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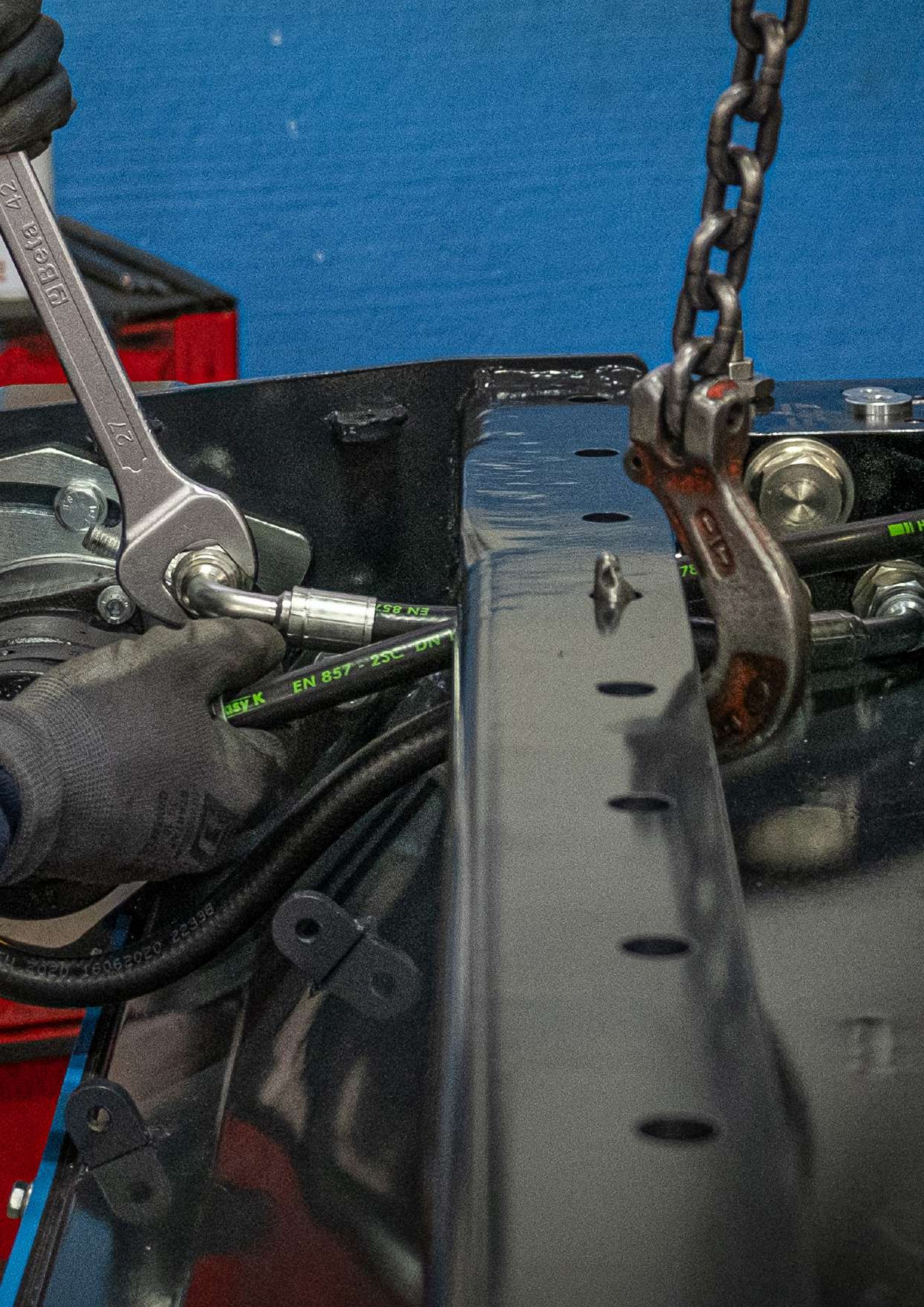
**EQUIPMENT FOR
EARTHMOVING
MACHINERY**

2022

“ The many years of experience that guides us, combined with constant commitment to the research of technologies more advanced and in the choice of the most suitable materials with a high quality standard; the particular attention paid to the final customer in the studio of the related needs and in the realization of unique products, made to measure and from great solidity, robustness and a highly innovative and captivating design .. these are just some of the traits that most distinguish ours company; points of advantage that currently they make an open and dynamic reality, continuously evolution and highly competitive in the market.”

“Our wide range currently includes various professional product lines made in them entire production process internally to our company; that is in our factory located in Umbertide (PG), in the middle of Umbria. Among the various accessories we offer there are different lines and models ranging from mulcer heads for excavators and mini excavators, to forestry mulchers, mixing buckets, hydraulics auger , sweeping buckets and others. “





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SERIES A

HYDRAULIC MULCHER
FOR EXCAVATORS
FROM 1.5 TO 5 TONS

**A60
A80
A100**

HYDRAULIC MULCHERS

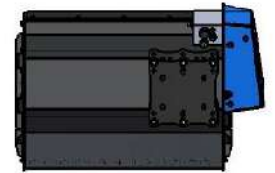
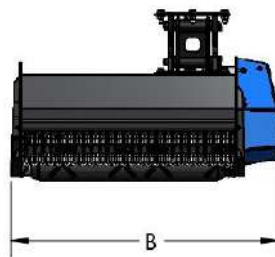
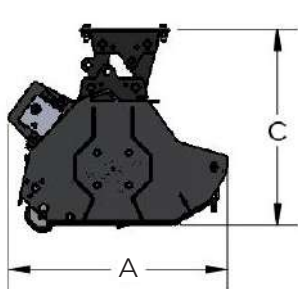
SERIES A

A60

A80

A100

MODEL	A60	A80	A100
CUTTING WIDTH (mm)	600	800	1000
WEIGHT (Kg)	125	135	192
OIL PRESSURE (bar)	200	200	200
OIL FLOW (l/min)	20-50	20-50	30-80
NUMBER OF KNIVES	24	32	48
NUMBER OF HAMMERS	12	16	16
MAX CUTTING DIAMETER (mm)	20	20	35
DIMENSION A (mm)	680	680	680
DIMENSION B (mm)	600	800	1000
DIMENSION C (mm)	605	605	605



Direct transmission with motor inside the machine protected from impacts and collisions. Standard with high pressure oil seal.



