TRACKING THE FUTURE

Machines and equipment for trenching in the construction and agriculture fields, parks and mines.





The future is now



COMPETENCE AND COLLABORATION

effectively to find solutions.

The human factor is what makes the difference in

MakBrent's formula of success. Competence and

Italian know-how, combined with investments

in the right tools, create a climate of trust and genuine cooperation between the engineering

office and the production team. A dialogue in which theory and practice are brought together

RESEARCH AND INNOVATION

Our story is that of a company that has been choosing innovation since 1963. This mentality has led us, in 2014, to develop the first radio-controlled trenchers for the laying of utilities: an advanced solution that has made us the undisputed leaders not only in Italy but also abroad. An honour but also a responsibility that encourages us to constantly look for new improvements that guarantee the making of machines with ever higher performance, ease of use and total safety. Maximum satisfaction for both those who make them and those who use them!



TECHNOLOGY AND ENVIRONMENT

Advanced and environmentally sustainable excavation solutions are a priority for us. Our trenching technique allows maximum precision and a reduced environmental impact as well as reliability, cost-effectiveness, and lower emissions.

Augaliina Aba Guku

MAK 75 (=V).1



OPTICAL FIBER

TELECOMMUNICATIONS

BUILDINGS

AGRICULTURE

WATER NETWORKS

ELECTRICAL GRIDS

OIL&GAS

PARKS

FORESTRY









MAK 75 EVO.1 is a multifunctional machine capable of carrying out all site operations. Thanks to the wide range of rapid hookon accessories, it permits:

- ✓ Wheel digging
- Chain digging
- ✓ Loading and unloading with bucket
- Asphalt milling
- ✓ Site cleaning using a sweeper
- ✓ Lifting by forks
- ✓ Moving materials with blade
- ✓ Using attachments with the adapter
- Closing excavation using a mixing bucket



BUSINESS

Higher earnings

Lower work duration

Lower management costs

Lower maintenance

Lower **stress for traffic blocks**, delays and fees to be paid

WORKING SITE

Higher digging precision

Higher speed

Higher **efficiency**

Lower road obstruction

Lower labour

ENVIRONMENT

Lower **environmental impact**Lower **waste material** to dispose of
Lower **fuel use**

PEOPLE

Higher comfort for the operator
Higher security
Easier to use

QUICK COUPLING

Changing equipment is very easy thanks to the hydraulic quick coupling, which is operated by the remote control.

