

MCI HARDWARE

Why not talk to MCI Systems about your hardware needs? We source and sell a wide range of hardware devices as part of our overall service to our customers.

We have strong relationships with many of the leading hardware suppliers, for example, with Avery Weigh-Tronix and Sartorius.

In this section of our website we have provided details on the types of devices we are able to source. However, this list is not exhaustive, so whatever your business requirements, please do get in touch to see how we can help meet them.

- Scales & Weighing Equipment
- Labels & Printing
- Field & Handheld devices
- Computers & Terminals
- Networking & Interfaces
- Line Equipment
- PLCs

Systems

All the hardware we offer has the capability of being integrated together to form weighing and traceability systems.

SCALES & WEIGHING

Bench Scales and Floor Scales

Our range of bench and floor scales can be found in weighing and counting applications across the manufacturing process, from the initial entry of raw materials, to the packaged product leaving the factory.

We offer an extensive choice of size, capacity and finish to suit your working environment, all designed with a small footprint to maximise work space. From hose proof, stainless steel models for hygiene control to intrinsically safe scales for hazardous areas, all machines feature our high-precision load cells to guarantee accuracy and repeatability.

Weighing ranges from 1kg to 60kg packs for bench scales, and 1000kg for floor scales.

Trade approval and calibration certificates are also available. Below are samples of the bench and floor scales that MCI Systems can provide, others are available. Please click on the link to see an image of the hardware.

- Weightron Bench Scale 430 / 450
- MCI Otter Intelligent Weigh Terminal
- Avery Range of Platforms
- Avery H205 Platforms
- Pit Mounted
- P950 Belt Weighing

Manual Checkweighers

Our range of manual checkweighers comprises bench scale and intelligent indicator configurations, to cater for a wide range of products from a few grams up to 90 kg in weight.

The models feature under, over and accept weight indication to minimise operator error.

Below are samples of the manual checkweighers that MCI Systems can provide, others are available.

- Sartorius SEB 6kg x 0.2g
- Yamato DP 6kg
- Yamato DP5502 with Extended Column
- Weightron D430
- A&D FSi

Takeaway Scales

Our range of checkweighing scales includes models that work in takeaway mode which are ideal for sandwiches, ready meals, as well as for other ingredient filling.

These 'takeaway' scales can be very useful for manual weighing as they offer a number of additional benefits such as faster, more accurate and efficient weighing methods for tray lines, sandwiches, pizza, quiche, salads pots, layered salads, etc. The 'takeaway' scales allow you to leave the container, tray or

base on the conveyor whilst assembling the product which results in a more practical, simpler, faster and more cost-effective method of operation.

Bulk product [up to 20kg] in a tray or tub is placed on the scale pan and the upper and lower weight limits entered into the scale. The Operator then simply takes away handfuls, or scoops, of the product at a time. If the weight is within the limits a Green accept light flashes along with an audible buzzer. If the product is under or over the weight a Red light flashes telling the Operator to take away more product or put some back. The scale automatically re adjusts itself after each correct weighing. The setting of the limits can be a manual operation or can be controlled and optimised through our software.

Below are samples of the takeaway scales that MCI Systems can provide, others are available.

- Yamato DP Takeaway 25kg
- Yamato DP Takeaway Angled for Easy Access

Dynamic Checkweighers

Our comprehensive range of dynamic checkweighers includes fully automatic, in-line systems and heavy-duty, end-of-line inspection units for high-speed pack weight verification in any industrial application.

There are machines in the range to handle up to 230 packs per minute, weighing from as little as 3kg for high-value product lines up to 60kg for sack and box inspection.

All versions are manufactured from stainless steel for harsh factory environments and offer a choice of reject mechanisms and infeed systems for a totally automated solution.

Below are samples of the dynamic checkweighers that MCI Systems can provide, others are available.

- OCS EC & HC
- AJA C80

Counting Scales

Counting by weighing provides a fast method of accurate piece counting.

Below is a sample of the counting scales that MCI Systems can provide, others are available.

- Avery G236 Counting Scale

Pallet Truck and Forklift Truck Scales

Weighing items using accurate forklift and pallet truck scales is more efficient than using floor scales, allowing easy weight checks for safe loading of vehicles.

Below are samples of the pallet truck and forklift truck scales that MCI Systems can provide, others are available.

- Example Pallet Truck Scale
- Example Forklift Truck Scale

Overhead Track Scales

Overhead track scales to provide easy weighing of carcasses for accurate weight control throughout your abattoir or meat processing plant.

Below is a sample of the overhead track scales that MCI Systems can provide, others are available.

- Avery Overhead Track Scale

Automatic, Semi-Automatic and Manual Multiheads

Choose from a range of automatic multihead weighers, semi automatic multihead weighers or unique manual multihead weighers all of which can be used to increase labour savings and pack weight accuracy within the food industry, as well as resolve a wide range of issues you may encounter when dealing with fresh, frozen, dry, wet or sticky ingredients.

