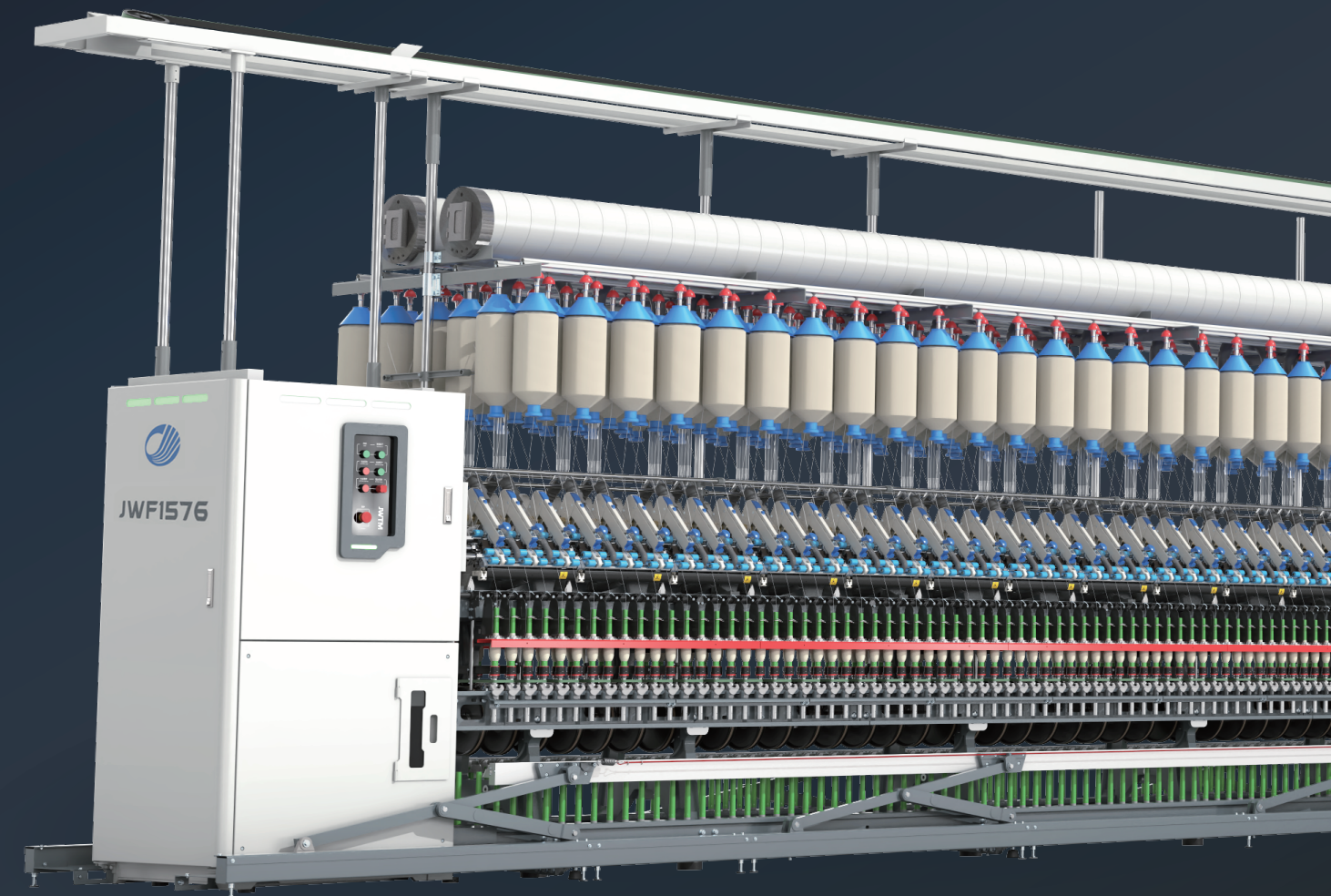


JWF1576

Fast-installation Platform Ring Spinning Frame



Brilliant Textile
Wonderful Life



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Address: No.1 Jingwei South Road, Yuci District, Jinzhong City, Shanxi Province, China
Tel: 86-354-2492875 2492877

Some of the data in the product manual are theoretical values. Due to comprehensive factors such as environment, raw materials, and processes, the above data is for reference only.

