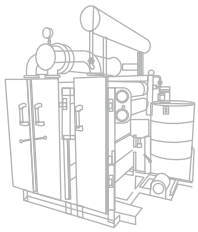
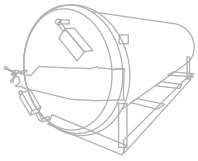
JOGSON

SINCE 1985

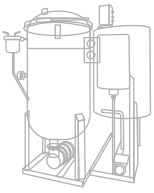


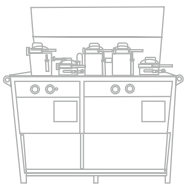




YARN

DYEING | DRYING | CONDITIONING MACHINES





PRODUCT RANGE

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CERTIFICATIONS

IAF · ISO 9001 CERTIFIED COMPANY · MSME Ministry of MSME, Govt. of India · CRISIL An S&P Global Company · CE

COMPANY PROFILE



Established 1985



Inderpal Singh
Technical Director



Jagjeet Singh
CMD



Harmeet Singh
Sales & Marketing Director

Long way back, in 1985, JOGSON moved its hands to touch the soul of threads around them. From then, there is no looking back. In the last three decades, JOGSON has contributed relentlessly to design and manufacture high quality, cost-effective & reliable machines foryarn dyeing, conditioning, laundry and drying.

Riding on intensive Research & Development programme, JOGSON is dedicated to improvise existing machines, their manufacturing process with latest equipments and instrument, adopting innovative technologies for better sustainability and providing impeccable service and support.

The JOGSON group abides to International Standards of quality control and safety in every step of design, manufacturing and assembly. All machines are in compliance with local technical regulatory authorities. Certifications like CE, TUV, ASME, IBR are provided according to customer's requirement. Further more, JOGSON operates under the standards of ISO 9001 since 2015.

Our Team

The experience, expertise and dedication of the company employees contribute significantly in the welfare of the organization to which in return, we provide growth opportunities, industry-leading benefits and a work environment that fosters creativity and leadership.

The practitioner team consists entirely of hands-on experts in process improvement, innovation and allied disciplines. They are practical, well experienced people with passion, commitment and a credible track record in improving manufacturing processes for bottom-line benefit.



SUITABLE MATERIALS



SUITABLE FORMS



“Quality is Never An Accident :
It is Always The Result of Intelligent Effort.”



MULTIPOT DYEING MACHINE



Yarn dyeing industry needed a versatile sampling machine for their labs and R&D, so with the inputs of world wide dyeing industry leaders, JOGSON developed a unique and innovative concept in its own, Multi Pot Dyeing Machine which is offered from 2 pots to upto 10 pots on a common table either coupled to dye batches of same colour or can run individually to facilitate dyeing batches of different colours simultaneously. This is very useful for standardizing the recipes of dyeing before batches are taken in bulk. This avoids trial and error methods, hence saves time and resources utilized. Each pot can range from 20 grams. to 30 kg. per batch as per the requirement.

The machine allows sampling in laboratory and very useful for small batch production of expensive yarns. Each Pot can be charged with different type of yarn materials. Each pot has its own turbo pump and controller. Main feature of this machine is its perfect reproducibility from laboratory to bulk production.

These machines are available with different levels of automations and can be equipped with either individual dedicated controllers or with centralised controller. JMD machines is suitable for dyeing of all natural/manmade fibers such as Polyester, Cotton, Viscose, Nylon, Acrylic, Texturized, Silk, Wool, etc. in various forms of Cone, Tape, Narrow Fabrics, Zipper, Hanks, Ribbons, Tops, Loose Fiber. etc.

Salient Features

- All possible Coupling options between pots
- Machine body & all parts coming into contact with the dyeing liquor are made of AISI SS 316Ti/316L, highly corrosion resistant
- Each Pot equipped with Direct mounted Turbo Pump for liquor circulation (In-Out & Out-In) with Inverter drive for varying the speed
- Control panel with choice of semi-auto / auto JOGSON dyeing controller
- MLR ranging from 1:3 to 1:6
- Works on both fully flooded and air pad mode
- Available in semi auto and fully auto models
- Each pot has individual dosing tank with Injection Pump for fast dosing of dye liquor (Optional)
- High efficient internal heat exchanger for indirect heating/cooling which has no energy loss to the ambient
- Electric heating / direct gas burner (optional)
- HT Drain - the machine can be drained at 130° C without colouring
- Pneumatically operated top lid safety locking / unlocking
- Human / Machine safety interlocks
- Plug and play model
- Safety level sensor for turbo pump and heating in each pot
- Overhead Loading / Unloading system (Optional)
- Modular pipeline design to minimise installation cost

Model : JMD 6

Capacity

- For Cones - 5 cones x 6 pots
- For Tape - 10 kg x 6 pots
- For Hanks - 10 kg x 6 pots



Advantages

- Multiple pots on single table suitable for labs/small lots
- Compact arrangement of JOGSON turbo pump, heat exchanger and piping is the main key to low MLR, high efficiency and floor space saving
- Inverter driven turbo pump for variable flow control; saves upto 40% power consumption hence more Energy Efficient
- HT drain at 130°C for oligomers elimination during polyester dyeing process, shortens batch time, effectively removes water from the package
- Excellent dyeing result and levelness, High Right First Time
- Water level, pressure, distinctive temperature multiple safety interlock, ensures operational safety
- Modular construction system up to 8 vessels with upgrading possibility

Technical Data

- Maximum design pressure 5 bar
- Maximum design temperature 140°C
- Heating gradient 25°C - 130°C approx at 5°C /min. (Dry saturated steam pressure at 7 bar), approx at 3oC/min with electric heaters.
- Cooling gradient 130°C - 85°C approx at 3.5°C/min. (Cold water of 25°C at 3 bar)

JMD - MAX

- This model is the best choice for taking out the medium size batches with maximum versatility
- It is offered for any combination between 10 to 30 kg in set of 2 to 10 Pots
- By opting for coupling feature, the user can dye the bigger batches
- Capacity of the machine may vary according to the material i.e Polyester, Cotton, Viscose, etc. and forms i.e Cone, Hanks, Tapes, etc.