Fluidbox for complete and safe engine management, with maximum shockproof valve, anti-cavitation system and flow regulation to set the rotor speed correctly.



Self-leveling support as standard that allows an oscillation of the equipment to accommodate the unevenness of the ground protecting it from bumps.



The machine comes standard in a two-pipe configuration, the fluidbox will manage the flow of oil coming from engine drainage. In the event that the back pressure at the discharge is greater than 8 bar, it's possible to provide for the third drainage tube for direct tank discharge.



Rotor can be equipped with knives for more shredding capacity and lower power requirement. Two-blade knife set for A60-A80. Knife set a three blades for A100. Rotor can be equipped with hammers for safely tackle shrubs up to 35mm in diameter.



Rear support roller adjustable in three positions for cutting height adjustment.



Rear roller and wear strip replaceable with rear protection with chains (**optional**).
Useful in the case of cutting in both directions of travel, prepared to be installed as standard without modifications to the equipment.



Front protection with chains.
Rear protection with wear-resistant rubber strip.



Available as an **option**: standard attachment and pins with measurements customized.



Standard with 1.6 m hydraulic hoses.
Available as an **option**: set of hoses with customized lengths.



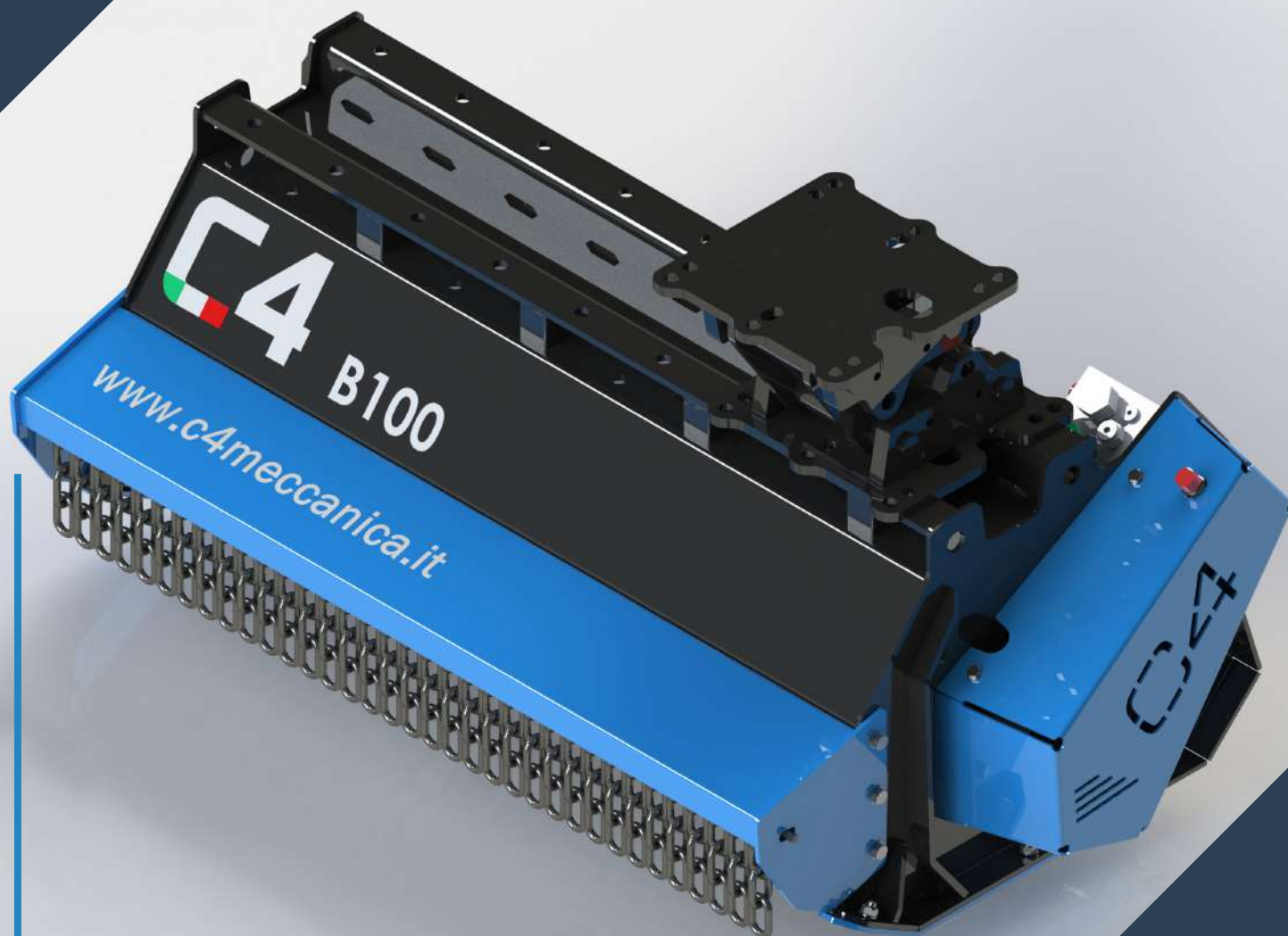
A60 - A80
• Double knives
• Light hammer