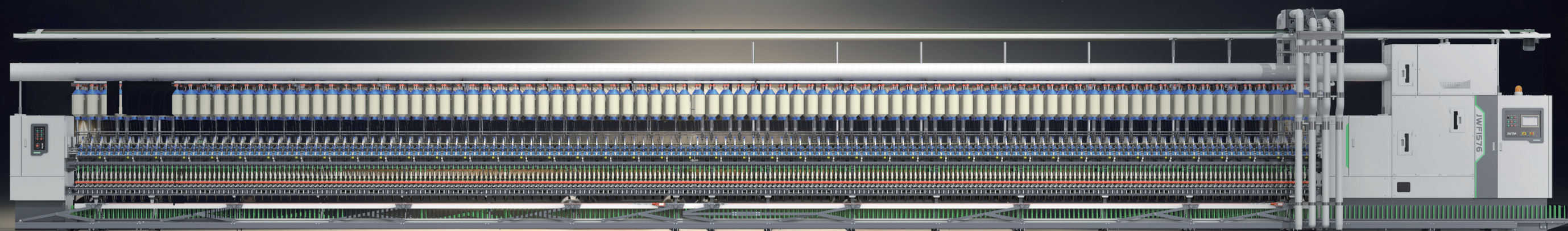
Jingwei Intelligent
Product Brochure

JWF1576

**Fast-installation platform
ring spinning frame**

JWF1576 is a new generation of fast-installation platform Ring Spinning Frame launched by Jingwei Intelligent Textile Machinery Co., Ltd. (hereby called Jingwei) based on customer demand and development trend of Ring Spinning technology.

It integrates two types of ring rail lifting technology, tape belt and screw type, and update technologies in drafting transmission, sealing and heat dissipation, energy-saving, intelligent control etc. It can meet customers' high-end oriented, intelligentized and greenization demand.



JWF1576A
Extra-long fast-installation
ring spinning frame for chemical fiber

←← **JWF1576**

Target

New differentiated fibers
Modal, Lyocell, etc.

Realize

Large drafting/Large weight/
Siro-compact spinning

Resolve

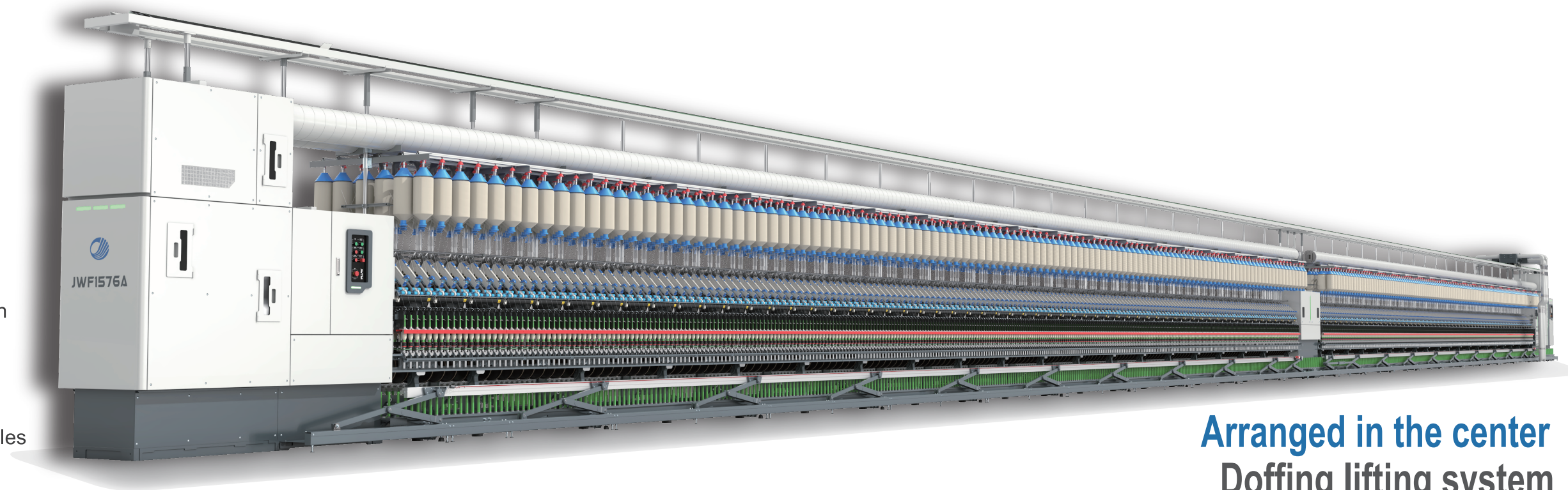
Roller torsional vibration

Technology

New drafting section

≤ **480** Max. Section
spindles
For new differentiated fibers

2472 Max. Spindles
For cotton fibers



Arranged in the center
Doffing lifting system

Improved the yarn quality

Improved system stability

Technical highlights

(I) High speed

Mechanical spindle speed 25000rpm

Super JWD68 series high speed spindles

Radial run-out **0.02_{mm}**

High precision main shaft

Keyless connection, with a radial run-out less than 0.05mm after connection, more suitable for high-speed running