REMOTE CONTROL

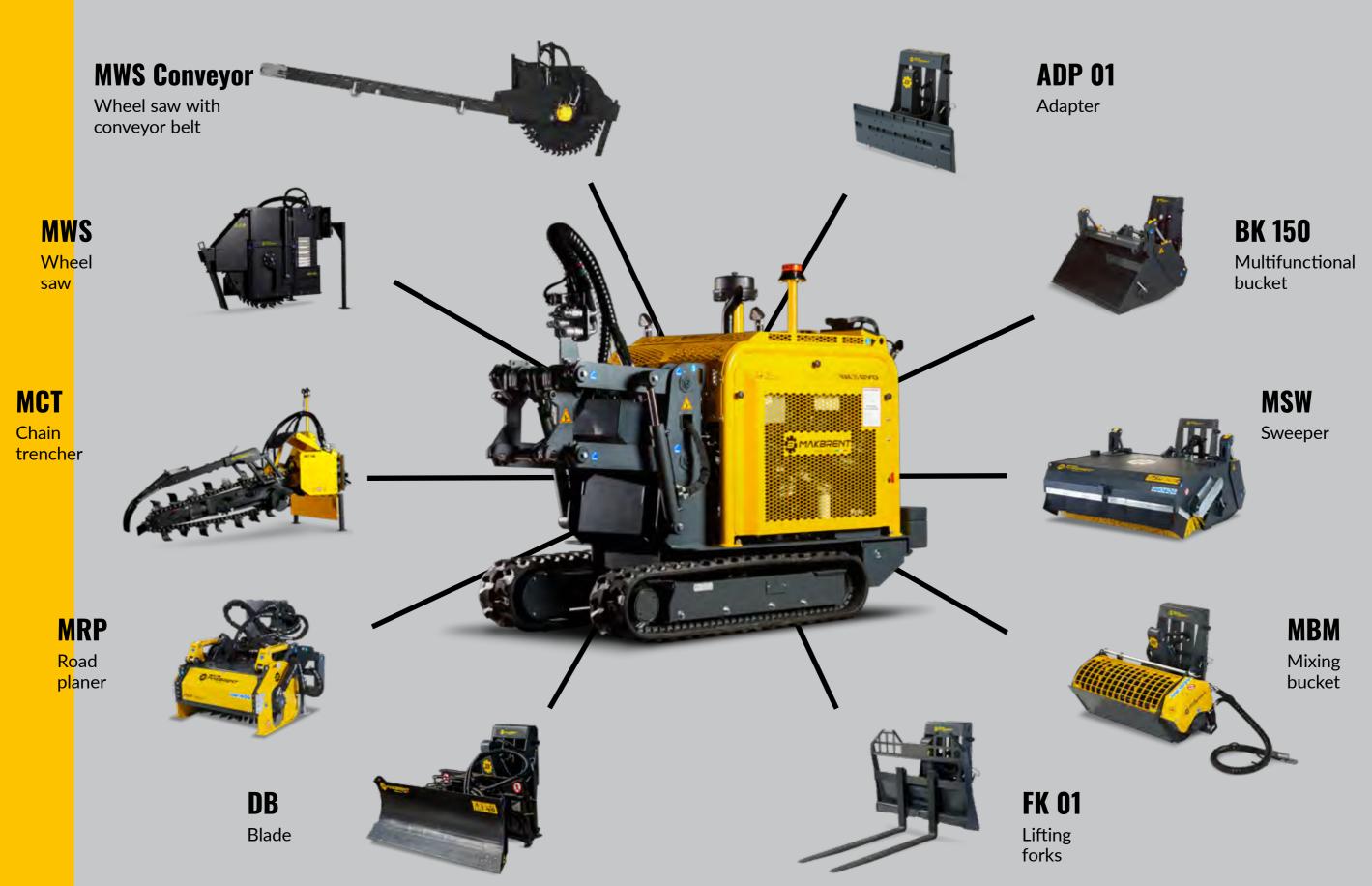
MAK 75 EVO.1 works with a remote control, avoiding the presence of an operator on board hence making it possible to monitor its work more closely.





ATTACHMENTS





The machine

MAK 75 EVO.1 machine is robust, ecological, economical and versatile, suitable for all construction site operations.



STANDARD CONFIGURATION

- 2 led work lights
- 3 auxiliary hydraulic clutches (1 proportional and 2 on/off on the remote control)
- ✓ 1 high flow socket to action the attachments
- ✓ 1 electrical 12 V outlet actionable on the display

COMMANDS

- ✓ Remote control with electro-actuated proportional servo controls (PPC)
- Adjustment of lateral tranlation and digging depth directly from the remote control

SECURITY SYSTEM

✓ All movements of the machine can be controlled through the buttons on its body and the remote control

The attachments





OPTICAL FIBER
TELECOMMUNICATIONS
ELECTRICAL NETWORKS

WATER NETWORKS

EXCAVATION MEASURES

Width from 50 to 200 mm Depth from 200 to 630 mm

STANDARD CONFIGURATION

- ✓ Floating trench cleaner
- Remote control with:
 - » Hydraulic digging depth adjustment
 - » Hydraulic side shift

MWS 540 CONVEYOR

WHEEL SAW

The exclusive standard configuration with conveyor belt makes it possible to unload waste material directly onto the truck.



