



Wireless counters with remote system



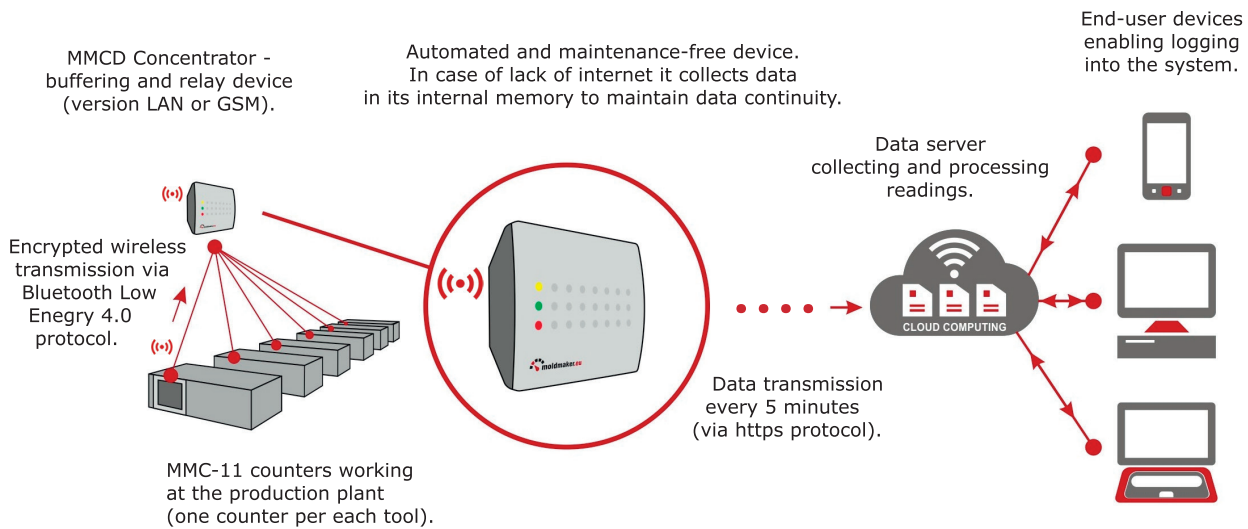
Remote system for wireless counters

- Convenient and wireless counter reading.**
- Quick and error-free data transmission.**
- Cycle time tracking.**
- Preventive maintenance checks and reminders.**
- Tool temperature tracking.**
- Remote preview of an external production plants.**

Common configurations

Solution 1

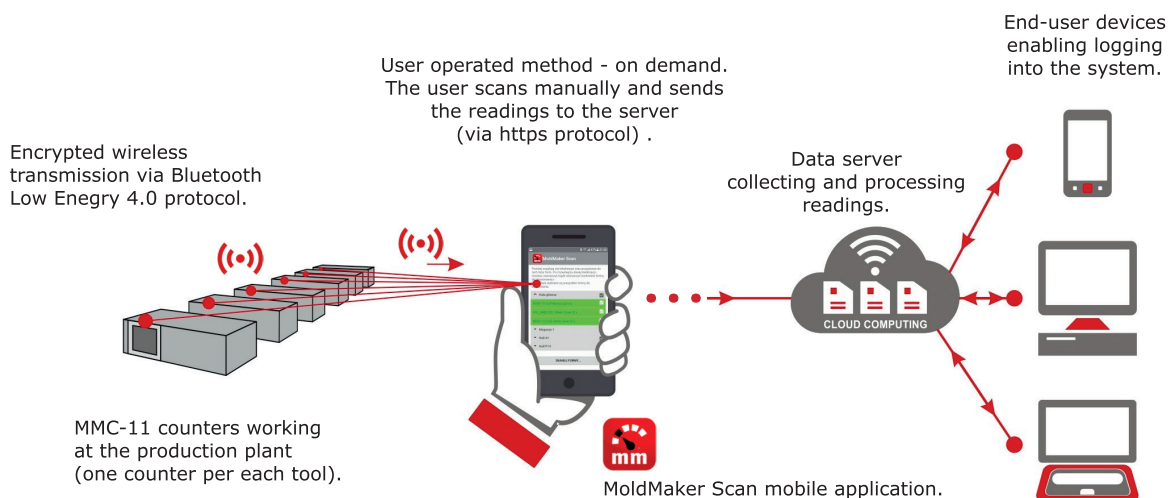
FULLY AUTOMATED



The solution is most used by corporations and large companies that value convenience and error-free operation, as well as maintenance-free implementation, which translates into quick action, full functionalities and the greatest benefits.

