

COMPACT SPINNING SYSTEM

Ningbo DeChang Precision Textile Machinery Co., Ltd.

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DECHANG

Company Profile

Ningbo Dechang Precision Textile Machinery Co.,Ltd ("Dechang Textile Machinery"), a high and new technology enterprise, specializes in research, manufacture, sales and service of Compact Spinning Device. We are located in Ningbo Hi-Tech Zone and main products are compact spinning devices and Intelligent devices related with spinning machine. Since establishment in 2004 Ningbo Dechang is the first Chinese company to break the foreign technology monopoly. Afterwards we developed and produced high standard compact spinning devices which are largely sold domestically and overseas. In 2007 we are granted for the award of " National Second Award for Technological Invention". Our excellent product performance and after-sale service have got customers' trust and built good reputation in the market .Thus we are given the name of "Expert of Compact Modification".

Dechang Textile Machinery is one subsidiary of YunSheng Holding Co.,Ltd, which has more than 10 subsidiaries and was listed at Shanghai Stock A market in October, 2000. (Stock Name Abbreviation: Ningbo Yunsheng with Code "600366").

Relying on the strong economic & technical base of headquarter, we constantly improve our products and keep innovation to introduce more automatic & intelligent textile machinery in high quality and good price.

Enterprise Culture

Enterprise Vision

To be the industry leader

Enterprise Spirit

To spend each day valuably

Core Value

To be a respectable person,to build a respectable enterprise



Strong Technical Support

Ningbo Dechang has always been committed to the technological innovation and has the Provincial High & New Technology Enterprise Research Center. We are granted for the Key Technological Innovation Team by Zhejiang Provincial government. We also participate to draft two textile industrial standards, which are "Lattice Apron for Compact Spinning Device" with Standard No. FZ/T 930682010 and "Compact Spinning Device" with Standard No. FZ/T 930732011. So far we have 24 national invention authorized patents and are given "National Award for Technological Invention" & "Science & Technology Prize from China Textile Industry Association



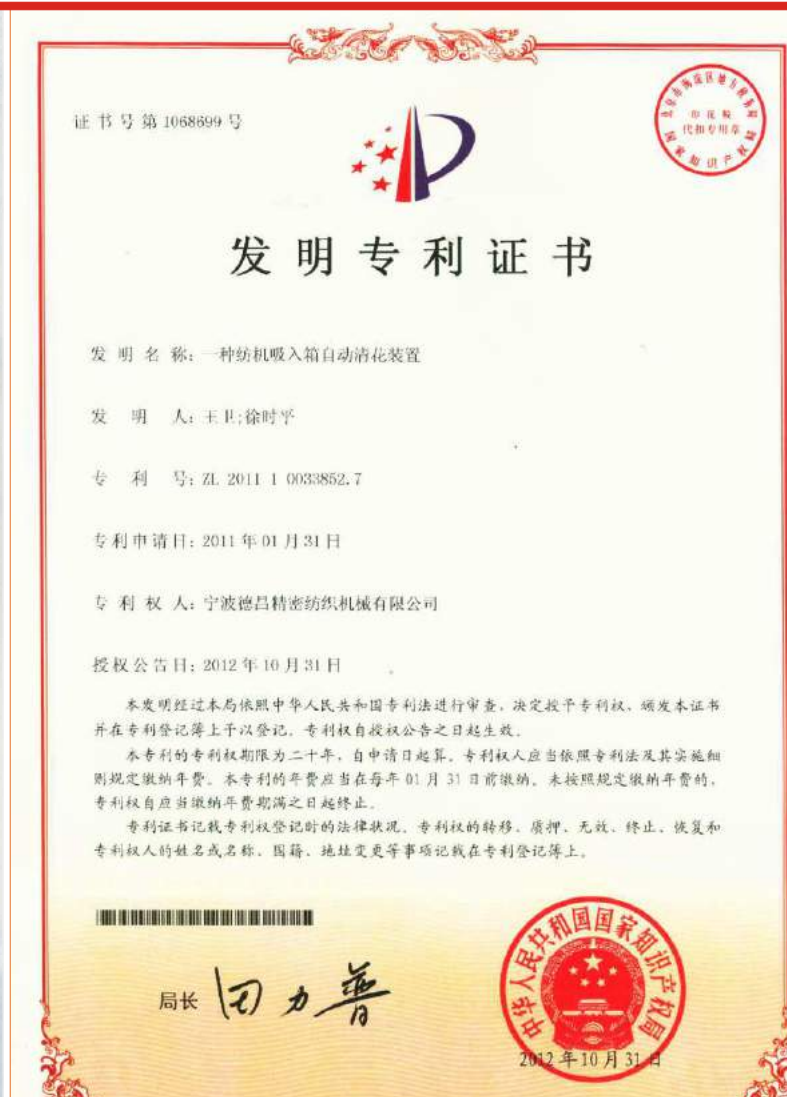
National Award for Technological Invention



Chairman Zhu Meets with Heads of State of China



Excellence Award of china Patent



Wide Customer Base

Ningbo Dechang not only takes up big market share in China but also exports large number of products to Pakistan, India, Bangladesh, Turkey, Vietnam and Indonesia. Our sales and after-sales team are fully responsible for customers directly and have established good reputation in the market.