CONVEYOR LENGHTS

Short conveyor lenght 4,2 M Long conveyor lenght 5,6 M

EXCAVATION MEASURES

Width from 30 to 200 mm Depth from 200 to 540 mm

STANDARD CONFIGURATION

✓ Floating trench cleaner

✓ Remote control with:

» Hydraulic digging depth adjustment

» Hydraulic side shift

OPTICAL FIBER
TELECOMMUNICATIONS
ELECTRICAL NETWORKS

WATER NETWORKS

CONSTRUCTION

MWS 450

WHEEL SAW





OPTICAL FIBER TELECOMMUNICATIONS ELECTRICAL NETWORKS WATER NETWORKS

EXCAVATION MEASURES

Width from 50 to 140 mm Depth from 200 to 450 mm

- **∨** Remote control with:
 - » Hydraulic digging depth adjustment
 - » 9° hydraulic position of the wheel for an easy curvilinear digging

STANDARD CONFIGURATION

✓ Floating trench cleaner

MWS 400

WHEEL SAW





OPTICAL FIBER TELECOMMUNICATIONS ELECTRICAL NETWORKS WATER NETWORKS

EXCAVATION MEASURES

Width from 30 to 120 mm Depth from 200 to 400 mm

tracking the future

STANDARD CONFIGURATION

- ✓ Floating trench cleaner
- **∨** Remote control with:
 - » Hydraulic digging depth adjustment
 - » Hydraulic side shift
- » 12,5° hydraulic position of the wheel for an easy curvilinear digging

MCT 120

CHAIN TRENCHER Suitable for digging on topsoil or mixed soils.



MAK 75 EVO.1



FORESTRY WATER NETWORKS GAS PIPELINES

EXCAVATION MEASURES

Width 200, 300, 400 mm Depth up to 1200 mm

STANDARD CONFIGURATION

✓ Hydraulic side shift

MCT 140







FORESTRY WATER NETWORKS GAS PIPELINES

EXCAVATION MEASURES

Width 200, 300 mm Depth up to 1400 mm

STANDARD CONFIGURATION

✓ Hydraulic side shift

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MRP 20.20

ROAD PLANER

Road planer for excavation preparation. Removes asphalt or concrete layers with a

constant depth.





OPTICAL FIBER
TELECOMMUNICATIONS
ELECTRICAL NETWORKS
WATER NETWORKS

MILLING MEASURES

Width 200 mm Max depth 200 mm

STANDARD CONFIGURATION

- ✓ Hydraulic depth adjustment
- ✓ Hydraulic side shift

OPTIONAL ON REQUEST

- Hydraulic tilt adjustment
- ✓ Water kit

MRP 25.15

ROAD PLANER

Road planer for excavation preparation. Removes asphalt or concrete layers with a

constant depth.





OPTICAL FIBER
TELECOMMUNICATIONS
ELECTRICAL NETWORKS
WATER NETWORKS

MILLING MEASURES

Width 250 mm Max depth 130 mm

STANDARD CONFIGURATION

- ✓ Hydraulic depth adjustment
- ✓ Hydraulic side shift

OPTIONAL ON REQUEST

- Hydraulic tilt adjustment
- ✓ Water kit

the adjustment

MRP 40.15

ROAD PLANER

Road planer for excavation preparation. Removes asphalt or concrete layers with a

constant depth.



CONSTRUCTION

MAK 75 EVO.1

OPTICAL FIBER
TELECOMMUNICATIONS
ELECTRICAL NETWORKS
WATER NETWORKS

MILLING MEASURES

Width 400 mm Max depth 130 mm

STANDARD CONFIGURATION

- ✓ Hydraulic depth adjustment
- ✓ Hydraulic side shift

OPTIONAL ON REQUEST

- Hydraulic tilt adjustment
- ✓ Water kit

MRP 50.20

ROAD PLANER

Road planer for excavation preparation. Removes asphalt or concrete layers with a

constant depth.





OPTICAL FIBER
TELECOMMUNICATIONS

ELECTRICAL NETWORKS

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WATER NETWORKS

MILLING MEASURES

Width 500 mm Max depth 170 mm

STANDARD CONFIGURATION

- Hydraulic depth adjustment
- ✓ Hydraulic side shift

OPTIONAL ON REQUEST

- ✓ Hydraulic tilt adjustment
- ✓ Water kit

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MRP 100.20

ROAD PLANER

Road planer for excavation preparation. Removes asphalt or concrete layers with a constant depth.







MILLING MEASURES

Depth 1000 mm Max width 170 mm

STANDARD CONFIGURATION

✓ Hydraulic depth adjustment

✓ Hydraulic side shift

OPTIONAL ON REQUEST

✓ Hydraulic tilt adjustment

✓ Water kit

MBM 150

MIXING BUCKET

DATA

150 I

It allows on-site concrete production to close excavations immediately. It is mandatory to add the ADP 01 adapter.







