

Innovation moves mountains; it makes the world turn. We will never stop coming up with new features, striving to improve our current technology and adapting to changing realities and constraints faced; we will excel. Innovation lies at the very core of what our company stands for.

OUR TRADITION INNOVATION IN MOTION 12/



SIMPLICITY + VERSATILITY = PROFITABILITY OUR VISION

Expertise is born out of experience. Ours is based on the concept that you cannot even begin to consider profitability without first taking into account ease of use combined with operational versatility. When just one driver operating just one machine can handle a wide range of tasks on the same work site with no complicated handling maneuvers to worry about, you begin to completely reconsider what you can achieve in the time you have to work with.

DIGGING

LOADING





Combining proactive listening and practical, relevant industrial solutions is the Mecalac approach, meaning we can better size and customize our offers and machines. Our single professional aim is to be partner in the continuous success of each one of our customers and to ensure our products serve as good ambassadors for their companies.

OUR MISSION OFFER EACH CUSTOMER THE SOLUTION THEY NEED



OUR CONVICTION



The best that technology has to offer is useless without a composed, well-rested and focused human operator sat in the driver's seat. Making him/her feel comfortable and confident by maximizing cockpit safety is vital to generating rewarding working conditions and fostering entrepreneurship.

PEOPLE ARE THE TRUE POWERING FORCE BEHIND ANY WORK SITE

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THE UNIQUE CONCEPT BEHIND THE 12MTX GIVES SYNERGY A NEW MEANING.

The 12MTX could be considered Mecalac's calling card: innovation, technology, choice of materials and mechanical intelligence are at the forefront of our design in an attempt to continuously improve our products and provide solutions to the constantly evolving needs of our customers. Where the Mecalac 12MTX on wheels preserves the core yet ground-breaking features which have made the base concept such a success, it can now offer various improvements for even better ergonomics, safety, flexibility, functionality, and reactivity. For both urban and suburban environments, as well as the individual demands of your work site, the 12MTX guarantees maximum profitability thanks to its unprecedented performance and simplicity of use, ushering in a new generation of compact, versatile equipment for the construction sector.

SUMMARY

Section 1

13 DRIVING





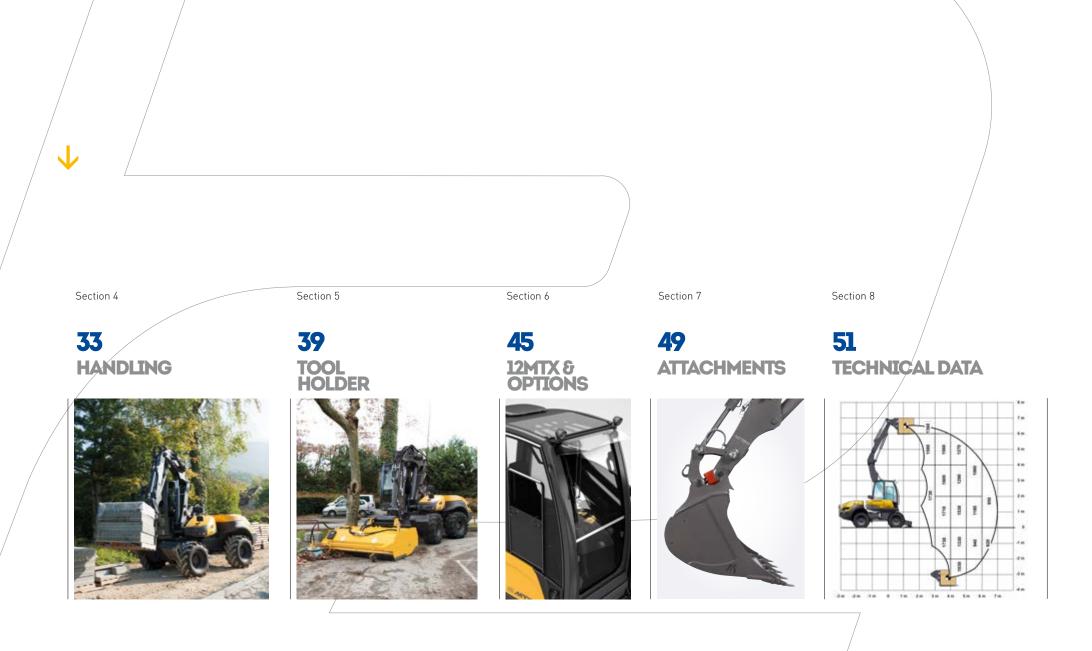
21 DIGGING



Section 3

27 LOADING







Behind the controls of the 12MTX, the driver has a perfect view of the work site and can simply, effectively, and independently perform a number of actions and tasks in the safest of environments. From the incredibly spacious cab to the redesigned steering wheel, heating and air conditioning, sliding swing door, refrigerated storage space, and extendable steps, not to mention intuitive piloting and other customizable parameters, the 12MTX can only be described as revolutionary.

INTUITIVE, PRECISE STEERING

With the 12MTX, it's virtually impossible for the driver to make mistakes. Using the selector, every machine function can be viewed in real time on the 7" color screen. Both reassuring and effective, there is an actual programmable computer on board which allows users to



customize and retain driving parameters for three different drivers in addition to the preset factory mode. On each side, left and right consoles offer great convenience and practicality of use for the multiple functions and options shown in easily readable and understandable icons.

PARKING OR ON ROAD MODE. TRULY EFFORTLESS!

Using the selector, you can change .from on-road mode to parking mode in one single movement. Forget about the high beam headlights and rotating beacon, unlocking axles and inspection regimes. There's no need to worry about the brakes, switching the gearbox into idle, deactivating the foot throttle and locking controls. Everything is done instantaneously and automatically by selecting the desired application, ensuring a perfect and incredibly safe driving experience on your work site.





The figures



SEE FURTHER BEYOND

Constantly keeping an eye on what you're doing with the machine while trying to focus on the work site is a high responsibility. With the 12MTX, we've made the driver's direct line of vision a priority. At the rear the hood lines have been studied and improved, the rounded window is now a single pane for less obstructed view, and the Mecalac boom lifting system, once engaged, frees up vision on the sides. The windshield is fully removable and, together with a door window which can be opened, means the driver can remain in constant contact with the outside if needed. And thanks to the multi-level steering column, the steering wheel is never within your visual perimeter of the working area. Then, when you add the rear view mirrors and cameras* to the equation, the cab could only be described as... visionary.

