



EQUIPMENT SALES | PARTS | MANUFACTURING



DIGITAL WOLVERINE

DIGITAL GROSS WEIGH BAGGING SCALE



JEM International is proud to offer the next generation U.S. manufactured gross weigh bagging scale with dual cell design package and a stainless steel digital controller.



BRETT MATTSON · OFFICE (913) 441-4791 · CELL (913)-486-8647 · EMAIL brettm@jemscales.com

JEM INTERNATIONAL · 6873 MARTINDALE · SHAWNEE, KS 66218 · USA · PHONE (913) 441-4788 · FAX (913) 441-1711

WEBSITE: www.jembagging scales.com

DIGITAL WOLVERINE

The digital wolverine bagging scale includes a dual load cell design package and a stainless steel digital controller.

SPECIFICATIONS AND TECHNICAL DATA:

- **5 bags per minute with 0.2lb/0.1kg weight accuracies**
- **Two 100kg load cells**
- **Weights and measures approved, stainless steel digital controller – IP69K**
- **Oval-shaped bag spout prevents product buildup and decreases harboring points for bacteria**
- **Tool-less mechanical flow rate adjustment**
- **Auto tare programmed for each cycle**
- **Proven gravity gate design for granular and pelleted products**
- **Belt and auger feeder systems available, for semi-free flowing and finely ground products**
- **Same mounting pattern and height as GWM, GB32 and HR17 gross weigh mechanical scales**
- **Designed for 15 pounds to 110 pounds (7kg to 50kg) bag weights**
- **Box and pail filling adaptor available**
- **Dust tight spouts and dust collection ports available**

JEM International is the leading manufacturer of gross weight bagging scales and the Mattson family is honored to have sold thousands of systems in 60+ countries for the past forty years.

Approximate Shipping Weight & Dimensions: 260 LBS 42”X48”X40”

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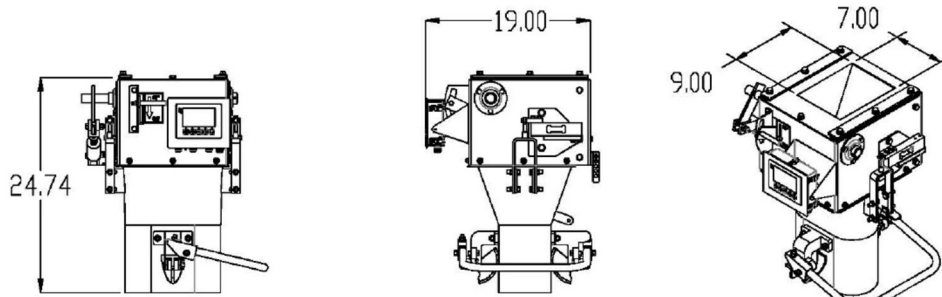
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DIGITAL WOLVERINE

SPECIFICATIONS AND TECHNICAL DATA:

- **Stainless steel housing IP69K controller**
- **Keyboard with function keys for start fill, zero setting, taring, totalizing and special functions**
- **Color display with 4.3 inch (11 CM) backlit display**
- **Multi-language operator prompts and calibration dialog**
- **110 or 220 VAC power supply**
- **14° F to 104° F (-10° C to +40° C) operating temperature**
- **22 Inch and 29 inch (55 CM and 72.5 CM) circumference cam grip spout**
- **9 Inch X 7 Inch (22.5 CM x 17.5 CM) product chute**
- **28 Inch (70 CM) overall height**
- **Pound or kilogram weight capabilities**
- **Low voltage valves and controls**
- **ICCL HT-KD wood certification for export**