MBM 300

MIXING BUCKET

It allows on-site concrete production to close excavations immediately. It is mandatory to add the ADP 01 adapter.



MAK 75 EVO.1

OPTICAL FIBER TELECOMMUNICATIONS **ELECTRICAL NETWORKS** WATER NETWORKS



MBM 450

MIXING BUCKET

It allows on-site concrete production to close excavations immediately. It is mandatory to add the ADP 01 adapter.



OPTICAL FIBER TELECOMMUNICATIONS **ELECTRICAL NETWORKS** WATER NETWORKS

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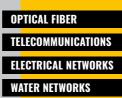
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MSW 1500

SWEEPER

Accessory to quickly remove debris after operations. It is mandatory to add the multifunctional bucket BK 150.









✓ Brushes diameter 600 mm



✓ Water kit

✓ Hydraulic tilt adjustment

BK 150

MULTIFUNCTIONAL BUCKET

Designed to be mechanically coupled to the sweeper to collect, grab and transport material during site cleaning.



DATA Width ✓ Capacity 350 I 1500 mm

✓ Opening 0 - 75°



OPTICAL FIBER TELECOMMUNICATIONS **ELECTRICAL NETWORKS** WATER NETWORKS

DB 1500

DOZER BLADE

Ideal blade to close trenches or backfill and lay materials.



MAK 75 EVO.1





OPTICAL FIBER **TELECOMMUNICATIONS** ELECTRICAL NETWORKS WATER NETWORKS

DBA 1800

DOZER TILT BLADE

Ideal blade for earthworks, to close trenches or backfill and lay materials.



✓ Rotating blade max angle +/- 30°

DATA

✓ Tilt blade max inclination +/- 15°

✓ Working width at max angle 1558 mm

CONSTRUCTION



OPTICAL FIBER TELECOMMUNICATIONS **ELECTRICAL NETWORKS** WATER NETWORKS

✓ Total width 1800 mm

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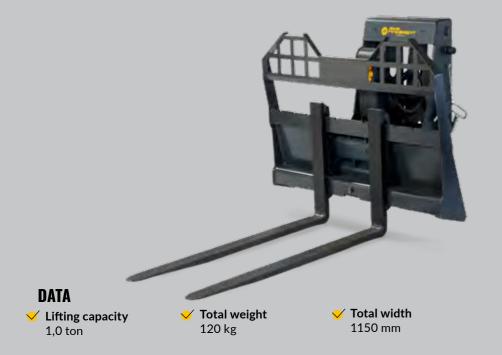
FK01

FORKS

Designed to move palleted materials, they are suitable for the easy handling of heavy materials on site. It is mandatory to add the ADP 01 adapter.







ADP 01

ADAPTER

Quick coupler that complies with norm ISO 13031, designed for the use of all standard equipment destined for mini excavators and skid-steer loaders.



















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Technology

1 RADIO-CONTROL TRENCHER

Using the remote control to manage the machine operations makes it possible to eliminate the need for manual intervention and reduce exposure to risks. It is so possible to check and change in real time any functions based on the different requirements of construction sites.



12 REMOTE MONITORING SYSTEM MAKGUARD

The satellite tracking system allows to remotely control the machine location and operations through maps, tables and intuitive diagrams. Operators can analyse system data to schedule interventions, preventive maintenance and ensure maximum performance.

13 INTELLIGENCE GUIDE FOLLOWING TRACK

The IGFT technology - Intelligence Guide Following Track - allows the machine to independently follow a path and adapt the digging speed to the effort required to move forward, improving productivity and efficiency. This way, even inexperienced operators can obtain the best digging results and performance.



04 LOW EMISSIONS ENGINE SYSTEM All MakBrent machines come equipped

with selected engines according to the most stringent criteria of:

- reliability
- cost effectiveness
- level of emissions

All machine systems, from the hydraulic devices to the controls, are designed and manufactured to **reduce environmental impact** to a minimum and lower fuel costs.



WHEEL TRENCHER

As technology has evolved over several decades, our wheel excavators are ideal for excavating hard surfaces. Our specialisation and the range of tools allow the operator to choose the machine with the most suitable characteristics for each specific job.