*optional attachments. See pages 45-46-47

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COMFORT AND SPACE

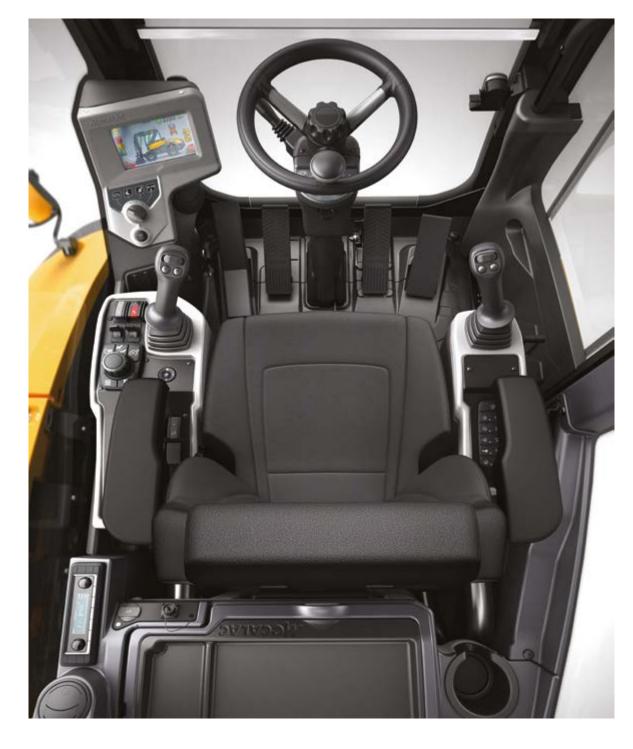
Not only have we improved the comfort of the driving experience, we've redefined it. In addition to the more spacious cab and adjustable pneumatic seat*, the driver, regardless of his/her size, is sure to be more comfortable than ever: heating and air conditioning*, soundproofing and a sunroof, wide armrests and multiple storage compartments, tinted windows and a redesigned wheel steering, a sliding swing door and even a refrigerated compartment*. From the perfectly integrated threshold to the molded floor mat, no detail has escaped Mecalac when designing this cab which meets all interior and external performance needs.

*optional attachments. See pages 45-46-47



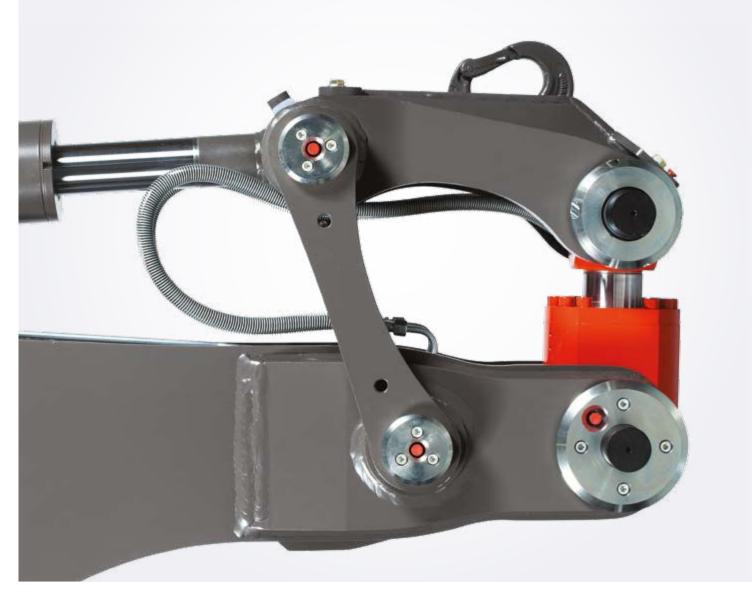






CONNECT





SAFETY? EVERYTHING YOU NEED WITH OPTIONS TO SPARE

Optimizing safety for both the operator as well as the whole of site personnel was at the core of the specifications we wished to implement. In the end we've managed to minimize the risk of accidents occurring by setting the 12MTX up with innovative standard equipment. In addition to placing the cab on the right-hand side, allowing to carry out service tasks from the ground, the oscillation lock on the brake pedal automatically ensures machine safety while the driver is focusing on the task at hand. As for the integrated cameras which were added by popular demand, they are perfectly integrated with the control monitor to display external views once the reverse gear is engaged. Another innovation, Mecalac introduces CONNECT, a new quick coupler system. It can be operated from the cabin. Designed to work in both directions, the loss of an attachment is virtually impossible, during the locking or when working in excavator mode or in loader mode. It's the safest and most performing quick coupler system on the market.



"FEET ON THE GROUND" MAINTENANCE





STEPPING UP TO SAFETY

Stepping up and down from the cab is the source of too many work site accidents. There should not have accidents anymore due to slipping on a tire while climbing into the cab. No issues anymore, thanks to Mecalac's patented solution which is now standard for the 12MTX. The step automatically unfolds below the cab entry whenever the operator lifts the console to exit the vehicle. The driver steps out to find a ledge directly underneath his/ her feet. When lowering the console, the step slots back perfectly within the machine's width. Whoever said you had to sacrifice safety for comfort?





The only articulated excavator in the world has completely changed how we view the various methods of digging. Working in extremely tight and compact areas, this model has proved that a machine is only as effective in an urban environment as it is flexible, powerful and versatile. With the 12MTX you no longer have to worry about constantly maneuvering to be in the ideal position for sites where space is tight, in sensitive environments or when opening trenches behind a barrier or along a wall. All of this without infringing on thoroughfares and with remarkable, visible precision.

DRIVING

MORE 5 MORE





AT ARM'S LENGTH

The unique kinematics built-in to the Mecalac articulated boom allow you to work from either directly beside the vehicle to up to 7m (23') away in a single operation. Amplitude combined with record precision and working power allows for easy and effective digging operations, whether up close or far away. Efficiency is a standard feature with the 12MTX!

COUPLE UP!

The patented Mecalac cylinder coupling function, allows to synchronise the boom cylinders for perfect movement coordination and precision. Selectable for both digging and loading operations, it makes driving and handling easy, regardless of whether the operator is a novice or more experienced. Whether engaged or otherwise, it's yet another powerful feature along for the ride.