Compact Spinning

Ningbo Dechang can not only supply Three Rollers System which is proven in the market but also introduce new Four Rollers System. This system with unique traits is developed on the basis of our Three Rollers System and we have optimized the compact gearbox and suction tube according to our rich experience. Now our two system can be installed on a variety of ring frames and can spin long fiber up to 51mm.

To keep up with the situation of increasing requirements for automatic equipments in textile industry, apart from compact spinning system for cotton and synthetic fiber, Ningbo DeChang is expanding the business into Low Twist Device, Full-Auto Rubber Cots Grinding Machine, Four Roller Compact Spinning Device for Spinning Wool and other auxiliary equipments. Innovation is endless so Ningbo Dechang will keep moving and bring more and more automatic textile machinery in high quality and good price for our customers.

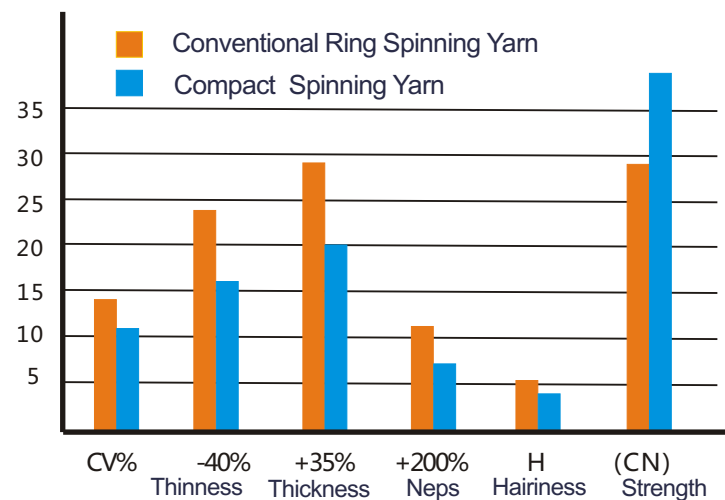
① Drafting System

The erection of our drafting system is very simple, convenient and we design a special bracket fixed on roller stand can be adjusted both for compact yarn spinning and normal yarn spinning. This system can be installed on all kinds of ring frames like FA506, FA1518, DTM129, EJM168, EJM128, G5/1, RY-4, LR6/S, LR9, G35, G33, RX240, RX300, KTTM. To meet different customers' requirements we give Three Rollers System and Four Rollers System.

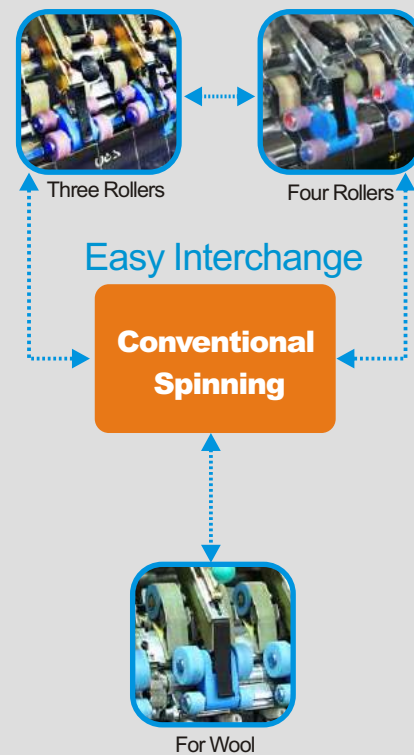
② Suction System

- Spindle negative pressure is uniform and adjustable. pressure difference between first & end spindle is very small
- Suction system with overhead large section pipeline, concise & elegant appearance. No block the line of sight and easy operation.
- Power consumption is less than Toyota type system and less consumable parts & easy maintenance
- One motor & fan in machine off end or gear end
- Auto cleaning system (Optional)

Compact Spinning Yarn



- Dramatically Reduced Hairiness
- Greatly Improved Strength
- Decreased Yarn Faults
- Better Evenness



Conventional Ring Spinning Yarn

Compact spinning device can be designed according to different ring frames and it has two main systems i.e. drafting system and suction system. Our systems can be suitable for spinning yarn in wide range of fiber length and its drafting ratio can be changed according to fibers. Adjustable negative pressure, power-saving, concise appearance and high ventilation efficiency are all the advantages of suction system.