Below are samples of the automatic, semi-automatic and manual multiheads that MCI Systems can provide, others are available.

- Yamato TDW 2102WP Manual Multihead

This is the latest version of the unique concept manual multihead combination scale which is manufactured by Yamato Scale and is used for fixed weight, fixed price retail pack weighing. The scales are easy to use, portable and have outstanding give away control.

This weigher enables two Operators to pack at up to 25 ppm. It uses the Windows XP operating system and has a touchscreen with full stats and graphical data to optimise performance and Give Away. It is made of stainless steel and can be fully washed down. This is a seriously rugged machine for the toughest of food processing environments.

- AJA AWS 1000 Semi-Automatic Multihead

This truly remarkable weigher is for the most difficult to handle, sticky, wet ingredients or for raw material in ready meal and salad pot portion weighing and Supermarket retail packs.

The weigher is easy to use and can be operated by one or two Operators at the same time. It has 8 or 10 weigh hoppers for optimum accuracy and minimum give away. They allow for 25 - 30 ppm.

It is made of stainless steel, can be fully washed down and includes weigh hoppers with 'shutter, scrap & clean' hopper design which eliminates material loss.

- AJA AMWZ JW Automatic Multihead

10 to 14 heads; Up to 3kg fill, down to 0.3g accuracy; Up to 5000ml volume; Speeds up to 130ppm

Automatic, Semi-Automatic and Manual Graders and Sorters

Our range of graders and sorters offer a range of solutions for weigh Grading and Sorting in both retail processing and the food service industries. They are of particular benefit in the meat, poultry and fish processing industries.

Below are samples of the automatic, semi-automatic and manual graders and sorters that MCI Systems can provide, others are available.

- AJA CSG M3
- AJA CSG M4

Precision Balances

A comprehensive range of high quality, high performance balances to meet every requirement for high precision weighing. Advanced weighing technology and robust design ensure consistent accuracy, reliability and durability in any conditions and under constant usage. Capacities range from 200g to 8kg, with accuracies down to 1mg. With trade approved and calibration certificates available.

Below are samples of the precision balances that MCI Systems can provide, others are available.

- Weightron Bilanciai Cent
- Weightron Bilanciai Europe

Laboratory Balances

MCI systems can provide a wide range of accurate laboratory balances.

Below are samples of the laboratory balances that MCI Systems can provide, others are available.

- Weightron Bilanciai E50S (90g x 0.01mg / 205g x 0.001mg)
- Weightron Bilanciai Europe (210g x 1mg)
- Weightron Bilanciai MicroCrystal (250mg x 0.001mg)

Viscometer and Moisture Analyser

High accuracy viscometers with wide measurement ranges. A range of moisture analysers with analysis ranging from 0.001% to 1% moisture content.

Below are samples of the viscometer and moisture analyser that MCI Systems can provide, others are available.

- A&D MS / MX / MF / ML 70g x 0.1mg Moisture Analyser
- A&D SV Viscometer 0.3cP - 10,000cP or 10P - 1,000P

Weighbridges

Below is a sample of the weighbridges that MCI Systems can provide, others are available.

- Weightron Weighbridge

Liquid Filling

Automatic, semi-automatic and manual filling systems for liquids and semi-solid products for filling drums, IBCs, tubs, casks, and bottles.

Below is a sample of the liquid filling solutions that MCI Systems can provide, others are available.

- Twin head fixed filler

LABELS & PRINTING

Weigh-Price Labellers

Automatic and manual weigh-price-labeller for high-volume, mixed pack runs of fresh food product. Precise label application for quality pack presentation.

Below are samples of the weigh-price labellers that MCI Systems can provide, others are available.

- Avery Weightronix B806
- Avery Weightronix A3000
- Avery Weightronix M3000

Label Printers

MCI Systems can provide large and small Label, Barcode, Tag, Card and Tally printers for all applications.

Below are samples of the label printers that MCI Systems can provide, others are available.

- Datamax I-4208
- Zebra Ip2722

RFID Printers

Below are samples of the RFID printers that MCI Systems can provide, others are available.

- Zebra R2844-Z RFID Printer
- Datamax M-4210 RFID Mark II

FIELD & HANDHELD

Rugged Computers

A range of PCs designed for use in harsh environments. Sealed to stop water and dust intrusion to various IP ratings depending on requirements.

Below is a sample of the rugged computers that MCI Systems can provide, others are available.

- Belgravium Toronto 9000 Wireless

Vehicle Mount Computers and Terminals

Robust units produced to maintain performance levels in the harshest of warehouse and production environments including sub zero temperatures for cold store use.

High impact, shock absorbent design. IP sealed to stop water and chemical intrusion. High visibility display, allowing use even in bright sunshine.

Below are samples of the rugged computers that MCI Systems can provide, others are available.