FREEDOM OF MOVEMENT

With a full 360° swing within 2.80m (9'2") and an outstanding boom tilt angle (140°), the 12MTX only needs one road lane in urban environments to carry out its work. Traffic can continue with a minimum of interruptions, with the operator being able to work closer to the various obstacles he/she comes across (buildings, street lighting, plants, etc.) while ensuring pedestrians are not placed at risk. The 12MTX offers efficient, effective compactness, with 100% of its operations and functions available and minimum impact on the overall working environment for inner city work sites.









MECALAC PATENTED CYLINDER COUPLING FUNCTION

MOVEMENT-FREE DIGGING

Weighing nearly 10 tons and featuring unparalleled dexterity, the 12MTX is the champion in your corner for work sites where room to maneuver is at a premium. Featuring reduced, well-integrated offset and a three-piece articulated boom, allowing you to work outside of the machine footprint area, it's the perfect combination of power and flexibility. Even performing digging from behind an obstacle, for example with the machine positioned parallel to a wall, is no problem, all the while offering excellent economy of movement.



If you are in the market for a powerful, quick, precise loader, then look no further than the 12MTX. Whether the bucket comes equipped with or without teeth or working with a 4x1 multipurpose bucket, the 12MTX rises to the occasion each time: being able to take on loads without clogging up roads or construction sites or having to perform an excessive number of maneuvers to reach its goal. All of this with XXL loading capacity!

MORE EFFICIENCY ESSIFEORT REQUIRED



MORE SMORE

- STATIC LOADING
- BUCKET VOLUME OF 750 LITER
- UNIQUE DUMPING HEIGHT
- FULL 360° UPPER STRUCTURE ROTATION





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WITH THE WORK SITE IN FULL VIEW

With the boom positioned to the left of the cab and even with a large capacity bucket dumping into a 5m (16'5") high truck, the operator maintains perfect visibility during each handling operation. The kinematics built-in to the Mecalac articulated boom mean loading and unloading maneuvers can be performed such that the operator's field of vision is not obscured by the boom structure. Combining safety with efficiency, wasn't that the secret formula for profitability?







360° OF FREEDOM

There's nothing better than maximum efficiency. Thanks to full 360° rotation, the 12MTX optimizes work site operations while minimizing machine movements. Wave goodbye to unnecessary movement and handling operations, say hello to speed and efficiency. Sanding, loading, dumping-there's nothing it can't do. Static loading is also an option due to the dipperstick cylinder being placed in a lower position, offering unmatched strength for both lifting and thrust. Whether working from a pivot position or stationary, the 12MTX will get your work site moving at a faster pace.





IN HEIGHT

DURING LOADING AND DUMPING OPERATIONS

[16'5'']



RANGE AND VERSATILITY

The excellent range provided by the Mecalac three-piece articulated boom is a revolution for loading operations: dip effortlessly into the back of a truck, backfill from behind an obstacle, recover material from underfloor spaces (e.g. pits, swimming pools, etc.) all with unprecedented ease thanks to the Mecalac boom and a fully rotational upper structure. There's also the added perk of cleanliness: you no longer have to dump a truck's worth full of sand, dirt or gravel prior to using the materials, again thanks to the 12MTX rotational upper structure. It's just one more reason why the 12MTX is your best bet for overcrowded work sites or pedestrian areas.

STAY IN CONTROL

At all times the operator is in complete and simple control of the 12MTX. The controls located on the joysticks operate the loader interface allowing selection of the travel direction. Additionally engine speed can be controlled using the inching foot pedal which also functions as a driving interface. And, for optimal driveability, the driver/operator has access to all operations on demand without even releasing controls. The operator has virtually complete control over the driving direction and upper structure rotation at his/her fingertips.



Lifting, laying, moving, unloading, storing... The 12MTX sets the pace for work site logistics and makes execution easy. Up or down, whatever the challenge-the 12MTX can handle it and then some more. It's capable of working side-by-side with trucks, or carrying a pallet loaded with material and laying it to rest on the other side of a wall, or even next to the machine itself, whatever you need. Ultra-flexible, versatile: the 12MTX brings profitability and a touch of comfort to complex work sites and/or confined spaces.

HEIGHTENED PERFORMANCE FROM +6MTO -3M [+19'8" TO -9'10"]



MORE 5 MORE









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UNRIVALED WEIGHT/ LIFTING POWER RATIO

The unique architecture behind the 12MTX makes it a powerful and precise piece of handling equipment, capable of lifting up to 4 tons. The center of gravity has been positioned to exert a positive influence on lifting performances. The engine is located in the rear of the vehicle, offering a removed counterweight for greater freedom of handling and movement with larger loads. This weight design is particularly notable on work sites where handling applications are performed.





[FROM -9'10" TO +19'8"] FROM -3M TO +6M

REMOVING THE PROBLEM OF REMOVALS

Reducing handling time is too often a headscratcher at best and an unsolvable puzzle at worst, with the 12MTX ready to step in and revolutionize logistics for your work site. You can now move pallets directly into pools or onto foundations, with the machine retracting the fork, leaving the pallets in place. The articulated boom even allows you to handle the pallet in minimum distance to the machine. Could it be any easier?





LOADS OF UP TO 4 TONS

TIRES FIRMLY PLANTED

Despite weighing over 9 tons, the 12MTX is capable of taking on all types of terrain, regardless of the weather. We understand that work sites often have their ups and downs, and the stability of the machine in movement is of the utmost importance. With its articulated undercarriage, low center of gravity, 4-wheel drive and 5 different sets of tires at choice, the 12MTX is sufficiently grounded to ensure precision and control over where you're going. The driver can comfortably carry out his/her work, free from any rebound effects whilst in motion. And regardless of the maneuvers being performed or the surrounding environment, the 12MTX does an extraordinary job of keeping its balance.



The tool holding function comes into its own with the 12MTX. No longer just simple attachments, advances have been made in increasing simplicity as well as efficiency thanks to dedicated innovations. The memory function of several attachments hydraulic flow rates, making repeated manual settings unnecessary. The speed control function allows the driver to individually set the maximum speed required. Combining the benefits of a tool carrier with a perfectly balanced and articulated undercarriage along with our boom and dipper performance while being able to adapt to the particular demands of each tool and making work that much easier-who else but Mecalac?

