



# ***SERVO WICKETERS***

***Available in 800 & 1000 mm widths***



**VALUE FOR TRUST**





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*We offer Wicketers that are practically high-speed and easy to operate. We have designed it for optimal output and price combination.*

*With speed options of 380 cycles/minute (known as **Vega<sup>Plus</sup>** series) and upto 325 Cycles/minute (known as **Vega Series**), we offer widths 800 mm (32") and 1000 mm (40").*





*Both Wicketers are available with options of 410 mm (16") long or 610 mm (24") long Vacuum Arms.*

*This means, on our 800 mm wide Wicketers, largest bag you can make is 610 x 680 mm and on our 1000 mm wide Wicketer, largest bag you can make is 610 x 880\*\* mm.*

\*\* Bag depth > 710 mm can be processed from pre-folded sheet or tubing.



*The  
Cutting **Edge***





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## Key features of Mamata Wicketers.....

### Intelligent User Friendly Controls.....

The Controls on the machine identifies type of bag being processed and System tunes to required condition automatically including feed degree, max. speed etc.. All air start/stop degrees, film acceleration/deceleration etc.. are programmed for various conditions where operator/Job setter is not required to set such parameters which they are otherwise required to set in other systems.

### Unique Seal Time Control.....

With our Unique seal time control feature (optional on our Vega series), it has added advantage of sealing time control. It is very simple to understand and set. 100% setting on digital control gives 200% increase in seal time. This is a key to reducing wastage or rejection and still gets the most of productivity automatically.

### Low Maintenance.....

With our main cranking drive in system without a gearbox, it eliminates the maintenance issues of Gearbox. The Main Cranking drive is designed using very heavy duty timing belts (HTD series).

### Servo Driven Unwind with Tension Control System.....

- Servo Center Drive
- Air Shaft & Safety Chucks
- Alarm before Film Roll ends
- Semi Automatic Core Size Detection
- Auto Machine Stop just before film ends
- Motorized Edge Guide Sensor movement with setting control directly from Main Control Panel as well as on Unwind Panel (Optional on Vega Series)
- Linear Dancer with Servo Tension Control (Pneumatically controlled on Vega Series)
- Higher efficiency due to maximum Roll Dia. 1000 mm (40") or 700 Kgs./1500 Lbs
- Motorized Roll Lift Option
- Servo Edge Guide (DC Edge guide on Vega Series)



### Tension Control System & Film Folder....

- Servo Motor for Tension control (Pneumatic Rotary Actuated Cylinder on Vega Series) Tension values settable either digitally or through Pneumatic Pot.
- The system maintains web tension precisely in all conditions.
- Folder (A-Frame) has inverted construction to avoid long web path and also to save floor space.
- Servo driven Secondary Edge guide on Folder (optional on Vega Series) for maintaining excellent edge control on film as it enters main system nip.

### Main Unwind Nip and Dancer Control :

- Servo Motor Main driven Nip Maintain constant line speed (DC Motor Driven in Vega Series)
- Pivoted Type Pneumatically Loaded Dancer with Smart Pneumatic controls to minimize jerks
- Servo actuated Secondary Linear Dancer with Anti bounce control (Not available in Vega Series)





## Pre-wired Attachment Platform and excellent tension control to operate wide variety of Attachments in the intermittent section....

- 2100 mm (82") is standard bed length for Vega series and 2500 mm (100") for Vegaplus series.
- Servo Driven Secondary Index for digitally controlled web tension on attachment platform (Mechanically Linked with Primary Index on Vega Series)
- Electrical Sockets for attaching Strip Unwinders (1 off)
- Power & Control sockets as follows
- Two 6 - pin attachment sockets with 24 VDC x 1 Amp for attachments like Punches..
- Three 16 - pin attachment sockets with 230 VAC 10 A, 24 VDC x 1A for sealing attachments
- One 24 - pin attachment sockets with 230 VAC 10 A, 24 VDC x 1A for attachments run in synchronization with main cranking
- Socket ready for Plug-in of Attachment Zone-2 or Different Unwinders at later date
- Draw Speed (Jolt) control and settable Tension control on attachment Platform allows running of sensitive attachments like wide Pouch style seal with ease. Extra bed lengths area available Up to 3230 mm (127") mm for accommodating more and wider attachments on attachment platform.