A100
• Triple knives
• Hammer



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SERIES B

HYDRAULIC MULCHER
FOR EXCAVATORS
FROM 3 TO 5 TONS

B80
B100

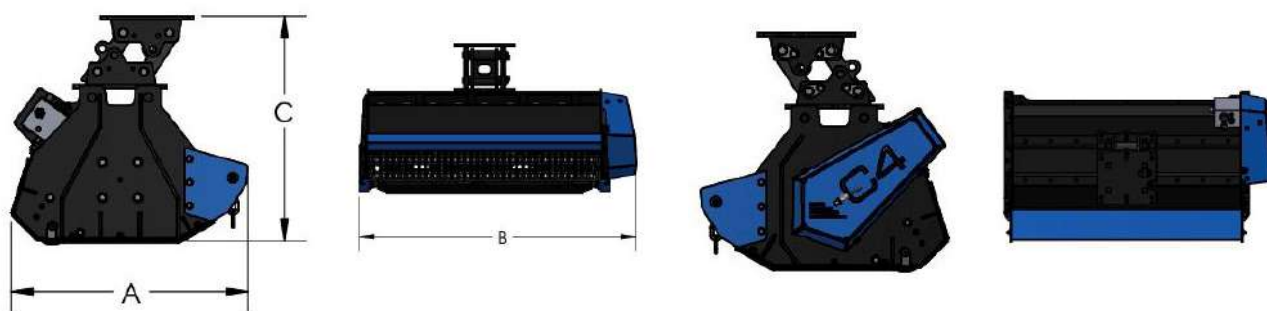
HYDRAULIC MULCHERS

SERIES B

B80

B100

MODEL	B80	B100
CUTTING WIDTH (mm)	800	1000
WEIGHT (Kg)	221	241
OIL PRESSURE (bar)	200	200
OIL FLOW (l/min)	30-80	40-80
NUMBER OF KNIVES	36	48
NUMBER OF HAMMERS	12	16
MAX CUTTING DIAMETER (mm)	50	50
DIMENSION A (mm)	710	710
DIMENSION B (mm)	1015	1215
DIMENSION C (mm)	680	680



Direct drive with motor inside the machine, protected from impacts e collisions. Standard with high pressure oil seal.



Fluidbox for complete and safe engine management, with anti-cavitation system and flow regulation to set the rotor speed correctly.



Self-leveling support as standard that allows an oscillation equipment to accommodate the unevenness of the ground.



Replaceable wear-resistant skids.



Double bottom case for increase robustness and optimize the volume of cut.



Standard with hydraulic hoses from 2 mt, available as optional set of hoses with custom lengths.



Standard in two-pipe configuration, the fluidbox will take care to manage the flow of oil coming from the drainage of the motor. In case the exhaust back pressure is greater than 8 bar, it is possible to provide the third pipe of drainage for draining into the tank.



Rotor can be equipped with three-blade knives for higher shredding capacity and lower demand of power. Rotor that can be equipped with hammers to tackle branches and shrubs up to 50 mm in diameter.



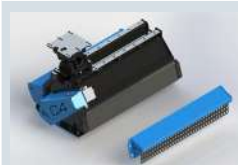
Standard with removable front chain cover for facilitated maintenance. Rear support roller with wear-resistant rubber strap.



Rear support roller adjustable on 3 positions for the cutting height adjustment.



Predisposition of holes on the upper part of the machine, which allow positioning saddle customized on 7 positions.



Rear roller and wear strip replaceable with rear protection with chains (**optional**). Useful in the case of cutting in both directions of travel, prepared to be installed as standard without modifications to the equipment.