THE QUIET STRENGTH OF VERSAULTRY







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AN ATTACHMENT TO PROFITABILITY

Turning the 12MTX into a planer, flail mower, sweeper, or mounting a hydraulic hammer in seconds with minimum fuss is one of the great strengths of the Mecalac patented quick attach system. The driver is able to change each hydraulic attachment easily, safely, and with complete control, leading to a significant increase in productivity which positively effects the profitability of your working site.

MEMORY MASTER

Using the flow rate memory function, the 12MTX's abilities as a tool carrier become even more impressive: you can save up to 6 different profiles/tools for quick, easy, and intuitive switching which makes the operator's job that much easier, in addition to no longer having to spend time recalibrating settings and the impact on productivity and work comfort this entails.







[0.19 TO 19.9 MPH]

NO NEED TO THINK TWICE

Why should you have to compromise between a steady flow and precise progress? The new speed control system allows for ultra-precise adjustment to the constant maximum speed: from 0.3, 0.6, 0.9 (0.19, 0.37, 0.56 mph)... up to a maximum of 32 km/h (19.9 mph). The driver has complete control over the movement speed of the engine and can fully concentrate on operating tools. This innovation, which is easy to configure, enable, and disable exponentially raises the value of the 12MTX's tool holding function.







COMPACTOR PLANER CUTTING BLADE HAMMER FLAIL MOWER TRIMMER

THE CUSTOMIZABLE WORK SITE

With the 12MTX, comfort and precision come together when using hydraulic tools, taking full advantage of the technology developed for its digging and loading functions. The Mecalac boom structure allows you to set the work attachment in an optimal position to apply force in the right direction, preserving the state of the equipment used and limiting interruptions to traffic caused by the presence of the machine. The articulated undercarriage guarantees perfect maneuverability, reducing the amount of movement required and making getting around the work site that much easier.



The 12MTX comes standard equipped with a number of features, while at the same time remaining attentive to the specifications required by various different types of customers: landscape and earthwork contractors, public works professionals, municipal authorities, etc. So, from the color scheme to the choice of tires, heating/AC or cameras, not to mention to the various attachments, buckets, and hydraulic tools which can be used, there are many different ways to tailor your 12MTX to your brand and business.

YOUR1 & AVAILABLE OPTIONS

12MTX STANDARD EQUIPMENT

UNDERCARRIAGE

Articulated with 4-wheel drive, each being of equal size and equipped with Alliance 405/70-20 14PR 317 tires, oscillating rear axle with cab-controlled lock, limited slip differential on both axles

Integrated oil-bath multi-disc brakes on both axles

Closed circuit hydrostatic transmission

Speed change, 0 to 32 km/h (0 to 19.9 mph) with exclusive Speed Control system to define the maximum speed

Outriggers separately proportionally and electrically controlled

ENGINE

DEUTZ TCD 3.6 "common rail" turbocharged engine, with chilled air inlet, 4 cylinders, water cooling. Engine meets U.S. EPA Tier 4 Final / EU Stage V emissions standards.

KINEMATICS

Variable adjustment boom with 4 parts; boom cylinder assembly on parallelogram; hydraulic left/right offset; stick

CONNECT hydraulic quick attach, a Mecalac exclusive

LUBRICATION

Centralised, manual single point for the whole of the parallelogram boom

4 OPERATING MODES

4 operating modes: Park, Excavator, Loader and Road Controls carried out via proportional, ergonomic joysticks Advanced customization of various modes and controls

THE CAB - COMFORT AND SAFETY

Cab access via an extendable step, a Mecalac exclusive

A 7" VGA color screen for control over safety components and machine functions.

Cab with wide view and premium comfort and ROPS/FOPS standard-compliant with:

A sliding swing door, a Mecalac exclusive

A removable front windshield, partially or fully, an exclusive Mecalac feature

A sliding glass door

A roof hatch

Steering column with three adjustment controls: 2 for tilt, one for steering wheel height

Storage space with separate container

ISO 10263-compliant heating with 6 separate vents

Position adjustable, seat adapts to the shape of the operator

Radio-ready installation and 12V power supply

NEW QUICK COUPLER: CONNECT

The new Mecalac quick coupler is compliant with the latest regulations of the EN-471-1 and introduces a new standard, anticipating an even greater safety.



PRODUCTIVITY



Reversibility as standard, adapted to all attachments and to the four functions of our machines

Simple pick-up of attachments, optimum understanding and visibility, in both directions

Maintenance-free, no need for additional lubrication, reduced risk of failure

The advantage of a compact and light coupler was used to enhance the bucket volume: +10%

Transport of 3 digging buckets (400-600-900) on the ditch-cleaning bucket*

* Not allowed on roads.

SAFETY

Impossible for a bucket to drop, once lifted off the ground no matter if locked or not, regardless of the direction of the tool, a "hook" system preventing a drop of the bucket, integration of a safety-valve in the cylinder

Continuous detection of the cylinder position, "real time" measurement of the locking of the accessory, associated with an acoustic warning signal in the cab

Automatic hydraulic compensation of play by an over-dimensioned length of the cylinder rod

Simple user interface, avoiding any risk of mal-operation

RELIABILITY

Use of 500 hb steel for the eyehooks, the steel used for the buckets is of the worldwide highest durability

100% Mecalac: the machine, quick-coupler and attachments: designed to work together. CONNECT is dedicated to Mecalac

Standard and optional equipment may vary. Consult your Mecalac dealer for details.

OPTIONS TO TAILOR YOUR 12MTX TO YOUR NEEDS

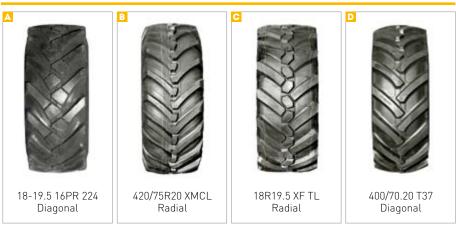
CUSTOMER COLORS

If you'd like to have your Mecalac 12MTX painted in your company's colors? Personalize your Mecalac with your own RAL codes.

Colors samples



TIRES



QUICK COUPLERS

CONNECT quick coupler fitted with a hook

Direct coupling system, for mounting attachments on the stick with pins.

