



U40



C30



C40

MANUBAL

USER MANUAL

Dear user,

Thank you for choosing MX products. We hope you are fully satisfied with the implement you have purchased.

Take a few minutes to read this manual to obtain the best results from your MX implement, prolong its service life and use it safely.

Your implement user manual is an important document. Keep it in a safe place, along with the fitting instructions supplied by your dealer, so they can be consulted when necessary. These documents should be made available to any other users, and provided to any new owner if you sell your MX implement.

The illustrations and technical data provided in this document might not exactly correspond to your loader; however, the conditions of use remain the same.



WARNING: The MX implement should be handed over to the user by the dealer.

The demonstration of the equipment to be delivered should include:

- Safety rules.
- Hitching and unhitching the work implement.
- Full use of the controls.



WARNING: If any of these requirements are omitted, please contact your dealer immediately.

The original French manuals are available [on the MX website](#).

MX is a trademark of M-extend France SAS, SIREN 639 200 260, Rennes TCR, 19 Rue de Rennes, BP 83 221 - 35 690 Acigné, France.



CAUTION: The operator must read this manual before using the loader for the first time.



- Any use that is not intended by the manufacturer is considered improper use and therefore constitutes misuse. The manufacturer cannot be held liable for any resulting damage.
- The safety information given in this manual does not replace safety codes, insurance requirements, local, state, or federal laws.

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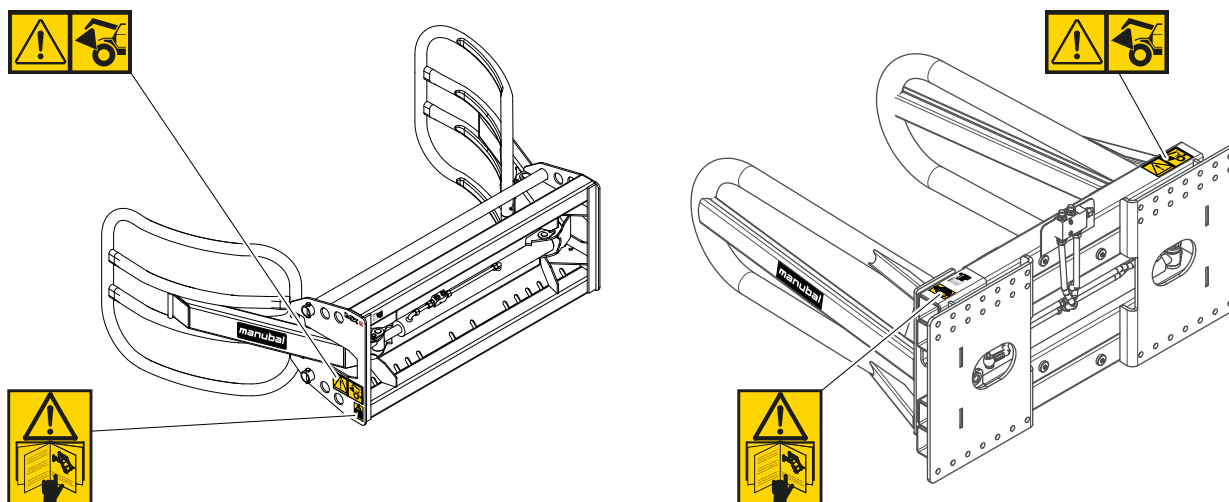
1. Safety rules