Types of Compact Spinning System for Various Fibers

- | | | | |
|--|--|---|--|
| | | <ul style="list-style-type: none"> • Cotton • Wool • Man-made • Blends • Dyed Yarn | <ul style="list-style-type: none"> • Combed Yarn • Carded Yarn • Siro Yarn • Core Yarn • Slub Yarn • Solo-Spun |
|--|--|---|--|

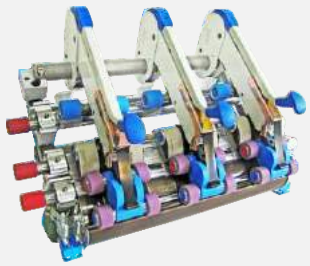
Compact Drafting System

Four Rollers System

Dechang Four Rollers System not only has all traits of Dechang Three Rollers System, but also is suitable for long staple fiber because of its longer suction tube slot and arbours distance of gearbox. Our system suits on long frames modification due to lower torque on existing front bottom roller and lower power consumption. The negative pressure for spinning single yarn is 2.0-2.7 KPa and for Siro yarn 1.7-2.0 KPa.

Machine with spring top arm, the pressure on compact gearbox is from top arm so the pressure is constant and stable. Machine with pneumatic top arm, small modification to be done and we will keep top arm the same in precision. To replace the gearbox & negative pressure tube on Three Rollers System, it can be our Four Rollers System. Or we can change German made drafting system only to replace gearbox & negative pressure tube. It is easy to interchange between conventional yarn spinning & compact yarn spinning. Modification suits on all type of ring frames, such as FA506, FA1518, DTM129, EJM168, EJM128, G5/1, RY-4, LR6/S, LR9, G35, G33, RX240, RX300, KTTM.

For General Machine (Spring Top Arm)



For General Machine (Pneumatic Top Arm)



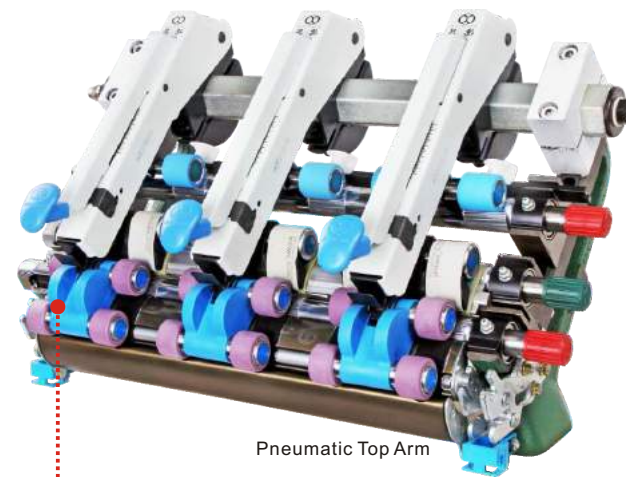
For LMW Machine



Compact Drafting System Four rollers system

For General Machine

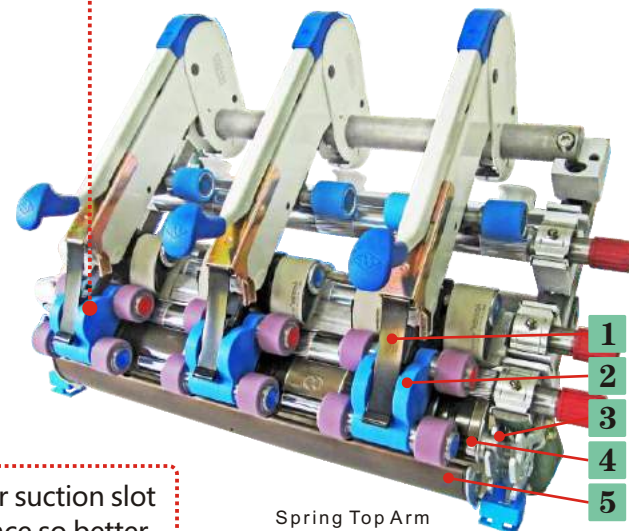
Dechang Four Rollers System can be applied to a variety of ring frames. Small modification is to be done on top arm so precision kept same. This system can be installed on very long machine and low torque on front bottom roller. Gearbox drafting distance is long so it can be used for spinning medium and long fiber yarn. Drafting ratio could be changeable according to different fiber. The negative pressure for spinning single yarn is 2.0-2.7KPa and for Siro yarn is 1.7-2.0KPa. To replace the gearbox & negative pressure tube of Three Rollers System it can become Four Rollers System. This system can be changed back to conventional yarn spinning easily.



Pneumatic Top Arm



Bigger 32T Intermediate gear with roller bearing with long lifetime.



Spring Top Arm

Longer suction slot distance so better yarn compact effectiveness.