ADDITIONAL COUNTERWEIGHT +400KG (881 LB)

ELECTRIC DIESEL REFUELING PUMP

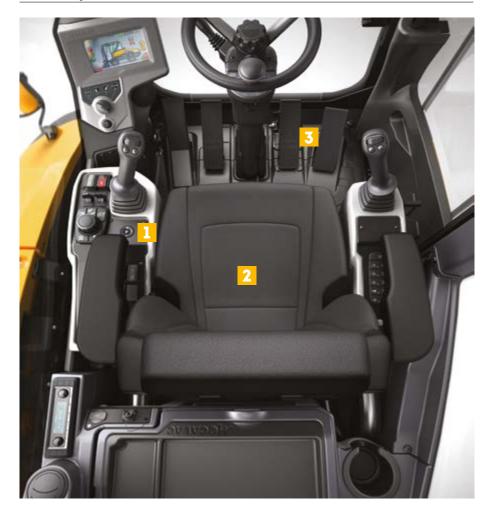
FLEET MANAGEMENT PREDISPOSITION

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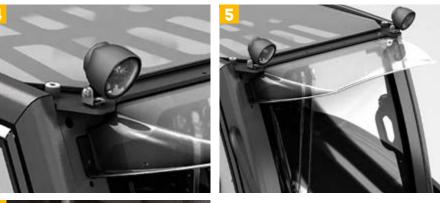
OPTIONS TO TAILOR YOUR 12MTX TO YOUR NEEDS

THE CAB - COMFORT AND SAFETY

- Heating and air conditioning
- 2 Heated pneumatic seat
- 3 Double pedals (inching/brake)
 - Rotating beacon, traditional or LED



- Additional front working light, LED
 Rear working light, LED
- 5 Cabin sun visor
- 6 Radio 2 speakers, USB, Bluetooth
- Anti-theft device electronic immobilizer with 6 keys
- 3 or 4 safety valves
- Lifting-type approval for handling activities France only
- Back-up alarm, traditional or white noise





ENGINE

Diesel Particulate Filter, DPF (standard in Europe)

Automatic engine idle shutdown

AUXILIARY LINES

A	Auxiliary Line 1 (standard, proportional)
В	Auxiliary Line 2: Diverted offset cylinder for rotating function of a clamshell
С	Auxiliary Line 3: Diverted bucket cylinder for opening / closing function of a clamshell
D	Hammer return line



Standard and optional equipment may vary. Consult your Mecalac dealer for details.

LUBRICATION

Centralized, manual, single point lubrication for the boom and stick Centralized automatic lubrication for the boom and stick Biodegradable hydraulic oil

REAR SAFETY BAR



PALLET FORK OR OTHER 3RD POINT TOOLS ADAPTATION PREDISPOSITION FOR OUTRIGGERS





WORK TOOLS AVAILABLE WITH CONNECT QUICK COUPLER

DIGGING BUCKETS

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TYPE	WIDTH mm (ft in)	number of teeth	VOLUME l (yd³)	WEIGHT kg (lb)
	350 (1'2")	3	150 (0.20)	204 [449]
	450 (1'6")	3	190 (0.25)	222 [481]
DIGGING BUCKET with teeth	600 (2')	3	275 (0.36)	255 (562)
DIGGING BUCKET with teeth	750 (2'5.5")	4	360 (0.47)	292 [643]
	900 (2'11")	5	450 (0.59)	328 (723)
	1200 (3'11")	5	630 (0.82)	393 (866)
	350 (1'2")	-	150 (0.20)	188 (414)
	450 (1'6")	-	190 (0.25)	207 (456)
DIGGING BUCKET with no teeth	600 (2')	-	275 (0.36)	239 (526)
DIGGING BUCKET with no teeth	750 (2'5.5")	-	360 (0.47)	272 (599)
	900 (2'11")	-	450 (0.59)	304 (670)
	1200 (3'11")	-	630 (0.82)	368 (811)

ECHMENTS

LOADER BUCKETS

ТҮРЕ	WIDTH mm (ft in)	number of teeth	VOLUME l (yd³)	WEIGHT kg (lb)
LOADER BUCKET with teeth	2250 (7'5")	7	750 (1.00)	412 (908)
TOOTH PROTECTION	2250 (7'5")	-	-	19 (41)
LOADER BUCKET with no teeth	2250 (7'5")	=	750 (1.00)	390 (859)
BLADE GUARD	2250 (7'5")	-	-	10 (22)

4X1 BUCKET

ТҮРЕ	WIDTH mm (ft in)	number of teeth	VOLUME l (yd³)	WEIGHT kg (lb)
4X1 BUCKET with teeth	2200 (7'3")	7	540 (0.71)	640 (1410)
TOOTH PROTECTION		-	-	11 (24)
4X1 BUCKET with no teeth	2200 (7'3")	-	540 (0.71)	617 (1360)
BLADE GUARD		-	-	7 [16]
BOLTED COUNTERBLADE FOR 4X1 BUCKET with no teeth 7 boreholes - center-to-center borehole distance 330	2200 (7'3")	-	-	62 (136)
4X1 BUCKET CONNECTION SET, 2 FLEXIBLE JOINTS	-	-	-	5 (11)

NARROW BUCKET

ТҮРЕ	WIDTH mm (ft in)	number of teeth	VOLUME l (yd³)	WEIGHT kg (lb)*
NARROW BUCKET	300 (1')	3	80 (0.10)	219 [482]

DITCHING BUCKET

ТҮРЕ	Specifications	WIDTH mm (ft in)	VOLUME l (yd³)	
DITCHING BUCKET		1800 (5111)	400 (0.52)	350 (771)
BOLTED COUNTER BLADE for DITCHING BUCKETS	borehole center-to-center distance 152.4 (6'')	1800 (5111)	-	47 (103)

TILT DITCH CLEANING BUCKET

TYPE	Specifications	WIDTH mm (ft in)	VOLUME l (yd³)	WEIGHT kg (lb)*
TILT DITCH CLEANING BUCKET	2x Linear cylinders, 2x 45°	1800 (5'11")	516 (0.67)	725 (1,598)
BOLTED COUNTER BLADE	borehole center-to-center distance 152.4 mm (6 in)	1800 (5'11")	-	51 (112)

