

# Modular Controller

## Microprocessor Based Automatic Bagging Machine Controller

# Marathon - 5603

**Bagging 1-1600 Kg**

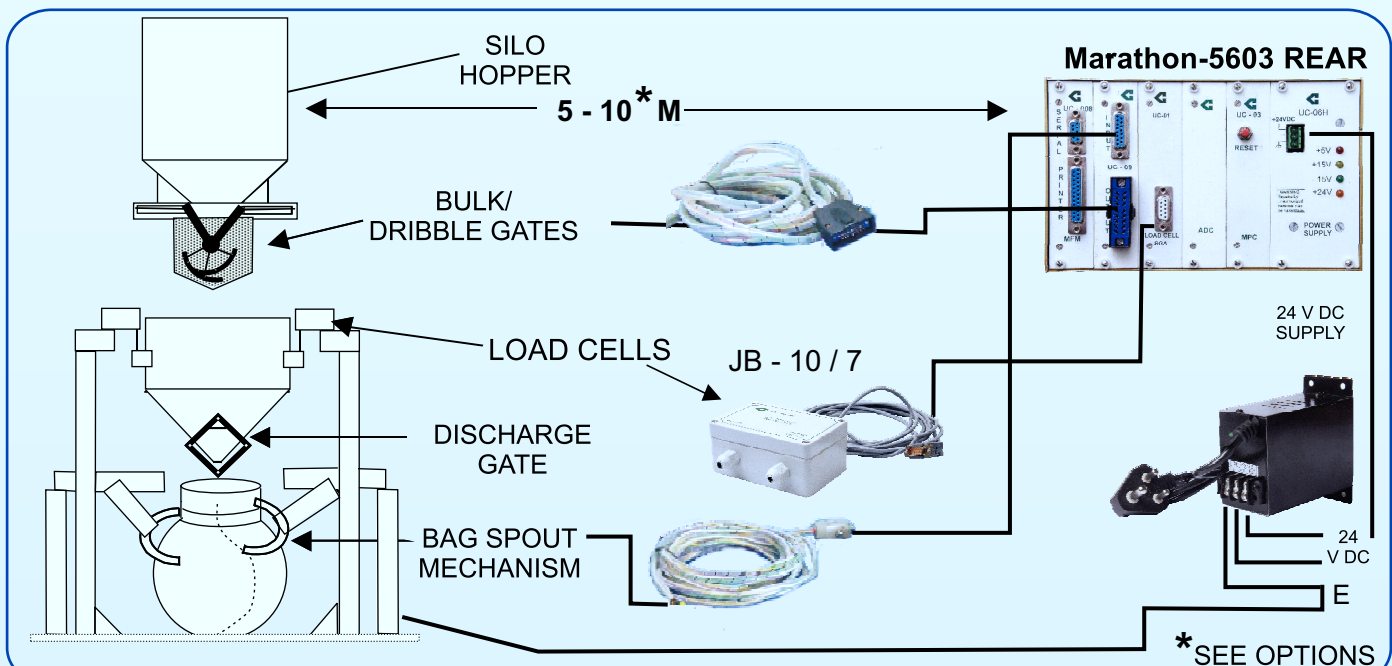
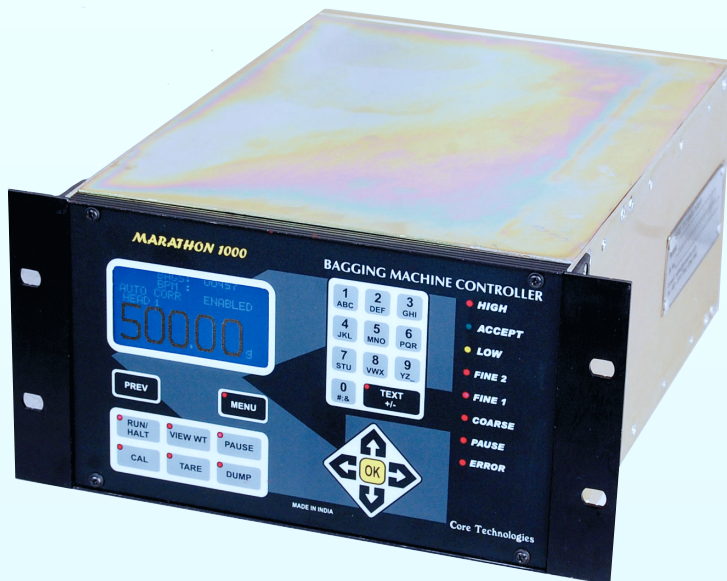
**One Shot KEY BASED CALIBRATION**