1 Claw of Pneumatic Top Arm

1 Fixing Nip & Flake

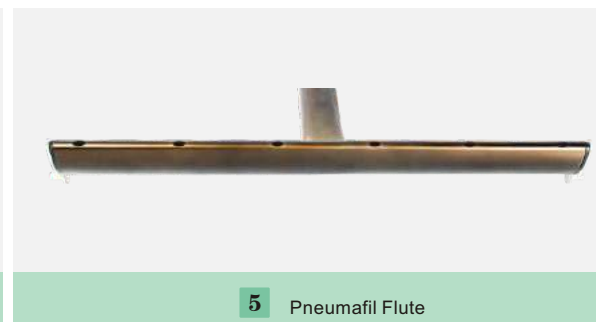


2 Gearbox

3 Bracket



4 Negative Pressure Tube



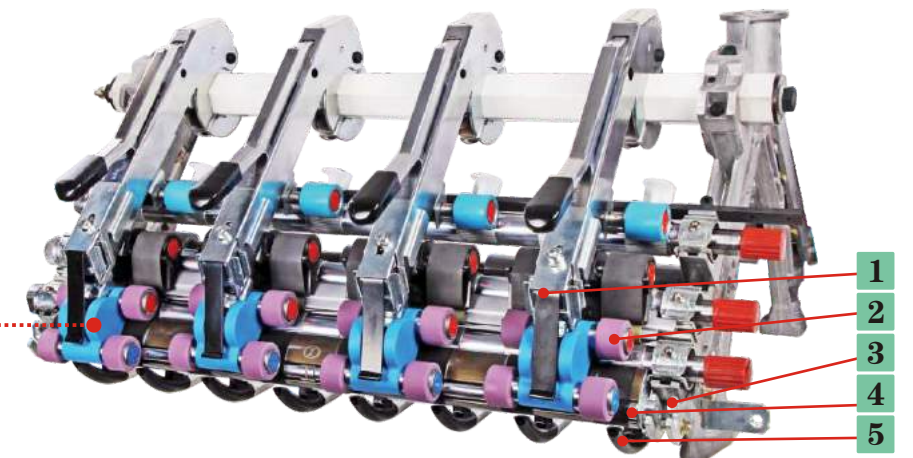
5 Pneumafil Flute

For LMW Machine

For LMW Machine, Dechang will supply tailor-made Four Rollers System and installation is easy with limited change on existing machine. Longer suction tube slot better compact effect; Rotating fourth roller low torque on machine front bottom roller. To spin long fiber yarn, Three Rollers System can be changed into Four Rollers System by replacement of gearbox and suction tube. This system can be changed back to conventional yarn spinning easily.



Bigger 32T Intermediate gear with roller bearing with long lifetime.



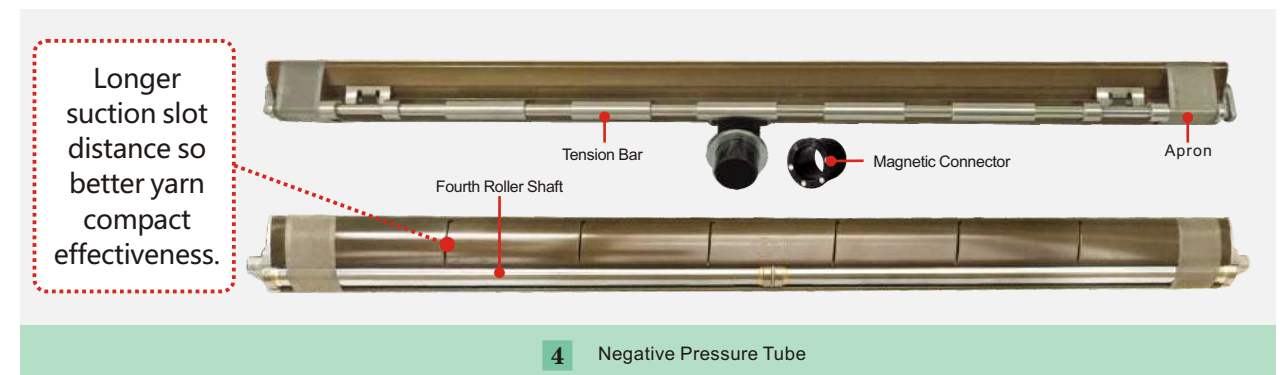
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1 Fixing Nip & Flake

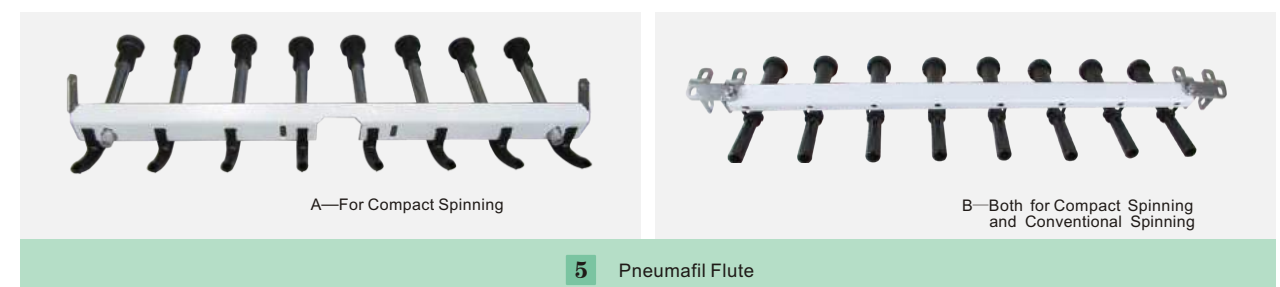
2 Gearbox

3 Bracket



Longer suction slot distance so better yarn compact effectiveness.

