



Vijay Mechanical

Manufacturer of Ring Doubling and
Ring Twister Machine & Spares



Quality is never an accident,
It is always the Result of Intelligent Effort

About Us

VIJAY MECHANICAL is ISO 9001-2015 Certified.



VMW is pioneer and front runner as a manufacturer & exporter of ring doublers, heavy ring twister and online ring winders in India since 1993 by employing a young ambition professionally managed team of Engineers. In 2008 the company launched a new model with the latest technology of ring twisting & ring doubling machines.

VMW have a wide experience of Designing & Development with customized engineering solutions.

The company has come a long way since its inception in 1993. We at VMW strive for continuous improvement and ensure that we are always a step ahead in quality and technology.

We have pleasure in introducing ourselves as one of the leading Twisting Machinery Manufacturers in Bhavnagar, Gujarat having been in this line for more than two decades.

Our concern started as an ancillary industry for twisting machinery manufacture and this gave us considerable experience and impetus and with full confidence, we decided to manufacture twisting machinery of our own.

We have started with help of Senior Textile Engineers who had more than 30 years' experience in this line extended their knowledge in the design of the machine and since 1980 we were fully experienced and equipped in the manufacture of Twisting Machinery of our own which are accepted well in the market since our machines are simple, sturdy, workman friendly, reliability in performance, durability of parts and above all quality end products and assured after sales service. This has resulted in repeat orders from our customers.

Since the Textile Machinery industry was limping, to diversify our manufacturing line we ventured to manufacture twisting machines for nylon fishnet industry, thread industry, industrial yarn, and rope making industry.

Our R & D Department was wholly engaged in the production of this machine which was very successfully produced and after rigorous tests proved to be a complete success.

We have supplied our ring twisting machines to many of the leading companies in India.

Product Overview

In our product basket, we have more than 5 different models to offer the twisting & doubling industries. The product overview gives you an idea to select the appropriate machine which best suits your requirement. It basically divides the entire model into mainly 6 sections.

- ▶ Ring Doublers
- ▶ Heavy Ring Twister
- ▶ Ring Doubler Combo Machine
- ▶ Online Ring Winder
- ▶ Online Ring Twister
- ▶ Ring Twister Combo Machine

Ancillary Products Such as Bobbin Winder, Cheese Winder, Creel Stand, Raw Material Bobbins, Abs Bobbins, MS Bobbins, Ring Travelers, etc.

VMW Manufacturing Facilities



R & D Department



VMC Machine



Messer-Plasma
Cutter



Precision Measuring
Instrument



Hobbing Machine



CNC Machine

All below facilities are our sisters consult are manufacturing precise parts

- ▶ Double Column VMC
- ▶ Sand Blasting Machine
- ▶ Grinding Machine
- ▶ CNC Hass Machine
- ▶ Laser Cutting Machine
- ▶ CNC Bending Machine



Ring Doubling Machine

Keeping track of the latest market developments, we are introducing a wide range of Heavy Doubling Machines. These doubling machines are widely used in the textile and plastic industry as they can perform well in extreme conditions. Under the supervision of our qualified professionals, provided doubling machines are designed by using premium quality of raw material and latest technology. Offered doubling machines are passed through various quality check parameters before delivering it to the doorsteps of our clients.