Solution 2

USER OPERATED



A start-up solution for manufacturing companies that want to enjoy wireless reading functionality, which eliminates the need to manually read data, ensures no mistakes and quick counter reading along with the full functionality of preventive maintenance supervision.

Wireless cycle counters

MMC-11

Type	STANDARD
Transmitter range [guaranteed-maximum]	30-120 m 100 - 400 ft
Battery life [minimum]	5 years
Work temperature [min-max]	$\pm 20^{\circ}\text{C} \div -85^{\circ}\text{C}$ ($-8^{\circ}\text{F} \div +185^{\circ}\text{F}$)
Count frequency [maximum]	3,5 Hz
LCD Display	8-digit
Maximum indication [wirelessly]	4 000 000 000
Disassembly sensor	Yes
Maintenance cards, reminders, efficiency...	Yes
International Protection Rating	IP62




A versatile solution
for injection & stamping tools.
If you are undecided - pick this proven one!



For high temperature tools.

MMC-11 HT

Type	High Temperature
Transmitter range [guaranteed-maximum]	30-120 m 100 - 400 ft
Battery life [minimum]	5 years
Work temperature [min-max]	 125 °C (256°F)
Count frequency [maximum]	3,5 Hz
LCD Display [none]	only wireles reading
Maximum indication [wirelessly]	4 000 000 000
Disassembly sensor	Yes
Maintenance cards, reminders, efficiency...	Yes
International Protection Rating	IP62

MMC-11 Mini


Type	Minor functionality
Transmitter range [guaranteed-maximum]	30-120 m 100 - 400 ft
Battery life [minimum]	5 years
Work temperature [min-max]	$\pm 20^{\circ}\text{C} \div -85^{\circ}\text{C}$ ($-8^{\circ}\text{F} \div +185^{\circ}\text{F}$)
Count frequency [maximum]	3,5 Hz
LCD Display [none]	4 000 000 000
International Protection Rating	IP62



Simple but effective solution.

Wireless cycle counters with increased temperature resistance

MMC-12 HT

Type	High temperature	
Transmitter range [guaranteed-maximum]	30-120 m 100 - 400 ft	
Battery life [minimum]	4 years	
Work temperature [min-max]	 150 °C (300°F)	
Count frequency [maximum]	3,5 Hz	
LCD Display	8-digit	
Maximum indication [wirelessly]	4 000 000 000	
Disassembly sensor	Yes	
Maintenance cards, reminders, efficiency...	Yes	
International Protection Rating	IP62	



Counter for oil heated molds and for tools with higher operating temperatures.

The counter design protects the electronics with double-layer housing, insulating air chambers ensuring good air circulation and distance fixing screws.

The counter has a fully functional disassembly sensor.




Vulcanization molds for rubber and other tools with the highest working temperature.

The counter design protects the electronics with double-layer housing, insulating air chambers ensuring good air circulation and distance fixing screws.

The counter has no disassembly sensor.

MMC-12 UHT

Type	Ultra High Temperature	
Transmitter range [guaranteed-maximum]	30-120 m 100 - 400 ft	
Battery life [minimum]	4 years	
Work temperature [min-max]	 205 °C (400°F)	
Count frequency [maximum]	3,5 Hz	
LCD Display [none]	only wireless reading	
Maximum indication [wirelessly]	4 000 000 000	
Disassembly sensor	No	
Maintenance cards, reminders, efficiency...	Yes	
International Protection Rating	IP62	

Wireless cycle counters – accesories

MMC-24

Typ For injection machines

Transmitter range [guaranteed-maximum]	30-120 m 100 - 400 ft
Battery life [minimum]	5 years
Work temperature [min-max]	-20°C ÷ +85°C (-8°F ÷ +185°F)
Count frequency [maximum]	3,5 Hz
LCD display	8-digit
Maximum indication [wirelessly]	4 000 000 000
Input voltage [nominal]	24 V
Maintenance cards, reminders, efficiency...	Yes
International Protection Rating	IP62

The counter allows counting the working cycles of an injection machine or a press machine after connecting to the machine controller with a cable. The input accepts 24V pulses, which are transmitted wirelessly to the Moldmaker system. The system assigns them to the mould or die that is currently working on the machine.