**Programmable AUTO CORRECTION**

**AUTO JOG Feature**

**EASY TO INSTALL AND USE**

**MULTIPLE DUMP Feature**



### Notes:

- 1 **AUTO CORRECTION** takes care of feed rate variations and ensures weight within tolerance by trimming the fine cut point.
- 2 **AUTO JOG**, initiates Dribble cycle again if the weight filled is below target weight, with pre-programmed feed rate and time to top up the filling operation and ensure that no bag is under weight.
- 3 **DRY- RUN Feature**(in test Mode)helps Installation and Commissioning engineers, to checkout operation of all output devices and tests the status of inputs without the need for material in the hopper. Single Step & Single Cycle tells
- 4 **LEARN Mode** of Marathon-5603 computes optimum coarse and Fine cut values in the initial few weighing cycles, resulting in "Best Accuracy-Bagging speed" performance.



## Marathon - 5603

## Specifications

**Absolute Limits****Ambient Temperature** : -10° to +50° Celsius (50° to 122° Fahrenheit)**Relative Humidity** : 10% to 95% (Non-Condensing)**Power** : 160 to 265 VAC, 50-60 Hz.

<b>Load cell, Sensitivity, Capacity</b>	: Strain gauge type, 350 Ohms nominal. Upto 4 load cells with matched sensitivity may be used in parallel. 1.0mV/V to 3.0 mV/V. Different load cell capacities can be selected depending upon pan weight (dead weight) and weight range (consult factory).
<b>Resolution</b>	: 1 part in 10,000 e.g. 10g in 100 Kg
<b>Accuracy*</b>	: ±0.01% in the range of 10 to 125% of span *e.g. ±10 g in 100 Kg over full temperature.
<b>Speed*</b>	: Filling rates of 600 bags per Hour for 100Kg are achievable
<b>Recipe</b>	: Five preset recipes can be stored and recalled from non-volatile memory with storage life in excess of 7 years.
<b>Inputs Logic</b>	: NPN OC Type sensor inputs and Dry contacts of relays/ switches total 8 inputs.
<b>Outputs Logic</b>	: 8 NO/NC relay changeover dry contacts with 24 VDC or 230 VAC capacity.
<b>Timers (16)</b>	: Built in programmable timers can be programmed from 50 mS to 10 Sec in step of 0.01 Sec
<b>Physical</b>	: Panel/Rack Mount Version 133 (H), 273(W), 320 (D), Std. 3-U 42T rack mount size. Panel cut required 133 X 223 approx. Weight 5.0 Kg Approx.
<b>Accessories</b>	Junction box for intermediate termination of LC signal cables Din Rail SMPS for 230 V AC input and 24 V DC out put, Complete cable sets with ferrules and documentation. User manual and Quick Reference manual.

*Due to continuous R & D, at Core Technologies, the Specifications given above may undergo changes or improvements, without prior notice.*

**Notes :** Speed and Accuracy specifications are subject to several factors like machine design, site conditions and correct selection of Load Cell, Load Cell Mounting with or without flexures, material properties etc. Consult Core Technologies on these aspects.  
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**RETRO-FIT SOLUTION:**

- \* We are undertake to retro-fit old Bagging machines with our controllers and load cells  
Please contact at the address given bellow



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## Other Products

**Isolation Modules**

- \* Analog Modules (mV to 600 V I/P & Single / Dual Current / Voltage O/P)
- \* Strain Gauge / Load Cell Signal Conditioning
- \* RTD Pt-100 Temperature Transmitters
- \* Thermocouple Signals Transmitters

**Data Loggers**

- \* Event Sequence Recorders
- \* Digital & Analog History Loggers
- \* Plant Performance Monitoring Systems