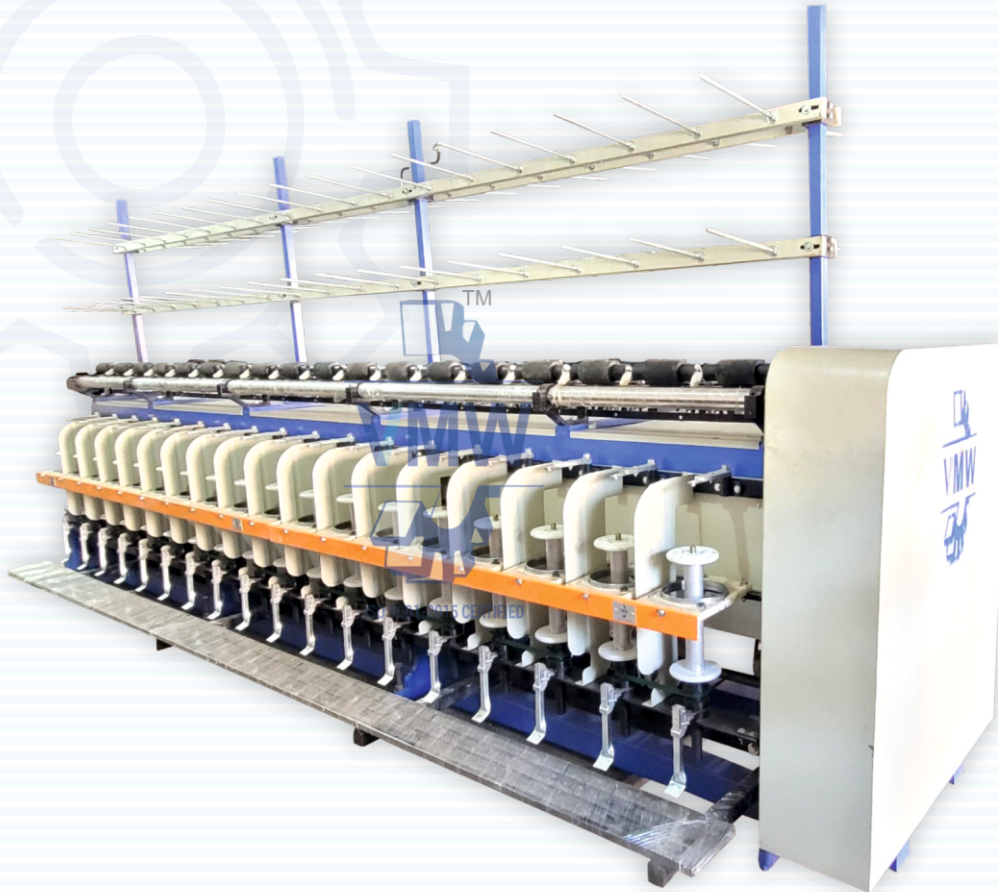
Applications

- ▶ Fishing twine
- ▶ Color twine
- ▶ Cotton twine
- ▶ Polyester twine for net
- ▶ Baler twine / agricultural twine
- ▶ Woven sack bag stitching yarn twisting

MODEL	DENIER	NO. OF SPINDLE	SPINDLE RPM
VMW/HRD - 3.5"	210 - 1500	64 - 240	4000 - 6500
VMW/HRD - 4.5"	600 - 4500	64 - 180	2800 - 4500
VMW/HRD - 5.5"	600 - 8000	32 - 128	2400 - 3500
VMW/HRD - 6.0"	600 - 10000	32 - 128	2400 - 3500
VMW/HRD - 6.5"	600 - 15000	32 - 128	2400 - 3500

SPINDLE RPM VARIES AS PER DENIER AND MATERIAL.





Supportable Materials

POY, FDY, JUTE, HDPE, COTTON, ACRYLIC, POLYESTER, FIBERGLASS, NATURAL FIBERS, MANMADE FIBERS, SYNTHETIC FIBERS, MULTIFILAMENT NYLON, MONOFILAMENT NYLON, P.P. FIBRILLATED TAPES, etc...

Heavy Ring Twister Machine

Keeping track of the latest market developments, we are introducing a wide range of Heavy Twisters Machines. These doubling machines are widely used in the textile and plastic industry as they can perform well in extreme conditions. Under the supervision of our qualified professionals, provided doubling machines are designed by using premium quality of raw material and latest technology. Offered doubling machines are passed through various quality check parameters before delivering it to the doorsteps of our clients.

Applications

- ▶ Ply twisting for rope
- ▶ Heavy denier baller twisting
- ▶ Heavy rope
- ▶ Cotton mop yarn twisting
- ▶ Denim cotton rope
- ▶ Tyre cord yarn
- ▶ Agriculture net/Sport net/Sport rope
- ▶ Primary and secondary twisting



MODEL	DENIER	NO. OF SPINDLE	SPINDLE RPM
VMW/HRD - 6.5"	630 - 15000	64 - 120	2400 - 3500
VMW/HRD - 8.5"	1000 - 28000	16 - 80	1600 - 3000
VMW/HRD - 10"	1000 - 45000	08 - 64	1600 - 2800
VMW/HRD - 11.25"	1500 - 55000	08 - 64	1600 - 2800
VMW/HRD - 12"	1500 - 65000	08 - 48	1200 - 2200



SPINDLE RPM VARIES AS PER DENIER AND MATERIAL.



