

MX R04N

USER MANUAL

en 373901 AC - 1026
Translation of the original manual

Dear user,

We would like to thank you for your trust and hope that you will be completely satisfied with your MX front linkage.

By taking a few minutes to read this manual, you will be able to obtain the best results from your MX front linkage, extend its lifespan and work in complete safety.

The front linkage user manual is an important document; please keep it, along with the assembly instructions provided by your dealer, so that you can refer to them if necessary. Provide it to any other users and hand it over it to any new owner should your MX front linkage be sold on.

The illustrations and technical data shown in this document might not exactly match your front linkage; operating requirements will nevertheless remain the same.

 **WARNING:** The front linkage should be handed over to the user by the dealer.

The demonstration of the equipment to be delivered should include:

— Safety rules.

— Full use of the control levers.

 **WARNING:** If either of these two requirements are not met, 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.

CONTENTS

1. **Safety rules** **6**
1.1. Safety warning pictogram 7
1.2. PPE Table (Personal Protective Equipment) 7
1.3. Non-compliance with safety and use rules 7
2. **Conditions of use** **9**
2.1. Implement hitching 9
2.2. Front notch and use on the ground 9
3. **Safety stickers** **10**
4. **Identification plate** **11**
5. **Description** **12**
5.1. MX R04N 12
6. **Hitching triangle** **13**
6.1. Implement hitching 13
6.2. Implement unhitching 14
7. **Control** **15**
7.1. Using the MX loader control valve 15
8. **Maintenance** **16**
9. **Recycling MX products** **17**
10. **Technical specifications** **18**

1. Safety rules

CAUTION: Before using the front loader, ensure that the MX front linkage is hydraulically locked and that the linkage arms are folded away or removed. (See the chapter "Setting the front linkage to the transport position").

— PPE (Personal Protective Equipment) must be worn (see the chapter "PPE table").

— Seat belts must be worn by the driver and passengers.

— The tractor – front linkage unit must only be operated by trained and experienced personnel.

— When the tractor is fitted with a front linkage and front loader, the user is required to unhitch the loader before using the MX front linkage (see the loader user manual for the unhitching procedure).

— Only operate the front linkage from the cab or using the MX factory-supplied external control levers. Ensure you remain in full control until all movement has finished.

— The control levers for operating the front linkage must be of the "hold to operate" type with the exception of the floating position, which may be maintained using a notching system.

— Do not leave the seat before locking all the control movements.

— You must ensure that nobody is in the area of the front linkage/implement unit whilst it is in use.

— Carrying or lifting persons using the front linkage is forbidden.

— Before moving with a front implement fitted, check and ensure that the tractor-front implement unit is stable by fitting a counterweight at the rear of the tractor. This should ensure that 20% of the gross weight (tractor-front implement) remains on the tractor's back axle for optimum safety while travelling and working.

— The maximum front-axle load specified by the tractor manufacturer must not be exceeded.

— The front tyre maximum safe load specified by the manufacturer must not be exceeded.

— Check tyre pressure regularly.

— An implement hitched to the front linkage must be able to be raised throughout the full range of the linkage’s travel. Any excess load preventing this movement is strictly forbidden.

— Before any operation, the user must ensure that the front linkage is in proper working order and can be used safely.

— When driving on the road with a front implement, the front linkage must always be in a raised position; compliance with road traffic rules (size, implement markings, etc.) is mandatory

— When driving on the road without a front implement, the front linkage must be in the transport position (see chapter "Setting the front linkage to transport position")

— If the tractor is to be stopped, whether briefly or for a longer period, the engine must be switched off and the linkage lowered.

— The tractor must never be towed using an anchoring point on the front linkage.

— Periodically check that the safety pins and bolts are in place. Do not replace them with any other items, such as nails or wire.

— Any fault tracing (diagnostic) work and/or removal of parts may only be undertaken by a professional, who will start by ensuring that the work can be carried out safely for both themselves and their surroundings.

1.1. Safety warning pictogram

This safety pictogram is used throughout the manual to draw attention to the risk of material damage, injury or death. If this symbol is shown, read the warning message carefully. You must be familiar with the instructions and safety regulations before installing or using the equipment.