- Fit the tractor with a counterweight at the rear to balance the extra weight at the front.
- Never stand or walk under the load.
- Keep people away from the implement working area.
- Take extra care when anyone passes close to protruding components.
- Any work on the implement must be carried out by the driver, who should leave their seat and prevent any other operations being carried out while working on the implement.
- Please refer to the loader operator's user manual for hitching and unhitching the implement.
- The implement should be cleaned after each use. Lubricate the implement every 10 working hours and after each wash.
- The PPE (Personal Protective Equipment) listed in the PPE Table must be worn when operating this machinery.
- Seat belts must be worn by the driver and passengers.
- Before each use, the operator must check that the loader is correctly hitched and that the implement is correctly locked (test by pressing hard to the ground).
- Only control the loader from the cab. Ensure you remain in full control until all movement has finished.
- The controls must be locked when driving on the road (see controls user manual).
- When approaching a junction, release the controls then raise the loader to at least 2 m above the ground to avoid endangering other road users. After passing the junction, return the loader to its initial position and lock the controls again.
- When driving on the road, do not conceal the tractor's side lights and indicators.
- Do not leave the cab without stopping all control movements (control lever locked).
- Never leave the tractor unattended with the loader in the raised position. After using the loader, park the tractor with the loader lowered to the ground.
- All persons must be kept away from the area in which the loader is moving while it is in operation. If lifting operations require the presence of someone in close proximity to the load, the MX loader must be fitted with a safety device. For more information, please refer to the "Safety when Lifting and Dumping" chapter in the loader user manual.
- Before use, the operator should ensure that the loader-tractor unit and the implement-loader unit are compatible. Advice can be obtained from the current MX price list, available from your dealer.
- Operators should only use implements designed and recommended by the manufacturer for the job at hand.
- Never lift the loader and/or implement if the implement is obstructed/restricted in any way.
- The maximum permissible working speed is 5 km/h.
- Carrying or lifting persons using the loader is forbidden.
- Restrict all movements with the load lifted. The tractor may become unbalanced.
- The maximum front-axle load specified by the tractor manufacturer must not be exceeded.
- In order to limit stresses on the front axle and steering ram, and to limit tyre wear, move forwards or backwards when steering.
- The maximum load on the front tyres specified by the tyre manufacturer must not be exceeded.
- Check tyre pressure regularly.

- Periodically check that the safety pins and bolts are in place. Do not replace these with any other items such as nails, wires, etc.
- The tractor should at the very least be fitted with a roll-over protective structure (ROPS), which should be in the active position when using the loader.
- To use the MX loader safely, the tractor must be fitted with a cab protection structure or 4-post roll cage to protect against falling objects. Caution: the protective fitting must be in operational position during work. If the tractor is only fitted with a 2-post front or back roll cage, please see Loader usage limits on a tractor without cab or without 4-post roll cage and Operator Protective Guard OPG.
- Watch out for overhead electricity and telephone lines, guttering, framework, etc. when moving with the loader in its raised position.
- In compliance with standard EN 12525 + A2 2010, the controls for operating the loader and implements must be of the "sustained action" type, except for the floating position for lifting and/or dumping, which can be held in place by a notching system.
- Any fault diagnosis and/or removal of parts must be carried out by a professional who is to start by ensuring that the work will be carried out safely, with minimal risk to themselves and their environment, especially in the case of work on a lifted loader.
- For all operations on the machine, the risks of crushing or pinching must be managed, especially with moving parts.
- For all operations at height using the machine, equipment must be stable and secured. Stop the tractor engine if the loader is hitched to the tractor.
- Keep the tractor-loader unit clean to avoid the risk of fire. Check that airborne particles (straw, grass, wood shavings, etc.) do not accumulate in areas which reach high temperatures. Inspect and clean areas where various materials can accumulate, especially around the engine and the exhaust area.
- Check that the tractor is safely stopped after use.
- Before activating the decompression function, ensure that the implement is not loaded and, depending on the model, that its accessories are not active.
- Any work carried out on the implement must be done with the implement unloaded and, depending on the model, with its accessories at rest.
- When handling bales, check that the bale is held correctly before lifting the loader.
- Never walk or loiter under a raised bale. Never use the MANUBAL to push a bale.
- When not in use, protruding items such as tine ends must be protected or stowed (grab closed, lower tine kit retracted).
- Any adjustment to the MANUBAL (ram position, tines in fixed or floating position, etc.) must be made after lowering the MANUBAL to the ground and shutting down the tractor or telescopic handler engine.
- The MANUBAL is designed to operate at a maximum pressure of 210 bar. Above this pressure, the MANUBAL must be fitted with a pressure limiter.

2. Safety stickers

Ensure that these stickers are clean and legible; replace them if they become damaged. If a sticker needs replacing, clean the surface with isopropyl alcohol and affix the new sticker using an appropriate tool.



DANGER: Failure to follow these rules may result in serious injury or death.