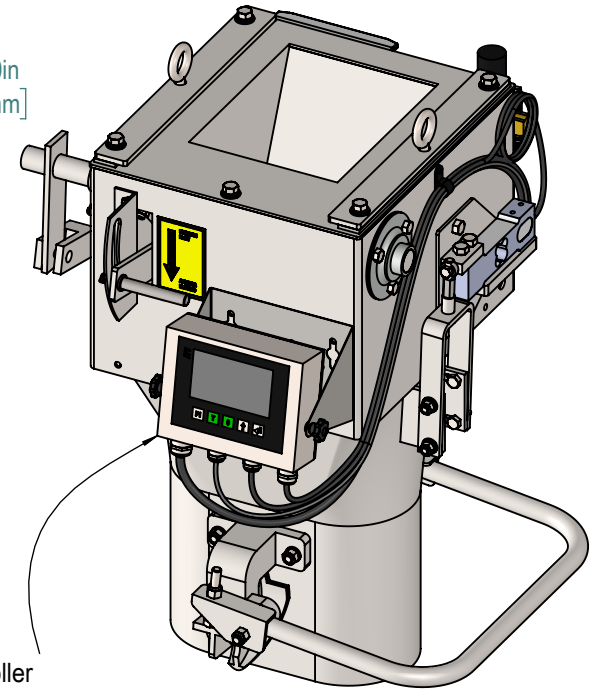
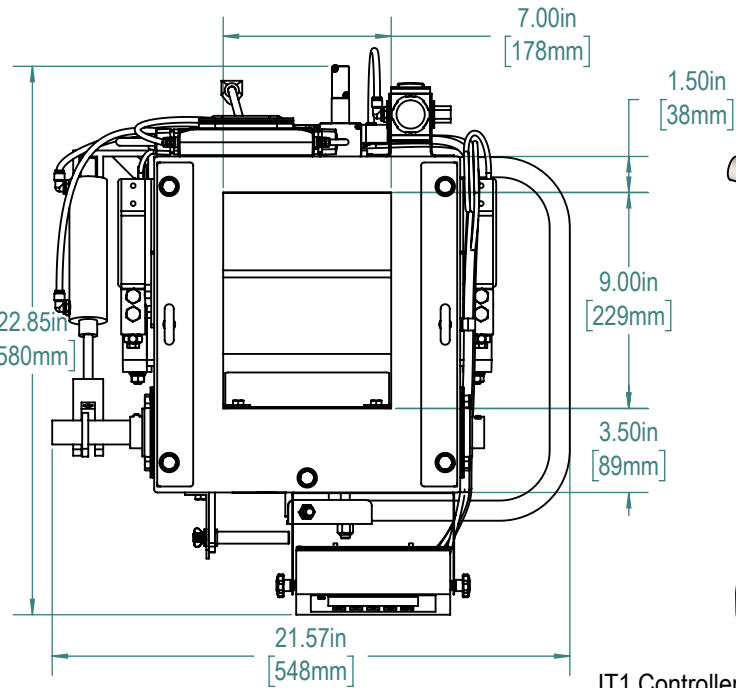
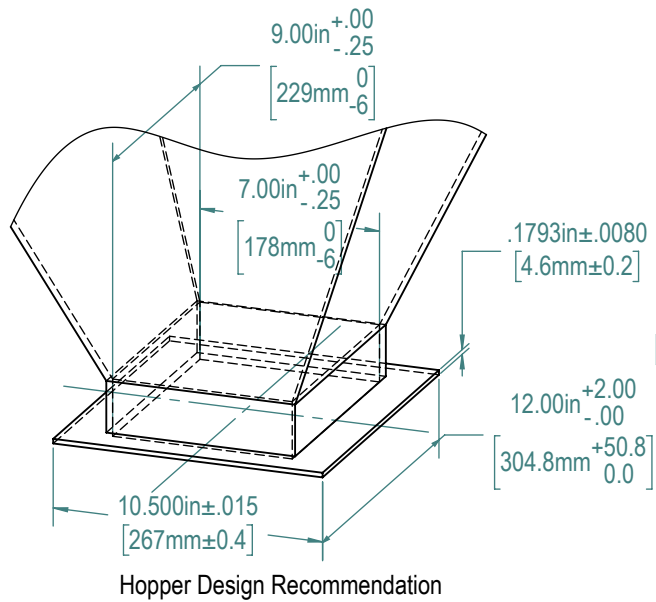
AVAILABLE OPTIONS:

- **Belt and auger feeders**
- **Stainless steel contact or all stainless steel construction**
- **Air operated dust tight spout and dust collection port**
- **Scale pedestal and surge hoppers**
- **Box and pail filling attachment**
- **Washdown valve enclosure and bearing covers**
- **Bead blasting for food applications**
- **Start-up and technical training**

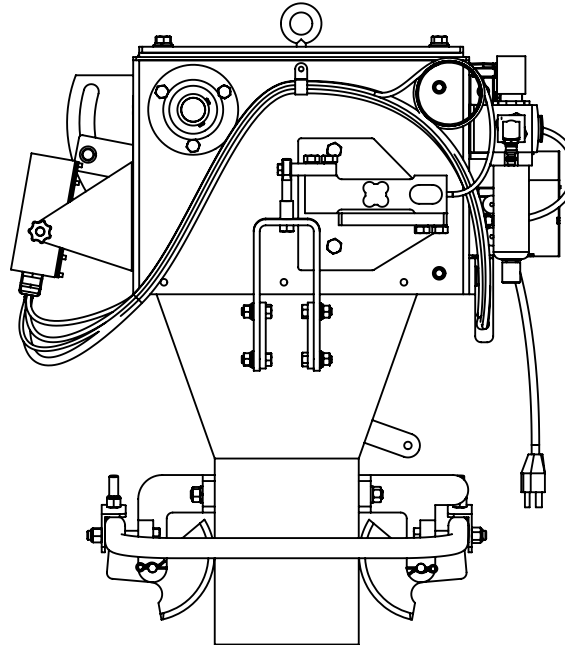
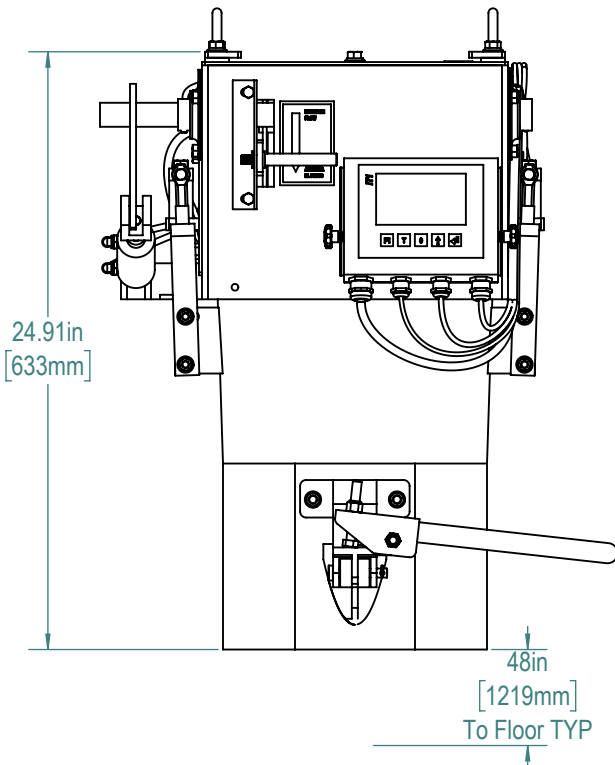
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IT1 Controller
110~240 VAC 50~60 Hz 0.25~1 A
12~30 VDC 1100~350 mA



APPROVED

☐ As Shown	☐ As Noted	☐ As Shown	☐ As Noted
Name : _____	Name : _____	Signature : _____	Signature : _____
Signature : _____	Signature : _____	Date : _____	Date : _____
Date : _____	Date : _____	Note : _____	Note : _____

NAME/NOMBRE Gross Weigh Wolverine Digital - IT1	
FOR/PARA	
Drawing NO. 200-1 GWD-IT1	Drawn by : JK Date : 11/19/2020 Rev : 01

IT1



Universal Weighing Terminal, W&M Approved, for Industrial Use



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Systemtec Systemtechnik und
Industrieautomation GmbH

IT1 – Universal Industrial Weighing Terminal

Stainless steel housing IP69K

Suitable for harsh environment weighing locations. With mounting brackets for desk-top or wall-mount installation. Integrated power supply unit, sealed cable glands for all cable connections.

Color display

For indication of weight, multi-lingual operator prompts and calibration dialog. With backlighting, 11 cm (4.3") display.