Radial run-out **0.05_{mm}**

High precision carbon tin pulley

Lightweight, small moment of inertia, for high-speed spinning and better energy-saving

Mechanical spindle speed 30000rpm

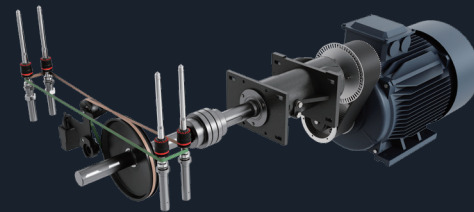
Super JWD58 series high speed spindles

(II) High efficiency

01 Standard electronic-twisting control technology can realize spindle and roller driven separately

Aiming at high precision doffing motion and effectively improve yarn end reserve rate and production efficiency.

- ✓ Twist can be set and no need to change gears
- ✓ High-twist yarn can be produced with 3000R/M twisting
- ✓ Realize controllable start stop time of roller and improve the retention rate of low twist yarn.
- ✓ Synchronization of roller and spindle can reach to mechanical precision.



02 Modularized mechanical drafting, electronic drafting and fully electronic drafting are optional

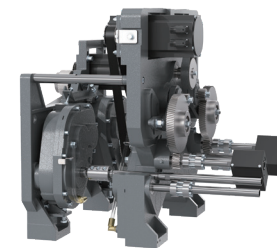
These three type drafting system is optional according to production requirement so that investment cost can be adjusted reasonably.

Electronic drafting/ Fully electronic drafting

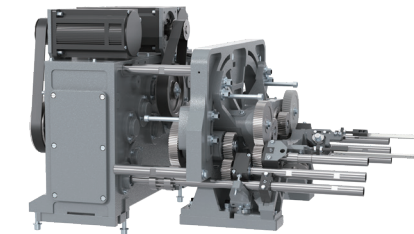
- ✓ Easy screen setting of process parameters, no need to manually change process gears
- ✓ Suitable for multi-variety, less-labor requirements
- ✓ Suitable for normal yarn, slub yarn etc.

Mechanical drafting

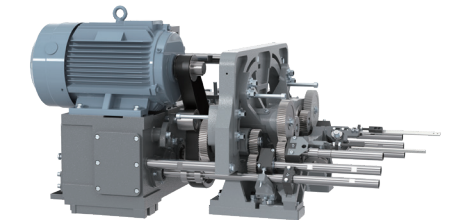
- ✓ More suitable for those seldom changing yarn count.
- ✓ More economic with stable structure



Fully electronic drafting system



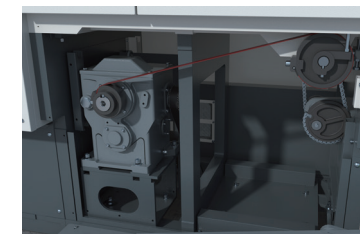
Electronic drafting system



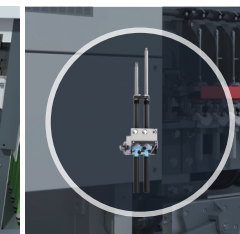
Mechanical drafting system

03 Modularized lifting type

Modularized Tape belt lifting or Screw type positive lifting is optional and convenient for customer.