Symbol	Meaning
	Read the safety rules and operating instructions in the user manual before using the product.
	Risk of contact with tyres: Do not tip the implement to its fullest extent while lowering the telescopic arm.



MX implements are designed to offer the driver of the telescopic handler to which they are fitted optimum angles for crowding at ground level and dumping.

Before handing over to the operator, the installer must check that no collision can occur between the fitted implement and other parts of the machine (tyres, mudguards, etc.), as a result of the implement reaching its maximum travel while the boom of the machine positions the implement as close as possible to the carrier vehicle.

If any combination of implement and boom positions could result in the two colliding, the installer must notify the driver and provide instructions on how to prevent such a collision. It is generally necessary to work with the boom extended by at least 0.5 m.

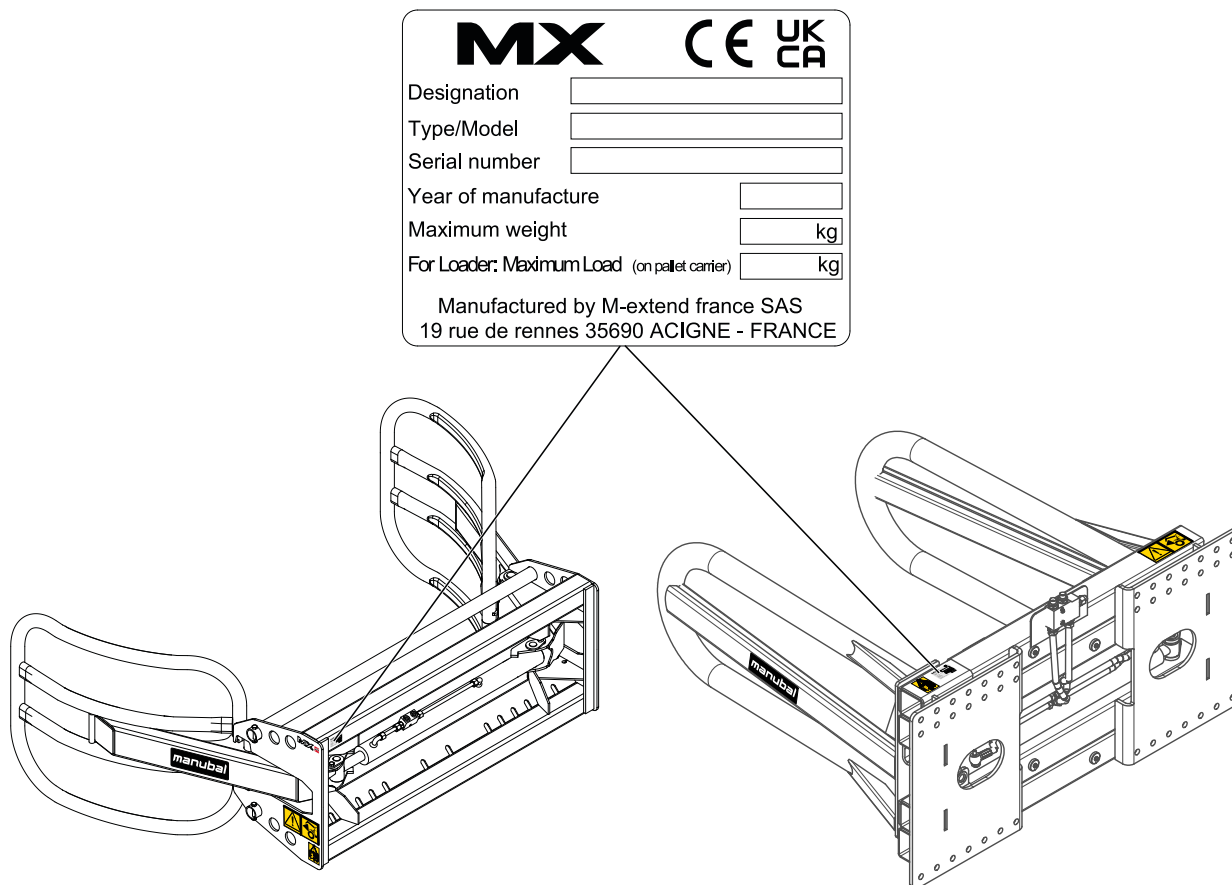
MX will not be held liable for any damage or accidents resulting from such a collision.

