

Focus Dyeing Machine
SOLUTIONS BY SUNKING



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尚君(上海)实业有限公司
SUNKINGINDUSTRY(SHANGHAI)CO.,LTD



Sunking Industry (Shanghai) Co., LTD
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MD471 型真空热定形机

MD471 SERIES VACUUM HEAT SETTING MACHINE



● 主要特点

MAIN FEATURES

- 本机适用于加捻后的真丝或合成纤维进行热定形，使其捻度保持稳定。
- This machine is used for setting the pure silk or synthetic fibre after twisting so as to keep twist stable.

● 主要技术指标

THE MAIN TECHNICAL SPECIFICATIONS

1	筒体式样 Mode of barrel body	卧式筒形 Horizontal barrel	5	最高工作温度 Max. working temperature	151℃
2	公称容积 Nominal volume	1-8立方米 1-8 cubic meter	6	最高真空压力 Max vacuum pressure	0.092Mpa
3	门盖式样 Mode of gate	离合器式，气压密封 Clutch mode, air pressure seal	7	定形保温时在0-180min范围内连续可调 It can continuously set in the range of 0-180 min when setting and thermal insulating	
4	最大允许工作压力 Max. allowable working pressure	0.4Mpa	8	工作介质 Working medium	饱和水蒸汽 Saturated steam

GRP80 型高温喷射式绞纱染色机

GRP80 HIGH PRESSURE SPRAY TYPE HANK DYEING MACHINE



适用于成绞状涤纶丝、绣花线等绞纱的染色处理。
It is suitable for dyeing yarn like twisted terylene, embroidered thread etc.

● 主要特点

MAIN FEATURES

- 机身均采用优质高抗腐蚀不锈钢制造
- 经久耐用的喷射管及支撑装置
- 高效率的纱杆传动装置
- 大流量低扬程的泵浦
- 颜料桶配有搅拌、加热、回流、清洗、加料装置
- 高效的热交换器
- 水位显示装置
- 方便进出纱及清洗喷管的工具
- 流量调节装置
- High erosion proof stainless steel materials made for the machine body.
- Durable spray pipe and hold set.
- Yarn pole transition set with high efficiency.
- Pumping of great flowage and low delivery lift.
- Stirring, heating, circumfluence, cleansing, and feeding set in the color bucket.
- Outlay heat exchanger of high efficiency.
- Water level indicator.
- Tools assist to entry and outlet of yarn and cleaning spray pipes
- Flow adjust set.

● 任选项

OPTIONAL

- 全自动、半自动电脑控制系统
- 主泵马达变频控制
- 定量加料系统
- 第二入水、第二排放
- 颜料桶全自动电脑控制
- Full auto or semi-auto PC control system.
- Frequency conversion control of master pump motor.
- Rated material feeding system.
- The 2nd water and the 2nd discharge.
- Full auto control of color bucket.

● 技术数据

TECH DATA

- 最高工作温度：140℃
- 最高工作压力：≤0.4MPa
- 升温率：约 5℃ / 分钟 (约蒸汽压力 6kg / cm²)
- 降温率：约 4℃ / 分钟 (约冷却水压 3kg / cm²)
- Max working temperature: 140℃
- Max working pressure: ≤0.4MPa.
- Temperature rising rate about 5℃ / min (With steam pressure 6kg / cm²).
- Temperature cooling rate about 4℃ / min (With cooling water pressure 3kg / cm²).

● 主要技术指标

THE MAIN TECHNICAL SPECIFICATIONS

型号 Model	喷管数 Number of tubes	载量(kg) Nominal capacity	总功率(kw) General power	外形尺寸 Dimensions L×W×H(mm)
GRP80-2-650	2	8	4	2000×2400×1700
GRP80-2-1500	2	20	5.8	2000×3500×1700
GRP80-3-1500	3	30	6.8	2200×3500×1700
GRP80-4-1500	4	40	7.15	2340×3800×1870
GRP80-6-1500	6	60	11.35	2600×3800×2050