## Unique seal Base design to take care of processing needs of wide variety of films and bag types.....

Sealing base is also designed to take care of all technical needs to process thicker and thinner gauges with equal ease. All substrates are undoubtedly sealed consistently.

Unlike other systems, our Wicketers have Flat Seal base with Silicon rubber in base.

### Benefits of the Flat seal base are :

- Always clean contact with Sealing edge
- Arm can go very close to sealing for clean pick off. This is the major reason why Mamata Wicketers are the Fastest and Most consistent Zipper bag making systems in the world.

- Quick & easy changeover of seal head
- When extra function 'F5' is ON, the web is detached from sealing edge almost at the time it is picked off. In roll configuration this is not possible. Hence it gives closest equal seal on both sides of sealed bags on even difficult to seal substrates like PP.
- Sealing pressure is generated by four pneumatic cylinders. Sealing time control is consistently achieved through digital control of Servo Cranking Drive (optional on Vega Series)

## Microprocessor operator console with True Memory :

- Tailor made to suit the applications on a given Bag / Pouch Making system.
- Operator console is designed truly to be operator friendly.
- All functions are a keystroke selection with clear description of what the key stands for. This is the necessity today to reduce burden of having very skilled operator for setting variety of jobs.
- TRUE MEMORY allows system to remember what settings are done for a typical job. Operator is not required to repeat most of the settings like draw size, draw speed, bags / batch, temperature (PID temperature control), dwell time, attachment time etc. including their respective status (ON or OFF) and values of parameters.
- Max. 10 Jobs can be memorized.



Option of Fully computerized "Supervisory Control and Production Management System" now available.

### Features of this System are :

- Touch Screen Panel
- Network Connectivity for direct access from your System
- Capability to add your equipment to your VPN.
- Full production Data Logging and Monitoring
- Full function control from one point





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## Value Added Options on Mamata Wicketers.....



### String Zipper Attachment...

The attachment is designed to take care of growing demands of re-closable PE and PP Wicketed Zipper bags. It is designed to work with a wide variety of String zippers and can work with both PE and PP Films. Using continuous sealing technique, we have made it very easy to use.

The unit is designed for applying zip on either the open or closed end of the bag.

It is placed at the back end of the machine between the Unwind and the Wicketer, where the film is in continuous motion path. All controls are at a convenient location for the operator. The attachment is designed to operate at line speeds of up to 50 meters (165 Feet) / Minute. For squeezing of zip at ends, we offer Ultrasonic Zip Squeezing system (in intermittent path).



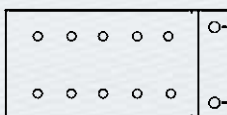
### Multi Purpose Sealing Attachments Type 1, 2 & 3

These are very uniquely configured attachments with true multi purpose functionality and processing speeds of up to 210 Cycles/minute. Available in Servo or pneumatic rotary actuator driven platforms, it can be used for a wide variety of bags just by changing sealing tools.

**Type 1** is a module with options of 100 x 100 mm or 150 x 300 mm platens and can be used as pre sealer for reinforcing gusset/s, cross seal for side seal, square bottom (Mitre Gusset) and many more applications.

**Type 2** is a module with 50 mm x Machine processing width platen or 100 mm x Machine Processing width platen. It can be used for applications like Twin seal, Pouch seal, Pre-seal, etc.

**Type 3** This module offers Platen Seal Bars of 50 x 410 mm or 100 x 410 mm. This module is used for sealing in line of web in intermittent path. Up to two sealing stations can be supplied on one module. The module is used for applications for longitudinal seals, Flange zipper seals, Header seals, round shape seals for stand-up Pouches, K seals, etc. Applications are endless.....