3. Identification plate

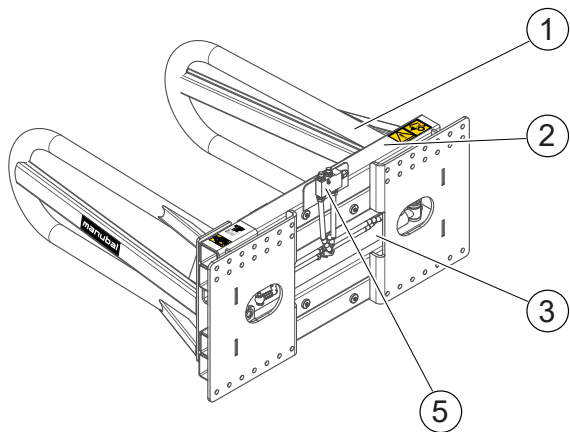
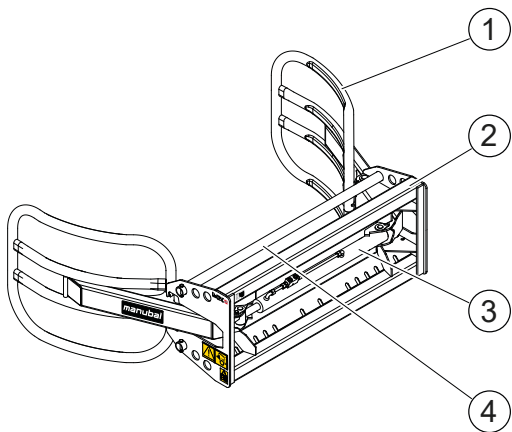
Identification data must be provided to your dealer for any request for spare parts or service support. It is located as shown below.

Location: Manubal frame support

— Manubal identification data plate



4. Description



Marking	Description
(1)	Grab
(2)	Frame
(3)	Ram
(4)	Backplate tube
(5)	Counterbalance valve

5. Hitching the Manubal

CAUTION: This operation must be carried out by the driver, who must leave the cab and not perform any manoeuvres while working on the loader.

Implement carrier with manual unlocking

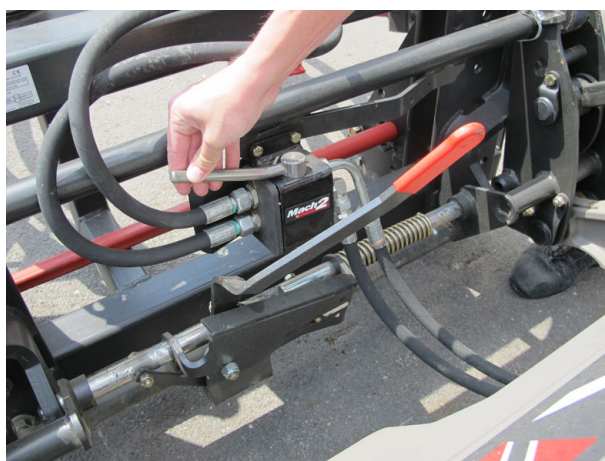
- Ensure that the unlocking lever is in the hitching position (lever tipped back).
- The pins are back in, the springs are compressed.

CAUTION: Check that the implement's hoses are clear of the hitching area.

- Align the loader with the implement.
- Fit the implement carrier onto the implement.
- Crowd and continue to advance until the locking lever trips.
- Switch off the engine.
- Decompress the hydraulic lines supplying the implement.

NOTE: If the loader is fitted with a solenoid valve, switch on the ignition, press the control button and decompress the hydraulic lines.

- Connect the Manubal hydraulic function hoses.



6. Unhitching the Manubal



CAUTION: This operation must be carried out by the driver, who must leave the cab and not perform any manoeuvres while working on the loader.