Keyboard

With function keys for zero setting, taring, printing, totalizing and special functions.

Power supply

110–240 VAC or 12–30 VDC (integrated) for stationary use or 12–30 VDC (integrated) for mobile use.

Universal Use

Suitable for difficult environmental conditions and locations with high hygienic standards, as in the food, pharmaceutical and chemical industry.

High Operational Security

Fast and error-free operation is ensured by a color display for the indication of weight, IDs and operator prompts.

Weighing Electronics

IT1 connects to one scale with up to 8 loadcells, 350 Ohm each and provides a W&M approved resolution of up to 10,000 d with max. 80 % preload.

Calibration is possible as single or multiple-range (e.g. 3 x 3,000 d) and as single or multi-interval scale.

Weighing Program

Display of net, tare and gross weight. Operator prompting for capturing of weight or piece count. Totalizing is also possible. Plug-on modules are used to set up the IT1 for applications of varying complexity.

Data Logging

Via optional printer interface. The print layout for labels or forms is configurable. Printout of weights, totals, date, time and consecutive-no.

Data Transmission To PC

Via optional PC interface. Transmission of date, time, consecutive-no. and weight after each weighing cycle.

PC ONLINE Mode

Via optional PC interface. Reading of weight, taring, zero setting and other functions can be remotely controlled from a PC.

Weights can be stored in an internal W&M approved data archive for verification. Data transmission is possible through serial interface or Ethernet LAN.

Switching And Filling

With optional input/output modules 3 weight thresholds can be monitored, e.g. for max. or min. values.

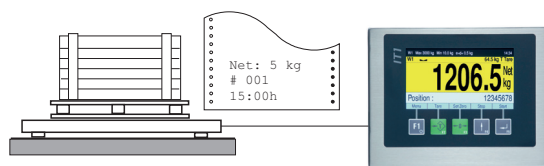
Start of weighing cycle and taring is possible from external switches.

Alternatively the inputs and outputs can be used for a filling sequence with start/stop/interrupt and two-speed cut-off.

IT1 – Standard Programs

W&M approved weighing terminal

Taring, weighing and totalizing, printout of ticket.

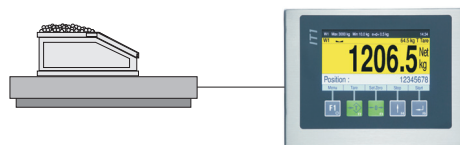


Desk-top or floor scale

Connection to:
printer, PC or
remote display

Checkweighing terminal

Weight tolerance check with color change and output signals for 'under tolerance', 'within tolerance' and 'over tolerance'.



Connection to:
relay unit or PLC

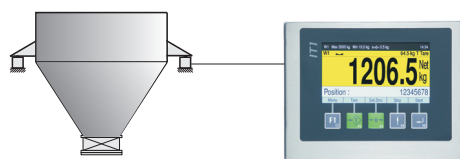
W&M approved ONLINE weighing terminal

Transmission of weights on request from PC, via serial interface or Ethernet, internal storage of 1,000,000 weighings possible in approved data archive.



Weighing terminal with setpoints

Min. / max. weight monitoring for hopper scales, output signals for: 'weight under min.' and 'weight over max.'

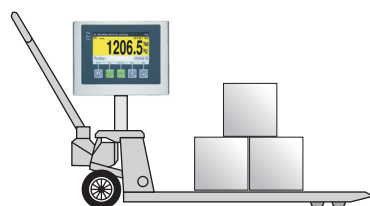


Hopper scale

Connection to:
relay unit or PLC

Mobile weighing

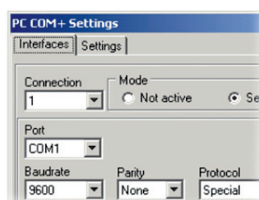
With data logging
(IT1 power supply 12–30 VDC).



Connection to:
printer

PC Software Tool PC COM+ (Option)

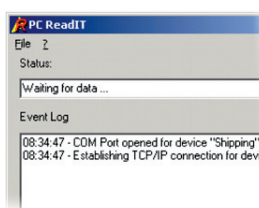
ActiveX component for the communication between Windows programs and IT1 terminals in ONLINE mode. In combination with **PC ARCHIVE** option to store weights internally or on PC hard disk in an approved data archive.