Model : JMD 2

Capacity

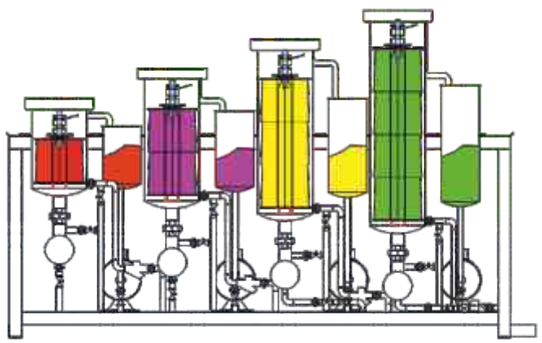
- For Cones - 10 cones + 15 cones
- For Tape - 20 kg + 30 kg
- For Hanks - 20 kg + 30 kg





JMD - MIX

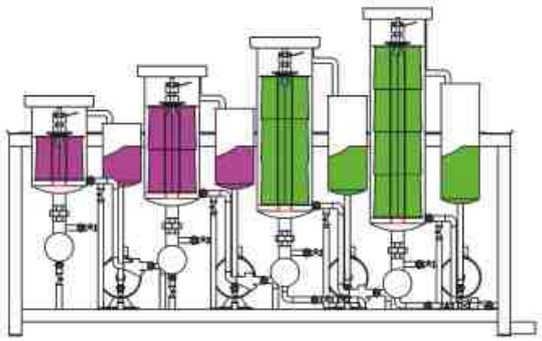
- Most selling model in this category is JMD Mix (1+2+3+4)
- In this model there is benefit that one can dye all ranges between 1 Kg to 10 kg by using the coupling feature
- It is suitable for both; cones & loose material
- Up to 10 pots of capacities ranging between 1 kg to 20 kg can be supplied on common table for ease of usage
- Option of coupling of 2 or more pots enables the dyer to produce bigger batches of same color



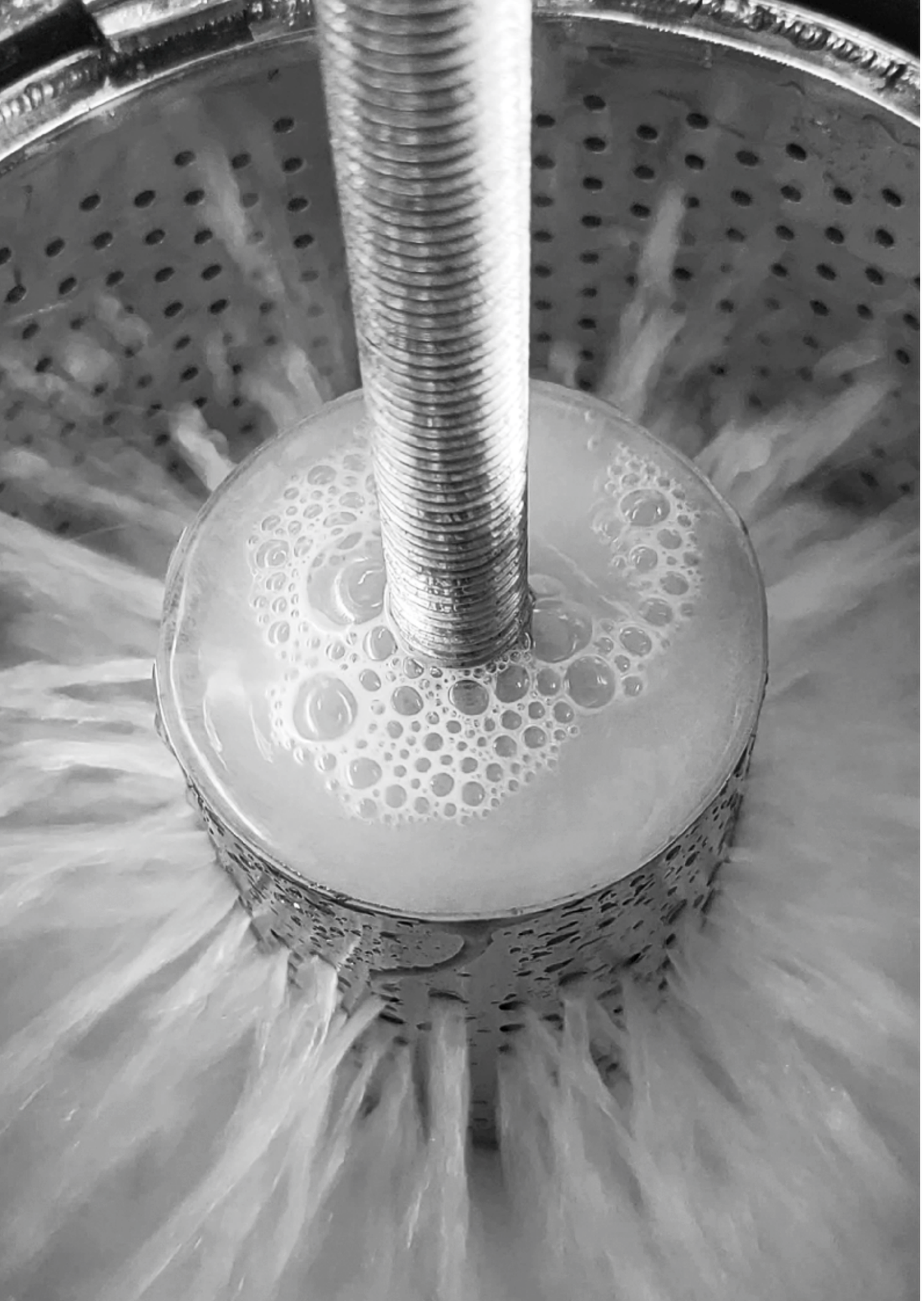
Individual Mode

JMD - MINI (20-500 GM)

- JMD Mini - 6 Pots (250 gm/pot) is the model which has become the first choice of dyeing units with regular requirement of sampling
- By getting high RFT this apparatus helps in saving time and resources which results in attaining financial benefits
- Up to 10 pots of capacities ranging between 20 gm to 500 gm can be supplied on common table
- Choice of coupling of 2 or more pots enables the dyer to produce bigger samples of same color



Coupling Mode



HTHP

VERTICAL TUBULAR DYEING MACHINE



MODELS

JVT	1	2	3	4	5	6	7	8	10	12	14	16	20	24	30
Batch (Kg)	1.5	3	4.5	6	7.5	9	10.5	12	15	18	21	24	30	36	45
Electric Load (Kw)	2.5	2.5	2.5	2.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	5	5	5	7

- We reserve our rights to make any changes without prior notice
- Batch capacity of the machine may vary according to the material i.e. Polyester, Cotton, Viscose, Silk, Tape, etc.
- Electric load mentioned above is of turbo pump fitted with electric motor and dozing pump
- Scope of delivery and technical specification of the product supplied shall be in accordance with the contract

JOGSON Offers Economical & Eco Friendly Vertical Tubular Type Dyeing Machine to cater the dyehouse requirement of sampling and small lots. This machine is specially designed for small lots dyeing ranging from 1kg upto 40kg /batch.

It is often required in the dyeing industry to get a sample approved from the customer or sometime customer demands small dye lots of different colors. So HTHP Vertical Tubular Dyeing Machine provides the best solution to produce the required amount of dyed yarn which in turn helps to save expensive materials & unnecessary production loss requirement which perfectly defines it as Economical, Eco friendly because it has ultra low liquor ratio which means it uses less water, saves electrical and heat energy, less effluent discharge, saves ETP cost respective to conventional dying machines.

The machine is suitable for dyeing of Polyester, Cotton, Viscose, Nylon, Acrylic, Texturized, Silk, Wool, etc. in various forms like Cone, Tape, Narrow Fabrics, Zipper, Hanks, Ribbons, Tops & Loose Fiber.