Implement carrier with manual unlocking

Before leaving the cab:

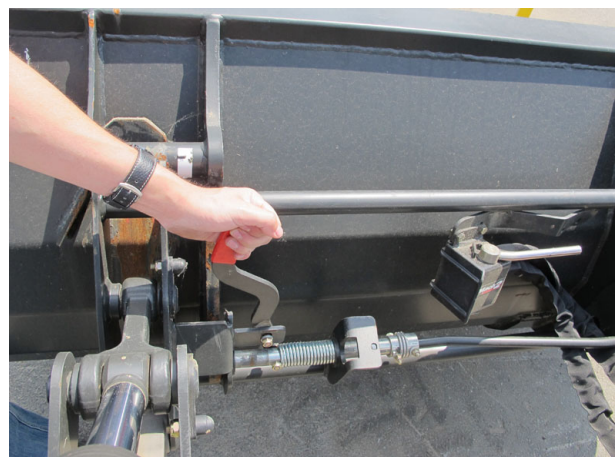
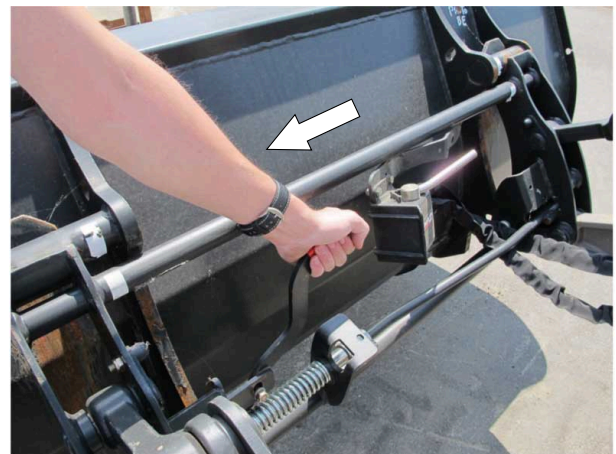
- Select a stable parking area.
- Position the implement horizontally, 0.30 m above the ground.
- Engage the hand brake.
- Stop the tractor's engine.
- Release the pressure in the hydraulic circuits to be disconnected

NOTE: If the loader is fitted with a solenoid valve, switch on the ignition and move the monolever from right to left by pressing the control button.

Unlocking the implement

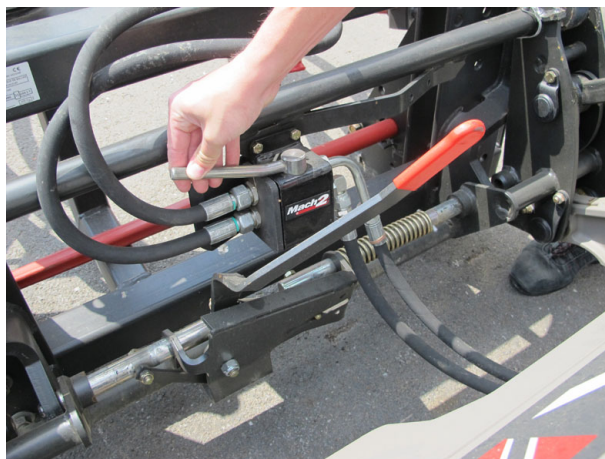
- Stand on the left side of the loader.
- NEVER STAND IN FRONT OF THE LOADER.
- Pull the lever all the way towards the ground.

Pull the lever towards you until it stays engaged.



Disconnect the hydraulics:

- Mach 2: Release
- Couplings: Fit the protective caps to the male and female couplings.
- Put the hoses on the front of the implement.



7. Adjusting the manubal according to the bale diameter (C40 only)

To optimize the pickup of wrapped bales, you can adjust the settings based on their diameter.

Adjustment 1:

- Picking up wrapped bales with a diameter of approximately 0.90 m to 1.25 m.



Adjustment 2:

- Picking up wrapped bales with a diameter of approximately 1.25 m to 1.50 m.



Adjustment 3:

- Picking up wrapped bales with a diameter of approximately 1.50 m to 1.80 m.



8. Power control system (C40 only)

The Power Control System (pressure limiter) (option) is used to adjust the gripping force of the grab on the wrapped bale.

Adjustment is performed using the valve built into the pressure limiter (1).

