

# WASTE MANAGEMENT



**DYNAMIC WEIGHING / SCALE WEIGHING TECHNOLOGY**

MOBA-AUTOMATION.ES

# MWS MOBILE WEIGHING TECHNOLOGY FROM MOBA

Thanks to **more than 40 years of experience** in developing and producing mobile weighing technology, the new generation of mobile weighing systems from MOBA is helping industrial, logistics and waste disposal companies to achieve even greater flexibility. With the CANopen bus solution as the communication interface, you can not only change individual components quickly but also convert or upgrade the entire system in no time at all. This modular design makes the weighing scale compatible with any vehicle and a large number of applications, whether as a vehicle body scale, front loader scale, rear loader or crane hook scale. The weight is shown conveniently directly in the driver's cab on the CP-100 display or the fully equipped on-board computer with high-resolution colour display and quad-core processor. The on-board computer MOBA-Operand allows you to make countless additional cost-effective upgrades, such as expansion with RFID technology to enable rapid identification of the waste container on site, paving the way for usage-based billing of waste collection charges. The integration of the innovative telematics solution also makes it possible to track the fleet vehicles live and provides the perfect basis for streamlined and cost-effective route planning.

## SERVICE & SUPPORT

As an experienced and competent partner, MOBA provides a premium service for waste disposal companies and municipalities. With development, manufacture and installation all provided by a single company, individual requests can be realised expeditiously and in close collaboration, with expert support on hand.

Thanks to the EC type approval, MOBA not only carries out the initial official calibration but also organises all other Class III or IV calibrations, so the weighing scale remains precise and maintenance-free at all times.

### MOBA PROVIDES:

- » Professional and practical planning of weighing systems
- » Custom installation in a wide range of vehicle types
- » Full weighing scale calibration service
- » Rapid service thanks to in-house specialists directly on site
- » An easily upgradable system with RFID and telematics solution



### WEIGHING INDICATOR CP-100

- » Tried-and-tested display and control unit for electronic weighing scales
- » Weighing scale configuration and problem identification
- » Additional custom functions



01

### ON-BOARD COMPUTER MOBA OPERAND

- » Complete solution with weighing scale software 'MOBA Weight Display'
- » Straightforward and intuitive control via touchscreen and keys
- » Glare-free and transfective display
- » E1-certified



02

### DIGITAL SIGNAL AMPLIFIER SC-106

- » Stainless steel housing IP67
- » Distributor box for up to six independent channels
- » 2 CANopen interfaces



03

### TILT SENSOR

- » Optimum tilt monitoring during the loading process
- » Robust and compact design



04

### EXTERNAL OPERATING BOX

- » Information can be entered easily by the driver, even outside the driver's cab
- » Entries confirmed by means of an LED display
- » Visual display of identification on the weighing side



05

### ON-BOARD PRINTER

- » Create receipts and other documents on site
- » Enables immediate payment collection



06



# VEHICLE BODY WEIGHING SCALE- SOLID MECHANICAL STRUCTURE MEETS HIGH-PRECISION WEIGHING TECHNOLOGY

Integrated into the vehicles, the vehicle body **weighing scale** from MOBA performs the efficient weight measurement of loads without having to use floor scales. Loading and unloading recorded on site in advance for documentation: for greater efficiency and transparency.

The mechanical installation of the reliable weighing technology in waste disposal vehicles of all kinds, silo vehicles or suction-cleaning vehicles, is performed in our own production hall, guaranteeing top precision and optimum application-specific customisation.

MOBA thereby executes the entire development chain of each individual weighing system internally and provides efficient solutions at all times: planning, development, management, installation and full weighing scale calibration service.