### Round Bottom / Square Bottom Bag / Pre-Seal Attachment

This is Servo driven attachment design to manufacture Round bottom (Chicken Bag) / Square bottom bags. The rated speed is up to 325 Cycles / Minute. It cuts and seals individual layers of Bottom Gusset or makes only seals in Bottom Gusset. By changing seal tools, it gets converted from round bottom attachment for chicken bags or minced meat bags to square bottom attachment or even used for Pre-seal in Gussets. It can be installed easily on our Wicketers in intermittent path.

Cylinder retract mechanism prevents "meltdown" of film during stop cycles. Servo driven system takes molten slugs into a cavity, completely out with respect to film path.

### Header Sealer

The attachment is designed for producing a running seal on the bag. Applications for header sealed bags include diaper bags, toilet paper roll bags etc. System can operate at up to 45 Meters. / min. line speeds.

### Punch Banks

It is a pneumatically actuated system. Punches are mounted on a bridge, which is actuated using pneumatic cylinders from both the ends. Capable of running up to 240 Cycles / Minute. It is ideal for day to day production of agriculture produce bags, celery bags, etc.

## Specifications:

| Model                                       | Vega Series                         |      | Vega <sup>Plus</sup> Series         |      |
|---|-------------------------------------|------|-------------------------------------|------|
| Film Processing Data (Thickness in Microns) | Max.                                | Min. | Max.                                | Min. |
| • HM-HDPE                                   | 50                                  | 20   | 50                                  | 20   |
| • LDPE / LLDPE                              | 80                                  | 25   | 80                                  | 20   |
| • CPP                                       | 75                                  | 20   | 75                                  | 20   |
| Maximum Film Roll Diameter (Ø)              | 1000 mm (40") or 700 Kg. (1500 Lbs) |      | 1000 mm (40") or 700 Kg. (1500 Lbs) |      |

| Model                                       | Vega W-800 |      | Vega W-1000 |      | Vega <sup>Plus</sup> W-800 |      | Vega <sup>Plus</sup> W-1000 |      |
|---|------------|------|-------------|------|----------------------------|------|-----------------------------|------|
| Bag Processing Data (mm)                    | Max.       | Min. | Max.        | Min. | Max.                       | Min. | Max.                        | Min. |
| • Web Width with 1220 mm (48") Unwind       | 1220       | 410  | 1220        | 410  | 1220                       | 410  | 1220                        | 410  |
| • Web Width with 1520 mm (60") Unwind       | 1520       | 410  | 1520        | 410  | 1520                       | 410  | 1520                        | 410  |
| • Bag Width (Draw Length)                   | 410        | 75   | 610         | 100  | 410                        | 75   | 610                         | 100  |
| • Bag Depth* (with 1220 mm (48") Unwind)    | 610        | 250  | 610         | 250  | 610                        | 250  | 610                         | 250  |
| • Bag Depth* (with 1520 mm (60") Unwind)    | 680        | 250  | 710         | 250  | 680                        | 250  | 710                         | 250  |
| • Gusset Depth                              | 75         | 25   | 75          | 25   | 75                         | 25   | 75                          | 25   |
| Maximum Speed** (Cycles / Minute)           | 325        |      | 280         |      | 380                        |      | 350                         |      |
| Limiting Line Speed** (meters / minute)     | 60         |      | 60          |      | 80                         |      | 80                          |      |
| Vaccum Arms of 410 mm (16")                 | Standard   |      | Optional    |      | Standard                   |      | Optional                    |      |
| Vaccum Arms of 610 mm (24")                 | Optional   |      | Standard    |      | Optional                   |      | Standard                    |      |
| Pin Stacker Configuration (No. of Stations) | 3+1        |      | 3+1         |      | 4+1                        |      | 3+1                         |      |

