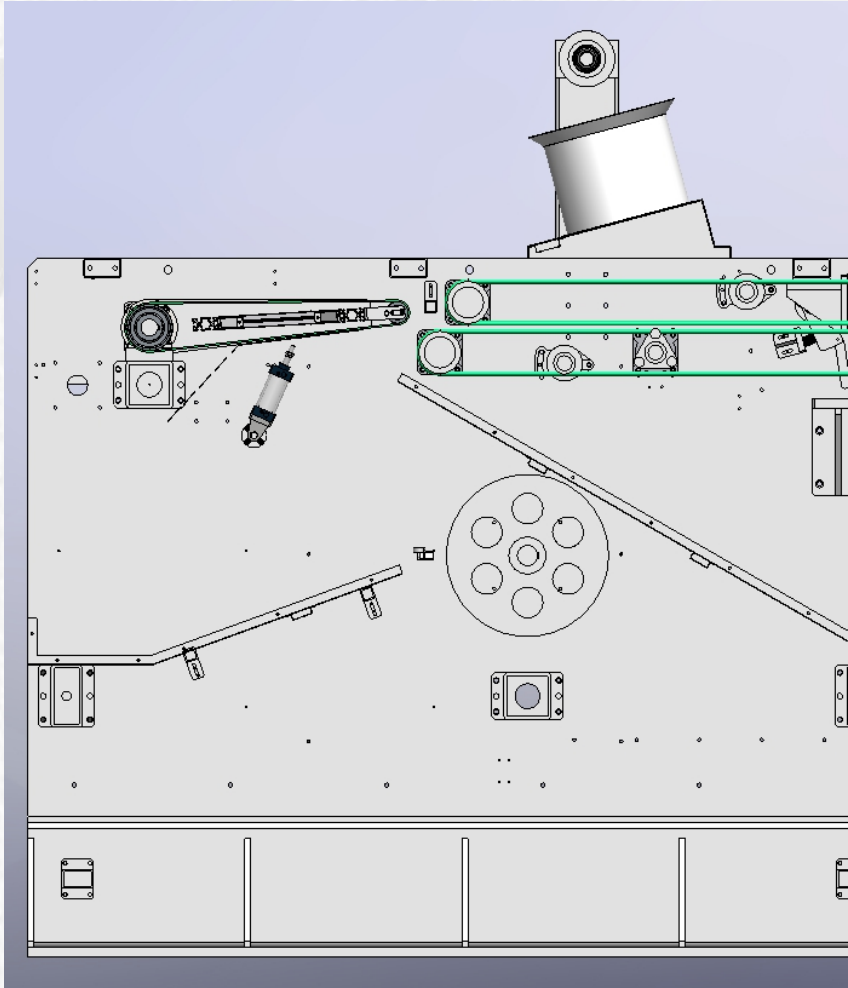


- ※ Applied with inverter drive
- ※ 2-sectional high frequency vibration
- ※ 3 blowers with high power
- ※ Available to do 1 into 3 die-cutting and vibrating

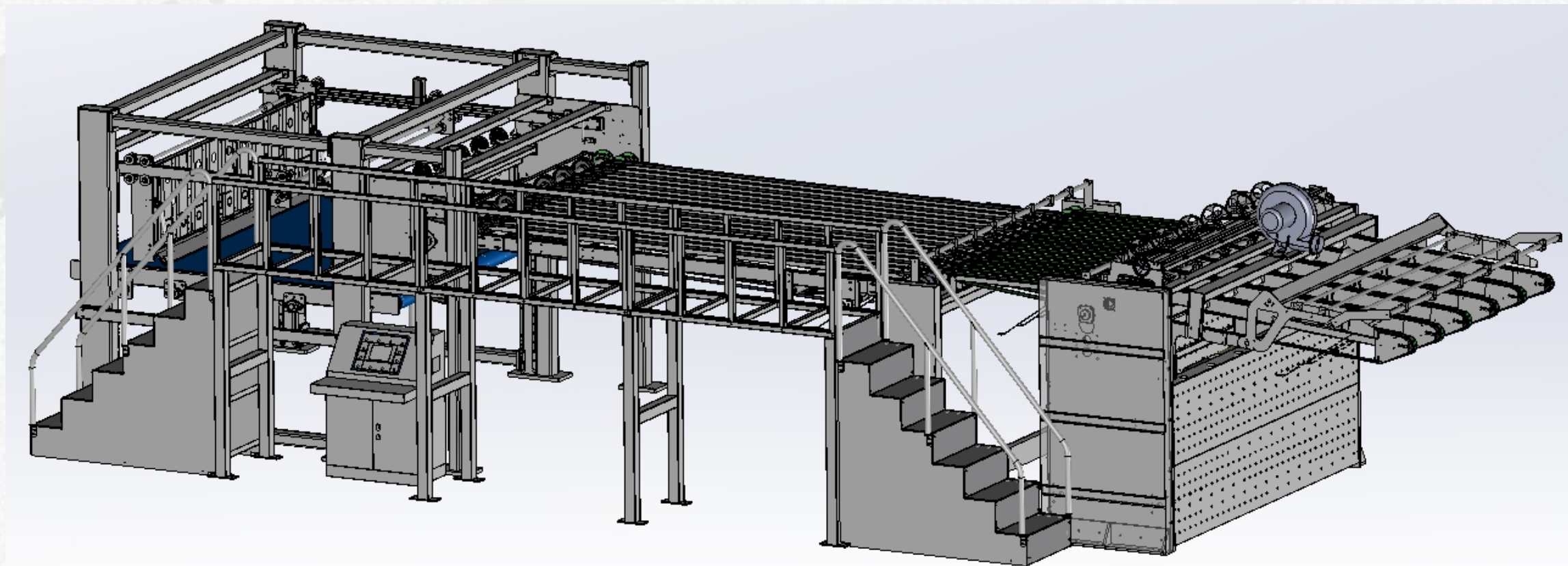


※ First section is foldable for easy change of wooden die. Equipped with anti-drop device.





※Equipped with sampling device after vibration.



※Counter stacker (Stacking height 1700mm)

※4-sectional servo drive to ensure counting accuracy.

※Motorized stoppers.





**合作共赢**

**THE END, THANKS!**