Model : JVT

Capacity

- For Cones - 15 cones
- For Tape - 30 kg
- For Hanks - 30 kg

Salient Features

- Machine body & all parts coming into contact with the dye liquor are made of AISI SS 316Ti/316L, highly corrosion resistant
- Direct driven turbo pump for liquor circulation (In-Out & Out-In) with Inverter drive for varying speed
- Control panel with JOGSON dyeing controller (PLC) & touch interface (Optional)
- Ultra low MLR of 1:3
- Air pad to create static pressure and to minimize the liquor ratio
- Colour addition tank with Injection Pump for dozing the dye liquor into the machine
- High efficient heat exchanger which has no heat loss to the ambient
- Variable loading possible with flexible loading spindles or capacity reducing dummies with nearly constant liquor ratio
- HT Drain - the machine can be drained at 130° C
- Sampling pot to check the dyeing result while machine is in operation (optional)
- Rapid lid Locking / Unlocking & safety inter locking device
- Human/Machine safety interlocks

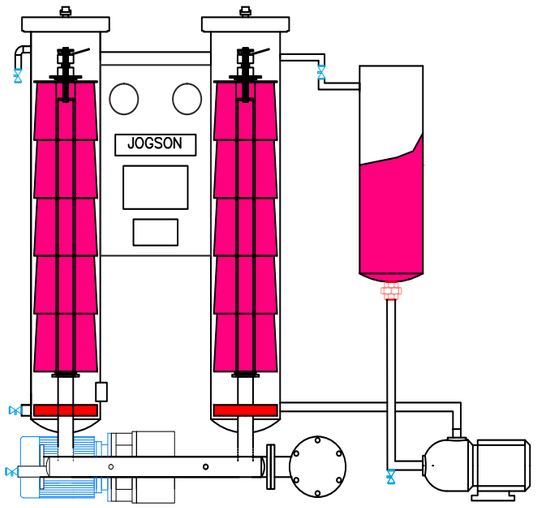
LAB MODEL OPTIONS





Advantages

- Compact arrangement of JOGSON turbo pump, heat exchanger and piping is the main key to floor space saving
- Ultra Low MLR of 1:3, consumes less dyestuff, chemicals, steam, water & produces less effluent discharge, hence it's ECO friendly & reduces the Production Cost
- Inverter driven turbo pump for variable flow control; saves upto 40% power consumption hence more Energy Efficient
- HT drain at 130°C for oligomers elimination during polyester dyeing process
- Variable loading with dummies maintains constant MLR & Pump Flow Rate
- Excellent dyeing result and levelness, reduces yarn loss
- Water level, pressure, distinctive temperature multiple safety interlock, ensure operational safety





Control Panel



Tops/Loose Fiber/Hanks Carrier

Technical Data

- Technical Data
- Maximum design pressure 5 bar
- Maximum design temperature 140°C
- Heating gradient 25°C - 130°C approx at 5°C min. (Dry saturated steam pressure at 7 bar)
- Cooling gradient 130°C - 85°C approx at 3.5°C/min. (Cold water of 25°C at 3 bar)

DYEING | DRYING | CONDITIONING MACHINES



HTHP

VERTICAL DYEING MACHINE



MODELS

JVD	10	20	30	40	50	60	80	100	150	200	250	300	400	500	800	1000	1500	2000
Batch (Kg)	10	20	30	40	50	60	80	100	150	200	250	300	400	500	800	1000	1500	2000
Electric Load (Kw)	3.5	3.5	5	7	7	7	11	13	17.5	22	22	22	26	35	52	65	86	105

- We reserve our rights to make any changes without prior notice
- Batch capacity of the machine may vary according to the material i.e. Polyester, Cotton, Viscose, Silk, Tape, etc.
- Electric load mentioned above is of turbo pump fitted with electric motor and dozing pump
- Scope of delivery and technical specification of the product supplied shall be in accordance with the contract

HTHP Vertical Dyeing Machine is one of our best selling machines since it's introduction. Precision engineered High Temperature High Pressure JVD have become the first choice of dyeing plant through out the Textile Dyeing Industry with us having technical experience of around 1000 man years.

JVD has been designed for dyeing almost all natural & handmade fibers like Polyester, Cotton, Viscose, Nylon, Acrylic, Texturised, Silk, Wool in various forms like Cone, Tape, Narrow Fabrics, Zipper, Hanks, Ribbons, Tops & Loose Fiber, Tows, Muffs, etc.

These machines are offered for capacities from 10 kg upto 1500 kg. per batch. However two machines can be coupled to give larger batch size up to 3000 kg. The coupled machines can be run as independent machine also at the press of a button.

Advantages

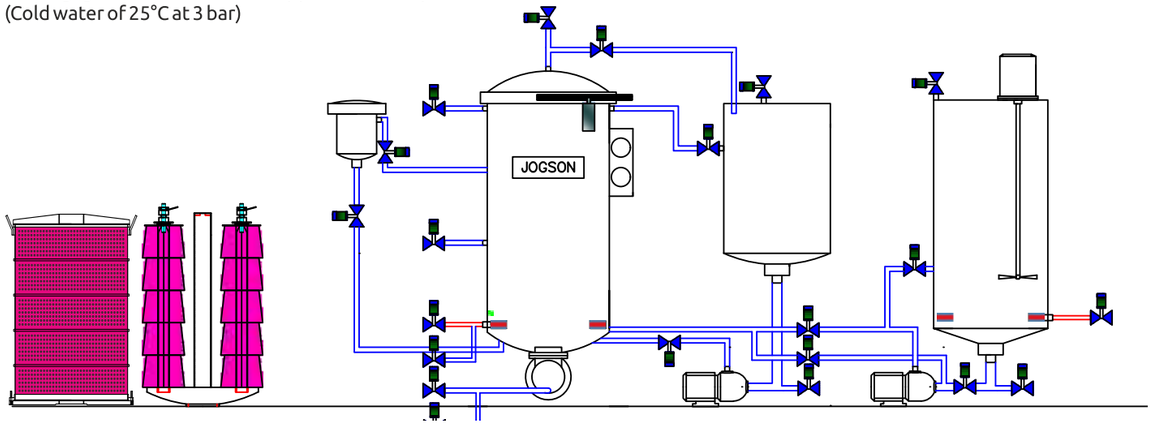
- Compact arrangement of JOGSON Dyeing Pump, Heat exchanger and piping is the main key to floor space saving
- Bi-direction Turbo allows the packages to expand and contract by pressure changes, increasing the effectiveness and eveness in dyeing
- **MLR** achieved down to **1:4**, consumes less dyestuff, chemicals, steam, water & produces less effluent discharge, hence it's **ECO friendly** & **reduces the production cost** in respect to conventional vertical machines
- Inverter driven turbo pump for variable flow control; saves upto 40% power consumption hence more **Energy Efficient**
- HT Drain at 130°C for oligomers elimination during polyester dyeing process, shortern batch time, effectively removes excess water from the packages
- **Variable loading** with dummies & airpad maintains constant **MLR & Flow Rate**
- Reduced loading with single direction pump mode, airpad and partial fill minimizes MLR
- **Interchangeable dyeing carriers** for Cones, Loose Fiber, Fabric, Muffs, Tops, Bobbin, etc.
- Excellent dyeing result and levelness, reduces yarn loss
- Water level, pressure, distinctive temperature multiple safety interlock, ensure operational safety