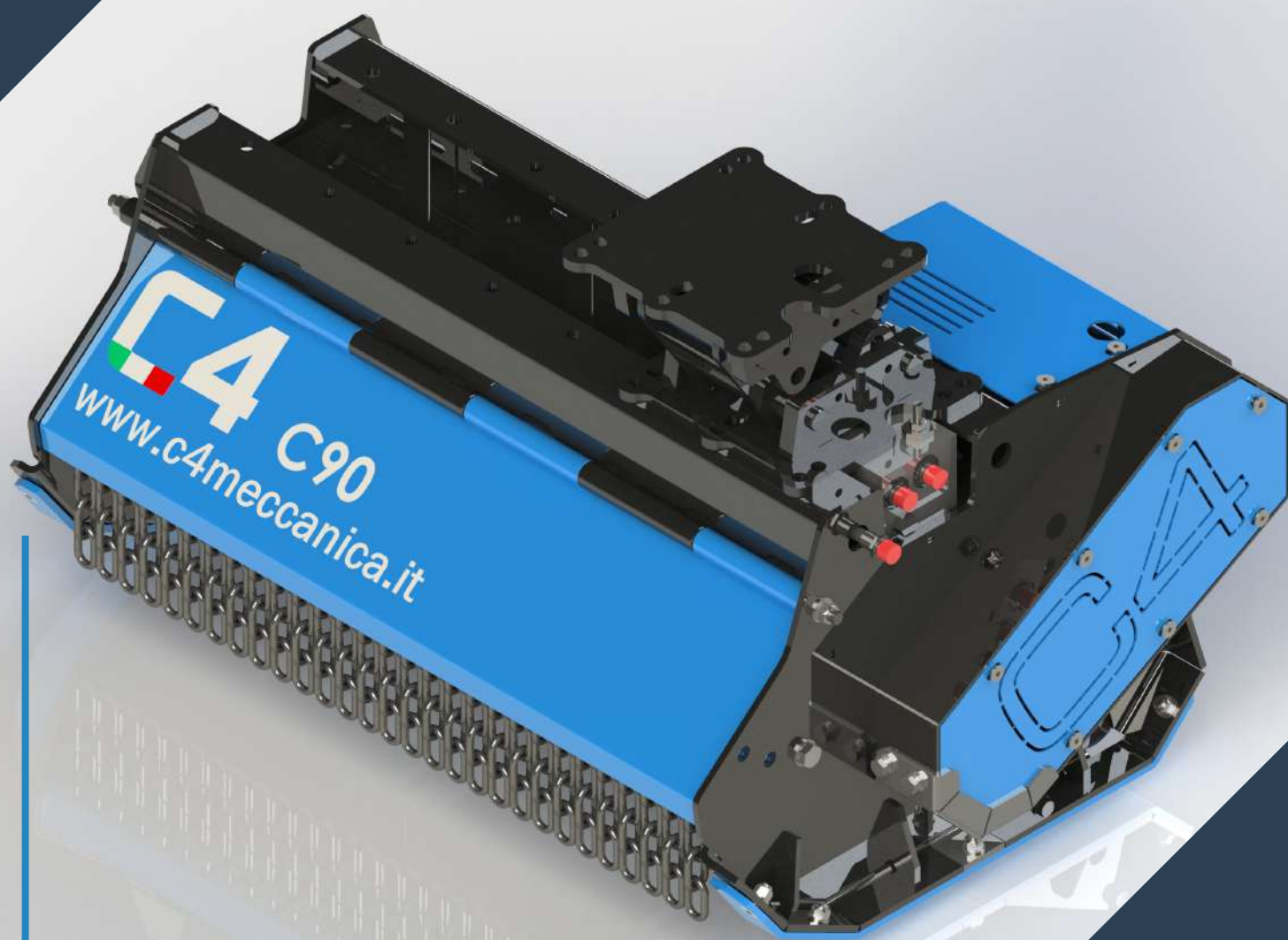
- Triple Knives
- Hammers



Available as an **option**: standard attachment and pins with customized measurement



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SERIES C

HYDRAULIC MULCHER
FOR EXCAVATORS
FROM 4 TO 8 TONS

C90 C110

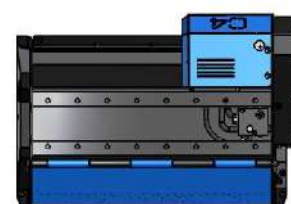
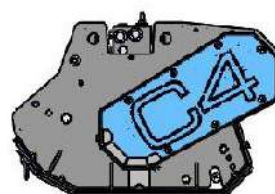
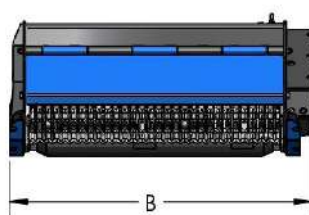
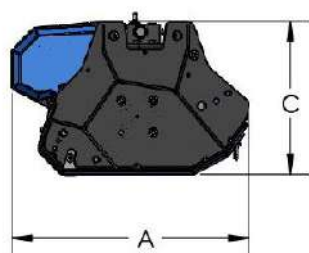
HYDRAULIC MULCHERS

SERIES C

C90

C110

MODEL	C90	C110
CUTTING WIDTH (mm)	968	1168
WEIGHT (Kg)	310	350
OIL PRESSURE (bar)	230	230
OIL FLOW (l/min)	40-80	40-80
NUMBER OF KNIFES	36	48
NUMBER OF HAMMERS	12	16
MAX CUTTING DIAMETER (mm)	60	60
DIMENSION A (mm)	785	785
DIMENSION B (mm)	1135	1335
DIMENSION C (mm)	715	715



Fluidbox for a complete and safe management of the engine with maximum shockproof valve, anti-cavitation system and flow regulation to set the rotor speed correctly.



Predisposition of holes on the upper part of the machine that allow customized positioning of the saddle for 6 positions of the model C90 and 8 positions for model C110.



Self-leveling support as standard that allows an oscillation equipment to accommodate the unevenness of the ground.



Replaceable wear-resistant skids.



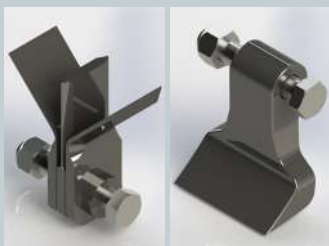
Double bottom case to increase strength and optimize volume cutting.



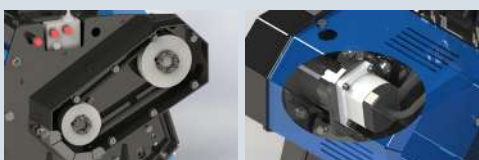
Standard with 2m hydraulic hoses.
Available as an **option**: set of hoses with customized lengths.



Available as an **option**: standard attachment and pins with customized measurements.



- Triple knives
- Hammer



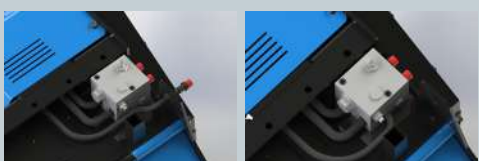
Motor mounted on support with bearings to avoid premature wear of the engine, with casing for impact protection. Belt transmission, essential for applications where the transmitted powers begin to become consistent, has the function of an elastic joint preserving both the motor and the rotor from stress unexpected events.