Tape belt lifting



Screw type positive lifting

04 High packaging capacity

“U” type spinning forming system

6% Increase the packaging capacity more than



after

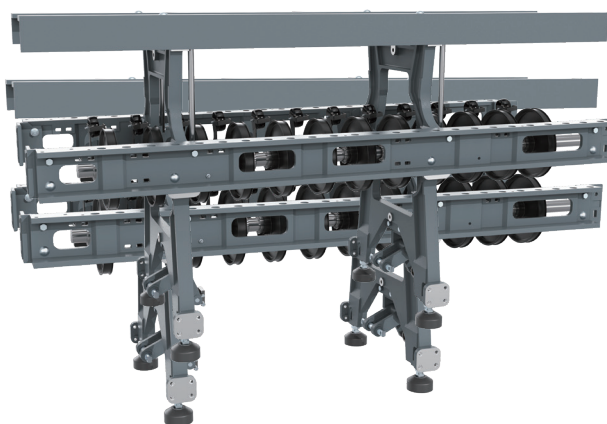


before

05 Middle part fast-installation technology

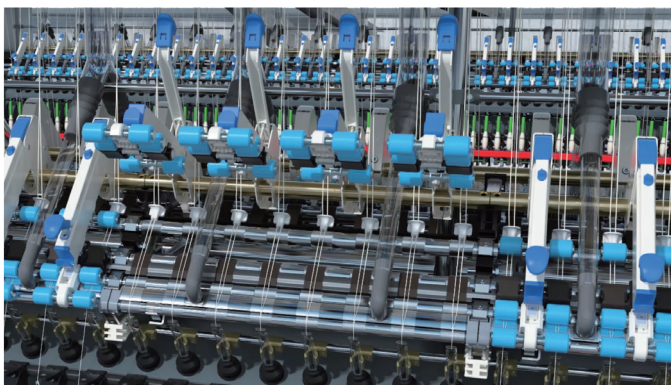
Integral type Middle frame, pin-hole positioning and 2520 length spindle rail ensure **more stable frame stability**.

Powder spraying process adopted in machine casting **makes machine cleaner**.



(III) High quality

High precision non mechanical wave roller (with a non mechanical wave rate of 99.8%), high precision flat / conical bearing steel ring cup, YJ200A/YJ210A series **pendulum arm with semi-release pressure function**, can achieve long-term high-speed stable spinning.



06 Convex disc Auto-doffing

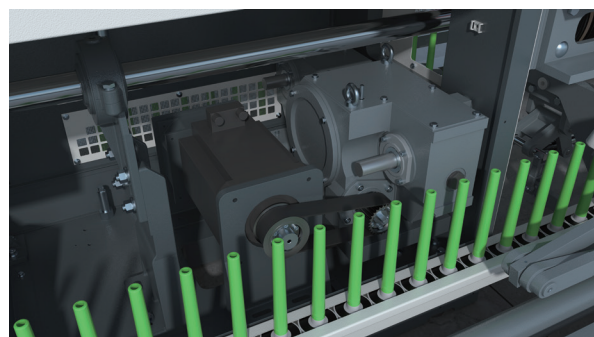
Bobbin pushing technology pushing four spindles

50 Bobbin conveying speed
pcs/min

Convex disc Auto-doffing

2 Doffing stop time shorten to
minutes

Convex disc doffing is more convenient for maintenance with **low cost and long lifespan**. Pushing four spindles each time is suitable for coarse yarn and extra-long machine.



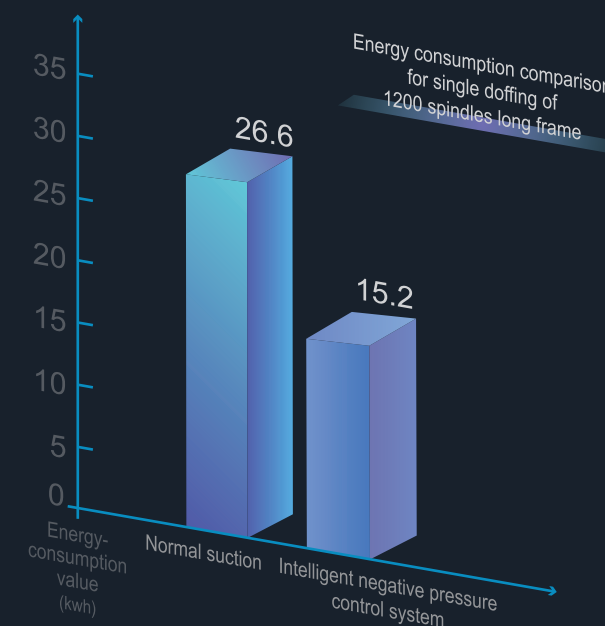
(IV) Energy saving

1. Oil bath main drive and new brake system, the variable frequency motor above IE3 is standard.

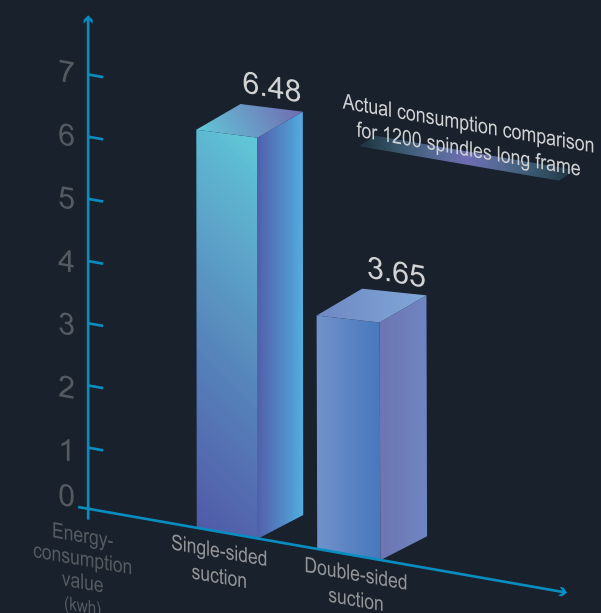
*It can **saving energy 3%~5%** with the motors above IE4.