For more experienced users.



MMCD Concentrator
LAN version

A maintenance-free receiving device acting as a terminal, buffer and an automatic relay of information received from the counters to the data collecting server.



MMCD Concentrator
GSM version

MMCD Concentrator

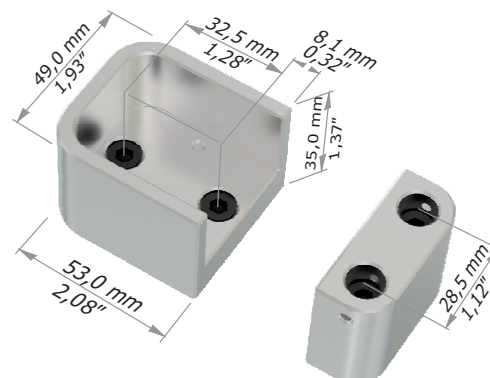
Version	LAN
Transmitter range [guaranteed-maximum]	30-120 m 100 - 400 ft
Power supply [110/230V]	POE 48V
Number of operated counters [maximum]	750
Data transfer frequency [to the server]	every 5 min
International Protection Rating	IP32
Version	GSM
Transmitter range [guaranteed-maximum]	30-120 m
Power supply [110/230V]	110÷230V
Number of operated counters [maximum]	750
Data transfer frequency [to the server]	every 5 min
International Protection Rating	IP34

Wireless cycle counters mounting accessories

MM-SB-01xx

Type Protection bracket - slim ver.

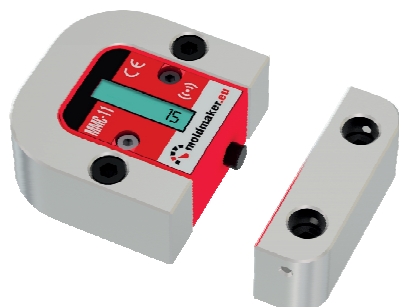
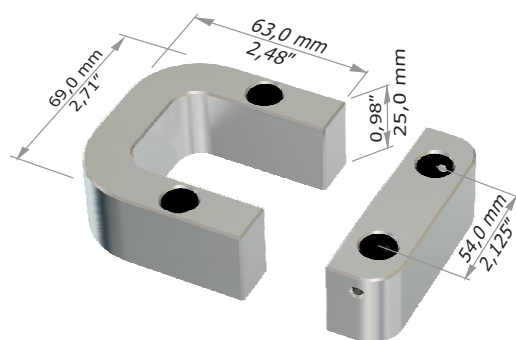
Compatibility	MMC-11 Standard MMC-11 HT MMC-11 Mini, MMC-24
Thread versions	MM-SB-01EU (EU) MM-SB-01US (US)
Material	Anodized aluminum
Ensures the disassembly sensor operation	Yes
Protection against disassembly of the movable element	Breakable seal
Work temperature	-20°C ÷ +125°C



Protective narrow housing of increased height for building counters outside the tool. Protects the counter against accidental damage. Total height of 35.0 mm with the counter.

Fixed element assembly - 2 M6 x 16 screws (1/4 "-20 x 0.62")
Moving element assembly - 2 M6 x 20 (1/4 "-20 x 3/4") screws + breakable seal
Installation of the counter in a pocket - 2 M4 x 30 screws (No.8-32 x 1.15 ")
(screws not included)

The design ensures the operation of the counter disassembly sensor.



MM-SB-02

Type Protection bracket - wide ver.