Technical Data

- Maximum design pressure 5 bar
- Maximum design temperature 140°C
- Heating gradient 25°C - 130°C approx at 5°C /min. (Dry saturated steam pressure at 7 bar)
- Cooling gradient 130°C-85°C approx at 3.5°C/min. (Cold water of 25°C at 3 bar)

Salient Features

- Machine body and all parts coming into contact with the dye liquor are made of AISI SS 316Ti/316L, highly corrosion resistant
- Bi-direction Turbo pump single / double stage for liquor circulation (In-Out & Out-In) with Inverter Drive for varying the speed
- Control panel with JOGSON Dyeing controller, PLC & touch interface (Optional)
- MLR of 1:4.5 (Fully Flooded) 1:4 (Air Pad System)
- Air pad System creates static pressure in the vessel and minimizes the liquor ratio
- Dosing Tank with Injection Pump for dozing the dye liquor into the machine
- High efficient heat exchanger for indirect Heat/cool inside the machine having no heat loss to the ambient
- Variable loading with flexible loading spindles or capacity reducing dummies upto 50% capacity
- HT Drain - the machine can be drained at 130° C without cooling
- Sampling Pot to check the dyeing result while machine is in operation
- Pneumatically operated Top Lid Open / Close, secured with clamp type locking arrangement
- Human / Machine Safety Interlocks

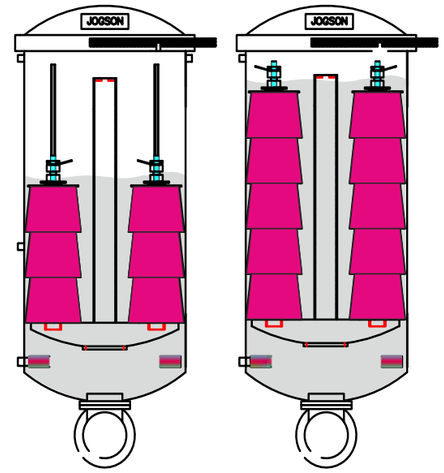


PULSED FLOW DYEING METHOD

- Pulsed flow for ultra saving of energy and liquor
- carrier is designed with participant allowing dye liquor to circulate through each partition at a time with the help of actuator valves
- Vessel can partially / fully filled
- Saves of up to 70% electricity, 30% water and 20% heat energy
- As it is completely innovative concept, it ensures both relevant saving of costs and overall improvement in the quality of the final dyed product
- Pulsed flow method allows variable loading upto 50% of the machine capacity at nearly constant MLR
- This model is available in various capacities ranging between 30 Kg and 1000 Kg per batch

Optional Features

- Multiple fill
- Multiple drain
- Various heating medium such as electric heaters, thermic fluid, steam & gas/diesel burner
- 100% capacity Stock Tank with heating & mixing stirrer and transfer pump
- ph meter
- Hydro extraction device
- DPT for ratio fill/metered fill/partial fill
- Linear and progressive dosing
- Package unloading basket



VARIABLE LOADING



Fiber Cage / Top Carrier



Cones / Bobbin Carrier



Control Panel





DOUBLE DECKER



HTHP

HORIZONTAL TUBULAR DYEING MACHINE



MODELS

JHD	1	2	3	4	5	6	8	10	12	15	18	20	24	25	30	36
Batch (Kg)	20	40	60	80	100	120	160	200	240	300	360	400	480	500	600	720
Electric Load (Kw)	3.5	5	7	7	9	11	13	13	17.5	17.5	21.5	21.5	26	26	34	34

- We reserve our rights to make any changes without prior notice
- Batch capacity of the machine may vary according to the material i.e. Polyester, Cotton, Viscose, Silk, Tape, etc.
- Electric load mentioned above is of turbo pump fitted with electric motor and dozing pump
- Scope of delivery and technical specification of the product supplied shall be in accordance with the contract
- Each Tube is suitable for carrying 15 No. Dye springs of size 57(w)x170(L) or 10 No. Plastic/steel tubes of size 57(ID)x170(L)

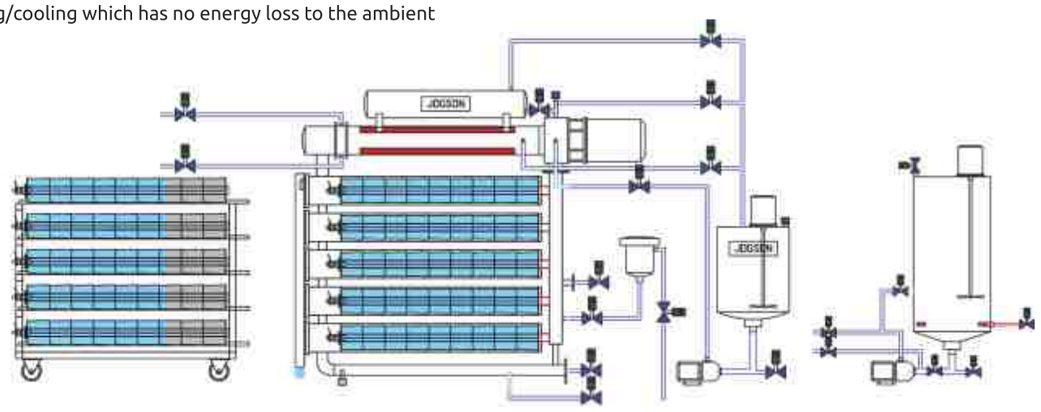
HTHP Horizontal Tubular Dyeing Machine is a front loading, low MLR dyeing machine suitable for dyeing of Polyester, Cotton, Viscose, Nylon, Acrylic, Texturized, Silk, Wool, etc. in various forms like Cone, Tape, Narrow Fabrics, etc. It caters to the needs of high productivity textile Industries.

These machines are offered with capacities from 20 kg up to 720 kg per batch. However two or more machines of identical capacities can be coupled to give larger batch size up to 2000 kg. The coupled machines can be run as independent machine also at the press of a button.