Sunking Industry (Shanghai) Co., LTD
尚君实业（上海）有限公司

MZ132A 喷射式绞纱染色机

MZ132A SPRAY TYPE HANK YARN DYEING MACHINE



● 主要特点

MAIN FEATURES

- 最适用于处染单股细纱、人造丝、绢丝、真丝、丝光棉纱及丝光羊毛、天然及人造纤维、混纺花式纱等。
- 本机采用特殊设计的高效率、低扬程、大流量混流泵，喷水柔和，在高温时仍能提供充足水量，染色绝对均匀，不会有斑染，内外层现象。
- 新型六角型喷管，水流均匀，纱体绝对没有咬纱缠绕或打结现象，纱体与管身摩擦力小，可防止纱体表面受损。
- 特设水量调节器，适用范围广，可任意调节水量大小。
- 低浴比设计，大量节省染料、蒸汽及助剂，达到最高经济效益。

● 任选项

OPTIONAL

- 自动控制升温、保温、降温系统。
- 全自动电脑控制系统。
- 主泵马达采用变频控制。
- 加料桶搅拌装置，加料泵装置。
- 双机联通型设计。（单机也可使用）
- 特殊规格可根据客户要求设计。

- Best suited to dyeing of single strand fine yarn, artificial silk, silky yarn, pure silk, mercerized cotton yarn and mercerized wool, natural and synthetic fibers and blended fancy yarn etc.
- Adoption of specially designed high efficiency, low range of lift, big flow rate blending pump, which has gentle water jet and provides at high temperature adequate water quantity so that dyeing is strictly homogeneous free of spots and lamination.
- New type of hex spraying nozzle to give homogeneous water jet, so that yarn is fully free of entanglement or knot, small friction between the yarn and the bobbin.
- Specially equipped with water quantity regulator of wide application range, with which to regulate water quantity as per needs.
- A low bathing ratio design, economizing greatly on dye, steam and agents in order to achieve max economic efficiency.

- Auto systems for temperature rising, holding and lowering.
- Fully automatic computer control systems.
- Frequency conversion mode of control for the main pump motor.
- Stirring device of material feeding barrel, material feeding pump.
- Twin machine tandem design (also applicable to single machine)
- Design of unique specifications as per customer requirements

● 标准结构

TYPICAL STRUCTURE

- 机身采用优质抗腐蚀不锈钢制作。
- 采用 SUS316L 高抗腐蚀不锈钢制作的三角喷射管。
- 具有机械密封装置的高性能不锈钢混流泵。
- 配有加热、回流、清洗装置的加料桶。
- 可靠的 PLC 程序控制器。
- 水位显示装置，照明灯。
- 方便装纱、出纱的工具。
- 普通控制电箱，配翻纱时间自动换向装置。
- Machine body is made of fine quality stainless steel.
- Triangle spraying nozzle made of SUS316L highly erosion resistant stainless steel.
- Equipped with high performance stainless steel blending pump with mechanical seals.
- Equipped with material feeding barrels for heating, return flow and cleaning facilities.
- Reliable PLC for control.
- Water level indicator, illumination lights.
- Tools to make easy yarn loading and unloading.
- Normal electrical control cabinet, equipped with auto direction converting device at yarn turning over

● 主要技术指标

THE MAIN TECHNICAL SPECIFICATIONS

型 号 Type	载重kg load	主泵功率KW Main Pump Power	外形尺寸(L×W×H) Outer dimensions	重量kg Weight
MZ132A-1/2×2	7.5	1.5	1570×1950×2020	1200
MZ132A-2	15	2.2	1570×2500×2020	1400
MZ132A-4	30	4	2130×2500×2020	1800
MZ132A-6	45	5.5	2580×2550×2020	2400
MZ132A-10	75	7.5	3740×2550×2020	3000
MZ132A-20	150	15	6740×2600×2120	4500
MZ132A-30	225	18.5	9700×2750×2220	5600
MZ132A-40	300	22	12850×2750×2220	6800
MZ132A-60	450	37	18810×2960×2320	11340
MZ132A-80	600	45	24900×2960×2320	13800

● 技术数据

TECH DATA

- 最高工作温度：98℃
- 升温率：约5℃ / 分钟（以蒸汽压力0.7Mpa计）
- 降温率：约4℃ / 分钟（以冷却水压0.3Mpa计）
- Max working temperature: 98℃
- Rate temperature rise: approx (at steam pressure of 0.7Mpa)
- Rate to temperature lowering: approx (at cooling water pressure of 0.3Mpa)