Supportable Materials

POY, FDY, JUTE, HDPE, COTTON, ACRYLIC, POLYESTER, FIBERGLASS, NATURAL FIBERS, MANMADE FIBERS, SYNTHETIC FIBERS, MULTIFILAMENT NYLON, MONOFILAMENT NYLON, P.P. FIBRILLATED TAPES, etc...

Online Ring Winder Machine

The Online Ring Winder is utilized for Twisting and Winding of the fibers drawn specifically from the Extruder. This will decrease the level of waste and spares Electric Power and Time. Additionally, this machine will replace the utilization of the Bobbin Winder from the Extrusion Plant. Available in multiple Spindles with individual brake motors with foot switch as per Denier requirements, from small production output to large production output.

Advantages

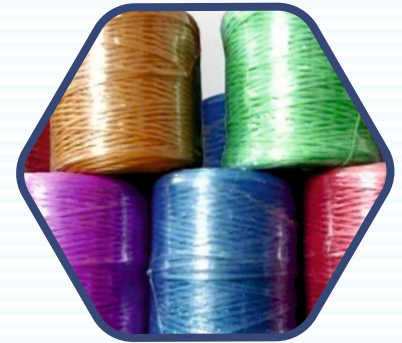
- ▶ Users can get normal TPM directly in an extruder at the same time, so the productivity is increased.
- ▶ An AC drive is provided to set the TPM in line with the extruder.
- ▶ Less power consumption
- ▶ Optimum production
- ▶ Easy to operate
- ▶ Less noisy

Applications

- ▶ Ply twisting for rope
- ▶ Heavy denier baller twisting
- ▶ Primary and secondary twisting

MODEL	DENIER	NO. OF SPINDLE	SPINDLE RPM
VMW/ORW - 8.5"	1000 - 28000	10 - 20	1600 - 3000
VMW/ORW - 10.5"	1000 - 45000	10 - 20	1600 - 2800
VMW/ORW - 11.25"	1500 - 55000	10 - 20	1600 - 2800
VMW/ORW - 12"	1500 - 65000	10 - 20	1200 - 2200

SPINDLE RPM VARIES AS PER DENIER AND MATERIAL.



Supportable Materials

POY, FDY, JUTE, HDPE, COTTON, ACRYLIC, POLYESTER, FIBERGLASS, NATURAL FIBERS, MANMADE FIBERS, SYNTHETIC FIBERS, MULTIFILAMENT NYLON, MONOFILAMENT NYLON, P.P. FIBRILLATED TAPES, etc...

Online Ring Twister Machine

The Online Ring Twister is mainly used in Baler Twine and rope primary twisting for Export Quality and fibers are drawn specifically from the Extruder. This is also used in small denier material and rope with 2-3 mm primary twisting. This will decrease the level of waste and spares Electric Power and Time. Additionally, this machine will replace the utilization of the Bobbin Winder and at the same time users will get minor TPM from the Extrusion Plant. Available in multiple Spindles with Common motors as per Denier requirements, from small production output to large production output.

Advantages

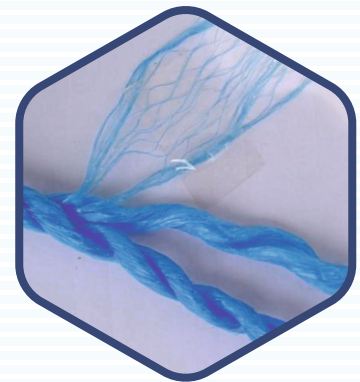
- ▶ Low maintenance as compared to online ring winders as there is an individual motor in the online ring winder.
- ▶ Users can get normal TPM directly in an extruder at the same time, so the productivity is increased.
- ▶ Two side operating as this will save space and increase in productivity.
- ▶ An AC drive is provided to set the TPM in line with the extruder.
- ▶ Less power consumption
- ▶ Optimum production
- ▶ Easy to operate
- ▶ Less noisy