Salient Features

- Machine body and all parts coming into contact with the dye liquor are made of AISI SS 316Ti/316L, highly corrosion resistant
- Bi-direction Turbo Pump for double stage liquor circulation (In-Out & Out-In) with Inverter Drive for varying speed
- Control Panel with PLC and Touch Interface
- Ultra Low MLR of 1:3
- Air pad System to minimize the liquor ratio
- Colour dosing tank with Injection Pump for dozing the dye liquor into the machine
- High efficient internal heat exchanger for internal heating/cooling which has no energy loss to the ambient
- Variable loading with flexible loading spindles or capacity reducing dummies upto 50% capacity
- HT Drain - the machine can be drained at 130° C. without cooling
- Sampling pot to check the dyeing result while machine is in operation
- Pneumatically operated front door locking / unlocking
- Human/Machine safety interlocks
- Safety locking device
- Safety level sensor for turbo pump and heating

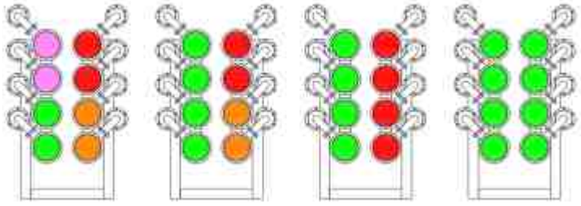


Advantages

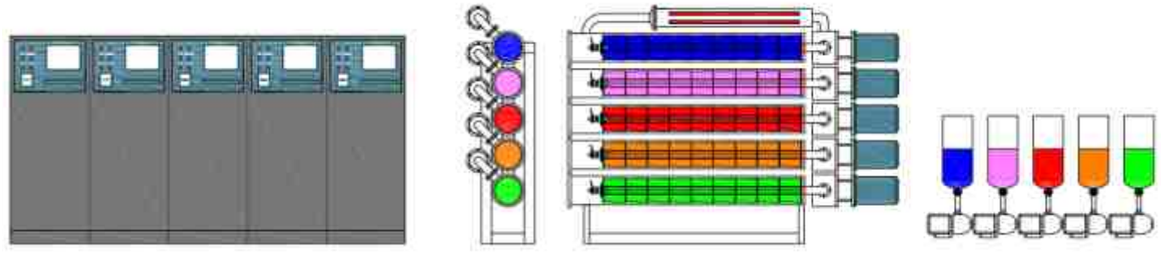
- Compact arrangement of JOGSON turbo pump, Heat exchanger and piping is the main key to **floor space saving**
- Bi-direction Turbo allows the packages to expand and contract by pressure changes, increasing the effectiveness and eveness in dyeing
- **Ultra Low MLR** of 1:3, consumes less dyestuff, chemicals, steam, water & produces less effluent discharge, hence it's ECO friendly (leads to global savings of water and chemical) & reduces the production cost resulting in faster Return on investment
- Inverter driven turbo pump for variable flow control; saves upto 40% power consumption hence more **Energy Efficient**
- HT drain at 130°C for oligomers elimination during polyester dyeing process, shortens batch time, effectively removes excess water from the package
- Variable loading with dummies maintains constant MLR & flow rate
- Working platform is not required as the top most tube in which the carrier is to be loaded is at the height of 1.5 mtr approx
- Overhead hoist need not to be installed as the carriers are loaded from front in the machine. Low roof height/any floor installation possible
- Excellent dyeing result and levelness, reduces yarn loss. **High Right First Time (RFT)**
- Water level, pressure, distinctive temperature multiple safety interlock, ensures operational safety



BURNER MODEL



A Few Arrangements of Multi Tube Machine



Multi Tube Dyeing with Coupling Options

Technical Data

- Maximum design pressure 5 bar
- Maximum design temperature 140°C
- Heating gradient 25°C - 130°C approx at 5°C /min. (Dry Saturated steam pressure at 7 bar)
- Cooling gradient 130°C - 85°C approx at 3.5°C/min. (Cold water of 25°C at 3 bar)

Optional Features

- Multiple drain, multiple fill
- Various heating mediums such as electric heaters, thermic fluid, steam & gas/diesel burner
- 100% capacity Stock Tank with heating, mixing stirrer and transfer pump
- ph meter
- Hydro extraction device
- DPT for ratio fill / metered fill
- Linear and progressive dosing
- Multi tube with coupling option



Control Panel



Carrier Trolley

HORIZONTAL
VESSEL DYEING
MACHINE



Jogson Horizontal Vessel Dyeing Machine (JHVD) is one of the best apparatuses for dyeing bulk batches in one go. Precision engineered JHVD have become the priority of dyeing plant throughout the Textile Dyeing Industry with us having technical experience of around 1000-man years. JHVD has been designed for dyeing nearly all natural and manmade fiber like Polyester, Cotton, Viscose, Nylon, Acrylic, Texturized, Silk, Wool & in various forms i.e. Cone, Tape, Narrow Fabrics, Zipper, Hanks, Ribbons, Tops, Loose Fibre, Muffs, etc.

These machines are offered for capacities from 50 kg up to 1500 kg. per batch. However, two machines of identical capacities can be coupled to give larger batch size up to 3000 kg. The coupled machines can be run as independent machine also at the press of a button.

This is the best suitable concept for the dyeing plants with low height. For using this, overhead hoist & platform is also not required.

MODELS

JHVD	50	60	80	100	150	200	250	300	400	500	800	1000	1500
Batch (Kg)	50	60	80	100	150	200	250	300	400	500	800	1000	1500
Electric Load (Kw)	7	7	11	13	17.5	22	22	22	26	35	52	65	86

- We reserve our rights to make any changes without prior notice
- Batch capacity of the machine may vary according to the material i.e. Polyester, Cotton, Viscose, Silk, Tape, etc.
- Electric load mentioned above is of turbo pump fitted with electric motor and dozing pump
- Scope of delivery and technical specification of the product supplied shall be in accordance with the contract

Salient Features

- Machine body and all parts coming into contact with the dye liquor are made of AISI SS 316Ti/316L, highly corrosion resistant
- Double stage turbo pump for liquor circulation (In-Out & Out-In) with Inverter Drive for varying speed
- Control panel with JOGSON Dyeing controller (PLC) & touch interface (Optional)
- MLR of 1:5 (Fully Flooded) 1:4 (Air Pad System)
- Air pad System to insert air manually into the machine to create static pressure and to minimize the liquor ratio
- Colour addition tank with Injection Pump for dozing the dye liquor into the machine
- High efficient heat exchanger inside the machine having no heat loss to the ambient
- Variable loading with flexible loading spindles or capacity reducing dummies
- HT Drain - the machine can be drained at 130° C Sampling Pot to check the dyeing result while machine is in operation
- Pneumatically operated Top Lid Open / Close
- Human / Machine Safety Interlocks

Optional Features

- Multiple fill
- Multiple drain
- Various heating methods such as electric heaters, thermic fluid, steam & gas/diesel burner
- Full capacity Stock Tank with heating & mixing stirrer and transfer pump
- ph meter
- Hydro extraction device
- DPT for ratio fill/metered fill/partial fill
- Linear and progressive dosing