DIGGING BUCKET WITH GRAPPLE

TYPE	Specifications	WIDTH mm (ft in)	VOLUME l (yd³)	WEIGHT kg (lb)*
GRAPPLE BUCKET	2 hydraulic thumbs	900 [2'11'']	450 (0.59)	492 (1085)

PALLET FORK

TYPE	Specifications	WEIGHT kg (lb)*
PALLET FORK	to be used with 4 safety valves	351 (773)
PALLET FORK USING OUTRIGGERS adaptation predisposition with 3 rd point for other hydraulic tools	to be used with 4 safety valves	406 (895)

HANDLING PLATE WITH HOOK

TYPE	Specifications	WEIGHT kg (lb)*
HANDLING PLATE with hook	to be used with 3 safety valves	64 (141)

HYDRAULIC HAMMER

ТҮРЕ	Specifications	HEIGHT mm (ft in)	BLOWS PER MINUTE (bpm)	NOISE LEVEL (dB)	WEIGHT kg (lb)
MB40 HYDR. HAMMER / Light application	With blunt, chisel or pyramidal type tool options	1374 (4°6″)	700 - 1540	124	304 (0,670)
MB50 HYDR. HAMMER / Heavy application	With blunt, chisel or pyramidal type tool options	1494 [4'11"]	700 - 1440	123	365 (0,805)

HANDLING JIB

TYPE	Specifications	WEIGHT kg (lb)*
HANDLING JIB	length 4100 mm (13'5"), lifting capacity 500 Kg (1102 lb) to be used with 4 safety valves	140 (308)
DIDDED TOOTH		

RIPPER TOOTH

ТҮРЕ	WEIGHT kg (lb)*
RIPPER TOOTH	192 [423]

CLAMSHELL BUCKET SUPPORT

ТҮРЕ	WEIGHT kg (lb)*
SUPPORT PIECE FOR CLAMSHELL BUCKET	67 (148)

SKID STEER ADAPTER

TYPE	WEIGHT kg (lb)*
ISO 24410 mounting hitch for Universal Skid steer attachments	127 (280)
HAMMER PLATE	
HAMMER PLATE	

TYPE	Specifications	WEIGHT kg (lb)*
HAMMER PLATE no boreholes	-	104.5 (230)
HAMMER PLATE with boreholes	contact your dealer	105.5 (233)

*Weight taken with machine in full running order with full fuel, standards tires and operator.

YOUR 12MTX TECHNICAL DATA

WEIGHT Weight taken with machine in full running order with full fuel, standards tires and	DATA 9700 kg (21,384 lb)
operator	5
ENGINE Turbo charged engine with intercooler, EGR valve, catalytic converter (DOC) and Selective Catalytic Reduction (SCR) systems, complying with emissions standards Brand 4 in-line diesel cylinders	EU Stage V U.S. EPA Tier 4 Final* DEUTZ TCD 3.6L4
Power: DIN 70020	85 kW (115 hp - 114 imperial hp to 2200 rpm
Max. torque	460 N.m (339 ft.lbf) at 1600 rpm
Displacement	3621 cm ³ (221 in ³)
Cooling system	Water
Dry/cartridge cyclonic air filter	•
Machine external sound level	101 dB
Fuel tank capacity	140 l (37 gal)
ELECTRICAL SYSTEM	
Voltage	12 V
Batteries	100 Ah
Alternator	95 A
Starter	3,2 kW
Electric sockets sealed	•
UNDERCARRIAGE	
Articulated type	•
Inside turning radius	2.63 m (103.5 in)
Outside turning radius	4.91 m (193.3 in)
Front chassis fitted with 2 separate front outriggers acting on proportional control	•

*Depending on your Local Legislation - Environmental Protection Agency (EPA)

TRANSMISSION	DATA
Closed hydrostatic center with Senso Drive automotive type automatic regulation	•
Electronically controlled traveling direction reverser located under right joystick	•
nching command allows the diesel engine to constantly rev to reduce speed until a complete stop is reached: this function is governed by a pedal which also controls the breaking function	•
Hydraulic motor	150 cm ³ (9 in ³)
Pump	182 l/min (48 gpm)
Hydraulic variable displacement pump and motor allow for a continuously variable transmission rate over the whole speed range of the machine	•
Continuously variable speed	i.e. 0-32 km/h (19.9 mph)
Max. pressure	430 bar (6,237 psi)
Max. traction force	5800 daN (13,039 lbf)
Gradeability	78 %

AXLES AND WHEELS	
4-wheel drive	•
Standard: 405/70-20 tires	•
Drive axle rigid over front chassis	•
Drive axle over rear chassis oscillates to +/- 10° and blocking by the hydraulic cylinders	•
Transfer box with single request acting directly on the front and rear axles via a transmission shaft with a limited-slip differential on the two axles	•

UPPERCARRIAGE Full 360° rotation ٠ Internal ring gear drive • Rotation via hydraulic motor (with automatic disc braking) • SHOCKLESS type dampened crossover valve for upper carriage rotation ٠ movement and soft stop Rotation speed 9 rpm Rotation torque 2210 daN.m (16,300 ft lbf) Hydraulic motor 750 cm³ (45.8 in³) 230 bar (3,336 psi) Max. pressure

CAB	
Glass cab with wide view and supreme comfort	FOPS/ROPS homologated
Cab mounted on 4 rubber silent blocks	•
Front windshield partially or fully removable	under the cab roof
Sliding door	•
Opening door window	•
Position adjustable, seat adapts to the shape of the operator	seat adjustable in both height and width with seatbelt
Controls integrated into consoles located on either side of the seat and adjustable relative to the seat	•
Water heating system complies with ISO 10263	high flow fan, high capacity for demisting and defrosting







САВ	DATA
Controls carried out via proportional, ergonomic joysticks	•
Electronic dashboard containing all safety and monitoring information, visual indicators and alarms	•
Fuel levels and coolant temperature indicated on the dashboard	•
Dashboard contains a color screen which automatically adapts contrast and light levels to current conditions	•
Front working light, LED	•
Rear storage area	•
Side and rear (cab rear) cameras	•