## SYSTEM BENEFITS AT A GLANCE:

- » Time savings thanks to short weighing times
- » On-site billing with legal certainty
- » Extremely robust thanks to technology with vibration-resistant encapsulation
- » Can be upgraded to an RFID or telematics system at any time
- » Long service life thanks to extremely robust design





MOBA  
MOBILE AUTOMATION

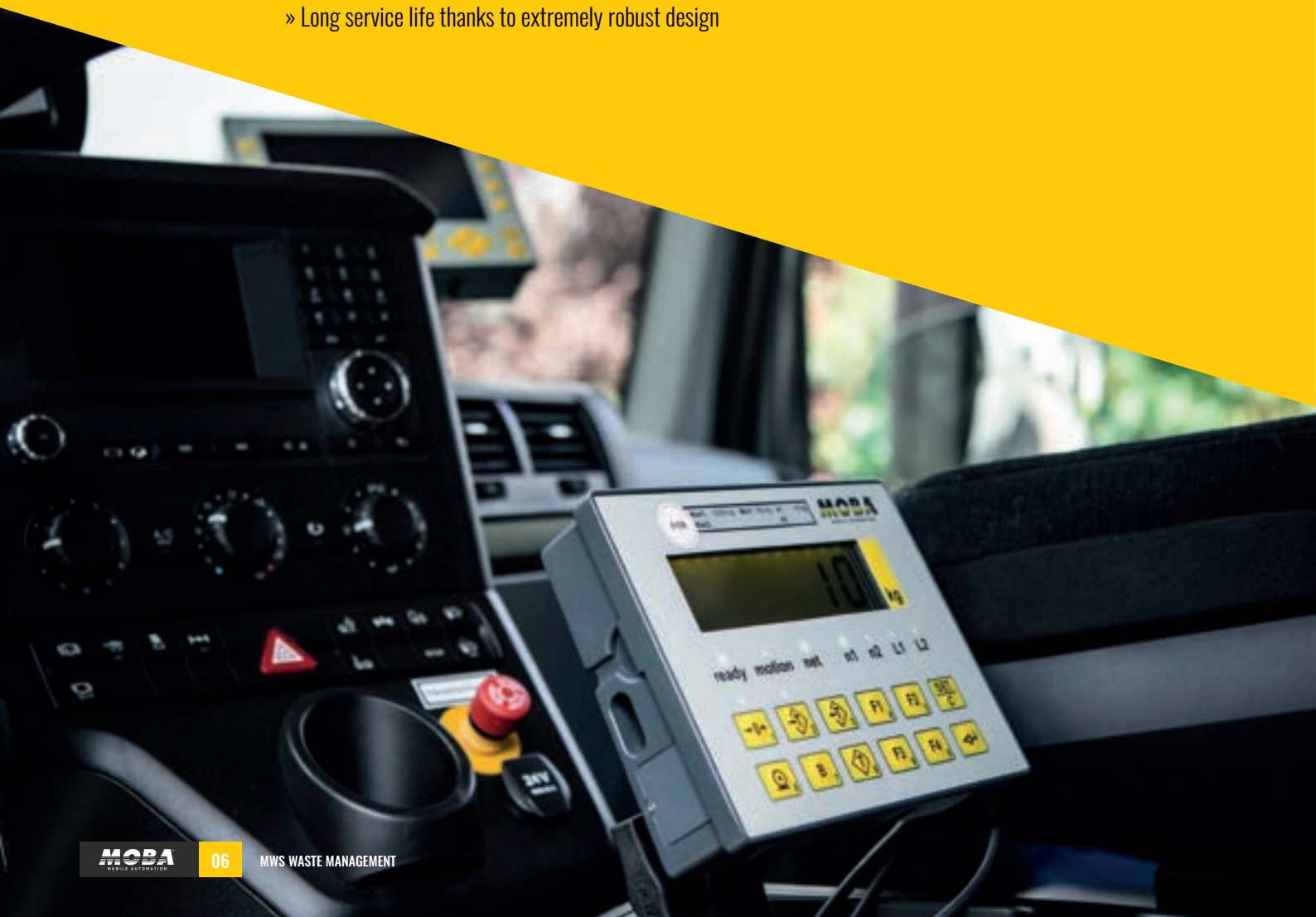
# LIFTER WEIGHING SCALE FOR FRONT LOADERS

The compact and robust design of the weighing system for **front loaders** makes it flexible for any application and guarantees maximum precision at all times. As it is fully integrated into the mechanics, the lifter weighing scale measures the exact weight of the waste container before it is emptied. The data sent to the on-board computer can then be documented for further administrative purposes in the office thanks to the new user-friendly software, providing the perfect basis for transparent billing of waste collection charges.