| Drive Data  | Vega Series                                       | Vega <sup>Plus</sup> Series                   |      |
|---|---|---|------|
| Unwinder  |   |   |      |
| • Unwinder with Centre Drive                        | AC Brushless Servo Motor                          | AC Brushless Servo Motor                      |      |
| • Tension Control (Unwinder)                        | Pneumatic (Rotary Actuator)                       | AC Brushless Servo Motor                      |      |
| • Primary Edge Guide (On Unwinder)                  | PMDC Motor  | AC Brushless Servo Motor                      |      |
| • Secondary Edge Guide (On Film Folder)             | AC Brushless Servo Motor (Optional)               | AC Brushless Servo Motor                      |      |
| Main Machine  |   |   |      |
| • Nip Drive   | PMDC Motor  | AC Brushless Servo Motor                      |      |
| • Dancer Control                                    | Pneumatic   | Pneumatic                                     |      |
| • Anti Bounce Jerk Control                          | N.A.  | AC Brushless Servo Motor                      |      |
| • Wicket Hole Punch Unit Edge Guide                 | AC Brushless Servo Motor (Optional)               | AC Brushless Servo Motor                      |      |
| • Film Index Drive (Rear)                           | Tail Feed Assisted                                | AC Brushless Servo Motor                      |      |
| • Film Index Drive (Front)                          | AC Brushless Servo Motor                          | AC Brushless Servo Motor                      |      |
| • Cranking Mechanism (Seal head) Drive              | AC Brushless Servo Motor (Dwell Control Optional) | AC Brushless Servo Motor (with Dwell Control) |      |
| Conveyor & Stacker                                  |   |   |      |
| • Conveyor Drive                                    | AC Motor  | AC Motor                                      |      |
| • Pin Index Drive                                   | AC Brushless Servo Motor                          | AC Brushless Servo Motor                      |      |
| • Dual Pin Index Drive                              | N.A.  | AC Brushless Servo Motor (Optional)           | N.A. |
| Control Panel                                       |   |   |      |
| • Set Program Memory Capacity                       | 10  | 10  |      |
| • Supervisory Control & Production Managment System | Optional  | Optional                                      |      |

| Model   | Vega W-800   | Vega W-1000     | Vega <sup>Plus</sup> W-800 | Vega <sup>Plus</sup> W-1000 |
|---|--|-----------------|----------------------------|-----------------------------|
| <b>General Data</b>                                 |  |                 |                            |                             |
| Electrical Power                                    | AC 3 Phase 220/240/380/415/480 ± 6% Volt, 50/60 Hz |                 |                            |                             |
| Total Connected Load                                | 23.5 KVA   | 30 KVA          | 30 KVA                     | 32 KVA                      |
| Air Consumption @ NTP (Ltr. / Minute)               | 1200   | 1400            | 1400                       | 1550                        |
| Foot Print with 1220 mm (48") Unwind (L x W x H) mm | 9300x2500x1800                                     | N.A.            | 10500x2500x1800            | N.A.                        |
| Foot Print with 1520 mm (60") Unwind (L x W x H) mm | 9700x2500x2000                                     | 11200x2700x2000 | 10800x2500x2000            | 11500x2700x2000             |
| Machine Weight # (For Basic Machine)                | ~ 4.5 MT   | ~ 5.5 MT        | ~ 5.0 MT                   | ~ 6.0 MT                    |

\* Actual output depends on the type of Bag, Material, Thickness, Width & Draw-Length.

\*\* Special power supply condition on request.