After adjustment, lock the adjustment with the thumbwheel (2).



9. Maintenance/Laying up

9.1. Maintenance

- Lubricate pivot points regularly. The lubricating points are indicated on the Manubal by the following stickers:



- Ensure hydraulic couplings are clean before every connection.
- Ensure that straw or hay debris is not jamming pivot points.
- Check that the Manubal is in proper working order and that screws, clips and pins are in place before use.
- Check the condition of wear bushes and replace them before they are fully worn.

9.2. Laying up

- Unhitch the Manubal with the grab open (ram rod retracted).
- Lubricate the pivot points.

10. Recycling MX products

Disposal: please contact your dealer or a company specialising in materials recycling.

Hydraulic system

- End-of-life MX products must have their hydraulic oil drained by an authorised technician.
- The hydraulic hoses must be removed before the equipment can be recycled.
- All MX product owners are required to comply with these environmentally-friendly precautions if they decide to dismantle their end-of-life products themselves.

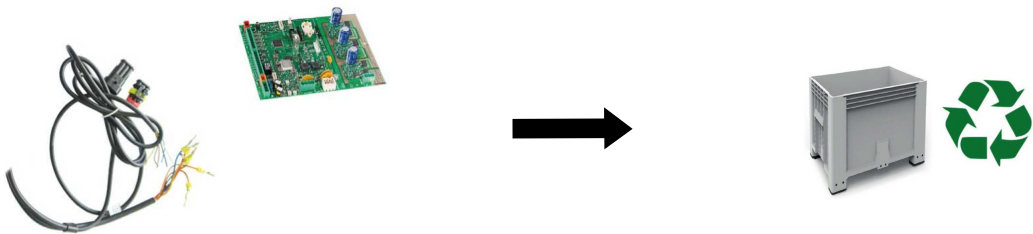
Disposal of hazardous waste (oils and hoses)

- Hydraulic oils must be stored in containers or drums provided for this purpose and sent to approved disposal facilities.
- For hydraulic hoses, the steel connectors can be separated from the rubber hoses.
- The steel end caps must be recycled as scrap by approved facilities.
- The rubber hoses must be placed in watertight containers and sent for processing by approved facilities.



High-tech MX product components and electrical and electronic equipment

- Waste electrical and electronic equipment (WEEE) present in MX products must be removed and disposed of by authorised services for recovery.

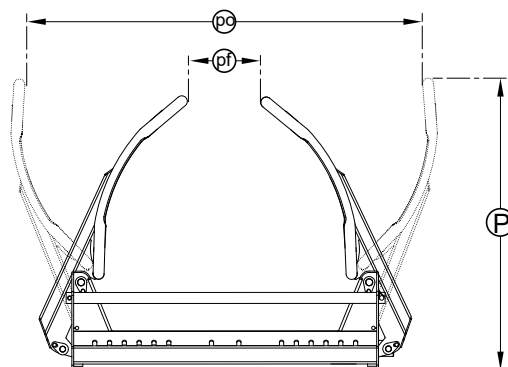
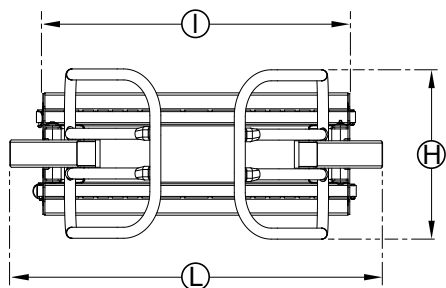


Recycling of decontaminated MX products

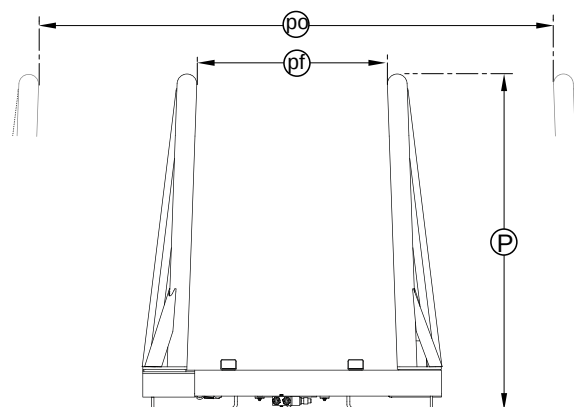
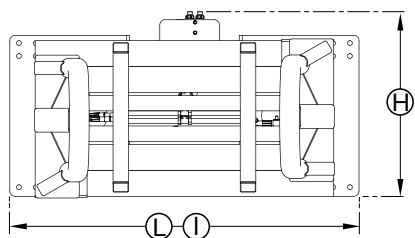
- Decontaminated MX products must be sent to authorised services for iron and metal recycling.