4 Negative Pressure Tube



A—For Compact Spinning

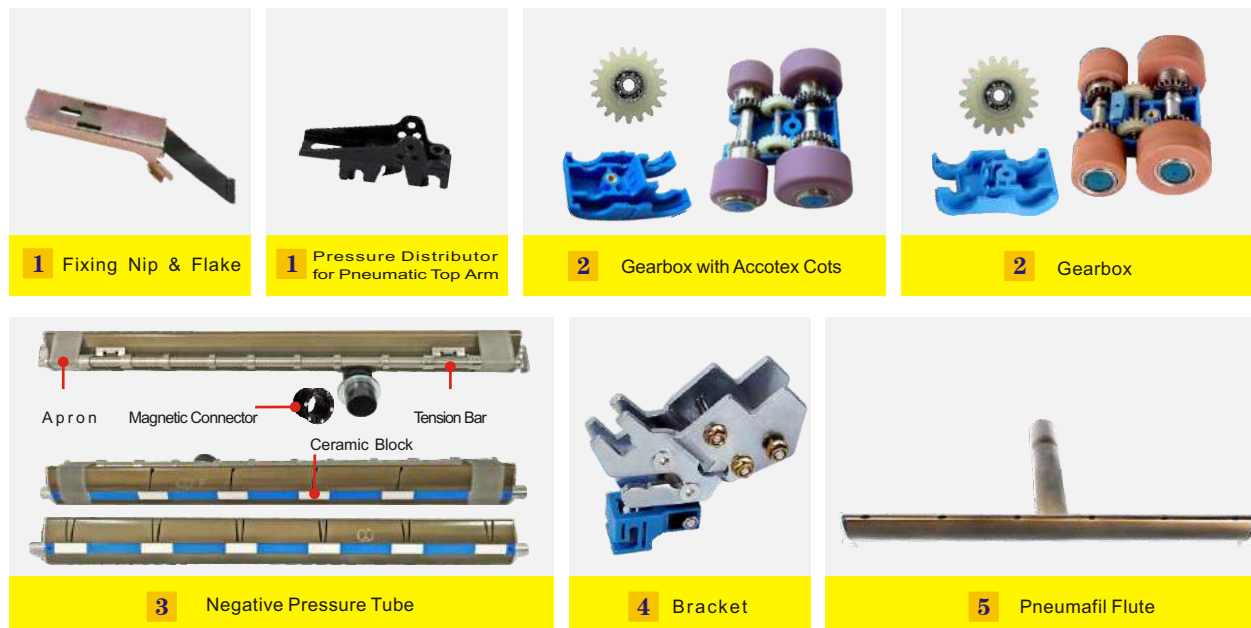
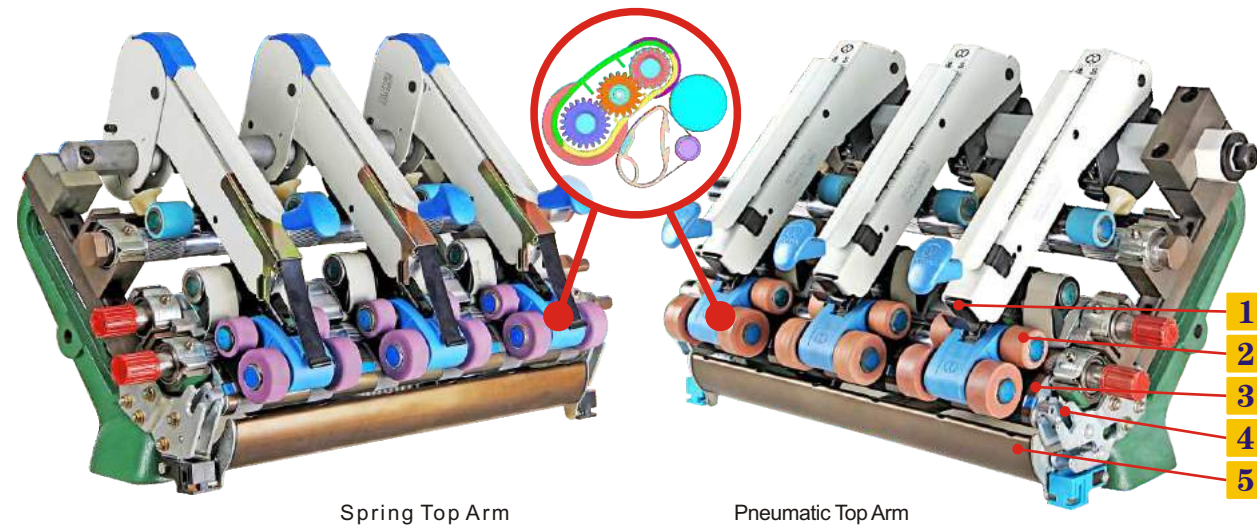
B—Both for Compact Spinning and Conventional Spinning