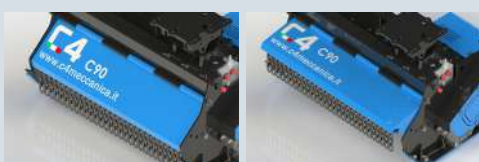
Rotor can be equipped with three-blade knives for one higher shredding capacity and lower demand for power. Rotor can be equipped with hammers to tackle in safety branches and shrubs up to 60 mm in diameter.



Rear protection with adjustable support roller in three positions for cutting height adjustment. Rear protection strip in wear-resistant rubber.



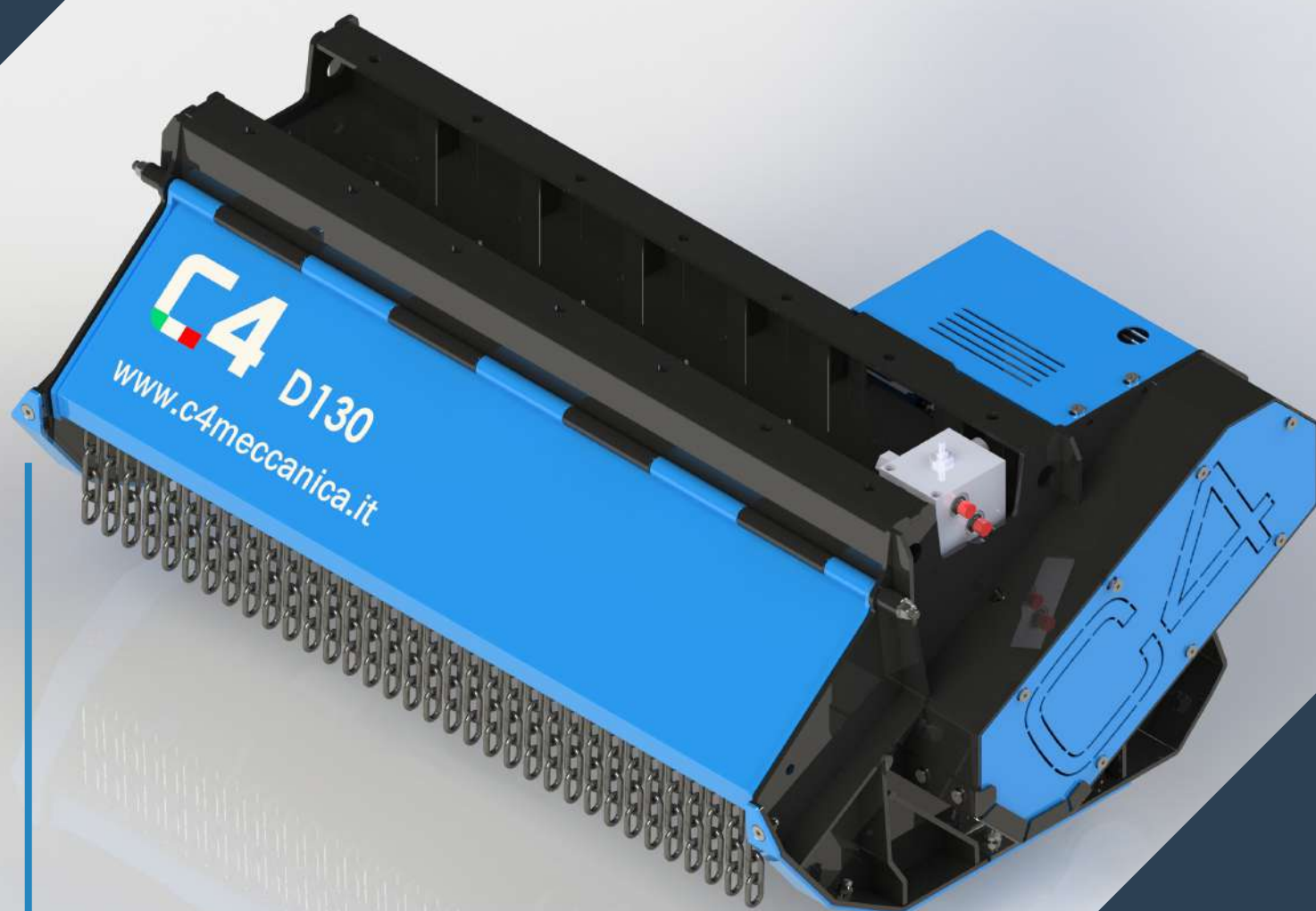
The machine comes standard in a two configuration hoses, the fluidbox will manage the oil flow coming from the engine drain. In the case of the exhaust back pressure is greater than 8 bar. It's possible to provide the third drainage pipe for the discharge direct to the tank.



Front protection with chains adjustable in three positions for one easy maintenance.