Our products are characterised by high quality, precision workmanship, reliability and safety.



MAK 200

Remote-controlled wheel trencher most suitable for digging micro-trenches. MAK 200 stands out for its compactness and ease of use with standard radio control. Perfect for delivery.









OPTICAL FIBER
TELECOMMUNICATIONS

ELECTRICAL GRIDS

IRRIGATION



EXCAVATION MEASURES

Width from 30 to 40 mm Depth 200 mm **ENGINE**

HONDA GX 630 16.1 hp petrol

SIZE AND WEIGHT

1550 x 700 x h. 1170 mm Operating weight: 590 kg

MAK 400

MAK 400 is particularly suitable for digging in confined spaces and/or over pavements thanks to its exceptional compactness and hydraulic side shift. Curved excavation is guaranteed by standard disx swing.



OPTICAL FIBER
TELECOMMUNICATIONS
WATER NETWORKS
ELECTRICAL GRIDS



EXCAVATION MEASURES

Width from 30 to 120 mm Depth from 200 to 400 mm Wheel side shift 400 mm

ENGINE

Kubota V2403 67.1 HP diesel

✓ Floating trench cleaner

- ✓ Remote control with:
- » Hydraulic digging depth adjustment

STANDARD CONFIGURATION

- » Hydraulic side shift
- » 12,5° hydraulic swing of the disc for easy curvilinear digging

MAK 450

MAK 450 is particularly suitable for digging in confined spaces and/or over pavements thanks to its exceptional compactness. Curved excavation is guaranteed by standard disc swing.





OPTICAL FIBER
TELECOMMUNICATIONS

WATER NETWORKS

ELECTRICAL GRIDS



EXCAVATION MEASURES

Width from 50 to 140 mm Depth from 200 to 450 mm

ENGINE

Kubota V2403 67.1 HP diesel

STANDARD CONFIGURATION

✓ Floating trench cleaner

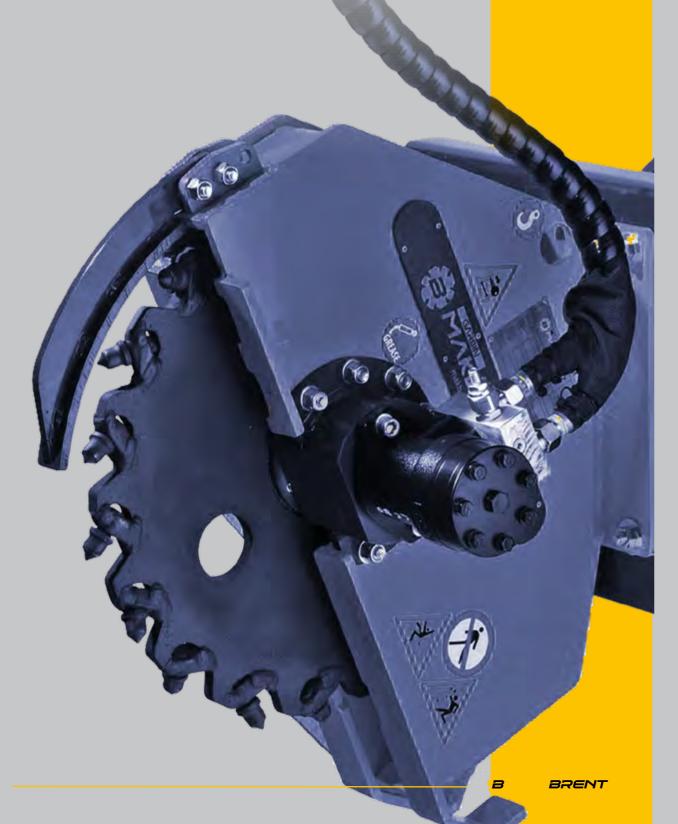
Remote control with:

- » Hydraulic digging depth adjustment
- » 9° hydraulic swing of the disc for easy curvilinear digging

WHEEL EQUIPMENT FOR MINI AND COMPACT LOADERS

Full range of equipment to be applied on mini excavators and compact loaders. Fully compatible with the main

brands.