5 Pneumafil Flute

Compact Drafting System Three rollers system

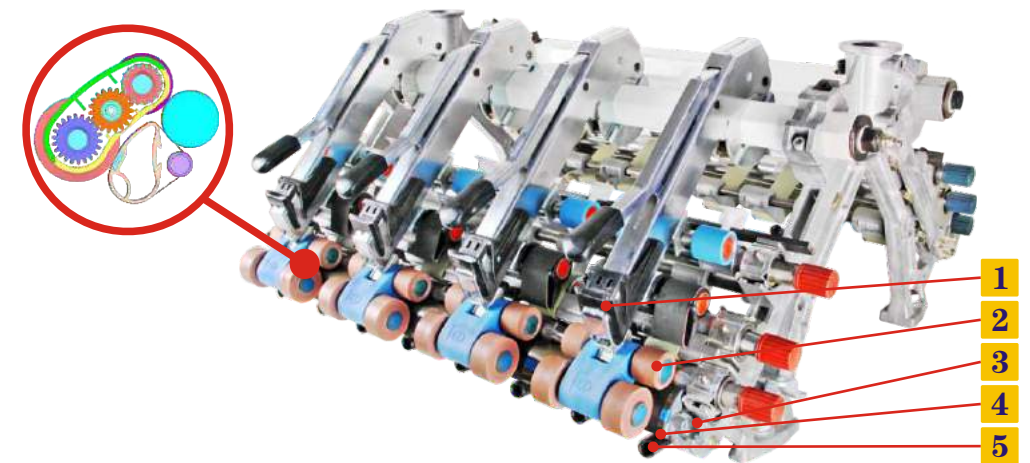
For General Machine

Three Rollers System is suitable for a variety of ring frames, easy erection & maintenance. It can help spin high quality yarn and its flexible drafting ratio is for different fibers. The negative pressure for spinning single yarn is 2.0-2.7KPa and for Siro yarn is 1.7-2.0KPa. The ceramic inserts on negative pressure tube are long lasting wearproof and no need to be replaced. One-piece tension bar makes the mesh aprons dismount easier. Our negative pressure tube can replace German made tube. Easy interchange between conventional yarn spinning & compact yarn spinning. Machine with spring top arm, the pressure on compact gearbox is from top arm so the pressure is constant and stable. Machine with pneumatic top arm, it can make full advantages of its tolerance in big pressure.



For LMW Machine

For LMW machines Dechang will supply tailor-made Three Rollers System and the erection & maintenance is very easy. Our gearbox and suction tube can replace German made parts on compact spinning machine. The ceramic inserts on negative pressure tube are long lasting wearproof and no need to be replaced. One-piece tension bar makes the mesh aprons dismount easier. Customer can choose A type pneumafil flute which is same as German made system and B type pneumafil flute which can be used both for conventional & compact spinning.