Sunking Industry (Shanghai) Co., LTD 尚君实业（上海）有限公司

Y系列绞纱染色机 Y SERIES HANK YARN DYEING MACHINE



● 主要特点 MAIN FEATURES

- 本机型适用于棉、羊毛、人造毛、腈纶及混纺绞纱的前后处理，一次装纱便可完成膨化、精练、漂白、染色及柔软等多个染整工序。
- 挂纱杆之间间距可调，适应处染各种不同长度的绞纱。
- 采用精确正反转控制器，自动变换染液的循环方向，确保绞纱匀染。
- 循环水泵设计优良，采用多级皮带轮变速，以满足不同类型绞纱的染色工艺。
- 本机型可双机串联使用，减少工艺缸差。
- It is suitable for dyeing , bleaching , refining cotton , wool , artifical wool , acrylic . It can use for both pretreatment and after treatment .
- The space between the hank spindles can be adjusted according to different length hanks .
- Adopting precision direction changing device , it can change the dye liquor direction automatically to keep level hanks .
- Compact designed circulating pump can adjust the running sped by multilevel gears according to different dyeing techniques .
- The two machines can be combined together in serious to avoid color difference .

● 标准结构

TYPICAL STRUCTURE

- 与染液接触部分均采用优质高抗腐蚀不锈钢制造
- 具有机械密封装置的不锈钢高效轴流泵
- 备有二套挂纱杆
- 导流板使机内染液循环均匀
- 配备优质不锈钢加料泵(Y20 以下无)
- 加料桶装有搅拌、加料、反冲、回液和清洗装置(Y-200 以下无搅拌)
- 安全方便的取样装置
- The machine body which bring into contact with dye liquor is made of high quality anti-corrosion stainless steel .
- Equipped with high efficiency stainless steel axial flow pump .
- Two sets of hank spindles .
- The dyeing liquor is even circulated .
- Stainless steel feeding pump(Y20 above) .
- Mixing , feeding , refluxing , rinsing device of adding material barrel (above 200) .
- Safety sample taking device .

● 任选件

OPTIONAL

- 全自动、半自动电脑控制
- 颜料桶全自动控制
- 主泵采用变频控制
- Y20以下装加料泵、加料桶
- 定量加料系统
- 运输车与挂纱箱
- Automatic , semi-automatic control .
- Full automatic control of the paint barrel .
- The main pump is controlled by frequency converter .
- Adding material barrel and feeding pump (below Y-20)
- Dosing system .
- Handcart and hank cabinet .

● 技术数据

TECH DATA

- 最高工作温度：98℃。
- 升温率：20℃-98℃ 约 30 分钟
(以蒸汽压力 6kg / cm² 计)。
- 降温率：98℃-80℃ 约 15 分钟
(以冷却水压 3kg / cm² 计)。
- Max working temperature : 98℃ .
- Temperature rising rate : 20℃ to 98℃ 30minutes
(according to the steamy pressure 6kg / cm²) .
- Temperature cooling rate : 98℃ to 80℃ 15 minutes
(according to the cooling water pressure 3kg / cm²) .

● 主要技术指标

THE MAIN TECHNICAL SPECIFICATIONS

型 号 Model	载量羊毛(kg) Nominal capacity Wool	总功率(kw) General power	标准型 Standard size			三层型 Three-layer type			
			L(mm)	W(mm)	H(mm)	载量(kg) Nominal Capacity	L(mm)	W(mm)	H(mm)
Y-5	2.2	1.1	1235	820	1937	-	-	-	-
Y-10	4.5	1.1	1235	900	1937	-	-	-	-
Y-20	9	1.1	1400	1050	2080	-	-	-	-
Y-30	14	2.25	1714	1125	2050	-	-	-	-
Y-50	23	2.25	1714	1326	2050	-	-	-	-
Y-100	45	2.95	2417	1357	2155	-	-	-	-
Y-200	90	4.75	2830	1637	2210	-	-	-	-
Y-300	140	5.5	2815	1590	3150	170	2815	1590	3410
Y-400	185	7	2905	1880	3160	235	2905	1880	3420
Y-600	275	9	3510	2178	3305	340	3510	2178	3565
Y-800	360	12.5	3550	2490	3310	440	3550	2490	3570
Y-1000	455	12.5	3775	2490	3310	550	3775	2490	3570
Y-1200	545	13.5	3910	2760	3570	650	3910	2760	3830
Y-1000x2	910	25	6935	2555	3310	1100	6935	2555	3570
Y-1200x2	1090	33	7105	2830	3570	1300	7105	2830	3830