WS 20

Wheel equipment for making micro and mini trenches on hard or compact surfaces.



EXCAVATION MEASURES

from 30 to 60 mm Depth 200 mm

WEIGHT 110 kg

from 25 to 70 I/min

OIL FLOW RATE

WS 45 N CONVEYOR

Wheel equipment for the construction of micro and mini trenches on hard or compact surfaces, equipped with side conveyor to unload debris.



EXCAVATION MEASURES

Width from 60 to 110 mm Depth up to 450 mm

WEIGHT 900 kg

min 100 l/min

OIL FLOW RATE

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EQUIPMENTS



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WHEEL EQUIPMENTS

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OIL FLOW RATE

from 80 to 120 I/min

BRENT

WEIGHT

1100 kg

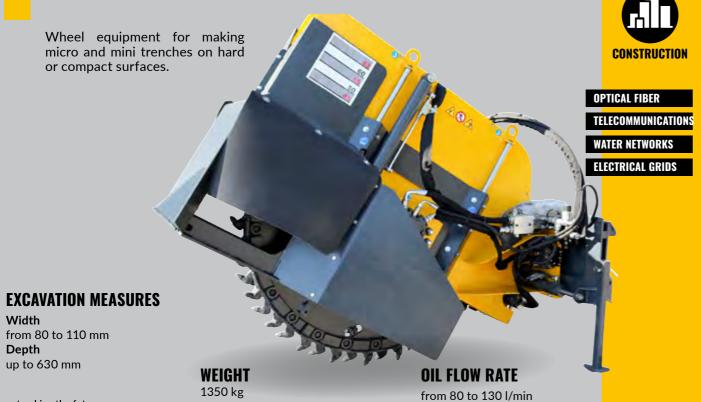


EXCAVATION MEASURES

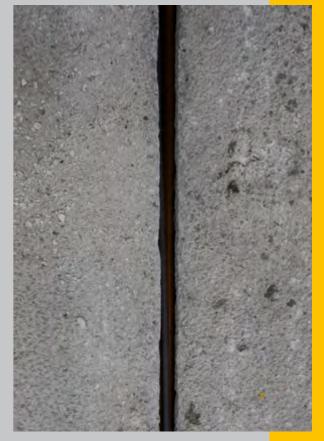
from 80 to 110 mm

Width

Depth up to 540 mm







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CHAIN TRENCHER

Trenchers are ideal to dig on topsoil or mixed soils. Chain trenchers are characterised by sturdiness, reliability, safety, manageability and ease of use. The range of models cover all excavation needs: from the construction of water supply networks in gardens to the laying of underground utilities.



MAK 45

Suitable for laying cables and pipes in various types of topsoil and/or mixed soils, removes only the strictly necessary material.





PIPE LAYING

MICRO IRRIGATION



EXCAVATION MEASURES

Width

- ✓ with bucket or mixed chain 110 – 130 mm
- ✓ with bit tool chain
 100 120 mm

Depth

up to 450 mm

ENGINE

Honda GX 200 6.5 HP petrol

STANDARD CONFIGURATION

- Mechanical transmission to the digging chain using a centrifugal clutch
- ✓ Engine stop safety device
- ✓ Chain guard bar
- ✓ Mechanical cleaner

SIZE AND WEIGHT

1400 x 700 x h. 800 mm Operating weight: 150 kg

31

MAK 60

Chain trencher on tracks suitable for laying cables and pipes in topsoil and/or mixed soil types, removing only the strictly necessary material.







EXCAVATION MEASURES

Width

with bucket or mixed chain 110 - 130 - 160 mm

√with bit tool chain 100 - 120 mm

Depth

up to 600 mm

MOTORE

Honda GX 390 9.4 HP petrol

STANDARD CONFIGURATION

- ✓ Engine stop safety device
- ✓ Hydraulic transmission on tracks
- ✓ Chain guard bar
- ✓ Mechanical cleaner
- ✓ Side shift auger
- ✓ Rubber tracks

SIZE AND WEIGHT

1360 x 700 x h. 1200 mm Operating weight: 300 kg



MAK 80

Trencher with combined chain (bucket and bit tools) on tracks suitable for laying cables and pipes in topsoil and/or mixed soil types, removing only the strictly necessary material.