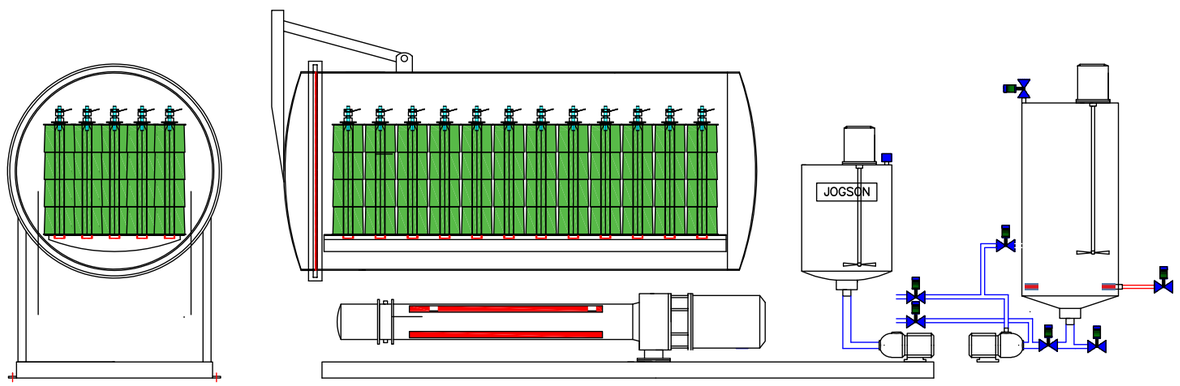
Advantages

- Compact arrangement of JOGSON Dyeing Pump, Heat exchanger and piping is the main key to floor space saving
- MLR of 1:5, consumes less dyestuff, chemicals, steam, water & produces less effluent discharge, hence it's ECO friendly & reduces the production cost in respect to conventional vertical machines
- Inverter driven turbo pump for variable flow control; saves upto 40% power consumption hence more Energy Efficient
- HT Drain at 130°C for oligomers elimination during polyester dyeing process
- Variable loading with dummies & air pad maintains constant MLR & Flow Rate
- Interchangeable dyeing carriers for Cones, Loose Fiber, Fabric, Muffs, Tops, Bobbin, etc.
- Excellent dyeing result and levelness, reduces yarn loss
- Water level, pressure, distinctive temperature multiple safety interlock, ensure operational safety

Technical Data

- Maximum design pressure 5 bar
- Maximum design temperature 140°C
- Heating gradient 25°C - 130°C approx at 5°C /min. (Dry saturated steam pressure at 7 bar)
- Cooling gradient 130°C-85°C approx at 3.5°C/min. (Cold water of 25°C at 3 bar)





HTHP
MULTICOLOR
SPACE DYEING
MACHINE



JSD	1/4	1/6	1/8	2/4	2/6	2/8
No. of Cones	1	1	1	2	2	2
Color Options	4	6	8	4	6	8
Electric Load (Kw)	5.5	5.5	5.5	11.25	11.25	11.25

- We reserve our rights to make any changes without prior notice
- Batch capacity of the machine may vary according to the material i.e. Polyester, Cotton, Viscose, Silk, Tape, etc.
- Electric load mentioned above is of vacuum pump fitted with electric motor and dozing pump
- Scope of delivery and technical specification of the product supplied shall be in accordance with the contract

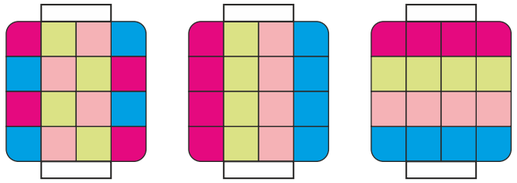
JOGSON Multicolor Space Dyeing Machine has been developed with the growing need of Space dyed yarn globally and tie & dye market locally. This machine is used for polychromatic dyeing of cones in different possible patterns. It is suitable to dye any type of yarn both natural and synthetic i.e. Polyester, Cotton, Rayon and many more. This machine is also able to space dye fine count filament polyester yarn in single cycle. It is one of the technologically advanced and successfully running machine in the market with newly updated JOGSON Pneumatic Actuated Distribution system, water saving system for vacuum pump, Pneumatic Stirrer for colour tanks, etc.

The machine is offered in various models with options of 4, 6 and 8 colors depending on the needs of the buyer.

Process Steps



Multiple Patterns



Salient Features

- With options of 4, 6 and 8 colours
- Machine body stainless steel 304 & all parts coming into contact with the dye liquor are made of AISI SS 316Ti/316L, highly corrosion resistant
- High vacuum through mono block vacuum pump
- Water saving system for vacuum pump
- Liquor transfer through seal less magnetic pumps
- Liquor dosing by highly efficient over head mounted JOGSON Pneumatic Actuated Distribution system
- Automatic dyeing cycles, high productivity, 1 dyeing cycle in about 60 seconds
- Suitable for any type of yarn natural or synthetic, wound on dye spring, plastic tube, steel tube, etc.
- Suitable for dyestuff like Acid, Reacted , Direct, Disperse and Pre-metallized
- Multiple design pattern possibilities
- Power control panel with PLC & touch interface
- Floor level installation
- Individual colour tanks for stocking dyestuff / jerry can connections



Working Steps

- **Package Preparation :** The yarn must be wound on Dye Spring, Plastic Tube, Steel Tube, etc.
- **Recipe preparation :** The chemicals & dye-stuff are mixed & put into colour tank
- **Dyeing process :** It starts with transferring of mixed liquor from each colour tank to overhead dosing cylinders & distributed uniformly to the package. The uniformity of the printed package is guaranteed both by JOGSON Pneumatic Actuated Distribution system mated with high suction of the vacuum pump
- **Dyestuff fixation :** After dyeing, the package are placed in JOGSON Yarn Conditioning Machine for dyestuff fixation. The process of heat setting & conditioning varies on the type of yarn
- **Washing :** To wash out the excess dyestuff the package is then placed in JOGSON yarn dyeing machine
- **Drying :** Depending on the Yarn, JOGSON Hydro Extractor or JOGSON Hot Air Drier can be used to dry the wet package



Step-1 (Open)



Step-2 (Load Package)



Step-3 (Dyeing)



Step-4 (Dyeing Result)

GLYCERIN BATH
BEAKER DYEING
MACHINE



JOGSON has designed a Versatile, Compact and maintenance free Glycerin Bath Beaker Dyeing Machine which is suitable for developing Dyeing Recipe for Polyester, Cotton, Viscose, Acrylic, Silk Yarns, Zipper Tapes, Narrow Fabric, Sewing Threads & any form of fiber or blended Yarn. This machine is of immense use for dyeing plant, processing units, research and development labs, testing labs, textile institutes and dyes manufacturers.

MODELS

JBD	6	6	10	10
No. of Beakers	150ml	250ml	150ml	250ml
Electric Load (Kw)	6	6	10	10
Electric Load (Kw)	4.5	4.5	4.5	6.5

- We reserve our rights to make any changes without prior notice
- Batch capacity of the machine may vary according to the material i.e. Polyester, Cotton, Viscose, Silk, Tape, etc.
- Electric load mentioned above is of gear box fitted with electric motor
- Scope of delivery and technical specification of the product supplied shall be in accordance with the contract

The Machine is Equipped with JOGSON dyeing controller which control upto 100 programs with battery backup, Electric Gear Motor, Electric Heater, Heating / Cooling Coil, Operator Call & Memory Retention in case of Power Failure. Option of main power control panel with PLC touch interface is also available Glycerine Bath Beaker Dyeing Machine is provided with Human / Machine safety interlocks & Sensors for added safety.

It is available in various option having no. of beakers like 6, 8 and 10 with different capacity i.e 150 ml and 250 ml each.