Sunking Industry (Shanghai) Co., LTD

尚君实业（上海）有限公司

YF 系列绞纱染色机

YF SERIES HANK YARN DYEING MACHINE



● 主要特点

MAIN FEATURES

- 本机适合涤纶雪尼尔、半边绒、高支丝光棉、丝光羊毛、羊绒、棉纱、腈纶等高档次绞纱的处染。
- 全充满式设计,最高工作温度为 108℃。
- 浴比可低至 1:16, 染液的循环次数增多, 令染色效果更佳同时节约能源。
- 配置高效率变频控制的循环泵, 并采用独特设计的分流装置, 精确的控制了缸体内染液均匀流动, 从而达到最佳染色效果。
- 主缸体采用高抗腐蚀不锈钢板制造, 经久耐用, 两层机缸上下均设有热交换器, 使缸内温度保持一致。

- Suitable for dyeing of high class hank yarn like Dacron, snow Neil, high counts mercerized cotton, mercerized wool, cashmere, Cotton yarn and acrylic.
- Full filling design, the maximum work temperature is 108℃.
- Liquor ratio can be as low as 1:16 circulation frequency increases and make the dyeing effect better, in the mean time, energy can be saved.
- Configure frequency conversion control circulation pump of high efficiency and utilize distributor equipment of unique design. It precisely controls the dye in the vat to flow equably and get the best dyeing effect.
- The vat body is made from high erosion resistant stainless plate and if is durable, the upper and lower part of the vat are all equipped with heat exchanger to keep the temperature in the vat constant.

● 标准结构

TYPICAL STRUCTURE

- 与染液接触部分均采用优质高抗腐蚀不锈钢制造。
- 具有机械密封装置的高效大流量轴流泵。
- 主泵配备变频控制。
- 自动控制进水、排水、升温、保温、降温、溢流等阀门。
- 配备静压泵的膨胀缸。
- 配备加料、搅拌、进水和加热系统的颜料桶。
- 整机特别设计多套安全操作装置。
- 安全方便的取样装置。
- 备有二套特别设计的挂纱杆。
- 不锈钢主控箱及 PLC 和微电脑控制器。
- The machine body which bring into contact with dye liquor is made of high quality anti-corrosion stainless steel .
- Equipped with high efficiency and great flow rate axial flow pump .
- Main pump is control of the frequency conversion
- Full automatic computer controlled water inlet, water quantity, temperature increasing , temperature maintenance , temperature reducing and discharge of water
- Expanding vat with static pressure pump
- Feeding, mixing, water inlet and heating system of paint barrel.
- The whole machine is equipped with many sets of safe operating equipment.
- Safety sample taking device
- Two sets of hank spindle
- Stainless steel control box, PLC and microcomputer control

● 任选项

OPTIONAL

- 运输车及挂纱车, 节省装纱、出缸时间。
- 可改用染袜子、成衣、毛条的容量架。
- 自动锁门装置。
- 颜料桶全自动电脑控制。
- 第二入水, 第二排放。
- Transport vehicle and yarn-hanging vehicle, can save the time of yarn hanging and vat out time
- You can use the volume rack for the dyeing of socks, ready-made clothes and hair straps
- Automatic lock equipment, accessory.
- Full automatic control of the paint barrel.
- The 2nd water, and the 2nd discharge

● 技术数据

TECH DATA

- 最高工作温度 :110℃
- 升温速度 : 约 2.5℃ / 分钟
(以蒸汽压力 6kg / cm² 计)。
- 降温速度 : 约 2℃ / 分钟
(以冷却水压 3kg / cm² 计)。
- Max working temperature: 110℃
- Temperature rising rate: about 2.5℃ / minute
(according to the steamy pressure 6kg / cm²).
- Temperature cooling rate: about 2℃ / minute
(according to the cooling water pressure 3kg / cm²).