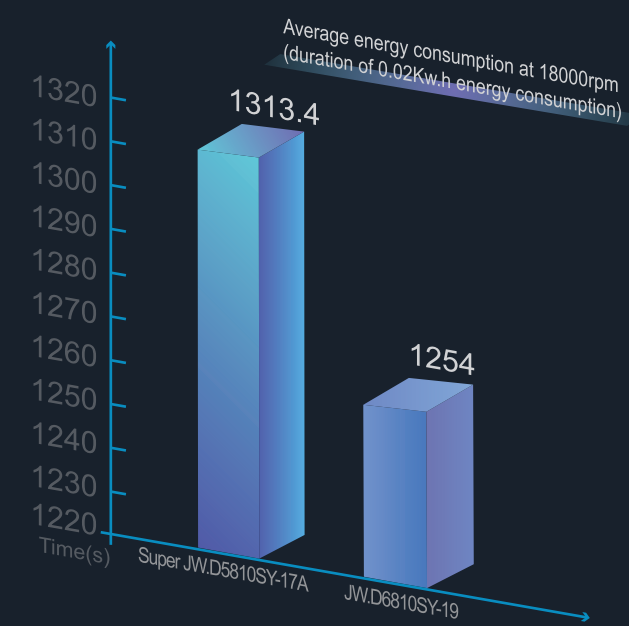
3. *Equipped with an intelligent negative pressure control system, real-time monitoring of spinning status, automatic adjustment of negative pressure, and **saving energy about 35%** on the basis of double-sided suction system.



2. Adopt the double-sided suction technology, **the consumption of 1200 spindles long frame has been reduced by about 30%.**



4. Super JWD58 series spindles can **saving energy about 5%** as same speed.



(V) Intelligent spinning

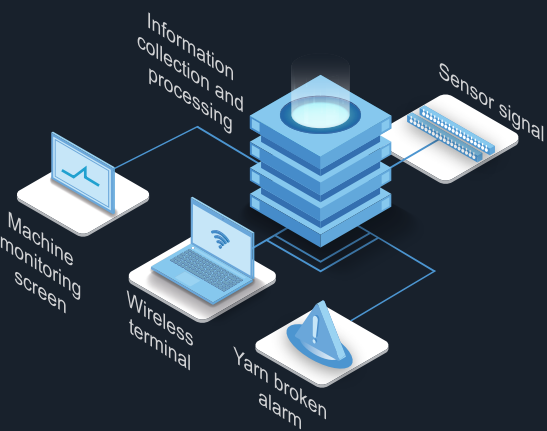
01 Intelligent spinning expert system

02 Friendly operation interface

03 Fault prompt visualization



05 *An intelligent single spindle detection system can be optionally equipped to accurately detect the spindle speed, breakage, twist, etc. of each spindle, achieving statistical functions such as defective spindles, breakage at 1000 spindles/h, and breakage analysis, improving the management and efficiency of the spinning frame.



首页	生产管理	手动调试	参数显示	参数设置	JWF1590	2023/10/16
机台 12	08:52:58					
基本	左侧断纱根数	0	右侧断纱根数	0	基本	
监控	左侧弱捻根数	0	右侧弱捻根数	0	监控	
历史	左侧不良根数	0	右侧不良根数	0	长率左检测条	
排序	左侧空置根数	0	右侧空置根数	0	长率右检测条	
干破时	总断纱根数	0	总弱捻根数	0	短率检测条	
留头率	总不良根数	0	总空置根数	0	粗纱通讯	
设置	千锭时断头	0	根		温湿度	
					电量	

06 *It is optional for MES management system for ring spinning workshop and IEYE (intelligent eye) remote operation and maintenance system.

(VI) Optional configuration

01 *Flexible spinning forms

Flexible production of core spun yarn, slub yarn, compact spinning, and Siro-compact spinning and so on.

02 *Roving-Ring Link

Internal circulation or external circulation Roving-Ring Link.

03 *Centralized suction system

No need for manual cotton picking, top or bottom suction.