Applications

- ▶ Primary and Secondary Twisting
- ▶ Heavy Denier Baler Twisting
- ▶ Ply Twisting for Rope

MODEL	DENIER	NO. OF SPINDLE	SPINDLE RPM
VMW/ORW - 8.5"	4000 - 28000	24 - 64	1600 - 3000
VMW/ORW - 10.5"	5000 - 35000	24 - 48	1600 - 2800

SPINDLE RPM VARIES AS PER DENIER AND MATERIAL.





Supportable Materials

POY, FDY, JUTE, HDPE, COTTON, ACRYLIC, POLYESTER, FIBERGLASS, NATURAL FIBERS, MANMADE FIBERS, SYNTHETIC FIBERS, MULTIFILAMENT NYLON, MONOFILAMENT NYLON, P.P. FIBRILLATED TAPES, etc...

Ring Doubler Combo Machine

Ring Doubler combo machine is designed keeping in mind the problems faced by our customers. In this machine we have provided an individual gearbox so that the customers can have individual twisting in the same machine. Also, we have removed unnecessary weight in the machine by providing plastic molding parts which increase the parts life and reduce the power consumption as compared to other machines.

All rope industries are facing problem of space & power, so we had come out with its solution.

Here we provide two different combination modes in ring twisting machine as primary and secondary ring which is given below in details.

1. PRIMARY OF 3.5" RING AND SECONDARY OF 4.5" RING
2. PRIMARY OF 4.5" RING AND SECONDARY OF 6.5" RING

MODEL	PRIMARY SPIN	FINAL SPIN	TOTAL SPIN
VMW/RDC/64 SPIN	48	12	64
VMW/RDC/96 SPIN	72	24	96
VMW/RDC/128 SPIN	96	32	128
VMW/RDC/144 SPIN	108	36	144





Supportable Materials

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Ring Twister Combo Machine

The Ring Twister combo machine is designed keeping in mind the problems faced by our customers. In this machine we have provided an individual gearbox so that the customers can have individual twisting in the same machine. Also, we have removed unnecessary weight in the machine by providing plastic molding parts which increase the parts life and reduce the power consumption as compared to other machines.

All rope industries are facing problem of space & power, so we had come out with its solution.

We offer a high-speed ring twister combo rope making machine (1.5mm-3.5mm). whose benefits are as below.

- ▶ The machine gives 70% power benefit in comparison to traditional rope machines.
- ▶ Here we provide two different combination modes in ring twisting machine as primary and secondary ring which is given below in details.

1. PRIMARY OF 5.5" RING AND SECONDARY OF 8.5" RING

2. PRIMARY OF 6.5" RING AND SECONDARY OF 10.5" RING

MODEL	PRIMARY SPIN	FINAL SPIN	TOTAL SPIN
VMW/RTC/16 SPIN	12	4	16
VMW/RTC/32 SPIN	24	8	32
VMW/RTC/48 SPIN	36	12	48
VMW/RTC/64 SPIN	48	16	64





Supportable Materials

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Silent Features

- ▶ Effective machine complete design with ready to use structures at your factory no need to assemble again like other Ring Twister machines.
- ▶ Optimum production & Easy to operate.
- ▶ Two-line roller and hard chromium plating.
- ▶ Users can change the TPM setting by PLC & HMI control or by AC Drive system instead of manual gear change.
- ▶ Uniform counterbalancing.
- ▶ Provided with a reversible drive that is mainly used for S or Z twisting.
- ▶ Pace-tensioning telescopic jockey pulley.
- ▶ Less noisy & less power consumption.
- ▶ Best yarn quality & high productivity.
- ▶ Complete powder coated heavy duty structure.



Our Network

Our head office and manufacturing unit are located in Bhavnagar, Gujarat, India. Which are well connected for logistic with road, sea & airport. We solicits inquiry from interested agents from India and overseas.

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