Pictogram	Term	Description
	DANGER	Indicates an imminently hazardous situation which, if not avoided, could result in death or serious injury.
	WARNING	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
	CAUTION	Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury.
	IMPORTANT	Indicates a situation that could result in damage to equipment or property if instructions are not followed correctly.
	NOTE	Provides useful information.

1.2. PPE Table (Personal Protective Equipment)

Symbol	Meaning	Example of risk
	Protective gloves must be worn.	Cuts, trapped fingers, when unlocking the implement on the loader.
	Hearing protection must be worn.	Bucket shaking in a tractor without cab.
	Eye protection must be worn.	Splashes during high-pressure washing.
	Safety helmets must be worn.	Impacts to the head from the loader during tractor maintenance.
	Protective clothing must be worn.	Splashes during high-pressure washing.
	Safety footwear must be worn.	Crushing when positioning parking stands.

1.3. Non-compliance with safety and use rules

— MX products are designed to be used at the maximum hydraulic pressure indicated by the manufacturer in the tractor's specifications. Use of higher pressure will result in additional stress and will invalidate the MX equipment warranty.

— Never modify the hose connections.

— Breaking the seals voids MX's liability for all items supplied.

— Any MX loader assembly that does not comply with the recommendations set out in the MX price list in force on the date of purchase will void the MX warranty on all items supplied.

— Any modification to any item supplied by MX (implements, loader, frame, etc.), or installation or use of an implement or component not recommended by MX on the MX loader, will void the MX warranty on all items supplied.

— Only use original MX spare parts. Do not carry out any modifications yourself or have anyone else do so on your MX loader and its implements (mechanical, electrical, hydraulic or pneumatic specifications) without obtaining MX's prior written approval. Failure to comply with these rules may make your MX loader hazardous. In the event of damage or injury, MX may not be held liable in any way.

— Warranty cover will cease immediately in the event of failure to observe the standards and instructions for MX loader use and maintenance as stipulated in the user manual. MX may not be held liable for any accident resulting from actions contrary to these restrictions.

2. Conditions of use

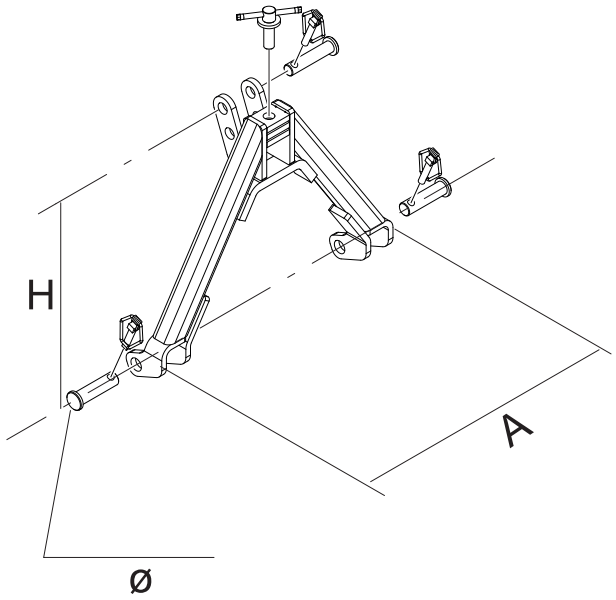
Implement hitching

The front linkages are designed to receive implements that comply with the hitch dimensions standardised in ISO 730-1 for category 1N.

The spacing between the implement's hitch points must be 436 mm (dimension A, standard cat. 1N) with a 22 mm diameter (Ø D) hitch pin. The implement's vertical height must be 360 mm (dimension H).

CAUTION: Hitching an implement with a dimension H under that specified above will overload the 3rd link bar, causing damage to it.

CAUTION: Hitching an implement with a dimension H over that specified above can cause damage to the front of the tractor (bonnet, guard, etc.) on lifting.



A = 436 mm

H = 360 mm

Ø = 22 mm

2.1. Front notch and use on the ground

The implement must be hitched as close as possible to the attachment points on the front linkage. The longitudinal overhang effectively generates considerable stress on the front linkage (leverage effect). The more compact the implement mounting, the less strain there will be on the equipment. Use of a compact implement also improves lifting performance.