Salient Features

- Machine body and all parts coming into contact with the dye liquor are made of AISI SS 316TI/316L, highly corrosion resistant.
- MLR of 1:20
- The apparatus comprises of tank, beaker and gear box
- Beakers are capable of with standing pressure upto 6.0 Kg/cm2
- Control panel with JOGSON dyeing controller & touch interface (Optional)
- Limit switch installed at top cover for operator safety
- Heating & cooling coil made of stainless steel AISI SS 316TI/316L
- Gear driven energy efficient electric motor
- Ideal for recipe developing & shade matching for large batches
- Simple installation at slab of dying lab

Advantages

- Uniform dyeing
- Hassle free plug and play model
- Low running cost
- Semi automatic operation
- Inching switch for rotation
- Ensures a sound free and smooth working
- Suitable for nearly all fibers and narrow fabrics
- Longer functional life
- Unmatched performance

Technical Data

- Maximum Design Temperature 140°C
- Heating Gradient 25°C - 130°C approx at 1.5°C /min. (Dry Saturated Steam pressure at 7 bar)
- Cooling Gradient 130°C - 85°C approx at 1.5°C/min. (Cold Water of 25°C at 3 bar)



Control Panel



Beaker



Rotary Beaker Carrier



Accessories

YARN CONDITIONING MACHINE



JOGSON Yarn Conditioning / Heat Setting Machine is designed with an objective to restore natural properties of yarns i.e. to improve elasticity & strength, regaining moisture level, improving hydrophilic properties, removing snarling & curling effects, Twist Setting.

This dual purpose machine is ideal to treat all natural and synthetic yarns i.e. Cotton, Viscose, Lycra, Blends, Wool, Polyester, Nylon, Acrylic and Silk in the form of Cone, Loose Fiber, Hanks, Muffs, Tops, Narrow Fabrics, etc.

It is offered with various types of yarn carrier trolley like : Creel Type Trolley to Carry Cones, Bobbins, Trolley with Hangers for Loose Yarn, Hanks, socks and Cage type trolley for Loose Fiber, hand gloves, etc. Automatic platform for loading / unloading of yarn carrier trolley is also available as option.

MODELS

JYC	25	50	100	150	300	500	750	1000	1200	1500	1800	2000
Batch (Kg)	25	50	100	150	300	500	750	1000	1200	1500	1800	2000
Electric Load (Kw)	2	2	2.5	2.5	4.5	8	12.5	12.5	16	16	16	20

- We reserve our rights to make any changes without prior notice
- Batch capacity of the machine may vary according to the material i.e. Polyester, Cotton, Viscose, Silk, Tape, etc.
- Electric load mentioned above is of vacuum pump fitted with electric motor
- Scope of delivery and technical specification of the product supplied shall be in accordance with the contract

Process Control

The entire process of conditioning starts from material loading, Locking of front door then Vacuum is first created upto 740 mm Hg by water ring vacuum pump to remove the air & impurities from the yarn. This improves penetration by steam & lack of O^2 prevents oxidation. Dry steam is then injected in the machine along its entire length ensuring an even distribution of temperature. Vacuum is recreated to remove excess moisture from the yarn. External Steam Heating of the Machine through Limpet Coil ensures no steam condensation which also helps to maintain the temperature. When Cooling is required for the machine, same Limpet Coil can work with water. Multiple Vacuum, Steam & water cooling cycle are possible by linking two or more programs.



FOR CONES

Technical Data

- Design pressure -1 to + 1 bar
- Maximum design temperature 130°C
- Heating gradient 25°C - 130°C approx at 5°C /min. (Dry saturated steam pressure at 7 bar)
- Average steam consumption per kg. of yarn 0.25-0.50 kg. at 7 kg./cm2
- Water consumption (During the vacuum pump operation) at 1 bar is upto 15 Ltrs/min.
- Compressed air requirement 6-7 kg./cm2
- Max vacuum up 720 mm Hg

Advantages

- Twist setting, shrinkage set of yarn
- Reduction in snarling
- Improved dye fixation & affinity
- Improved weaving & knitting performance, fewer needle breaks
- Higher elongation & strength of yarn
- Free from electrostatic charges
- Easy to operate, low maintenance cost and energy efficient
- Uniform moisture regain



Salient Features

- Machine body & all parts in contact with the yarn are made of AISI-SS 304, highly corrosion resistant
- Insulated external with mineral wool to maintain vacuum pressure which helps in producing cold saturated steam at low temperature
- Low temperature yarn conditioning from 45°C and heat setting upto 120°C
- Maintenance free mono block vacuum pump, ensures upto 95% vacuum gain and homogeneous absorption of moistur
- Direct & indirect heating
- Jacket cooling (Optional)
- Pneumatic operated door lock / unlock with safety interlock as per International Standard
- Variable loading of yarn
- Provided with condensation protection sheet to avoid water droplet on the yarn
- Installed with pressure switch to release the excess pressure through pressure release valve
- Installation at floor level, saves space and requires min. civil work
- Control panel with JOGSON process controller TPR-33 or PLC based touch screen programmer

Optional Features

- Motorised loading / unloading platform
- SS 304 / 316 vessel



FOR LOOSE MATERIAL

HYDRO EXTRACTOR



JOGSON Hydro Extractor is designed to extract excess water swiftly from the Yarn, Cones, Loose Hank with minimum vibration & Noise. The outer drum and inner basket are made of AISI SS 304. with a top discharge opening, the basket is statically & dynamically balanced. It works under the unique principle of centrifugal force. We offer two types of Hydro Extractor i.e. (1). Belt Driven, machine mounted on heavy duty 3 leg suspension (2). Direct Driven, basket mounted directly on the drive motor. It is available in different ranges from 3 to 36 movable spindle for cones / bobbin and upto 600 kg. per batch for Hanks, Loose Fiber, Tape, Top, Narrow Fabrics and Garments.

This Imitable extractor completes water extractions upto 95% for polyester in around 10 minutes & upto 65% for cotton /viscose in around 15 minutes, ensuring very low moisture retention.

Hydro Extractor is provided with limit switch & inter locking device for added safety. The apparatus is thoroughly checked and inspected at served quality parameters by our experts for ensuring it's flawlessness.



FOR LOOSE HANKS/FIBER



FOR TAPE

MODELS

JHE (Loose)	10	25	50	100	200
Batch (Kg)	10	25	50	100	200
Electric Load (Kw)	0.75	4.5	6.5	7.5	10
Basket Dia	550	550	700	1000	1220

MODELS

JHE (Cones)	9	12	18	24	30	36	48	60
Batch (Kg)	13.5	18	27	36	45	54	72	90
Electric Load (Kw)	1.5	2.2	2.2	4	4	6	6	7.5
Spindles	3	4	6	8	10	12	12	15

- We reserve our rights to make any changes without prior notice
- Batch capacity of the machine may vary according to the material i.e. Polyester, Cotton, Viscose, Silk, Tape, etc.
- Scope of delivery and technical specification of the product supplied shall be in accordance with the contract
- Electric load mentioned above is of electric motor

Salient Features

- Suitable for Yarn, Coir, Jute, Cone, Fabric, Garment, Tape, etc.
- Low operating height
- Smooth running of the machine due to low center of gravity providing noiseless & vibration less performance
- High speed direct drive operation
- Inverter driven energy efficient electric motor with DBR for efficient braking
- Digital timer based process control
- Can be installed on any floor as it's operation is smooth and vibration free
- Automatic DC brake (Optional)
- Automatic Loading / Unloading (Optional)

