FAV Group of Companies

Lab Spinning/Weaving /Knitting











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DW7070H Lab Opener



Application

To evenly loosen the pressed raw cotton and remove impurities

Key Specification

Control System	Touch Screen & PLC
Applicable Fiber Length	22~50mm
Feed Quantity	0.5~1kg/h
Feed Roller Diameter	φ57mm
Licker-in Size	φ238mm*330mm
Licker-in Max. Speed	900rpm (adjustable)

DW7070N Lab Opener



Application

It can fully open and remove impurities of the raw material in bundles, such as baled cotton, old cotton, waste polyester cotton, short thread, etc., so that open the material into small fibers.

Key Specification

Output Capacity	5~10kg/h
Applicable Fiber	Cotton, wool, chemical fiber
Working Width	300mm
Opening Roller	250mm
Feeding Motor	550W, speed adjustable

DW7010H Lab Carding Machine

Application

To remove impurities and short fiber in fibers that have been loosened, then output cotton sliver stored in sliver can for the next process use.



Key Specification

Control Mode	Touch screen & PLC
Output Capacity	1-5kg/h
Applicable Fiber Length	22~50mm
Working Width	480mm
Cylinder Diameter	φ446mm
Cylinder Max. Speed	750rpm
Cover Plate Quantity (Working/Total)	20/41
Can Diameter	φ400mm

DW7010M Sample Carding Machine

Application

To make the sample of cotton, wool tops through opening, mixing and carding.



Key Specification

Output Capacity	1-5kg/h
Width of Cylinder	360mm
Diameter of Cylinder	φ450mm
Diameter of Doffer	φ220mm
Diameter of Licker-in	φ165mm
Diameter of Working Roller	φ110mm
Diameter of Stripping Roller	φ90mm



DW7011H Lab Combing Machine

Application

To comb cotton sliver output through drawing machine again to remove short fibers.

Key Specification

Control Mode	Touch screen & PLC
Output Capacity	0.25-0.6kg/h
Applicable Fiber Length	22~50mm
Carding Width	260mm
Max. Nip Rate	120 times/min
Feed Roller Diameter	φ30mm



DW7020H Lab Drawing Frame

Application

To draw multiple cotton slivers together to improve the internal structure of the slivers, so as to improve long segment uniformity and reduce weight unevenness.

Key Specification

Control System	Touch screen & PLC
Output Capacity	0.5~1kg/h
Sliver Output Speed	4~24m/min, adjustable
Doubling	Max. 8
Draft Multiple	4~12 times
Drafting Type	Three over three curvilinear draft
Roller Size	φ45/35/35mm(front/middle /back)
Roller Pressure Mode	Spring-weighted

DW7021G Lab Wool Gilling Machine



Application

It's used in long fiber spinning system, such as worsted spinning system. The shorter fibers are further removed and the longer fibers are aligned as parallel as possible.

Key Specification

Control System	Touch screen & PLC
Sliver Output Speed	5~30m/min, adjustable
Applicable Fiber Length	60~120mm
Doubling	Max. 8
Draft Multiple	3~15 times
Drafting Type	Single zone cross needle plate draft
Needle Plate Qty	88pcs

DW7030H Lab Roving Frame



Application

To spin drawn sliver to be roving through drafting and flyer spinning. The roving is wound into a certain package to meet the requirements of spinning processing.

Key Specification

Control System	Touch screen & PLC
Output Capacity	0.5~1kg/h
Number of Spindles	2
Roller Pressure Mode	Spring-weighted
Flyer Form	Suspended flyer
Spindle Max. Speed	800rpm
Yarn Count Range	200~1000tex



DW7030M Lab Roving Frame for Wool

Application

To produce wool roving from sliver.

Key Specification

Control System	Touch screen & PLC
Applicable Fiber Length	60~120mm
Output Capacity	1~2kg/h
Number of Spindles	4
Roller Pressure Mode	Spring-weighted
Flyer Form	Suspended flyer
Flyer Max. Speed	1200rpm



DW7040H Lab Ring Spinning Frame

Application

To spin roving to be spun yarn through drafting and ring spinning.

Key Specification

Control System	Touch screen & PLC
Number of Spindles	6
Output Capacity	0.5~1kg/h
Draft Type	Three rollers, long and short aprons
Pressure Mode	Spring cradle
Twist Direction	S or Z
Spindle Max. Speed	12000rpm

DW7040M Lab Ring Spinning Frame for Wool



Application

It's suitable for wool yarn. To spin roving to be spun yarn through drafting and ring spinning.

Key Specification

Control System	Touch screen & PLC
Number of Spindles	6 or 12
Twist	Adjustable
Spindle Distance	75mm
Lifting Range	200mm
Spindle Max. Speed	12000rpm

DW7042H Lab Rotor Spinning Machine



Application

It's used to produce open-end yarn. Using air flow, the fibers are condensed and twisted in a rotor with high speed rotation and output into spun yarn.