● 主要技术指标

THE MAIN TECHNICAL SPECIFICATIONS

型号 Model	载量(kg) Nominal capacity			主功率(kw) General power	外形尺寸 Dimensions		
	腈纶 Acrylic	棉 Cotton	羊毛 Wool		L(mm)	W(mm)	H(mm)
YF-2	0.6-0.8	0.7-1	0.8-1	1.3	300	1100	1950
YF-10	2.5-3.5	3-3.8	3.5-4.5	2.2	450	1380	2100
YF-30	9-11	10-12	12-14	4.5	1200	1500	2235
YF-50	15-17	17-20	20-23	5.5	1510	1700	2900
YF-100	31-34	35-38	41-45	6	1510	2150	3320
YF-200	62-68	70-78	82-91	9.25	1980	2300	3500
YF-400	122-137	139-155	163-182	11.25	2010	2450	4450
YF-800	245-272	278-309	327-363	18.75	2350	3050	4450
YF-1000	300-340	350-380	400-450	21.75	3150	3350	4450
YF-800×2	490-544	556-618	654-726	40.5	2750	8470	4450
YF-1000×2	600-680	700-760	800-900	46.5	3150	8800	4450



Sunking Industry (Shanghai) Co., LTD
尚君实业（上海）有限公司

DC II 型连续式绞纱烘干机

DCII TUNNEL HARK YARN DRYER



产品简介

BRIEF INTRODUCTION

经过多年的不断实践和革新，使本机更完善、先进、省时、省力、省能、高效。其运输链变速范围广，自动控温，适用于天然、人造和混纺纤维等各种绞纱之大量烘干。而且操作简易、安全，与其它机械组合，可实现自动化生产。

Our Hang Yarn Dryer is the exact dryer that can meet every modern requirement in your hank drying economy. It is most suitable for drying hank yarns of woolen, cottons, synthetic and any other blended fibers. Wide range of conveyor velocity ratios and automatic temperature control system are equipped to process different fiber quality of the hank yarns to be worked. Good thermal efficiency maximum drying capacity, safe and easy operations are your assurance.

主要特点

MAIN FEATURES

- 采用高效铝质螺旋片式散热器，整机贴保温层，热效率高。
- 采用热风回用系统，节省热能，并使绞纱烘后回潮均匀。
- 底部铺设抽湿网板，既能均匀抽湿又保持干净卫生。
- 主副传动链均采用变频调速以适用不同绞纱的烘干要求。
- 每个烘箱均设有独立抽湿机一台，达至节省能源效果。
- 每二区烘箱设有独立自动温度控制系统，温度偏差小。
- 出入口装有冷却风扇，改善工作环境。
- 造型独特、轻巧的不锈钢挂纱杆，使操作省力。
- Body being built with insulated panels with heat-resistant fiber glass material inside to ensure heat insulation.
- Adopt the system of the hot breeze and circumfluence, save the energy and wring the volle to dry to the tide even.
- Humidity extract halfone spread On the bottom, for even humililty extra ct and also clean.
- Speed of "main drive and the auxiliary drive" is adjustable by inverter, the super saver would apply to any hank-yarn of any drying process requirement.
- A dehumidifier, which is installed at each chamber help to meet the save up energy effect.
- Each two ovens was established to the independent auto temperature control system and the temperature keep the small deviation amplitude.
- Cooling fan installed at both ends to improve the working environment.
- Hank-holding bar of light stainless steel for easy handling.

主要技术指标

THE MAIN TECHNICAL SPECIFICATIONS

型 号 Model	烘干量 Dry volume			总功率 Total Power	传热面积 Heat Transfer Area	外 形 尺 寸 Dimensions			重量 Gross Weight
	腈纶 Acrylic	羊毛 Wool	棉 Cotton			L	W	H	
	kg/h	kg/h	kg/h			mm	mm	mm	
DC-3+1	400	200	150	20.2	202	9180	3270	2900	6500
DC-4+1	540	270	200	25.3	270	11100	3270	2900	8000
DC-5+1	680	340	250	31.9	338	13020	3270	2900	9500
DC-6+1	820	410	300	37	405	14940	3270	3200	11000
DC-7+1	960	480	350	42.1	472	16860	3270	3200	12500
DC-8+1	1100	550	400	47.2	540	18780	3270	3200	14000
DC-9+1	1240	620	450	52.3	608	20700	3270	3200	15500

任选项

OPTIONAL

- 纱杆回送机，省时又省力
- Belt conveyor, to transport hank-holding bars from the delivery end to the feed end.