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SERIES D

HYDRAULIC MULCHER
FOR EXCAVATORS
FROM 6 TO 15 TONS

**D110
D130
D160**

HYDRAULIC MULCHERS

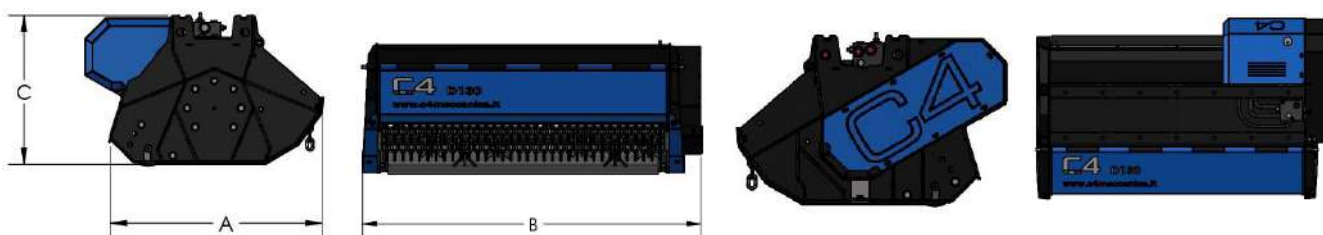
SERIES D

D110

D130

D160

MODEL	D110	D130	D160
CUTTING WIDTH (mm)	1130	1330	1630
WEIGHT (Kg)	450	470	530
OIL PRESSURE (bar)	220	220	220
OIL FLOW (l/min)	60-90	60-90	80-130
NUMBER OF KNIVES	36	48	48
NUMBER OF HAMMERS	12	16	16
MAX CUTTING DIAMETER (mm)	75	75	75
DIMENSION A (mm)	970	970	970
DIMENSION B (mm)	1395	1595	1895
DIMENSION C (mm)	600	600	600



Predisposition of holes for the positioning of the attachment along the entire length car.



Fluidbox for complete and safe engine management, with shockproof maximum valve, anti-cavitation system and flow regulation to set the rotor speed correctly.



Optional dedicated oscillating support available.



Replaceable wear-resistant skids.



Double bottom case to increase strength and optimize volume cutting.



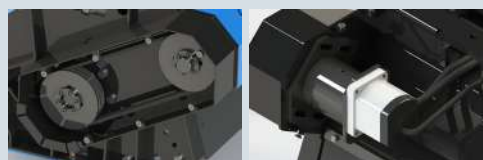
Available as an **option**: standard attachment and pins with customized measurements.



Standard with 2m hydraulic hoses.
Available as an **option**: set of hoses with customized lengths.



- Triple knives
- Hammer



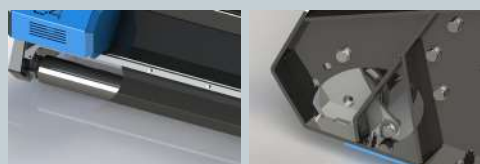
Motor mounted on extension with bearings to avoid premature wear of the engine, with carter for impact protection. Final transmission of the belt, essential for applications where the powers transmitted begin to become consistent, it has the function of elastic joint preserving both the motor and the rotor from unexpected stresses.



The machine comes standard in a two-pipe configuration, the fluidbox will manage the flow of oil coming from the engine drain. In case the back pressure at the discharge is greater than 8 bar it is possible to add the 3 three-blade drainage tube.



Rotor can be equipped with three-blade knives for one higher shredding capacity and lower demand for power. Rotor can be equipped with hammers to tackle in branches and shrubs safety up to 75 mm.



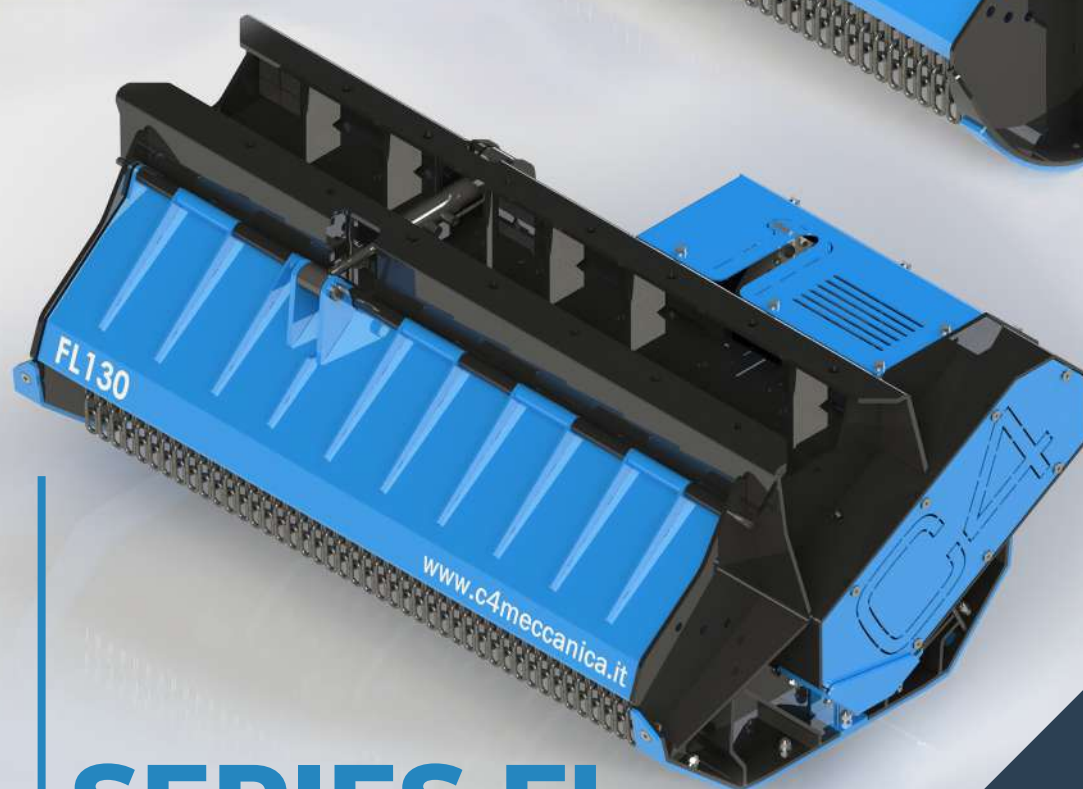
Rear support roller adjustable in 3 positions for cutting height adjustment. Protection strip rear in anti-wear rubber.



Front protection with chains, adjustable in two positions for one easy maintenance.