HYDRAULICS (circuit equipment and rotation)	
Variable displacement pump	max. 130 cm ³ (8 in ³)
Maximum flow rate	165 l/min (44 gpm)
Maximum working pressure	310 bar (4,496 psi)
Active control power management	•
Proportional load sensing with individual balancing of each element: boom, adjustable boom, dipper stick, bucket and ancillary	•
Proportionality of functions always achieved irrespective of the pressure level of each element: "flow sharing"	•
Anti-cavitation overpressure relief valve in each element	•
Hydraulically-assisted proportional function controls using joysticks or foot pedals supplied at low pressure with emergency accumulator	•
Hydraulic system capacity	190 l (50 gal)
Hydraulic tank capacity	82 l (21.7 gal)

D Rear overhang 1407 mm (4'6") E Wheelbase 2225 mm (7'3") F Front overhang 933 mm (3') G Hood height 1744 mm (5'7") H Approach angle 53° I Departure angle 30° J Height under upper carriage 1165 mm (3'8") K Ground clearance 354 mm (1'2") L External width of the outriggers 2187 mm (7'2")	MACHINE DIMENSIONS	
C Height with boom retracted 3464 m (11'4") D Rear overhang 1407 mm (4'6") E Wheelbase 2225 mm (7'3") F Front overhang 933 mm (3') G Hood height 1744 mm (5'7") H Approach angle 53° I Departure angle 30° J Height under upper carriage 1165 mm (3'8") K Ground clearance 354 mm (1'2") L External width of the outriggers 2187 mm (7'2")	A Overall length	4619 mm (15 [°])
D Rear overhang 1407 mm (4'6") E Wheelbase 2225 mm (7'3") F Front overhang 933 mm (3') G Hood height 1744 mm (5'7") H Approach angle 53° I Departure angle 30° J Height under upper carriage 1165 mm (3'8") K Ground clearance 354 mm (1'2") L External width of the outriggers 2187 mm (7'2")	B Cab height	3064 mm (10')
B Wheelbase 2225 mm (7'3") F Front overhang 933 mm (3') G Hood height 1744 mm (5'7") H Approach angle 53° I Departure angle 30° J Height under upper carriage 1165 mm (3'8") K Ground clearance 354 mm (1'2") L External width of the outriggers 2187 mm (7'2")	C Height with boom retracted	3464 m (11'4")
F Front overhang933 mm (3')© Hood height1744 mm (5'7")H Approach angle53°I Departure angle30°J Height under upper carriage1165 mm (3'8")K Ground clearance354 mm (1'2")L External width of the outriggers2187 mm (7'2")	D Rear overhang	1407 mm (4°6″)
© Hood height1744 mm (5'7")H Approach angle53°I Departure angle30°J Height under upper carriage1165 mm (3'8")K Ground clearance354 mm (1'2")L External width of the outriggers2187 mm (7'2")	E Wheelbase	2225 mm (7'3")
H Approach angle53°1 Departure angle30°3 Height under upper carriage1165 mm (3'8")K Ground clearance354 mm (1'2")L External width of the outriggers2187 mm (7'2")	Front overhang	933 mm (3')
I Departure angle30°J Height under upper carriage1165 mm (3'8")K Ground clearance354 mm (1'2")L External width of the outriggers2187 mm (7'2")	G Hood height	1744 mm (5'7")
J Height under upper carriage1165 mm (3'8")IK Ground clearance354 mm (1'2")I External width of the outriggers2187 mm (7'2")	H Approach angle	53°
K Ground clearance 354 mm (1'2") L External width of the outriggers 2187 mm (7'2")	I Departure angle	30°
External width of the outriggers 2187 mm (7'2")	J Height under upper carriage	1165 mm (3'8")
55	K Ground clearance	354 mm (1'2")
$\bigvee W(dth study stard transformer (0.6/30, 0.0)) \qquad $	L External width of the outriggers	2187 mm (7 ⁻ 2")
width at wheels, standard tires 405/70-20 ZZ47 MM (7.4.)	₩ Width at wheels, standard tires 405/70-20	2247 mm (7'4")
N Width in road position 2383 mm (7'8")	N Width in road position	2383 mm (7'8")

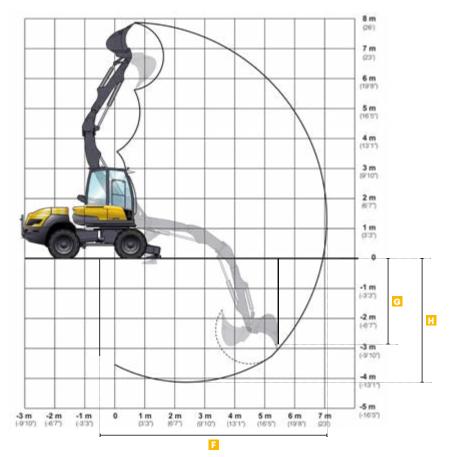
NOTE

METRIC MEASUREMENTS ARE THE CRITICAL VALUES • 1 Litre = 0.26417 US Liquid Gallons • 1 Litre = 0.21997 Imperial Liquid Gallons









MACHINE DIMENSIONS A Boom offset, maximal 1859 mm (6') B Outside dimension with max. offset 1239 mm (4') C Rear tail swing radius 1385 mm (4'5") D Front swing radius 1325 mm (4'3") E Turning circle 2710 mm (8'9")

PERFORMANCE	
Break-out force	6150 daN (13,820 lbf)
Penetration/Tear-out force	3400 daN (7,640 lbf)
Lifting force with loading hook	4000 kg (8,820 lb) (value max.)
E Maximum reach	7125 mm (23'4")
G Vertical digging depth	2240 mm (7'3")
H Maximum digging depth	4100 mm (13'4")

LIFTING FORCE WITH LOADING HOOK - STABILISERS ON GROUND

All the weights are given in kg (lb).