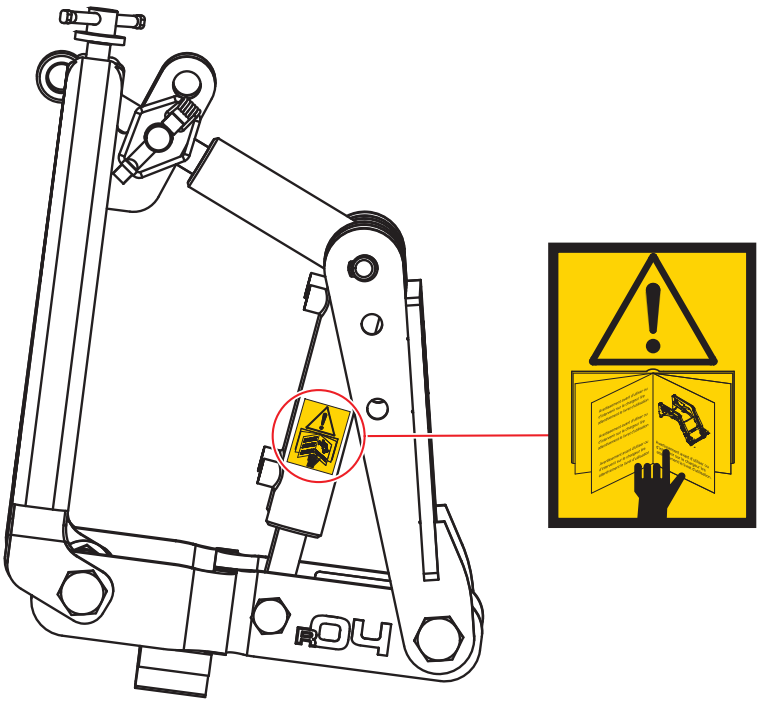
For pushing work (such as soil decompaction or dozer blade implements), it is strongly recommended that a push bar be fitted to reinforce the tractor from the front linkage to the rear trumpet housings.

CAUTION: The conditions of use for implement hitching and use on the ground must be strictly complied with. Any deviation from the conditions may cause serious damage for which MX may not be held liable.

3. Safety stickers

A safety sticker is affixed to the front linkage. Ensure that this sticker remains clean and legible; replace it if damaged.

When changing a sticker, clean the surface used for the sticker with isopropyl alcohol and affix the sticker using a special tool.