Compatibility:
Windows 7...10

PC Software Tool PC ReadIT (Option)

Reception of weighing data and storage in an ASCII file (*.txt) or a database. Supported databases: MS SQL, MS ACCESS, Oracle, Interbase SQL or ODBC.



Compatibility:
Windows 7...10

IT1 – Technical Data

Construction

Compact stainless steel housing protected to IP69K, for desk-top, wall-mount and column-mount installation or as panel-mount version, suitable for harsh environments, all cable connections through sealed cable glands.

Display and keyboard

Bright 4.3" (11 cm) color screen for indication of weight and operator prompts and calibration.

Sealed membrane keyboard with tactile feedback, with soft keys for zero setting, taring, printing, totalizing and special functions.

Weighing electronics

Integrated signal amplifier for the connection of up to 8 strain gauge loadcells, 350 Ohm each, W&M approved resolution of up to 10,000 d at 80 % preload.

Internal resolution 524,000 d, 50–800 updates per second, smallest loadcell signal 0.33 mV/e.

Calibration as single or multiple range scale with 1, 2 or 3 ranges or as multi-interval scale.

Calibration with test weights or through entry of rated output of loadcell(s), option for the linearization of the load curve. Clear operator prompts for all steps of calibration sequence.

Optional interface modules for digital loadcells Flintec RC3D or HBM C16i.

Electrical connection

110–240 VAC, 50/60 Hz or 12–30 VDC

via integrated power supply unit, or

12–30 VDC for power supply via external battery.

Operating temperature

–10 °C (+14 °F) to +40 °C (+104 °F), 95 % relative humidity, non-condensing.

Interface options

One socket for serial or Ethernet interface and one socket for digital I/Os or analog output:

PC interface, selectable Ethernet, RS232, RS422 or RS485, configurable as 'data transmission after each weighing cycle' or 'in request mode'.

Printer interface, selectable USB, Ethernet, RS232 or RS485, for the connection of a form or ticket printer, printout configurable via display and keyboard.

Interface for remote display, selectable RS232, RS485 or Ethernet, several protocols configurable.

2 digital inputs and 2 digital outputs

Optoisolated, 24 VDC, outputs for setpoint monitoring or simple filling applications, inputs for start of weighing and taring or start/stop of filling.

Additional digital output

Optoisolated, 24 VDC, for +/– check or setpoint monitoring.

Analog output

0–20 mA, 4–20 mA, 0–10 V or 2–10 V, 15 bit, 32,000 divisions, for analog output of weight.

Further options

Internal W&M approved data archive

To record the latest 1,000,000 weighing results.

Remote diagnostics

Via Ethernet-/Internet connection with integrated web server.

PC Software Tool PC COM+ | PC ARCHIVE

For communication with customer's PC software, with optional W&M approved recording of weighing data on a PC hard disk.

PC Software Tool PC ReadIT

For the reception of weighing data and storage in an ASCII file or a database.

Splash and dust cover

Transparent plastic cover to protect display and keyboard.

Construction:

Desk-top or wall-mount installation



- Stainless steel housing, IP69K
- Desk-top installation
- Dimensions W x H x D: 168 x 167 x 115 mm (6.6" x 6.6" x 4.5")

- Stainless steel housing, IP69K
- Wall-mount installation
- Dimensions W x H x D: 168 x 151 x 111 mm (6.6" x 5.9" x 4.4")

Panel-mount version



- Stainless steel housing, fascia plate protected to IP69K
- Panel-mount installation
- Dimensions W x H x D: 182 x 145 x 47 mm (7.2" x 5.7" x 1.9")
- Cut-out in panel: 165 x 129 mm (6.5" x 5.1")

Directives: 2014/31/EU, 2014/30/EU, 2014/35/EU



EC approval as non-automatic weighing instrument

Standards: EN 45501, OIML R76-1, EN 61000-6-2, EN 61000-6-3, NAMUR NE21, EN 60950