04 *Ring-Ring Link / Ring-Coner Link



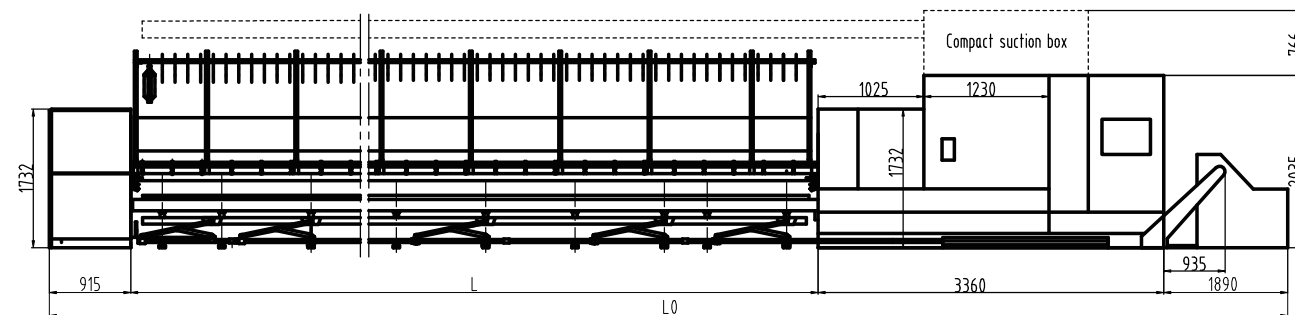
All coners can be connected clockwise or anticlockwise with one ring spinning frame, or several ring spinning frames can be connected to one coner.

Optional underground type Ring-Ring Link / Ring-Coner Link, retaining aisle, saving space, and reducing investment costs.

JWFF1576

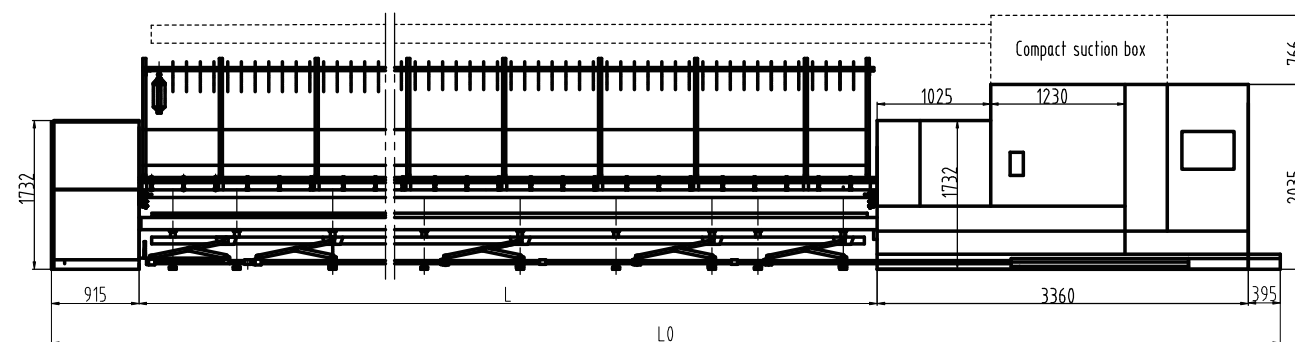
Fast-installation platform ring spinning frame

Ring spinning frame: Automatic bobbin arranging unit (disordered bobbin)



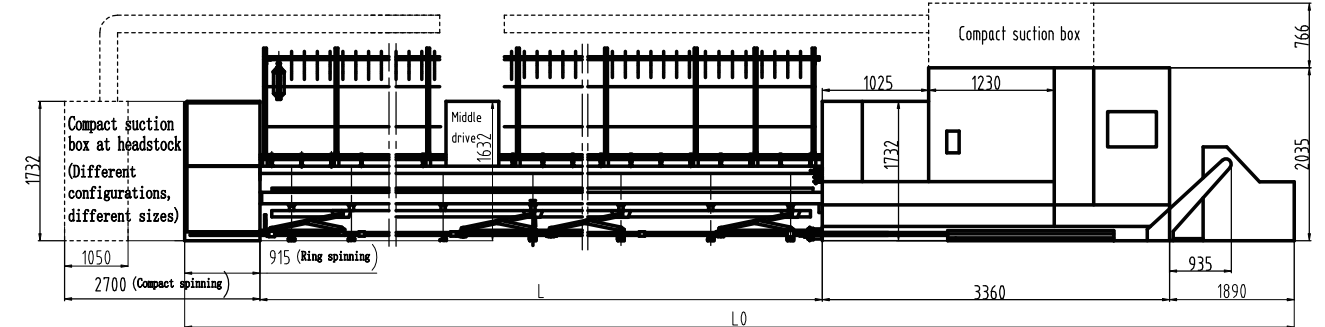
No. of spindle	840	912	984	1056	1128	1200	804	876	948	1020	1092	1164
L	29730	32250	34770	37290	39810	42330	28470	30990	33510	36030	38550	41070
L0	35895	38415	40935	43455	45975	48495	34635	37155	39675	42195	44715	47235