Advantages

- Rewinding can even be eliminated in a lot of cases
- Low residual moisture
- Low energy consumption
- Processes many different size packages
- Operator of centrifuge can also load dryer
- Maintenance free brakes
- Closed system for effluent
- Significant energy savings
- Easy and economical operation
- Short cycle duration



Control Panel



Loose Fiber / Hanks



Cone Model



Stainless Steel Panel

HOT AIR DRIER



MODELS

JHAD	50	100	150	200	250	300	400	500	600	1000
Batch (Kg)	50	100	150	200	250	300	400	500	600	1000
Electric Load (Kw)	1	1	1.5	1.5	1.5	1.5	3	3	4	6

- We reserve our rights to make any changes without prior notice
- Batch capacity of the machine may vary according to the material i.e. Polyester, Cotton, Viscose, Silk, Tape, etc.
- Electric load mentioned above is of circulation blowers and electric dehumidifier
- Scope of delivery and technical specification of the product supplied shall be in accordance with the contract

Hot Air Drier is specially designed for drying almost all types of natural and man made Yarns like Polyester, Cotton, Viscose, Acrylic, Silk, Wool in various form like Loose Fiber, Hanks & Cones .



Trolley for Cones



Trolley for Hanks



Trolley for Trays

Construction : Exterior is made of fully insulated mild steel square pipe and covered with mild steel sheet with powder coated paint finish. Interior, the insulation is covered with galvanized sheet duly coated with high temperature resistant coating.

Insulation : All sides of drier cabinet are fully insulated with 50 mm thick glass wool for preventing Heat Loss/ Heat leakage.

Doors : Front open able hinged doors, insulated with 50 mm thick glass wool & door are lined with silicon rubber gasket for preventing any heat loss.

Locking : In case of single door cabinet, spring and roller type latch is provided & in case of double door cabinet, container type rod locking assembly is provided for effective secure seal.

Air Circulation : Forced air circulation is done by specially designed re-circulation blowers fitted inside the drier for better uniformity of temperature inside the chamber.

Ventilation : Very efficient electric De-humidifier operated with digital timer is provided along with adjustable manual air damper.

Heating : Various heating methods are offered as per the requirement such as electric heating, heating by thermic fluid or steam with fin type heat exchanger.

Carrier Trolley : For loose hanks carrier trolley is provided with aluminum hanger for hanging the hanks. Removable trays are provided for drying loose fiber and trims. Creel type trolley is provided for drying cones and bobbins. Drier is designed with foldable ramp for loading/unloading the carrier trolley.

Automatic Power Control Panel : Equipped with JOGSON Temperature Programmer TPR-14 which controls up to 8 programs with battery backup, blower fan On/Off, rate of temperature rise, hold time, operator call and memory retention in case of power failure.

Technical Data

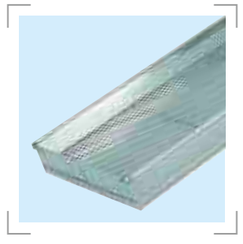
- Maximum design temperature 140°C
- Heating gradient 25°C - 130°C approx at 5°C /min. (Dry saturated steam pressure at 7 bar), approx at 3°C/min with electric heaters



Control Panel



Tray Model



Perforated Tray



Dehumidifier

INDUSTRIAL
WASHING MACHINE



Front Loading Industrial Washing machine has been designed by using advanced technology to serve Laundry Industry, Textile Industry, Hospitals, Hotels, Institution, etc.

Features & Advantages

- Exterior made of AISI SS 304
- Perforated inner basket is made of AISI SS 316
- Suitable for nearly all fabrics & garments like : denim, woolen, knitted, etc.
- Easy Material Loading & Unloading
- Upto 500 kg per batch
- Inverter driven energy efficient electric motor
- Options of heating by electric heaters, thermic fluid, steam, etc.
- Automatic functioning
- Equipped with JOGSON Temperature Programmer - TPR 14
- PLC based touch panel (Optional)
- Dosing pump and tank (Optional)
- Safety device fitted on main door

TUMBLER
DRIER

Tumbler Drier is specially designed to serve Laundry Industry, Textile Industry, Hospitals, Hotels, Towel Plants, Denim Processing Industries, Dying Houses, Home Furnishing and various Institutions.

Features & Advantages

- Suitable for all types of fabrics & garments
- Exterior made of mild steel duly painted
- Perforated inner basket is made of AISI SS 316 with paddles for consistent garment lifting
- Inching of inner basket to prevent tangling of garments
- Large door opening for easy Loading / Un-loading
- Die pressed door with see through toughened glass
- Upto 500 kg per batch
- Double walled insulation with glass wool for heat loss prevention
- Inverter driven energy efficient electric motor
- Options of heating by electric heaters, thermic fluid, steam, etc.
- Automatic functioning
- Equipped with JOGSON Temperature Programmer - TPR 14
- PLC based touch panel (Optional)
- Safety device fitted on main door



PRODUCT
ACCESSORIES



Carrier Spindles



Bobbin for Tape



Carrier for Cones



Fiber / Hanks Carrier



Trolley - Horizontal



Loose Material Carrier



Trolley for Cones



Trolley for Hanks



Trolley for Trays



Chemical Mixing Pot



Chemical Storage Tank



Fully Loaded Stock Tank



Reducing Dummy



Sampling Pot



Package Pressing Machine

OUR INSTALLED
PLANTS WORLDWIDE



VERTICAL DYEING MACHINE PLANT



YARN CONDITIONING MACHINE PLANT



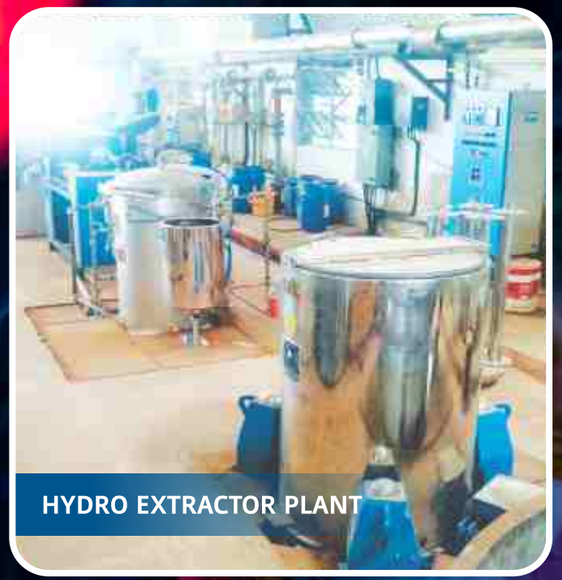
HOT AIR DRIER PLANT



VERTICAL DYEING MACHINE PLANT







HYDRO EXTRACTOR PLANT





EXHIBITION GALLERY



Exhibitions and trade shows offer a grand platform for a brand to showcase their products and services.

We at JOGSON push ourselves to exhibit more and more in every Established Textile Exhibition happening worldwide.

Showcasing a few pictures from our exhibition gallery for your reference..

JOGSON

SINCE 1985

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