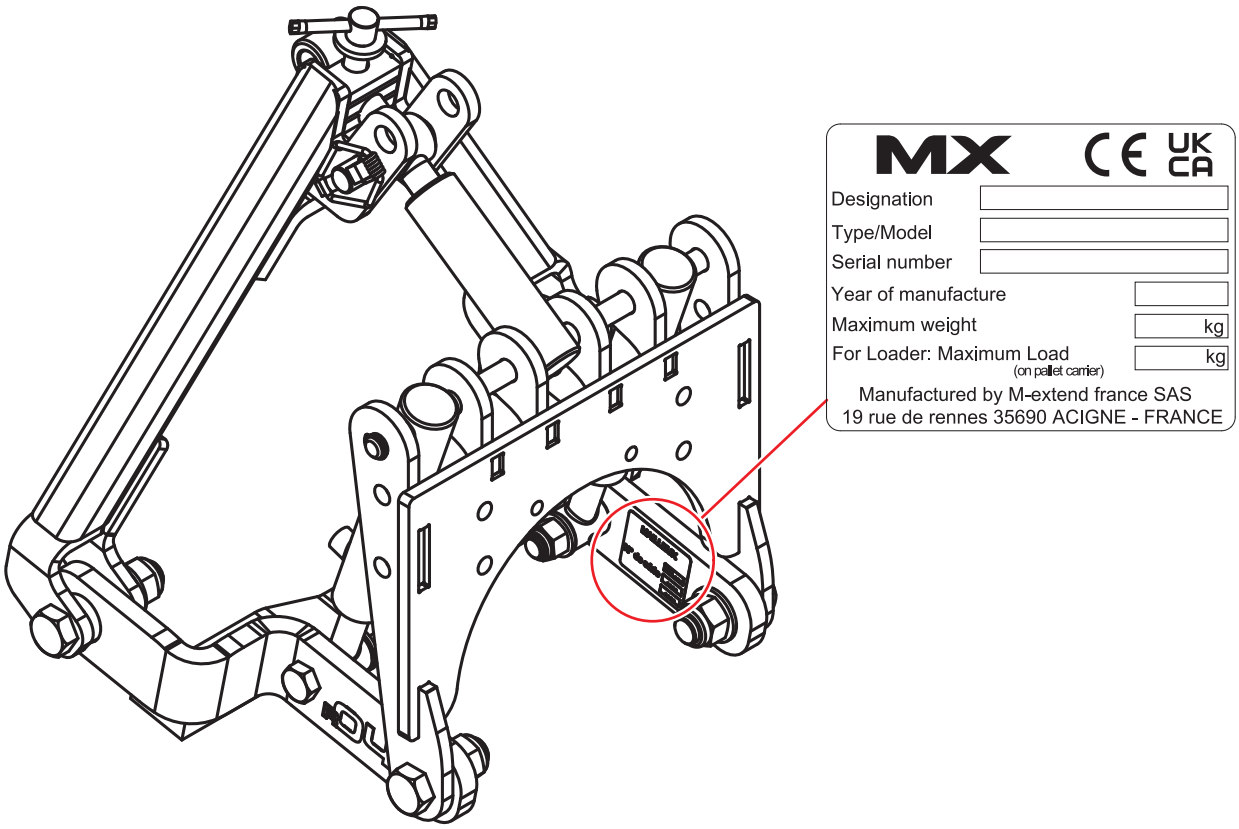


Symbol	Meaning
	Read the safety rules in the user manual before using the product.

4. Identification plate

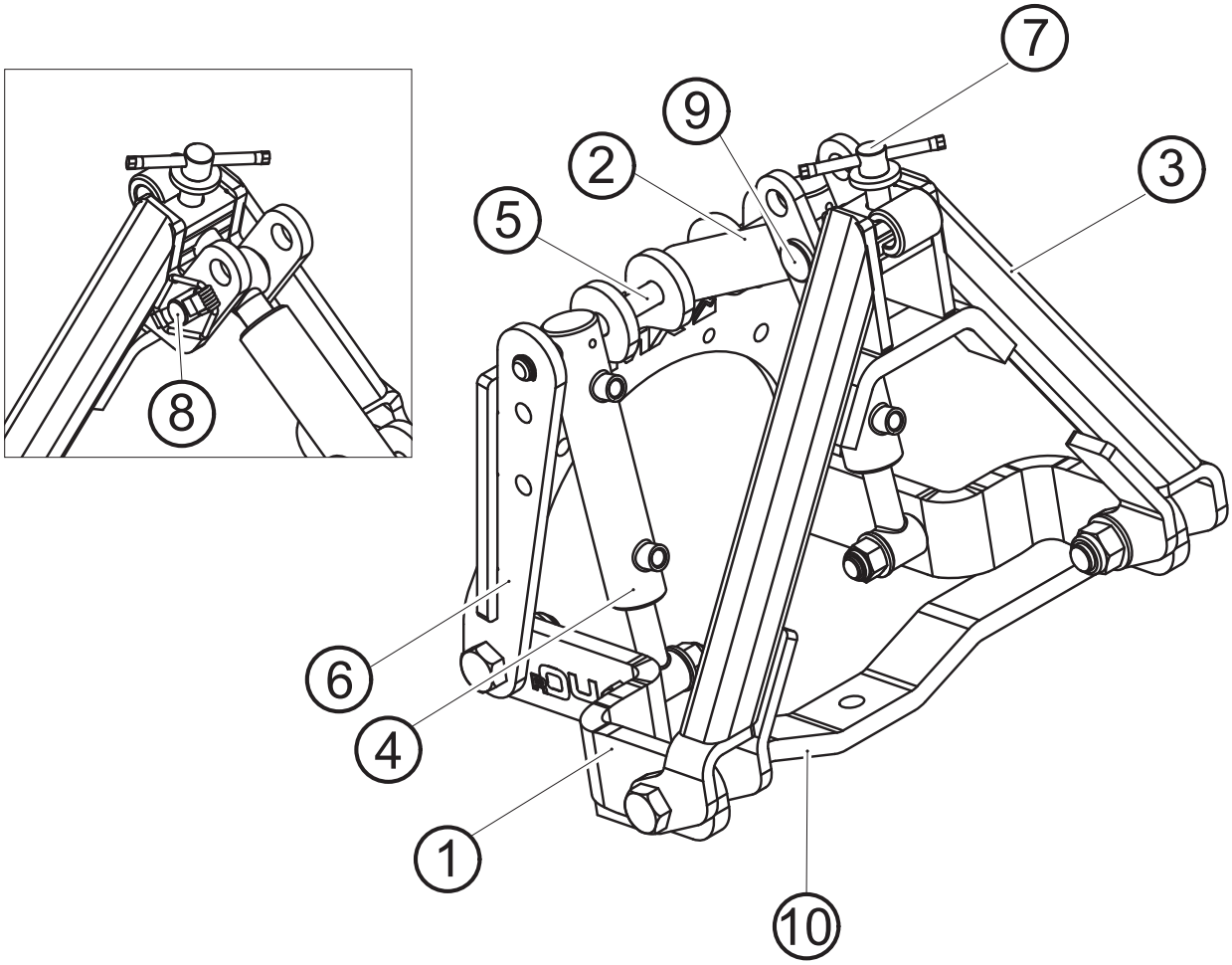
The identification plate is located on the right-hand side of the front linkage frame.