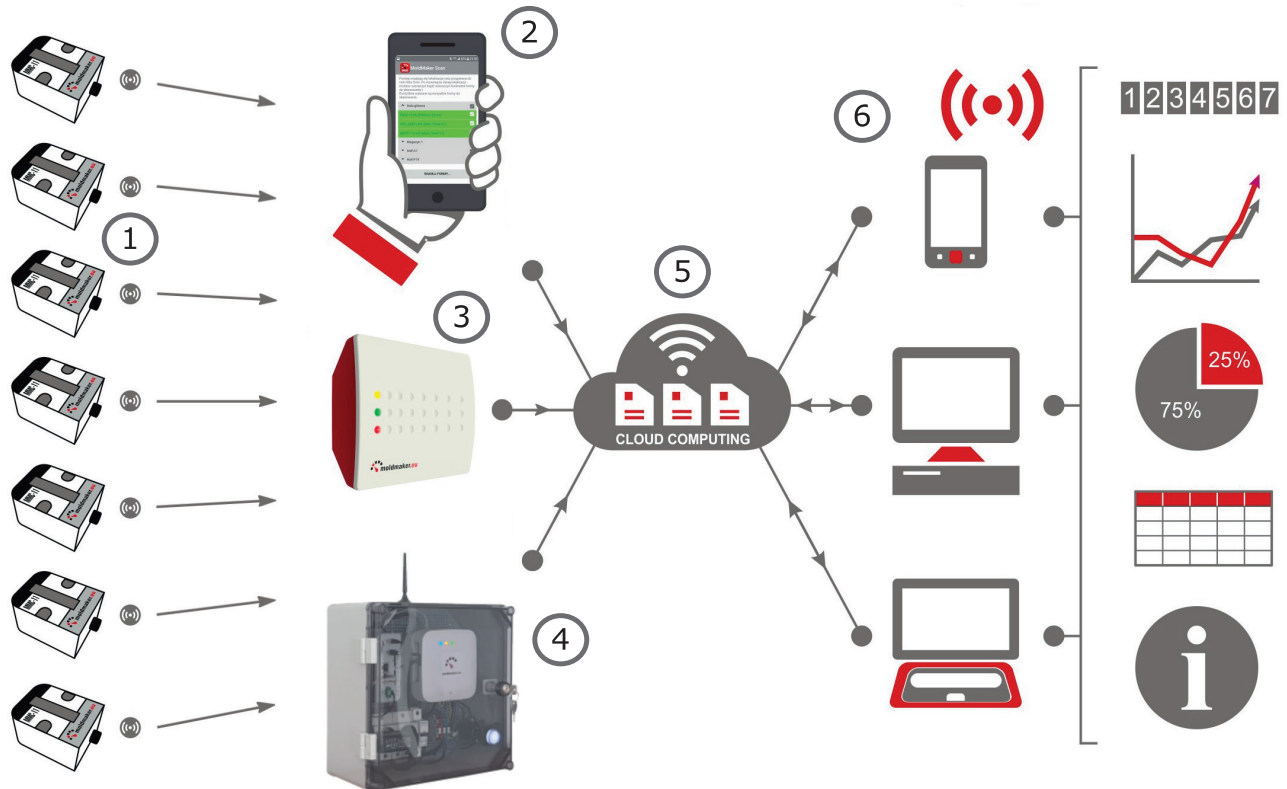
Compatibility	MMC-11 Standard MMC-11 HT MMC-11 Mini, MMC-24
Material	Anodized aluminum
Ensures the disassembly sensor operation	Yes
Protection against disassembly of the movable element	Breakable seal
Work temperature	-20°C ÷ +125°C

The protective wide housing for counters is intended for installation outside the tool. Protects the counter against accidental damage. Housing height equal to the height of the meter (25.0 mm).

Fixed element assembly - 2 M6 x 16 screws (1/4 "-20 x 0.62")
Moving element assembly - 2 M6 x 20 (1/4 "-20 x 3/4") screws + breakable seal
Installation of the counter in a pocket - 2 M4 x 30 screws (No.8-32 x 1.15 ")
(screws not included)

The design ensures the operation of the counter disassembly sensor

Data flow diagram



The MoldMaker system is a tool for monitoring working injection tools, stamping dies or high pressure tools. Statistics are generated for individual tools and the entire factory.

The MoldMaker system is designed for remote monitoring of external suppliers carrying out production on entrusted tools. It provides unprecedented visibility over your in-house & outsourced manufacturing through data transparency and tighten your relationship with your internal & external suppliers.