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SERIES FL

HYDRAULIC MULCHER WITH
RETRACTABLE HAMMERS
FOR EXCAVATORS
FROM 5 TO 18 TONS

**FL90
FL100
FL130
FL160**

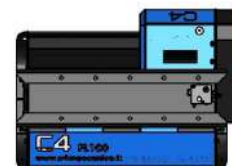
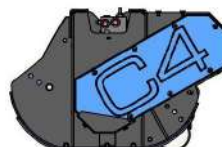
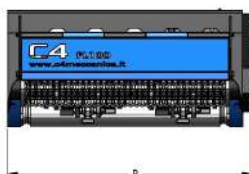
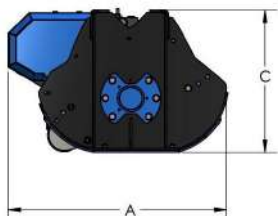
FORESTRY HYDRAULIC MULCHERS

SERIES FL

FL90 - FL100

HYDRAULIC MULCHER
WITH RETRACTABLE
HAMMERS EXCAVATORS
FROM 5 TO 9 TONS

MODEL	FL90	FL100
CUTTING WIDTH (mm)	908	1008
WEIGHT (Kg)	360	450
OIL PRESSURE (bar)	250	250
OIL FLOW (l/min)	40-70	60-80
NUMBER OF HAMMERS	12	16
MAX CUTTING DIAMETER (mm)	100	100
DIMENSION A (mm)	945	945
DIMENSION B (mm)	1090	1190
DIMENSION C (mm)	610	610



Fluidbox for complete and safe engine management, with anti-cavitation system and flow regulation to set the rotor speed correctly.



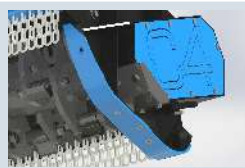
Available as **optional**: hydraulically operated adjustable front protection.



Predisposition of holes on the top part of the machine, that allow the positioning of the support along all the top.



Available as an **option**: standard attachment and pins with customized measurements.



Rear protection with chains and wear-resistant skid.



Double bottom case in hardox to increase the robustness and optimize the cutting volume.



Standard with 3m hydraulic hoses. Available as an **option**: set of hoses with customized lengths.



Reversible symmetrical hammer.



Piston motor with external drain as standard, protected by casing in case of impacts, supported on extension with bearings to avoid a premature wear. Belt drive, essential for applications where the powers transmitted begin to become consistent, has the function of elastic joint preserving both motor which rotor from unexpected shocks.



Rotor with retractable hammers, in open configuration, for weight reduction and greater cutting efficiency. Hammers holders help generate more swirl inside the case favouring the recirculation of material and greater mulching action.



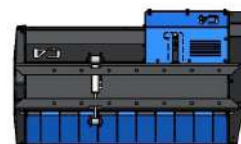
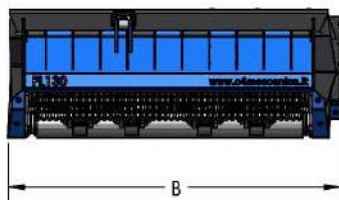
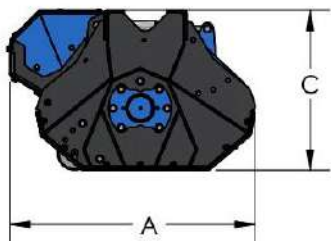
Front protection with chains, adjustable on 4 positions for easy maintenance.

SERIES FL

FL130 - FL160

HYDRAULIC MULCHER
WITH RETRACTABLE
HAMMERS EXCAVATORS
FROM 9 TO 18 TONS

MODEL	FL130	FL160
CUTTING WIDTH (mm)	1305	1605
WEIGHT (Kg)	750	800
OIL PRESSURE (bar)	250	250
OIL FLOW (l/min)	90-140	120-180
NUMBER OF HAMMERS	24	24
MAX CUTTING DIAMETER (mm)	100	100
DIMENSION A (mm)	965	965
DIMENSION B (mm)	1685	1985
DIMENSION C (mm)	610	610



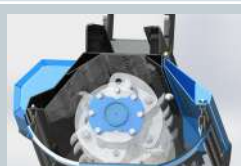
Piston engine with anti-cavitation valve to preserve engine and excavator during travel stops.



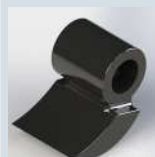
Predisposition of holes on the top part of the machine, that allow the positioning of the support along all the top.



Back protection with chains.



Double bottom case with hardox lining for increase robustness and optimize the volume of cut.



Hammer



Available as an **option**: standard attachment and pins with customized measurements.



Standard with 3m hydraulic hoses. Available as an **option**: set of hoses with customized lengths.



Available as **optional**: hydraulically operated adjustable front protection.



Piston engine with external drain, protected by carter in case of impact and mounted on extension with bearings to avoid premature wear. Belt transmission, essential for applications where the powers transmitted begin to become consistent, it has the function of elastic joint preserving both the motor that the rotor from unexpected stresses.



Rotor with retractable hammers, of increased diameter and greater robustness than FL100. Open configuration for weight reduction and greater cutting efficiency, i club supports help to generate more swirl inside the box favouring the recirculation of material and more shredding.



Front protection with chains, adjustable on 4 positions for easy maintenance.