The serial number and front linkage model shown on this plate must be quoted in any request for information, spare parts or technical support.



5. Description

MX R04N



Marking	Description
(1)	Linkage frame arm
(2)	3rd link bar
(3)	Triangle
(4)	Ram
(5)	Ram pin
(6)	Frame
(7)	Locking pin
(8)	Safety clip
(9)	Shoulder pin
(10)	Linkage frame cross-member

6. Hitching triangle

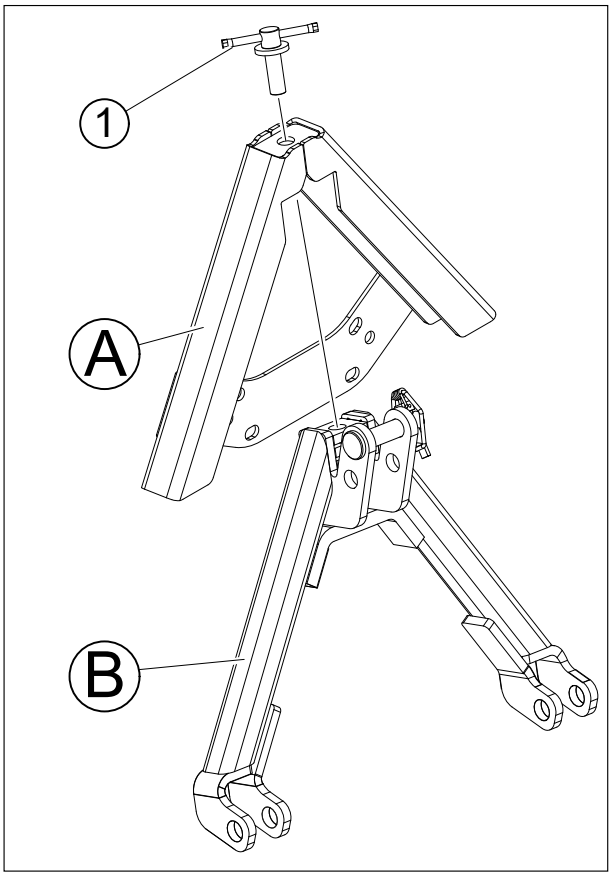
Implement hitching

To hitch an implement:

— Attachment of the female triangle (A) onto the implement – each implement will have its own female triangle.

— Fit the male triangle (B) into the female triangle (A).

— Screw the pin (1) back in to lock the triangles together.



— Adjust the 3rd link bar, if necessary.