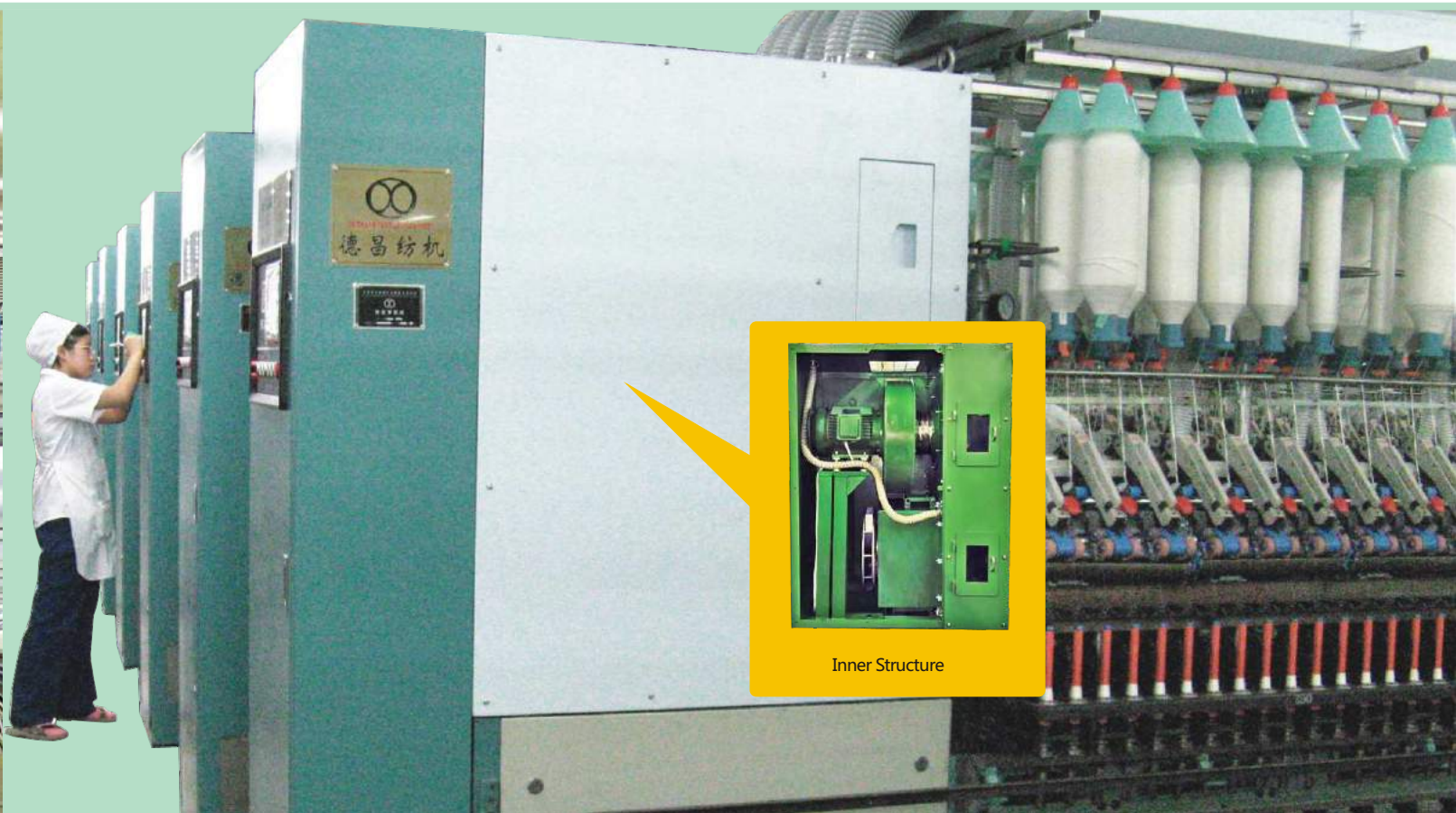


Compact Suction System

- Spindle negative pressure is uniform and adjustable. pressure difference between first & end spindle is very small.
- Suction system with overhead large section pipeline,concise & elegant appearance. No block the line of sight and easy operation.
- Power consumption is less than Toyota type system and less consumable parts & easy maintenance.
- One motor & fan in machine off end or gear end.



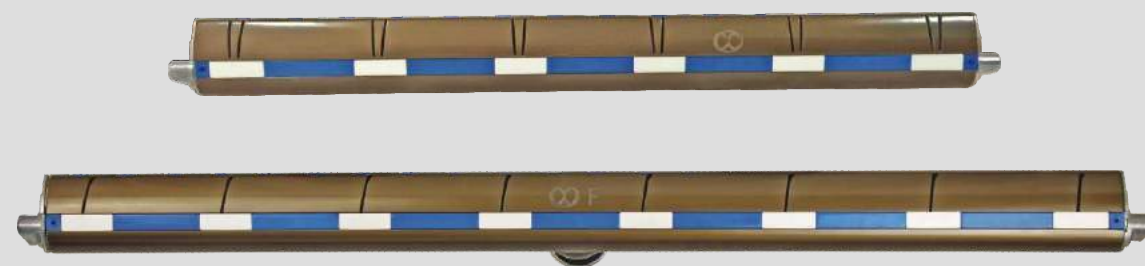
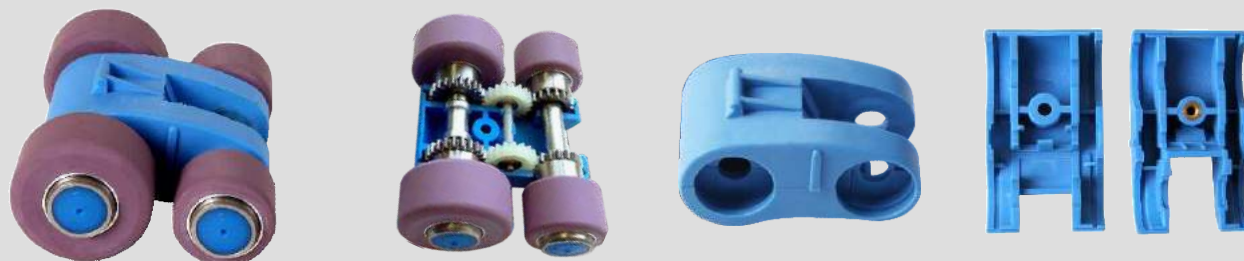
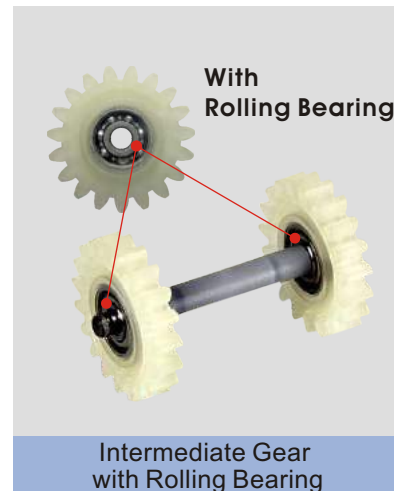
Suction System for Long Frame



