

Other Versa-Wind Systems

ULTRA-WIND

The ultimate in computer control winding. This machine is controlled by a powerful computer that has been completely programmed in an operator-friendly Windows® environment with touch-screen technology. This allows several advantages:

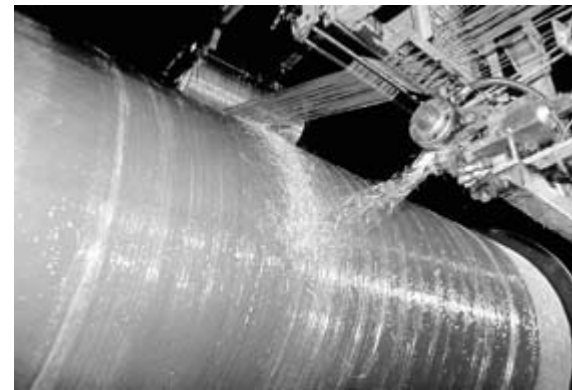
- Available software packages enables many of the controls that used to be done via air and electrical switches to be incorporated into the computer program.
- Most engineers or production managers have Windows®-based PCs readily available. Using Windows® for the operating system gives the customer the option of creating the winding programs to be completely remote of the winder and transfer them to the machine via an in-house network or diskette.
- Hardware required to run this system is readily available world-wide.
- User-friendly PLC controls.



ECONO-WIND

This is a manually controlled machine that boasts low production costs in the manufacture of superior corrosion-resistant products. This system is the ideal choice for production needs that do not require full automation.

- Easy access to controls: Controls for carriage direction and speed, roller pressure and styrene spray are all mounted on the carriage control box.
- Varied material applications: The Econo-winder can apply mylar parting film, surface veils, chopped liners, filament winding strands, wax surface coat, pigmented surface layer, unidirectional tape, woven roving tape and various special resin mixtures.
- Ability to grow with operation: Option of adding wet bath technology, and components to add automation.



Average Winder Specifications

Output	Typical Dimensions
Resin: approx. 30 lbs./min. (13.6 kg)	Mandrel Diameters: 2 in. to 14 ft. (5.1 cm - 4.3 m)
Chopped Glass: approx. 11 lbs./min (4.9 kg)	Mandrel Length: Up to 40 ft. (12.2 m)
Hoop Wind Glass: approx. 18 lbs./min. (8.2 kg)	Sample Winder Dimensions:
Catalyst Ratio: approx. 0.4% - 2.2%	Length: 29 ft. (8.8 m)
Air Consumption: 70 CFM	Width: 8 ft. (2.4 m)
Electrical: 110 volt, 6 amp, 1 phase, 60 cycle	Height: 17 ft. (5.2 m)

For more information, contact:

MAGNUM VENUS PLASTECH

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MAGNUM VENUS PLASTECH

MULTI-WIND FILAMENT WINDER

MAGNUM VENUS PLASTECH

MULTI-WIND · MULTI-AXIS FILAMENT WINDER

Advanced FRP applications are one of the fastest growing areas of the thermoset plastics industry, with filament winding leading the way, and M.V.P. has been engineering some of the industry's leading filament winding systems for over 20 years. Our staff of talented engineers and designers, who are experienced with equipment for specialized fiber reinforced plastics projects, make M.V.P. one of the best sources of knowledge anywhere on reinforced thermoset processing methods. M.V.P. has taken the best ideas the industry has to offer on Advanced FRP, and improved upon them.

Magnum Venus Plastech began in filament winding with the most comprehensive line of winding capability with the Versa-Wind line of products. Foremost among its benefits is its ability to grow with your operation, allowing you to start small and add on as your output needs match your growing business. Among many benefits, our ability to tie the pumping system and winding operations into one single control package adds a level of versatility not found in other products.

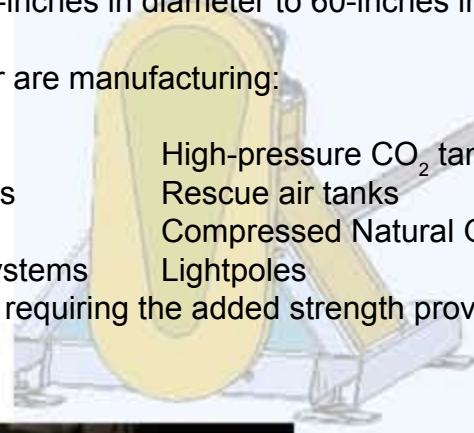
And now, Magnum Venus Plastech has taken filament winding to the next level with the introduction of the **Multi-Wind · Multi-Axis Filament Winding System**.

The M.V.P. Multi-Wind Filament Winder joins the Versa-Wind family of Filament Winders, taking the next step from the computer controlled 2-axis Ultra-Winder to a modular multi-axis winding control system.

The Multi-Wind features the ability to wind up to 6 axes at one time, a control system that can adapt to multiple machine configurations, the option to add a second mandrel unit and multiple spindles, the ability to manufacture parts from 20-inches in diameter to 60-inches in diameter, and much more.

The Multi-Wind is ideal if your are manufacturing:

- Compressed air tanks
- Water softener systems
- Sail boat masts
- Defense/Aerospace systems
- And any other product requiring the added strength provided by multi-axis winding
- High-pressure CO₂ tanks and bottles
- Rescue air tanks
- Compressed Natural Gas tanks
- Lightpoles



The Multi-Wind is available in the following configurations:

- Multi-Wind Floor Mount (MPFM1-60-20-4),**
- Multi-Wind Overhead Mount (MPOH1-60-20-4) and**
- Multi-Wind Twin Rail Mount (MPTR1-60-20-4)**

These three configurations allow the manufacturing of parts up to 60" (1.5 M) in diameter, and up to 20' (6M) in length. These machines offer complete 4 axes capabilities.

Standard Specifications:

- Multi-Wind Control System
- Cadwind or Cadfil programming software
- Single spindle capacity
- Mandrel Speeds up to 100 RPM
- Mandrel weight up to 7,500 lbs (3,401 kgs)
- Carriage speeds up to 200 FPM (60.96 MPM)
- Carriage travel up to 20' (6M)
- Cross Carriage speeds up to 150 FPM (45.72 MPM)
- Cross Carriage travel of up to 30" (762 mm)
- Eye rotation speed up to 60 RPM
- Eye rotation travel ±90°

Options:

- Carriage extended programmable lengths over 20' (6M) (Floor Mount Only)
- Dual mandrel drive unit
- Multiple spindles
- Increased mandrel diameter and weight capacities (Floor Mount Only)
- Resin pump, mix and dispense equipment
- Auto resin fill and level controls
- Fiber tensioners or creels
- 5th & 6th axes capacity (Twin Rail Mount Only)

Multi-Wind Small Scale (MPSS1-60-20-4)

The Small Scale configuration allows the manufacturing of parts up to 20" (508 mm) in diameter, and up to 5' (1.5M) in length.

Standard Specifications:

- Multi-Wind Control System
- Cadwind or Cadfil programming software
- Single spindle capacity
- Mandrel Speeds up to 200 RPM
- Mandrel weight up to 750 lbs (340 kgs)
- Carriage speeds up to 200 FPM (60.96 MPM)
- Carriage travel up to 5' (1.5M)
- Cross Carriage speeds up to 125 FPM (38 MPM)
- Cross Carriage travel of up to 12" (305 mm)
- Eye rotation speed up to 60 RPM
- Eye rotation travel ±90°

Options:

- Dual mandrel drive unit
- Resin pump, mix and dispense equipment
- Auto resin fill and level controls
- Fiber tensioners or creels