The calibration stamp with all relevant information concerning the weighing of a waste container during disposal can even be printed out directly on site and provides legal certainty for billing as the scale is officially calibrated.

## SYSTEM BENEFITS AT A GLANCE:

- » Time savings thanks to short weighing times
- » Cost savings thanks to low-maintenance weighing scale
- » Extremely robust thanks to technology with vibration-resistant encapsulation
- » Can be upgraded to an RFID or telematics system at any time
- » Long service life thanks to extremely robust design





A handheld MOBA OPERAND device is shown in the foreground, tilted slightly. The screen displays a list of companies and their addresses, sorted by distance. The background is a night-time view of a city skyline, featuring two prominent towers with illuminated spires.

MORE TRANSPARENCY &  
ACCURATE DATA RECORDING

## MOBA OPERAND

- » WIN CE on-board computer
- » CAN interface supported by CleANopen
- » E1 certification
- » Input via the touchscreen and additional keys
- » Glare-free, transfective display
- » Robust die-cast housing
- » Display: 800 x 480 TFT



The automatic mode of the dynamic lifter weighing scale for rear and side loaders simplifies and also speeds up the disposal process, as the waste container is weighed during the tipping procedure.

Additional time savings can be made by weighing two containers in parallel and independently during the tipping procedure using divided comb bars. Besides offering extremely precise weighing results, this also means greater flexibility during the waste disposal process.

Consistently accurate results and zero maintenance are possible thanks to MOBA's premium services with complete support of the planning, development, manufacture and installation of the system, including official calibration of the weighing scale.

#### SYSTEM BENEFITS AT A GLANCE

- » Time savings thanks to short weighing times
- » Cost savings thanks to low-maintenance weighing scale
- » Extremely robust thanks to technology with vibration-resistant encapsulation
- » Can be upgraded to an RFID or telematics system at any time
- » Long service life thanks to extremely robust design







# LIFTER WEIGHING SCALE FOR REAR AND SIDE LOADERS



# CRANE HOOK WEIGHING SCALE FOR TRUCKS WITH LOADING CRANES

The weighing system for vehicles with **crane hook weighing** scales is perfectly equipped for tough applications thanks to the extremely robust design of the individual components.

Whether it's emptying glass containers or loading scrap or other recyclable materials, the open CANbus interface makes the system customisable and easy to upgrade for any requirements.

The wireless communication between load cell and on-board computer via Bluetooth provides optimum agility and makes cable damage a thing of the past.

## SYSTEM BENEFITS AT A GLANCE:

- » Integrated overload protection
- » Secure, reliable functionality and repair cost savings thanks to wireless design
- » Optional time-saving upgrade to an RFID or telematics system thanks to open CANbus interface
- » Extremely robust thanks to technology with vibration-resistant encapsulation
- » Long service life thanks to extremely robust design







# YOUR EXPERTS WORLD-WIDE

//// MOBA HEADQUARTER  
//// MOBA SUBSIDIARY



## MOBA GROUP

The **MOBA GROUP** is a leading global player in the world of mobile automation. Close collaborations between the headquarters in Limburg an der Lahn and subsidiaries all over Europe, Asia, North and South America create new perspectives for recent and future developments.

Superior technical know-how and more than 40 years of experience combined with an international dealer network guarantee a premium support – **worldwide. INSPIRING MOBILE AUTOMATION** - this is what the **MOBA GROUP** stands for since more than **40 years**.

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