Suction System for Short Frame

Compact Spinning Spare Parts

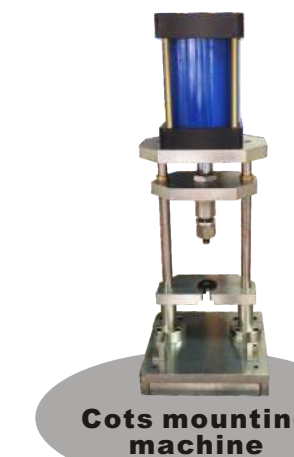
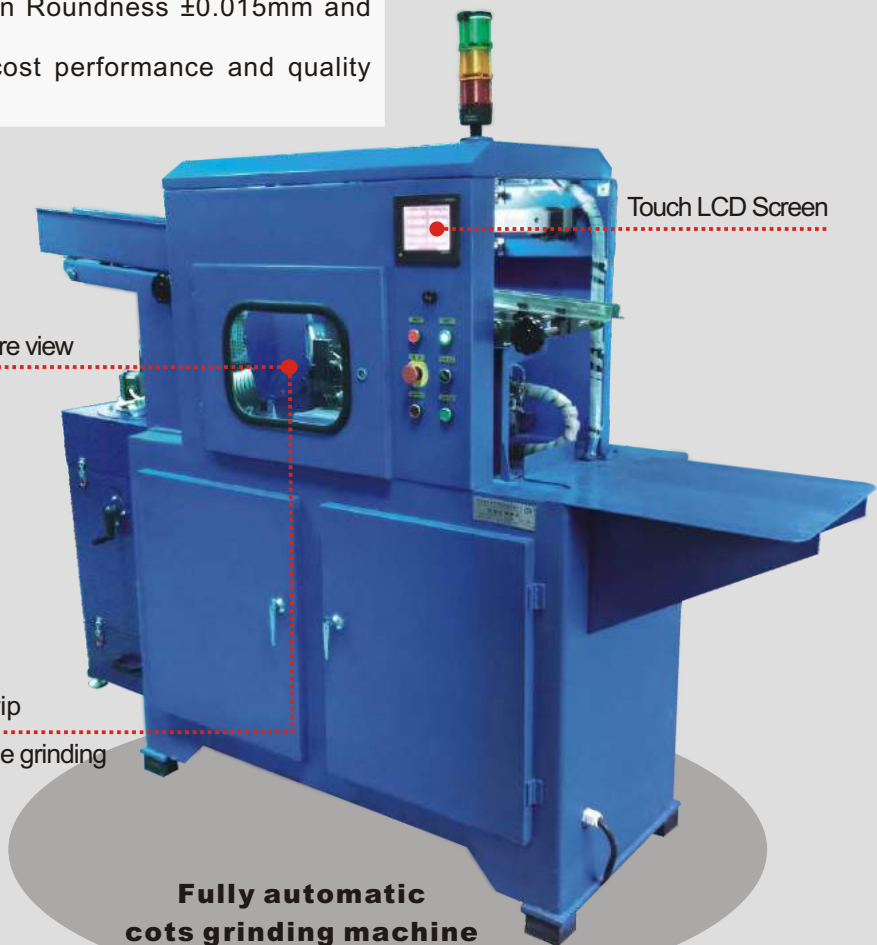
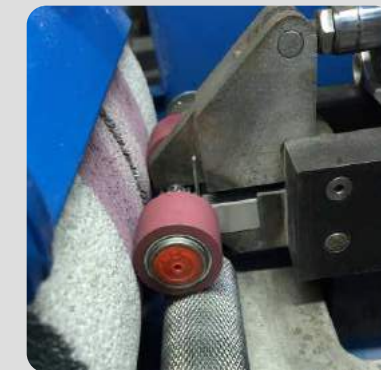
Replace German Made parts with superior quality.



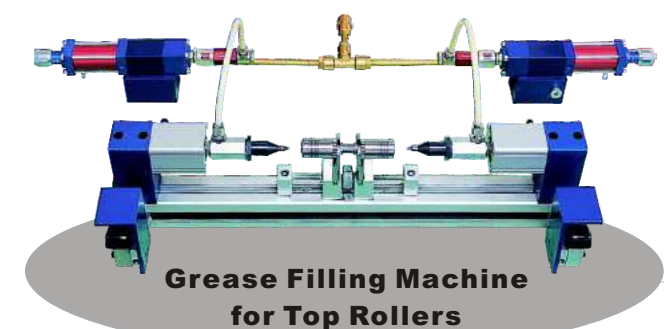
Other Products

Corollary Equipments

- PLC control technology & full automation.
- Operation by touch screen, it can be set various grinding program so the operation is easier. High grinding precision and wide range for application.
- Grinding rubber cot maximum outer dia. 43mm, minimum outer dia 25mm, maximum axis length 190mm.
- Cylindricity precision and Grinding Precision Roundness $\pm 0.015\text{mm}$ and roughness $0.6-1.0\mu\text{m}$.
- Output 1000-1200pcs in 8 hours. Higher cost performance and quality same as imported grinding machine.



High precision, safety, easy hands operation and perfect centring alignment of rollers and cots.



Two ends greasing filling, grease volume under control and safe filling & high speed.