Sunking Industry (Shanghai) Co., LTD
尚君实业（上海）有限公司

TD 型散纤维筒子纱压纱机

TD LOOSE FIBRE CHEESE YERN EXTRUDER



● 主要特点

MAIN FEATURES

- TD型散纤维筒子纱压纱机是筒子纱染色的辅助设备,通过压纱机挤压后使筒子纱密度达到一致,并提高了25%的载量,减少了纱层之间的泄漏,节省了染化料助剂和能源,从而降低了染色成本,确保了被染物质量,提高了经济效益。
- 注:根据不同的用途,配置适合的压头可以满足散毛、棉花染色工序的需要。

● 技术数据

TECH DATA

- 最大挤压行程: 1000~1800mm
- 最大载重: 3000kg
- 最大纱架外径: 2500mm
- Squeezing travel max.: 1000~1800mm
- Load max: 3000kg
- OD max of yarn bracket: 2500mm

- TD Cheese Extruder is the aux equipment for bobbin yarn dyeing, it squeezes the cone, so as to make the bobbin yarn unique in density, and that increases 25% of the yarn quantity, decreases the leakage from in-between layers; all these shall save the consumption of chemical dye and relevant agents together with energy, and thus to lower the cost for dyeing and to ensure the quality of material to be dyed, the economic benefit is increased then.
- Mote: According to the different use, configure with appropriate pressing pieces to meet requirements from procedures for dyeing loosen wool or cotton.

BO61 散毛纤维烘干机

LSE LOOSE FIBRES DRYER



● 主要特点

MAIN FEATURES

- 本机适用于羊毛、羊绒、棉花、绢丝和腈纶等散纤维的连续烘干处理。
- This machine is the same with wool, cashmere, cotton, spun silk and terylene etc disperse fiber. Series drying disposal.

● 标准结构

TYPICAL STRUCTURE

- 整机装贴保温层,热效高。
- 采用高效铅质螺旋片散热器。
- 采用多个温度控制区。
- 全不锈钢输送网板,由变频控制速度。
- 根据散纤维品种不同,可选用上吹式或下吸式风机。
- The whole machine adhibit the heat preservation floor,has high heat effect.
- Adopt high effect helix slice radiator.
- Adopt multi-temperature control area.
- All stainless steel feeding net-board,frequency conversion control the speed.
- By reason of the different kinds of bulk fiber, can choose the fan blow on top or blow on bottom.

● 主要技术指标

THE MAIN TECHNICAL SPECIFICATIONS

型 号 Model	烘干量 Drying capacity		总功率 General power kw	散热面积 Heat transfer acreage m ²	外形尺寸 Dimensions		
	棉 cotton kg/h	羊毛 wool kg/h			L(mm)	W(mm)	H(mm)
BO61-3	40	70	7.7	180	7600	2950	2750
BO61-4	50	80	10.3	240	9400	2950	2750
BO61-6	110	180	14.7	360	13000	2950	2750
BO61-8	165	290	19.1	440	16600	2950	2750



Sunking Industry (Shanghai) Co., LTD

尚君实业（上海）有限公司

WSM 毛球/散纤染色机

WSM LOOSE FIBRES DYEING MACHINE



随着我国控制环境污染不断深入，节能、环保对我们染整行业显得尤为重要，我公司研发的新一代毛球/散纤染色机具有节省水、电、蒸汽、人工、节约染化料和工序，并且提高被染物品品质等特点，产品有常温和高温两大系列。

With the continuous deepening environmental pollution control of china, it is important to energy efficiency and environment friendship by dyeing industry. Our company research new generation of fibred dyeing machine has save water, electric, steam, manpower, dye stuff and working procedure, and increasing by dyed quality, the product have normal temperature and high temperature.