Key Specification

Control System	Touch screen & PLC
Rotor Type	Suction type
Spinning Position	1
Rotor Max. Speed	30000rpm
Rotor Diameter	φ54mm



DW7041FS DREF Spinning Frame

Application

It's one type of friction spinning machine, normally it is used to spin sliver to coarse yarn through drafting and free-end spinning.

Key Specification

Control System	Touch screen & PLC
Applicable Fiber Length	22~120mm
Number of Spindles	6
Draft Type	Three rollers
Draft Control	Automatic
Max. Speed of Carding	4,000rpm
Yarn Count Range	0.5~20Ne

DW7090A Series Lab Melt Spinning Machine



Application

For spinning chemical fiber by melting polyester chip.

Key Specification

Filling Capacity	10~300g
Heating Temperature	Max. 450
Spinning Pressure	Max.1.6MPa
Winding Speed	Max. 600m/min, adjustable

DW7090D Series Lab Melt Spinning Machine



Application

To make small amounts of component fiber from small amounts of polymer by melting method in lab, simulating site production in small batch production trials.

Key Specification

Hopper Capacity	5kg
Heating Temperature	Max. 350
Screw Diameter	φ25mm
Metering Pump Capacity	0.6cc/rev
Winding Speed	Max. 1000m/min, adjustable



DW7090E Series Lab Melt Spinning Machine

Application

For melt spinning principle teaching in scientific research institutions, can realize most polymer and improved polymer spinning molding.

Key Specification

Filling Capacity	10~300g
Heating Temperature	Max. 450
Spinning Pressure	Max.1.6MPa
Winding Speed	Max. 600m/min, adjustable



DW7090G Series Lab Melt Spinning Machine

Application

To simulating site production in small amount production trials. It mainly used to carry out the high pressure composite spinning of polypropylene, polyester, polyamide and other materials with plunger metering system.

Key Specification

Loading amount	10~200g/group
Melting temperature	Max. 400
Spinning Pressure	3~20MPa
Spinning speed	100~800m/min



DW7091A Lab Wet Spinning Machine

Application

For laboratory use to make various chemical fiber materials.

Key Specification

Solution Tank Volume	1L
Heating Temperature	Max. 80
Draft Roller Speed	Max. 20m/min, adjustable
Winding Roller Speed	Max. 40m/min, adjustable



DW7093B Lab Electrospinning System

Application

For research and development of electrospinning nanofiber materials in laboratory

Key Specification

Syringe Pump	Syringe size: 1~50ml (optional)
	Number of channels: 1 (4 channels are optional)
	Max. stroke: 110mm
	Linear velocity range: 1μm/min~150mm/min
Collecting Apparatus	Drum diameter: φ100mm, length: 200mm,
	Speed: standard: 100~1350rpm
Reciprocating Apparatus	Stroke: 0~200mm
	Needle hole position: 6pcs

DW7093C Lab Electrospinning System



Application

For research and development of electrospinning nanofiber materials in laboratory.

Key Specification

Controllable Propulsion Module	2
Number of Channels	4
Max. Stroke	110mm
Linear Velocity Range	5μm/min~65mm/min
Suitable Syringe	2ml,5ml,10ml,20ml (optional)

DW7050M Lab Doubling and Twisting Machine



Application

It's suitable for all kinds of spun yarn doubling and twisting on one machine

Key Specification

Working Position No.	1 for doubling, 3 for twisting
Spindle Max. Speed	8000rpm
Output Speed	25~100m/min
Package Shape	Cylindrical
Conicity	3°30'

DW7050DT Twisting Machine



Application

It's used to twist two or more single yarns into plied yarns. It's the ideal system for lab and factory.

Key Specification

Control mode	PLC
Twist speed	10~200m/min
Number of spindles	2 or 4, please specify when ordering

DW7060H Lab Winding Machine



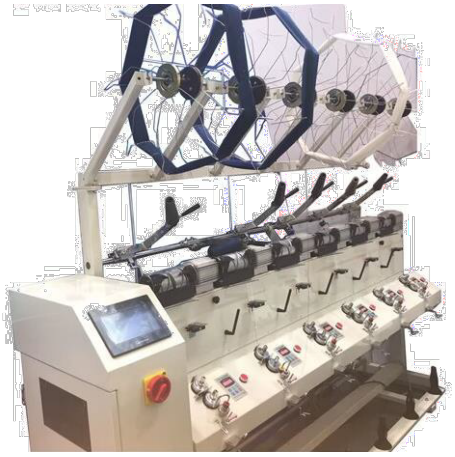
Application

To change yarn packaging, increase the capacity of yarn packaging, remove the yarn fault and improve the yarn quality.