PIPE LAYING



EXCAVATION MEASURES

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Width 110 mm Depth up to 800 mm

ENGINE

Honda GX 390 9.4 HP petrol

STANDARD CONFIGURATION

- ✓ Engine stop safety device
- ✓ Hydraulic transmission on tracks
- ✓ Chain guard bar
- ✓ Mechanical cleaner
- ✓ Side shift auger
- ✓ Rubber tracks

SIZE AND WEIGHT

1360 x 900 x h. 1200 mm Operating weight: 300 kg

MAK 75 EVO.1 + CHAIN MCT 120 /MCT 140

Mak 75 is a compact, robust, ecological, economical and easy to use machine. With the appropriate chain trencher, it is the perfect combination for digging on topsoil or mixed soils. A remote control makes it possible to carry out all excavation operations easily and in complete safety.





FORESTRY
WATER NETWORKS
GAS PIPELINES



MCT 120



TRENCHER





FORESTRY
WATER NETWORKS

GAS PIPELINES

EXCAVATION MEASURES

Width 200, 300, 400 mm Depth up to 1200 mm

STANDARD CONFIGURATION

✓ Hydraulic side shift

MCT 140







FORESTRY
WATER NETWORKS
GAS PIPELINES

EXCAVATION MEASURES

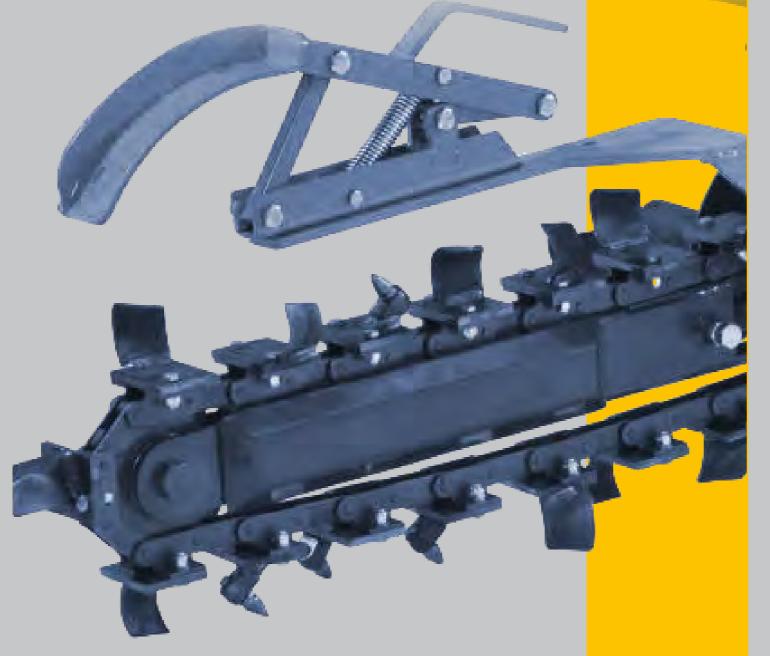
Width 200, 300 mm Depth up to 1400 mm

CONFIGURAZIONE DI SERIE

✓ Hydraulic side shift

CHAIN MECHANICAL EQUIPMENT FOR TRACTOR

Ideal for digging on topsoil or mixed soils, the mechanical equipment for tractor chains are characterized by robustness, reliability and safety.



CTM 90

Chain for irrigation systems and drainages. Suitable for digging trenches on topsoil and equipped with a three point linkage for tractors with a maximum recommended power

Equipped with safety function on power take-off and mixed digging chain.



EXCAVATION MEASURES

Width 150, 200, 250, 280 mm Depth up to 900 mm

STANDARD CONFIGURATION

- ✓ Shaft drive
- ✓ Double side shift auger moves material to the right side
- ✓ Hydraulic digging chain tensioner with shock absorber
- Safety bar on the equipment

EQUIPMENTS

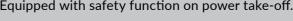


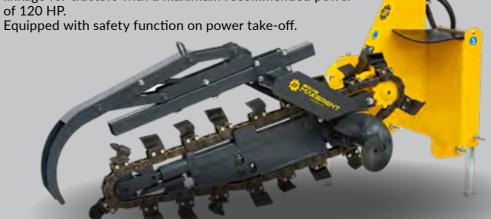


FORESTRY IRRIGATION

CTM 120

Chain for irrigation systems and drainages. Suitable for digging trenches on topsoil and equipped with a three point linkage for tractors with a maximum recommended power of 120 HP.