# The machine weight given is indicative only.



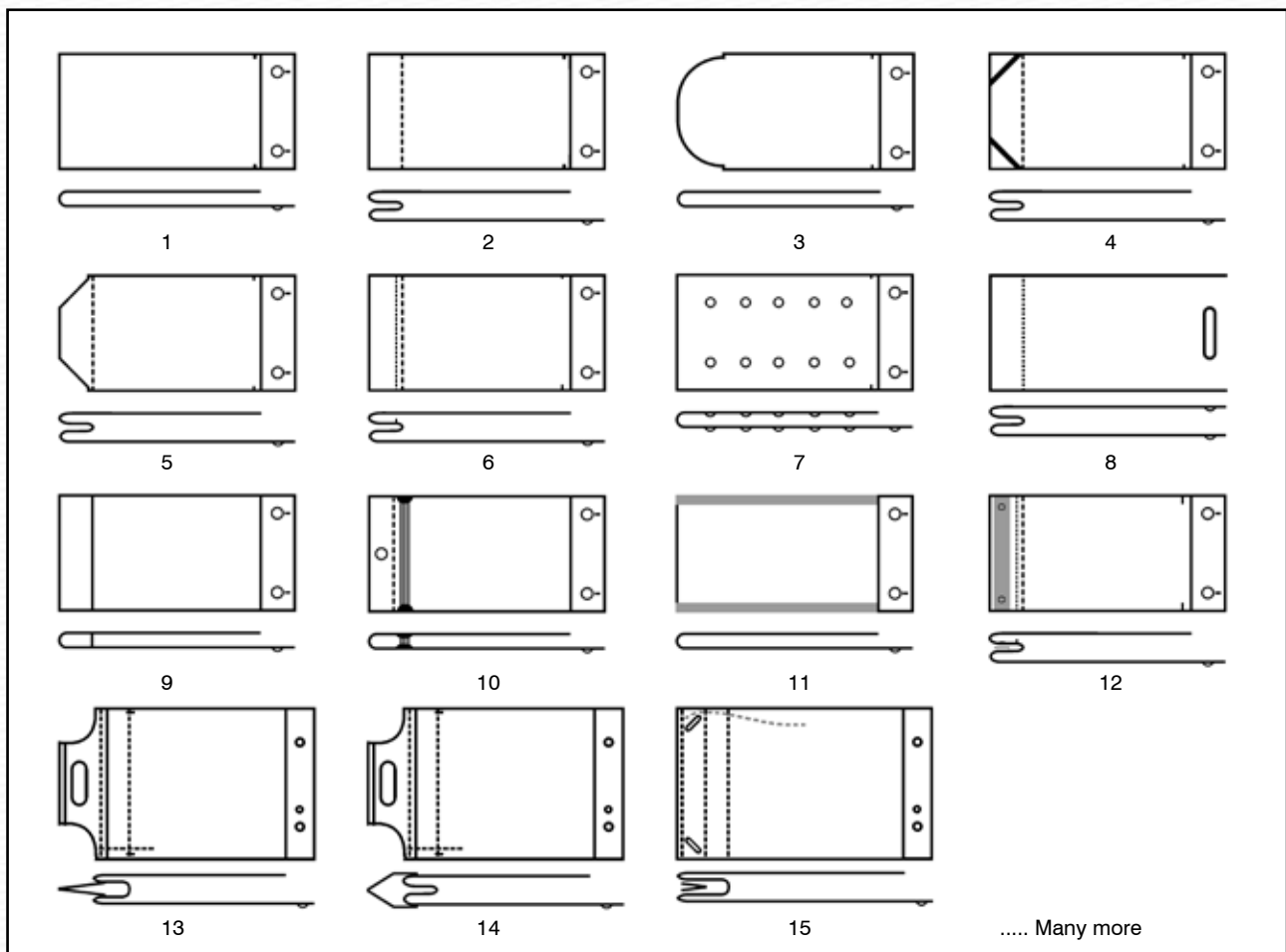
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## Attachments:

- ☐ Centre Guide / Line Guide
- ☐ Separate Film Strip Inserters
- ☐ Perforators (Longitudinal / Transverse)
- ☐ Header Sealer (Continuous & Intermittent)
- ☐ Pouch Type Sealer (Servo & Pneumatic)
- ☐ Pre - Sealer (Servo & Pneumatic)
- ☐ Punch Banks
- ☐ Punches (Round Hole, Half Moon, Star, Handle)
- ☐ String Zipper Sealing System
- ☐ Hot Pin Blocking on Pin Stacker
- ☐ Flange Zipper Sealing System
- ☐ Attachment for Captive Flap Formation
- ☐ Diaper Bag Making System
- ☐ Round Bottom (Chicken Bag / Minced Meat Bags) Attachment (Servo & Pneumatic\*)
- ☐ Square Bottom Attachment (Servo)
- ☐ Motorized Pin Distance Adjustment
- ☐ Customers' Special Requirements

\* Only on Vega Series



Photographs may show attachments or accessories, which may not be part of the standard scope of supply.

The company reserves the right to modify, alter, change or substitute any feature & specifications which are subject to change without notice.

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