Ring spinning frame: Ring-coner link



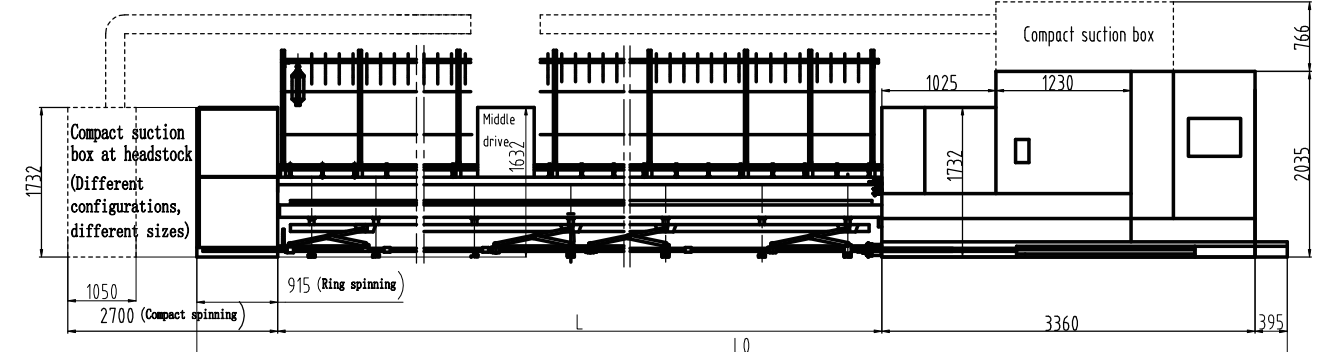
No. of spindle	840	912	984	1056	1128	1200	804	876	948	1020	1092	1164
L	29730	32250	34770	37290	39810	42330	28470	30990	33510	36030	38550	41070
L0	34400	36920	39440	41960	44480	47000	33140	35660	38180	40700	43220	45740

Extra-long ring spinning frame: Automatic bobbin arranging unit (disordered bobbin)



No. of spindle	1248	1320	1392	1464	1536	1608	1680	1752	1824	1284	1356	1428	1500	1572	1644	1716	1788
L	44850	47370	49890	52410	54930	57450	59970	62490	65010	46110	48630	51150	53670	56190	58710	61230	63750
L0	51015	53535	56055	58575	61095	63615	66135	68655	71175	52275	54795	57315	59835	62355	64875	67395	69915

Extra-long ring spinning frame: Ring-coner link



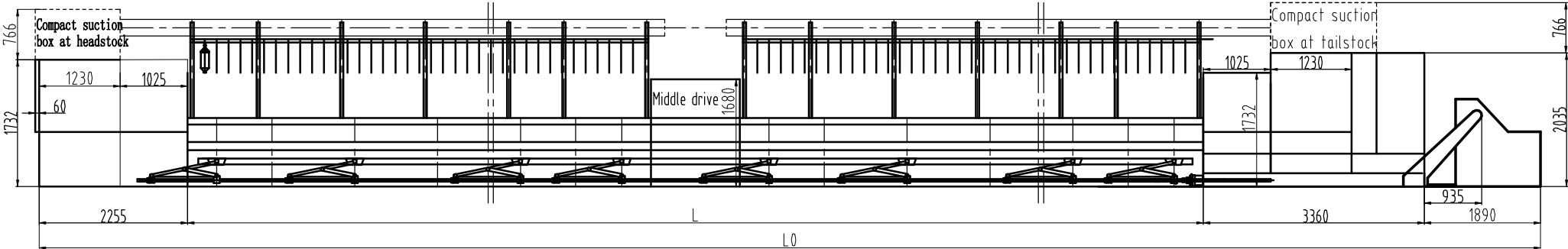
No. of spindle	1248	1320	1392	1464	1536	1608	1680	1752	1824	1284	1356	1428	1500	1572	1644	1716	1788
L	44850	47370	49890	52410	54930	57450	59970	62490	65010	46110	48630	51150	53670	56190	58710	61230	63750
L0	49520	52040	54560	57080	59600	62120	64640	67160	69680	50780	53300	55820	58340	60860	63380	65900	68420

JWFF1576A

Extra-long fast-installation
ring spinning frame for chemical fiber

Extra-long ring spinning frame:

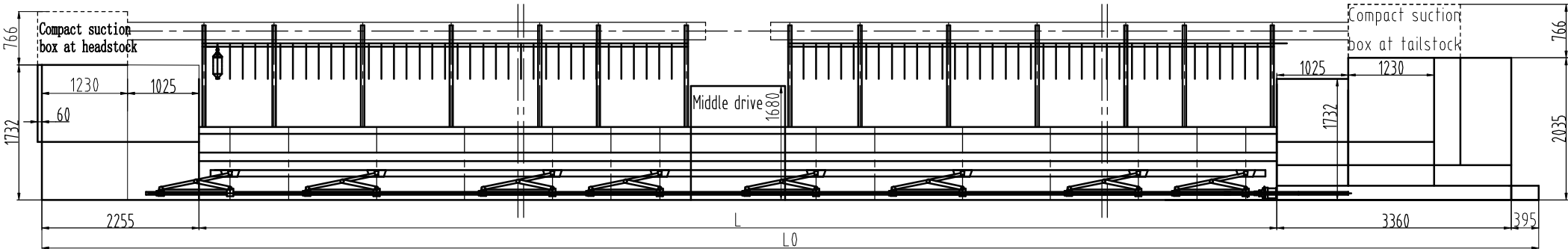
Automatic bobbin arranging unit
(disordered bobbin)



No. of spindle	1248	1320	1392	1464	1536	1608	1680	1752	1824	1284	1356	1428	1500	1572	1644	1716	1788
L	45690	48210	50730	53250	55770	58290	60810	63330	65850	46950	49470	51990	54510	57030	59550	62070	64590
L0	53190	55715	58235	60755	63275	65795	68315	70835	73355	54455	56975	59495	62015	64535	67055	69575	72095

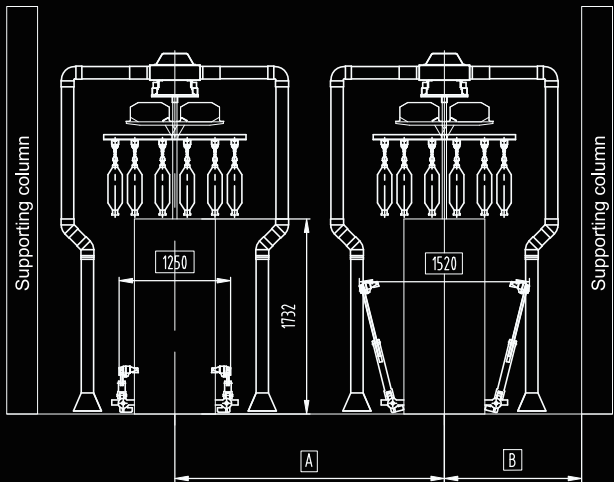
Extra-long ring spinning frame:

Ring-coner link



No. of spindle	1248	1320	1392	1464	1536	1608	1680	1752	1824	1284	1356	1428	1500	1572	1644	1716	1788
L	45690	48210	50730	53250	55770	58290	60810	63330	65850	46950	49470	51990	54510	57030	59550	62070	64590
L0	51700	54220	56740	59260	61780	64300	66820	69340	71860	52960	55480	58000	60520	63040	65560	68080	70600

Sectional diagram of JWFF1576/JWF1576A



Notes:

A : Distance between the centers of the two ring spinning machines

B: The minimum distance from the center of ring spinning machine to the supporting column

Main Specifications of JWFF1576/JWF1576A

Spindle Gauge(mm)	70	Spindle Speed (r/min)	12000 ~ 25000 (Mechanical Speed, controlled by inverter)
No.of Spindles	840~1824 (Please refer to the spindle series table for details)	Spindle Driving	Tin pulley driving,4-spindle/pulley
Diameter of Bottom Roller(mm)	Ø27XØ27XØ27 / Ø27XØ30XØ27 (6 spindle pos./piece)	Drafting type	3-line rollers, short & long aprons equipped with weighting arms
Bobbin length(mm)	180~220	Twist type	Electronic
Diameter of Ring Cup(mm)	36~45	Lifting type	Electronic (Tape lift/ Screw lift)
Fiber Length(mm)	≤60	Suction system	Double-side/ Single-side
Yarn Density(Tex(Ne))	4.92~59 (120~10 ⁵)	Doffing type	Auto-doffer
Twist(T/m)	230~3000 (φ19 Wharve diameter)	Cops extracting rate	100%
Twist Direction	Single tension pulleyZ/Single tension pulleyS /Double tension pulley Z/S	Bobbin inserting rate	100%
Total Draft Rate	10~80(Standard)/10~110(Optional)	Yarn retention rate	≥98%
		Doffng time(min)	2.5