Key Specification

Number of Spindles	4 or specify
Spindle Speed	100~800m/min, adjustable
Bobbin Size	φ50*170mm 3°30'
Grooved Drum Size	φ82*175mm
Splicer	Pneumatic (optional)

DW7060CH Winding Machine



Application

It's used for winding the cone yarn to a specified length of cone yarn, or for winding the hank yarn into a cone one.

Key Specification

Spindle number	4 or specify
Spindle speed	100~800m/min, adjustable
Wobb range	0~30%
Count range	0~999,999, settable
Amplitude	± 5%
Duration	3.0s

DW7061 Cone To Hank Winding Machine



Application

It's used for winding the cone yarn to a specified length of hank yarn.

Key Specification

Spindle number	4 or specify
Spindle speed	100~800m/min, adjustable
Wobb range	0~30%
Count range	0~999,999, settable
Amplitude	± 5%
Duration	3.0s

WAS360S Automatic Winding Machine



Application

It's mainly used for fiber winding and can automatically change the bobbin. The pattern of the roll bobbin can be changed arbitrarily according to customer needs.

Key Specification

Winding speed	40-500m/min
Control of winding ratio	Electronic
Winding width	250mm
Bobbin diameter(Max.)	280mm
Inner diameter of bobbin	76.2mm
Bobbin length	290mm
Filament tension	20-1200CN

GA392 Yarn Sizing Machine



Application

For yarn sizing of cotton, flax, silk, wool, chemical fiber, etc.

Key Specification

Applicable Yarn Range	5~500tex
Number of Spindles	2, 4, 8, 12, 16 or 20
Sizing Speed	20~300m/min, depending on the yarn variety
Length Metering and Speed Measurement Method	Electronic, LCD display
Heating Method	Electrical heating



GA193-400



GA193-600

GA193-400/600 Single Yarn Warping Machine

Application

For automatic warping of production sample, weaving sample and small batch fabrics for lab.

Key Specification

Model No.	GA193-400	GA193-600
Type	Semi-automatic	Automatic
Yarn Range	5~500tex	5~500tex
Warping Width	0~500mm	200~700mm
Warping Speed	0~500m/min	0-250m/min
Warping Length	3m	1.8~18m
Number of Bobbins	1pc (manually changeable)	Accommodate 8pcs bobbins (electronically controlled pneumatic automatic yarn selection)



CJ-1/2 Series Automatic Drawing-In Machine

Application

It's used for drawing-in automatically in weaving.

Key Specification

Model	CJ-1	CJ-2
Max. drawing-in speed	140~200 ends/min	140~160 ends/min
Max. warp beam width	230~360cm, please specify when order	230~400cm, please specify when order
Yarn range	10~1200D	7~100S
Applicable heald wire	O type	J, C, O type
Max. Heald frame number	8~16 for O type heald wire	12~20 for J/C type heald wire 12~20 for O type heald wire
Drop wire	/	Closed type
Drop wire passing bar	/	6
Reed	Suitable for 20-350 teeth/10cm standard	Suitable for 20-350 teeth/10cm standard
Electronic double end detection	Included	Included



DW298 Semi-Automatic Sample Loom

Application

For sample weaving of all kinds of fabrics, such as cotton, hair, jute, silk, chemical fiber, blending, etc.

Key Specification

Reed Width	24inch
Color Selection	Manual
Heald Frame Position	16 (Optional: 20)
Shedding	PLC Control, Pneumatic

DW598 Fully Automatic Rapier Sample Loom



DW598

Application

For sample weaving of various fabrics, such as cotton, wool, flax, silk, chemical fiber, blending, etc.

Key Specification

Reed Width	12inch/16inch/20inch/24inch/28 inch/32inch
Speed	25~40weft/min, adjustable
Color Selection	8 Color, full automatic, pneumatic control
Heald Frame Position	20 (Including 2 heald frames for selvedges)
Take-up	Stepper motor control
Let-off	Active electronic control

DW598J Automatic Jacquard Sample Loom



Application

For sample weaving of various fabrics, such as cotton, wool, flax, silk, chemical fiber, blending, etc.

Key Specification

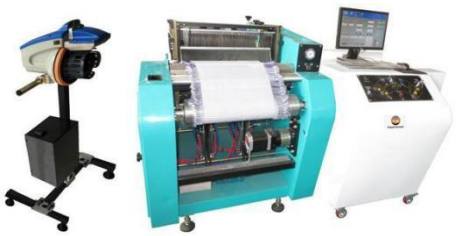
Reed Width	20inch
No. of Jacquard Needles	1408 or 2688, specify before order
Color Selection	8 color electronic weft selecting
Weft Density	Min. weft density ≤ 10 pcs/inch, Max. weft density ≥ 300 pcs/inch, can do segmented weft density weaving

DW698 Air Jet Sampling Loom

Application

Designed for sampling by air jet method.