EXCAVATION MEASURES

Width 200, 250, 300, 350, 430 mm Depth

up to 1200 mm

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STANDARD CONFIGURATION

- ✓ Shaft drive
- ✓ Double side shift auger moves material to the right side
- Hydraulic digging chain tensioner with shock absorber
- ✓ Safety bar on the equipment





FORESTRY

IRRIGATION

EXCAVATION CHAIN

DIGGING SPEED

70 - 120 m/h

✓ Bucket

✓ Mixed (buckets and bit tools)

DIGGING SPEED

70 - 120 m/h

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CTM 140

Chain for irrigation systems and drainages. Suitable for digging trenches on topsoil and equipped with a threepoint linkage for tractors with a maximum recommended power of 120 HP.







FORESTRY IRRIGATION

EXCAVATION MEASURES

Width 200, 250 mm **Depth** up to 1400 mm

STANDARD CONFIGURATION

- ✓ Shaft drive
- ✓ Double side shift auger moves material to the right side
- ✓ Hydraulic digging chain tensioner with shock absorber
- ✓ Safety bar on the equipment

EXCAVATION CHAIN

- ✓ Bucket
- ✓ Mixed (buckets and bit tools)

DIGGING SPEED

70 - 150 m/h





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HYDRAULIC CHAIN EQUIPMENT FOR MINI AND COMPACT LOADERS

Full range of equipment to be applied on mini excavators and compact loaders. Fully compatible with the main brands.



CTI 70



CHAIN EQUIPMENTS





IRRIGATION

EXCAVATION MEASURES

Width 110, 130, 160 mm

Depth up to 680 mm

DIGGING CHAIN

✓ Bucket

Bit tool

Mixed (buckets and bit tools)

DIGGING SPEED

20 - 90 m/h

CTI 80







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EXCAVATION MEASURES

Width 120, 150, 200 mm Depth up to 800 mm

DIGGING CHAIN

Bucket

Mixed (buckets and bit tools)

DIGGING SPEED

20 - 90 m/h



EXCAVATION MEASURES

Width 120, 150, 200 mm Depth up to 1000 mm

DIGGING CHAIN

✓ Bucket

✓ Mixed (buckets and bit tools)

DIGGING SPEED

20 - 90 m/h

Together tracking the future

OUR FOCUS IS ON THE CUSTOMER

We are in the heart of the best Italian area for manufacturing, the Made in Italy, a brand that in our country is synonymous to quality.

We are the point of reference, in Italy and in the world, in trenching for optical fibre laying and for underground utilities. The concrete result of years of experience, professional growth and attention to the market.

Our customers have always known that they can count on a qualified technical staff, able to ensure a timely and widespread service.





The magic word is "togethe<mark>r".</mark>

Our customers have always known that they can count on a qualified technical team, which is able to ensure a timely and widespread service.

Your job is our success.

Your needs, our solutions.

Your concerns, our challenges.

Your safety, our goal.



EASIER SAID THAN DONE

"It seems like child's play": this is the what those who try our trenches for the first time say.

"Easier said than done": behind these great results there has been a lot of hard work, passion, innovative technology, and craftsmanship in a modern-day industrial process.

This concept and the awareness that the people make the difference are the pillars of our company.



We stand united as a team of individuals with distinct characteristics, each one of us focused on achieving a common goal, each contributing with commitment and competence to reach what truly counts at the end of the productive process: customer satisfaction.





tracking the future B BRENT











TRACKING THE FUTURE

We have been in pole position since 1963 but now it is our experience and enthusiasm that lead us. MakBrent is a story of all-ltalian professionalism, but with an international purpose. It is the entrepreneurial choice of a young, solid and continuously growing Group. A team made up of people who always stand by their customers to contribute together towards a future of innovation and the achievement of many more exciting goals.

www.makbrent.com

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