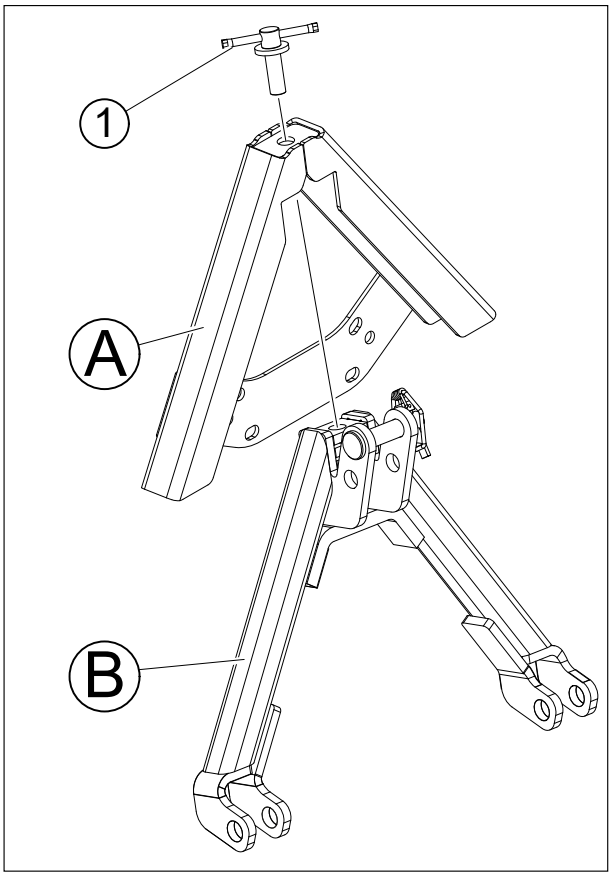
Implement unhitching

To unhitch an implement:

— Unscrew the pin (1) locking the triangles together.

— Detach the male triangle from the implement's female triangle (A).

— Screw the pin (1) back into the male triangle (B).



7. Control

Using the factory-fitted control valve on the tractor. See the tractor's user manual.

7.1. Using the MX loader control valve

— To move the MX linkage up or down, move the monolever forwards or backwards.



8. Maintenance

WARNING: Drain the tractor's hydraulic circuit regularly and change the filters in accordance with the manufacturer's recommendation.

Contaminated oil no longer lubricates and can cause damage to all hydraulic components (pumps, control valves, rams, etc.); even clear-looking oil may be worn out.

Check screws for tightness after 10 and 50 hours of operation, and every 100 hours thereafter, respecting the recommended tightening torque.

Before and after each use, check for any hydraulic leaks and ensure that all pins and locking pins are in place.

9. 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.

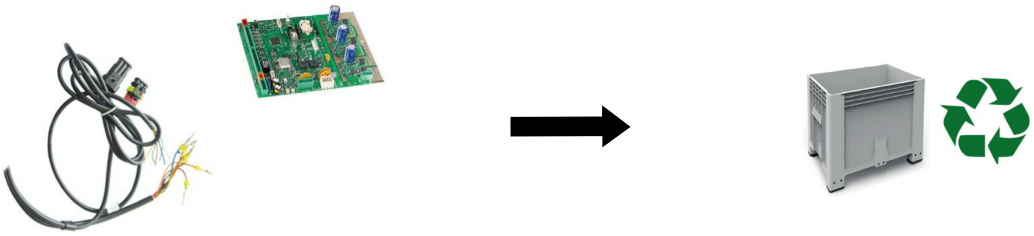
— The steel end caps must be recycled as scrap by approved facilities.

— 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.

10. Technical specifications

	R04N
Specifications	
Front linkage category	Cat. 1N with triangle
Lifting capacity at the ends of the linkage arms*	400 kg
Lifting capacity with the implement's centre of gravity positioned 610 mm forward of the coupling balls	300 kg
Theoretical arm spacing (inside the arms)	405 mm
Height of linkage arms from the ground*	
in low position (1)	< 150 mm
in high position (2)	> 250 mm
Hitching hooks	-
3rd link bar/length	Cat. 1 / 345 to 500 mm

* Average figures. They may vary in line with tractor specifications.

** Option available subject to tractor - front linkage compatibility.

DECLARATION OF CONFORMITY CE UK CA

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 WBC 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 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 2026.



B.Gauchenot
CEO

part of **M-extend**

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

www.m-x.eu

© MX, part of M-extend