● 主要特点

MAIN FEATURES

- 本机适合各种成分毛球和散纤的染色，如羊毛、粘胶、天丝、涤纶、棉、面包纱、腈纶及其混纺产品的漂染。
- 一次装缸便可完成精炼、漂白、染色、水洗、柔软等多个染整工序。
- 节省人工：染毛球时无需松球，直接可以染色，操作方便，产量高。
- 品质佳：特殊设计的低能耗、高性能的混流泵浦，保证最佳的流量和扬程，并配有自动换向的染色水内流、外流系统，根据不同品种变频器可调节合适的流量和扬程，使毛球、散纤、面包纱染色后品质更加均匀。
- 浴比小：1:6 ~ 8，从而节约用水、蒸汽、染料、助剂等。
- 专利设计的热交换器使蒸汽利用率最高。
- 自动化程度高，全机所有操作均可用电脑自动完成。

- It is suitable for dealing with coloration of loose stock, material such as wool, mucilage glue, Tencel, terylene, cotton and velour cashmere etc.
- It can do the refine, bleach, dye, and soften process one time.
- Laborsaving utility: dyeing yarn strips no need pinecone, can direct dyeing, easy operation, high productivity.
- Good quality: specially designed as low consumption and high function mixer flow pump, ensure optimal flux and delivery lift, equipped with dyeing water out-in flow and in-out flow system with automatic exchange, according to different frequency converter can adjust flux and delivery lift, making yarn strips, loose stock even dyeing results.
- Low liquor ration about 1:6~8, significant savings in water, steam, dye stuff, chemistry to help the etc.
- Patented designing heat exchanger making highest utilization of steam.
- High level of automation, all machine operation can used computer.

● 标准结构

TYPICAL STRUCTURE

- 与染液接触部分均采用优质高抗腐蚀不锈钢制造。
- 配有机械密封装置的卧式循环泵浦。
- 配有直接（高温机器不含）、间接两种功能的加热方式。
- 配有全不锈钢的毛球笼或散毛笼。
- 配备加料、搅拌、进水和加热系统的颜料桶。
- 水位显示器。
- The machine body which bring into contact with dye liquor is made of high quality anti-corrosion stainless steel.
- Equipped with high efficiency mechanical seal stainless steel axial flow pump.
- Two heating way, direct heating and indirectly heating (except high temperature machine).
- Furnished with stainless steel yarn strips cage or loose stock cage.
- Paint barrel equipped with feeding, mixing, water inlet and heating system.
- Water level indicator.

● 任选件

OPTIONAL

- 主泵变频控制。
- 可调节载量的减量盘。
- 全自动、半自动电脑控制。
- 颜料桶全自动控制。
- 定量加料系统。
- 第二入水，第二排水。
- The main pump is controlled by frequency converter.
- Adjustable platen.
- Full automatic and semi-automatic controller.
- Automatic control of paint barrel.
- Dosing system.
- The 2nd water and the 2nd discharge.

● 技术数据

TECH DATA

- 浴比：1:6 ~ 8
- 最高工作温度：高温：140℃ 常温：98℃
- 升温速率：约 4℃/分钟（以蒸汽压力 6kg/cm² 计）。
- 降温速率：约 2℃/分钟（以冷却水压 3kg/cm² 计）。
- Liquor ration: 1:6 ~ 8
- Max working temperature: High temperature: 140℃ Normal temperature: 98℃
- Temperature rising rate: about 4℃/minute (according to the steamy pressure 6kg / cm²).
- Temperature cooling rate: about 2℃/minute (according to the steamy pressure 3kg / cm²).

● 主要技术指标

THE MAIN TECHNICAL SPECIFICATIONS

型号 Model	WSM-50	WSM-100	WSM-200	WSM-300	WSM-500
最高工作温度℃ Highest operating temperature	100℃				
升温速度 Elevation of temperature speed	5℃/分钟 Minute(以 By 0.6MPa 计 Computation)				
设计容量 kg Design capacity	50	100	200	300	500
主缸直径 mm Master cylinder diameter	950	1150	1300	1400	1600
主泵功率 kw The host pumps power	3	5.5	7.5	11	18.5
重量 kg Weight	500	800	1400	1800	2200