Description

- 1** - counters working at the production plant
- 2** - mobile application
- 3** - Concentrator LAN
- 4** - Concentrator GSM
- 5** - Central server
- 6** - End-user units

SYSTEM CHARACTERISTICS

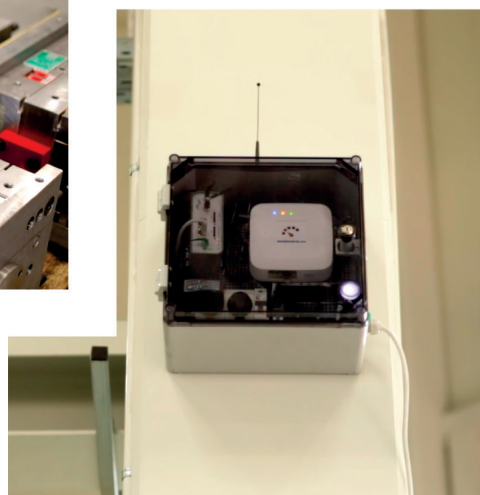
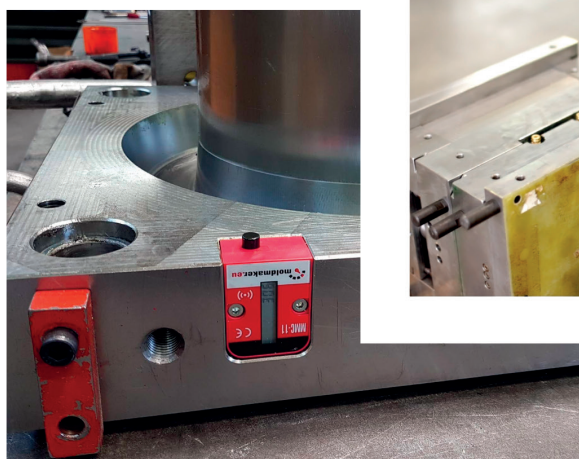
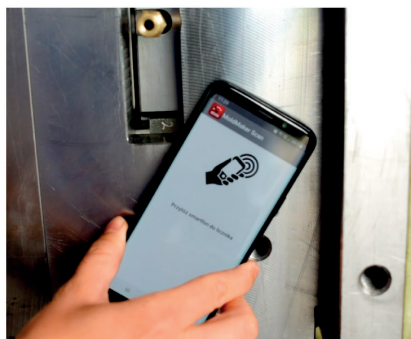
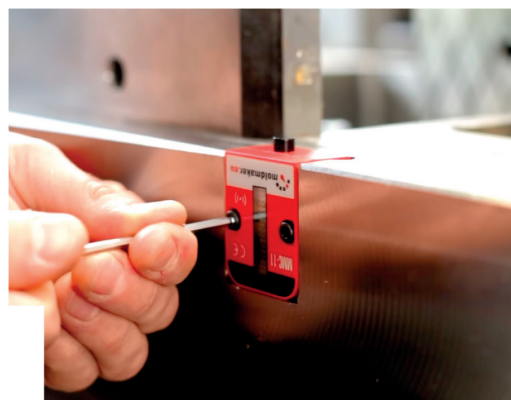
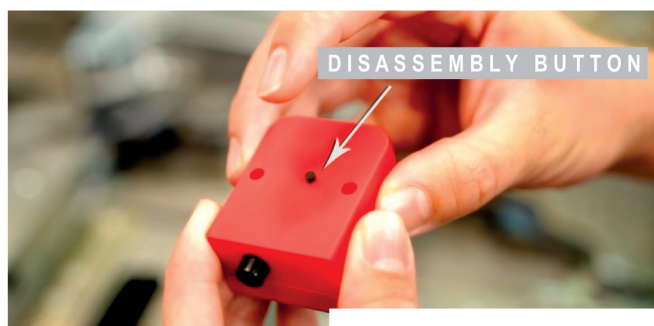
Work ranges

Devices range [guaranteed-maximum]	30-120 m 100-400 ft
Area coverage [guaranteed-maximum]	2800 m ² - 45000 m ² 30000 ft ² - 480000 ft ²
Number of counters operated per 1 MMCD Concentrator	750
Maximum number of counters operated in the system	Unlimited
Number of system users [per 1 company]	Unlimited
Number of external plants [per 1 company]	Unlimited
Preventive maintenance, reminders, efficiency...	Yes
Disassembly alarms	Yes
Consulting service	Unlimited

Near Field Communication Functionality !



Mold Maker counters are equipped with modern NFC and Bluetooth functionality enabling contactless configuration and data transmission.





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