Key Specification



Reed Width	16inch
Color Selection	1, 2, 3, 4, 5 or 6 color
Weft Insertion	Air Jet
Shedding	Positive type CAM shedding, heald frame up to 20 pages
Let-off	Actively let-off, two shaft or multi-shaft can be chose
Take-up	Electronic take-up, weft density 1~1,000 filaments/inch



DW0910S1



DW0910S2



DW0910S3

DW0910S Series Lab Knitter

Application

It's used for a combined use with lab dyeing machine to determine the dyeing performance of filament.

Key Specification

Model No.	DW0910S1	DW0910S2	DW0910S3
Applicable fiber	POY, DTY, FDY		
Rotation speed	250rpm	10~250rpm, settable	
Diameter of cylinder	3.5inch		
Numbers of needles	120~320		
Touch panel	No	Yes	



DW0910 Lab Knitter

Application

It's suitable for single-side weft knitting, to produce tubular knitted fabrics for the yarn uniformity assessment and the dyeing affinity quality control of yarn.

Key Specification

Diameter of Cylinder	φ12inch
Needle Gauge	24G
Feeder	12F
Rotation Speed	18~45rpm

WH-6F-A1 Computerized Plain Sock Knitting Machine



Application

It's suitable for knitting plain socks.

Key Specification

Needle cylinder	Single cylinder, diameter : φ 3.5inch
No. of needles	42~220 needles
Running speed	230~350 rpm (can be adjusted according to different materials and sock patterns)
Feeder	One /Two
Needle selection	6
Shuttle	8 main pneumatic shuttles, 13 side shuttles
Automatic yarn feeding	Yes



DW0930 Manual Flat Bed Knitting Machine

Application

To make basic fabric structure by cotton yarn, wool, cotton, spun silk and acrylic fibers, etc.

Key Specification

Knitting Width	36inch, 40inch, 42inch
Gauge	1.5G, 2G, 3G, 5G, 7G, 9G, 10G, 12G, 14G, 16G
Type	Single side, double side third class knop, single side second class knop
Loop Forming System	1
Number of Thread carrier	2 pcs, change shuttle on the right
Needle Type	Latch needle



DW0931 Semi-automatic Flatbed Knitting Machine

Application

Designed on the manual flatbed knitting machine matched with a special controller and a motor rack.

Key Specification

Drive Mode	Motor & Timing Belt
Knitting Width	42inch
Gauge	7G
Knitting Speed	6 levels, switchable



CF142S Computerized Flat Knitting Machine

Application

It's a weft knitting needle plate latch needle loom. It is applicable to collar, sweater, hat, beanie, scarf, baby clothes, cardigan, jerseys, school uniform, gloves, ribcuff, pocket, trousers and shawl knitting.

Key Specification

Knitting System	Single system single carriage
Knitting Width	44inch, 52inch, 60inch, 80inch, 100inch
Gauge	5G, 6G, 7G, 8G, 9G, 10G, 12G, 13G, 14G, 15G, 16G
Drive System	Synchronous belt drive, AC servo system

DW0920A Tricot Warp Knitting Machine

Application

It's mainly suitable for making lightweight fabrics and decorative fabrics

Key Specification

Needle type	Compound needle
Gauge	E24
Working width	Min 40inch
Number of guide bar	2, 3 or 4
Main drive	Oil-immersed cam gear
Rotation speed	400~500 rpm
Transverse movement	Mechanical (Pattern links or pattern disc)
Let-off	Two roller active let-off
Fabric pull	Chang gear pull box
Take-up	Independent take-up device



DW0920B Raschel Warp Knitting Machine

Application

It's suitable for fabrics of medium thickness.

Key Specification

Needle type	Latch needle
Gauge	E22
Working width	Min 44inch
Number of guide bar	5
Main drive	Oil-immersed cam gear
Rotation speed	400~500 rpm
Transverse movement	Mechanical (Pattern links or pattern disc)
Let-off	Electronic let-off
Fabric pull	Electronic pull
Take-up	Independent take-up device
Automatic stop	Infrared







DW90-16 Single Head Braiding Machine /Winding machine

Application

It's suitable for weaving a variety of ropes.

Key Specification

Number of heads	1
Carriers per head	16
Rope diameter	1~12mm
Bobbin size	Φ 48*142mm
Speed	Average 330 rpm
Center shaft	16 mm



DW0980A

DW0980(A) Series Lab Fabric Inspection Machine

Application

To prevent problems and cost increases that may rise in sewing departments of apparel producing industry due to production faults of the fabric.
DW0980A Series: Equipped with weighting and Automatic rolling function.

Key Specification

Model No.	DW0980(A)-1800	DW0980(A)-2000	DW0980(A)-2400
Max. Fabric Width	1800mm	2000mm	2400mm