11. Technical specifications

C30 - C40



U40



	Manubal C30	Manubal C40	Manubal U40
Performance			
Stacking height	3 round bales H 1.20 m	4 round bales H 1.20 m	4 rectangular bales H 1.20 m
Bale dimensions	0.80 m to 1.45 m	0.90 to 1.80 m	0.80 m to 2.00 m
Max. bale weight	800 kg	1,200 kg	1,000 kg
Dimensions			
Overall height (H)	740 mm	740 mm	800 mm
Frame width (w)	1,180 mm	1,350 mm	1,345 mm
Overall width, grab closed (W)	1,180 mm	1,620 mm	1,345 mm
Depth (D)	1,220 mm	1,310 mm	1,295 mm
Distance grab closed (gc)	30 mm	320 mm	750 mm
Distance grab open (go)	1,680 mm	1,750 mm	2,120 mm
Specifications			
Weight	135 kg	210 kg	280 kg
Recommendations:			
Loader/telescopic handler	Loader	Loader and telescopic handler	Loader and telescopic handler
Loader model	from MX U503	from MX T406	from MX T406

DECLARATION OF CONFORMITY



The manufacturer:

M-extend France SAS

Registered office: 19, Rue de Rennes, 35690 Acigné (France).

Registered with the RCS of Rennes under number 639 200 260.

Hereby declares that the material :

Front loader T408evo or T408+evo or T410evo or T410+evo or T412evo or T412+evo or T414evo or T417evo or T418evo or TX420 or TX425 or TX430

or

Front loader U503 or U504 or U505 or U506 or U506+ or U507 or U508 or U508+ or U509 or U510 or U510+ or U511 or U512 or U512+ or U514 or U514+

or

Front loader A104 or A106 or A110 or F303 or F304

or

Front loader C401 or C401XL or C402 or C402XL or C403 or C405 or C407 or C403 PRO or C404 PRO or C405 PRO or C406 PRO or C407 PRO or C408 PRO

or

Loader implement BMS or BRDS or BQU or BF + GF or CGU or TR or TRu or BMSC or CGC or TRC or BT or BR or BC or BF or BMSU or BRU or BFU or CL or BRC or BFC or LC or CG or BP or SG or BB or PCS or LS or PG

or

Implement for telescopic handler loader BMSA or CGA or BTA or TR or BCA or BCDA

or

Feeding bucket BD or GDT

or

Manubal L40 or L400 or L400HD or L500 or L6000 or C30 or C40 or U40 or V40 or V60 or V500 or W500 or V400HD or V5000HD or V7000HD

or

Front linkage R04 or R05 or R06 or R08 or R09 or R10 or R12 or R16 or R20 or R28 or R38

or

Weight M250 or M400 or MM600 or MM900 or MM1200 or MM1500 or MM400AD or MBX or MXS 250 or MXS 400 or MXS 600 or BOX 100L or BOX 150L or MBX XS

or

Multibumper

or

Safety Component OPG

serial number:

please write in the box above the serial number given on the equipment's nameplate.

included in the list of serial numbers 000001001 to 999999365,
is in conformity with the Machinery Directive 2006/42/EC
and with the Supply of Machinery (Safety) Regulations 2008.

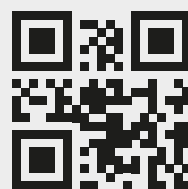
M-extend France SAS, 19 rue de Rennes at Acigné (35690), is authorised to prepare the technical file.

Acigné, 13 October 2025.

B. Gauchenot
CEO



M-extend France : 19 rue de Rennes - 35690 ACIGNÉ



www.m-x.eu

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