D

С

	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE
	2 M	(7 ft)	3 M (10 ft)	4.5M	(15 ft)	6M (20 ft)
4.5M (15 ft)	3280* (7,230*)	3280* (7,230*)	3190* (7,030*)	3190* (7,030*)	2460* (5,420*)	1530 (3,370)	-	-
3M (10 ft)	4000* (8,820*)	4000* (8,820*)	3480* (7,670*)	3480* (7,670*)	2910* [6,415*]	1490 (3,285)	-	-
1.5M (5 ft)	4000* (8,820*)	4000* (8,820*)	3480* (7,670*)	2740* (6,040*)	3100* [6,835*]	1310 (2,890)	1720* (3,790*)	740 (1,630)
OM	4000* (8,820*)	4000* (8,820*)	3480* (7,670*)	1960 (4,320*)	3080* [6,790*]	1240 [2,735]	-	-
-1.5M (-5 ft)	4000* (8,820*)	4000* (8,820*)	3170* (6,990*)	1860 (4,100*)	2580* [5,690*]	1090 [2,400]	-	-
- 3M (-10 ft)	4000* (8,820*)	4000* (8,820*)	3270* (7,210*)	2080 (4,590*)	-	-	-	-
* Loads limited by hyd	raulic capa	city						



WORKING CONDITIONS

- On wheels with stabilisers on ground
- On horizontal, compact ground
- Equipment used without offset
- Front and rear frame aligned
- Without tools (bucket, shovel...) with handling plate and loading hook of 4 T
- 75% of the tipping load or 87% of the hydraulic capacity
- Maximum values determined for optimal position of boom and cylinders

All elements added to the end of the dipperstick must be taken into consideration when measuring the real lifting capacities in kg (lbs), particularly their positions and weights.





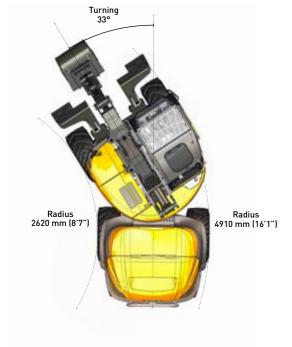


TECHNICAL FEATURES Lifting power Digging force Traction force Tipping load with standard shovel forward with chassis fully turned Tipping load with standard shovel lateral with chassis fully turned

DATA	
4050 daN (9,105 lb) - acc to ISO 14397-2	
6400 daN (14,390 lb)- determined acc to Norm NF ISO 14397-2	
5970 daN (13,420 lb) - traction force of the machine	
3550 kg 7,830 lbf] - tipping load acc to ISO 14397-1	
3550 kg 7,830 lbf) - tipping load acc to ISO 14397-1	

4050 kg (8,930 lbf) - tipping load acc to ISO 14397-1



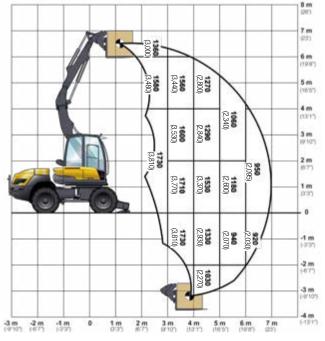


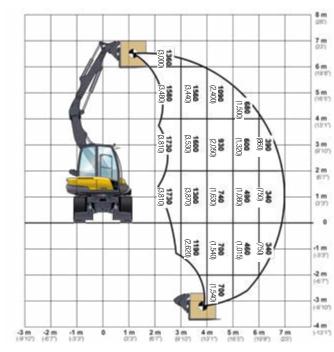
MACHINE DIMENSIONS	
A Overall length	5617 mm (18'5")
B Dumping height	4077 mm (13'4")
C Loading height	4498 mm [14'9"]
Digging angle	40°
E Clearance under bucket	651 mm (2°2″)
F Minimal turning radius upper structure	3600 mm (11'9")
G Minimum side dumping distance (bucket at 45°)	403 mm (1'4")
H Minimum side dumping distance (bucket at 90°)	78 mm (0'3")





LIFTING CAPACITY WITH PALLET FORKS All the weights are given in kg (lb).





WORKING CONDITIONS

- On wheels with stabilisers on ground
- On horizontal, compact ground
- Equipment used without offset - Front and rear frame aligned
- Equipped with loading forks

Equipped man country for the

ACCORDING TO ISO 10567

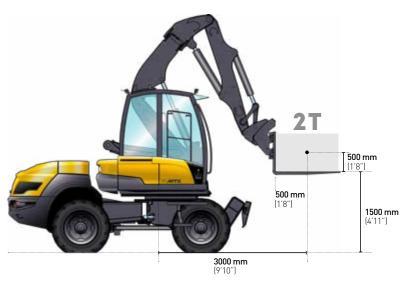
- 75% of the tipping load or 87% of the hydraulic capacity

LIFTING CAPACITY WITH LOADING FORKS DETERMINED FOR OPTIMAL POSITION OF BOOM AND CYLINDERS.



Lifting capacity of loading forks

2000 kg (4,410 lb) (value max.)



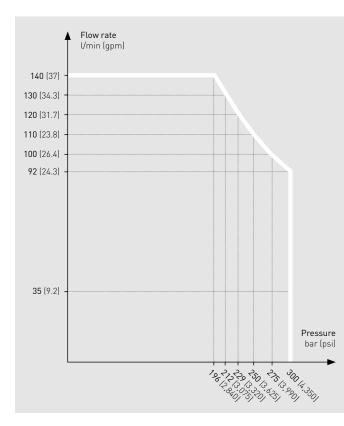






AUXILIARY LINE 1 - 85 KW (115 HP - 114 IMPERIAL HP) VERSION

Electro-proportional control integrated in the right joystick



AUXILIARY LINE 2	DATA
Circuit diverted from offset (clamshell rotation)	•
Flow rate	3-35 l/min (0.8-9.2 gpm)
Pressure	310 bar (4,500 psi)
Controls	Proportional as option

AUXILIARY LINE 3	DATA
Circuit diverted from bucket (clamshell)	•
Flow rate	120 l/min (31.7 gpm)
Pressure	310 bar (4,500 psi)



SPEED CONTROL – AVAILABLE RANGE IN KM/H

0.3 - 0.6 - 0.9 - 1.2 - 1.5 - 2 - 3 - 4 - 5 - 7 - 10 - 15 - 20 - 25 - MAX

2 CUSTOMISABLE PARAMETERS

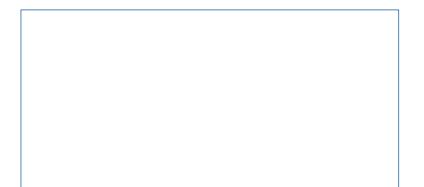
Memory storage of flow rates and name of attachments

NOTE

- METRIC MEASUREMENTS ARE THE CRITICAL VALUES
- 1 Litre = 0.26417 US Liquid Gallons
 1 Litre = 0.21997 Imperial Liquid Gallons

es

photos.



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