- Belgravium Monaco
- MCI Otter OT62

Hand Held Mobile Computers

The latest generation of hand held computers to collect data on the move. Rugged and light weight. Designed for harsh industrial use. Able to withstand drops onto hard surface. Sealed to stop water and dust intrusion to various IP ratings depending on requirements. Integral scanner for reading barcodes with option for RFID. Wireless or Batch mode. High power battery for full shift use. ATEX versions are also available.

Below are samples of the hand held mobile computers that MCI Systems can provide, others are available.

- Symbol PPT8800 - IP54 rugged, PocketPC (also available in Mobile and CE)
- MC9090

COMPUTERS & TERMINALS

Industrial Terminals

The Otter Intelligent Terminal provides customers with the opportunity to bring their industrial system into the 21st Century. The Otter incorporates excellent performance without sacrificing usability and all within a small footprint.

For data collection, process monitoring and real-time control of factory, farm and industrial operations, the Otter series has options for all popular applications including the MCI Myrias software suite.

The unit packs a bright TFT touchscreen for clear display along with a choice of functional keypads with large keys for ease of use with or without gloves.

The Otter series can be wall, stand/desk, pillar and panel mounted at depending on the customer's needs and has a wide operating temperature range to complement most environments such as High-Care and washdowns.

The Otter is also adaptable to the communication requirements of the user with support of Wi-Fi, Ethernet or Power over Ethernet.

- Bright resistive touch screen
- Digital and Analogue I/O
- Serial and Ethernet/PoE
- Slimline design with small footprint
- Stainless steel enclosure IP67/NEMA6 rated

Below are samples of the industrial terminals that MCI Systems can provide, others are available.

- Avery Evolution Intelligent Weigh Terminal E1210
- MCI Otter OT62 VGA Touch screen Terminal
- OT70 8.4 inch VGA Touchscreen Terminal
- OT11 4.3 inch QVGA Touchscreen Terminal

Industrial Computers

Robust, industrial touch screen computers, mounted in food grade stainless steel enclosures.

Below is a sample of the industrial computers that MCI Systems can provide, others are available.

- Example Industrial Computer

Office Computers

A range of reliable office computers with or without touch screens. Please call for latest specifications.

- Example Office Computer 1
- Example Office Computer 2
- Example Office Computer 3

Servers

MCI Systems can provide high powered servers for driving your system at competitive prices. Dual or quad core multi-processor systems with RAID disk arrays. We can preload with your choice of OS including Windows Server 2005, Windows Server 2008, or Linux. Preloaded SQL databases available include SQL Server 2005, MySQL, and ProgreSQL. Please call for latest server specifications.

NETWORKING & INTERFACES

Networking Hardware

We are experienced in providing links to our range of equipment using LAN, RS232, RS422 and RS485 data communications. We are able to provide 2, 4, 8, 16 and 32 port RS232 and RS422 devices, and LAN switches.

Wireless Hardware

We can provide 802.11b wireless modules for most of the hardware that we sell. These enables the hardware to be connected back to a PC using standard office wireless networks.

Barcode Hardware

Using barcode readers to check codes, and identify product reduces human error and provides speed of selection. We can provide a wide range of barcode readers and scanners from leading manufacturers.

Bar code verifiers are available for checking the quality of the barcode.

- All common symbologies
- Suitable for Industrial and Retail
- Rugged Scanners
- Handheld, Hands-Free and Fixed Mount Scanners
- Slot Readers
- 2D
- Serial, USB and Wireless

Below are samples of the Networking, Wireless and Barcode Hardware that MCI Systems can provide, others are available.

- Datalogic Heron
- Datalogic Powerscan D8500 Rugged Handheld
- Opticon NLB5625 Fixed Mount IP54 Scanner
- CipherLab 1022 Slot Reader

LINE EQUIPMENT

Metal Detectors

MCI Systems can provide Metal Detectors to identify metal contamination, levels of sensitivity and response speeds.

Below are samples of the metal detectors that MCI Systems can provide, others are available.

- OCS HC CW and Metal Detector
- AJA C80 CW and Metal Detector

PLCs

PLC

We can provide Programmable Logic Controllers (PLC) from a range of manufacturers.

As a complete system, we will program and wire the PLC in a suitable enclosure.

We work with PLCs from most of the major suppliers including Siemens, Mitsubishi and Alfa Level. As well as current models such as the Siemens S7, we have experience of working with many older models such as GEM, Omron and Gould.

Below is a sample of the PLCs that MCI Systems can provide, others are available.

- Example PLC

HMI

We can supply and integrate a range of Human Machine Interfaces as part of your PLC system, such as the Siemens HMI and Mitsubishi HMI. The HMI will allow you to view graphs and easily enter data.

Below is a sample of the HMIs that MCI Systems can provide, others are available.

- Siemens Simatic TP 177B

If you would like to find out more, see a demonstration or discuss your own requirement, please phone us on 01252 722 399, email us at sales@mcisystems.co.uk or visit our website www.mcisystems.co.uk for more information