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SERIES FL

HYDRAULIC MULCHER WITH
RETRACTABLE HAMMERS
FOR EXCAVATORS
FROM 18 TO 25 TONS

FL210

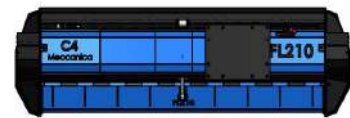
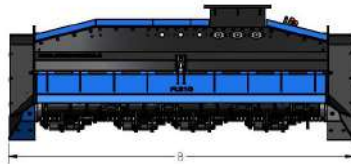
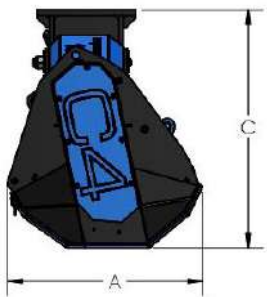
FORESTRY HYDRAULIC MULCHERS

SERIES FL

FL210

WITH RETRACTABLE
HAMMERS EXCAVATORS
FROM 18 TO 25 TONS

MODEL	FL210
CUTTING WIDTH (mm)	2100
WEIGHT (Kg)	1470
OIL PRESSURE (bar)	220-250
OIL FLOW (l/min)	140-200
NUMBER OF HAMMERS	32
MAX CUTTING DIAMETER (mm)	100
DIMENSION A (mm)	883,7
DIMENSION B (mm)	2735,4
DIMENSION C (mm)	1071



Fluidbox for complete and safe engine management, equipped with valve anti-cavitation and relief valve, the machine comes standard with the third drainage pipe.



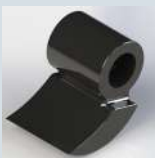
Rear protection with chains.



Case made with thick sheet metal, double bottom, with coat Hardox interior and upper reinforcements in the engine compartment.



Standard with 3m hydraulic hoses.
Available as an **option**: set of hoses with customized lengths.



Hammer



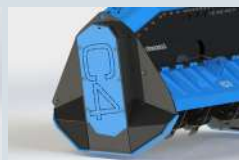
Available as an **option**: standard attachment and pins with customized measurements.



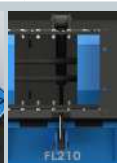
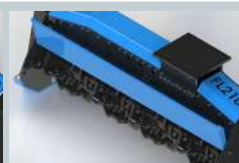
Piston engine in the upper position and inside the machine to protect it from bumps and debris. Motor extension on bearings to avoid premature wear. Belt drive with 1:1 ratio to maximize the transmitted power acts as an elastic joint preserving both the motor and the rotor from stress unexpected events.



Predisposition of holes for positioning customized support on 4 positions. Modular upper covers that do not need to be replaced when changing the position of the support.



Replaceable wear-resistant skid with a large surface of support.



Available as an **option**: front protection with hydraulically adjustable door, available as an **optional**: solenoid valve to control the jack with the line principal.



Special open rotor configuration, with retractable hammers to reduce weight and inertia. The hammers supports are lightened and shaped for minimize impacts with stones and objects unexpected events.



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SERIES F

HYDRAULIC MULCHER WITH
RETRACTABLE HAMMERS FOR
EXCAVATORS **FROM 8 TO 20 TONS**

F100 F130

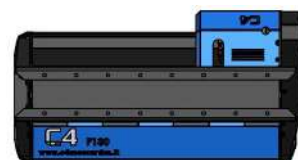
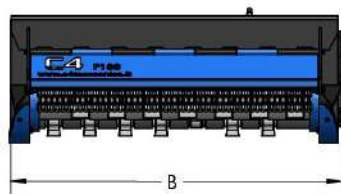
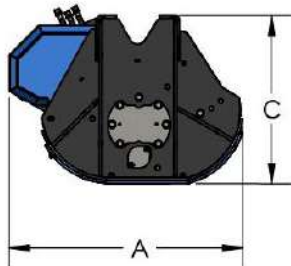
FORESTRY HYDRAULIC MULCHERS

SERIES F

F100

F130

MODEL	F100	F130
CUTTING WIDTH (mm)	1075	1375
WEIGHT (Kg)	605	820
OIL PRESSURE (bar)	250	250
OIL FLOW (l/min)	80-130	100-150
NUMBER OF HAMMERS	20	28
MAX CUTTING DIAMETER (mm)	200	200
DIMENSION A (mm)	950	950
DIMENSION B (mm)	1490	1790
DIMENSION C (mm)	680	680



Engine with anti-cavitation valve to preserve engine and excavator during travel stops.



Predisposition of holes on the part top of the machine, that allow the custom positioning support along the top.



Back protection with support chains and replaceable anti-wear skids.



Double bottom case to increase the robustness and optimize the cutting volume. Internal lining wear resistant in Hardox.



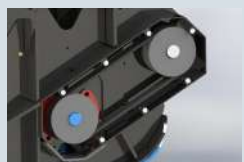
Standard with 3m hydraulic Hoses. Available as an **option** set of hoses with customized lengths.



Symmetrical reservable Hammer.



Available as an **option**: standard attachment and pins with customized measurements.



Piston engine protected by a casing (in the case of shocks) and mounted on extension with bearings to avoid a premature wear. Belt drive essential for applications where the powers transmitted begin to become consistent, has the function of elastic joint preserving both the motor and the rotor from unexpected stresses.



Closed rotor with retractable hammers, designed for be robust and versatile in all uses.



Front protection with chains, adjustable on 4 positions for easy maintenance.



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SERIES FF

HYDRAULIC MULCHER WITH
FIXED TOOTH FOR EXCAVATORS
FROM 6 TO 12 TONS

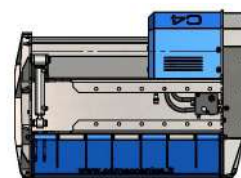
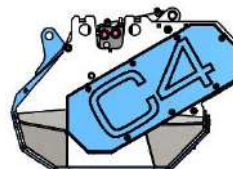
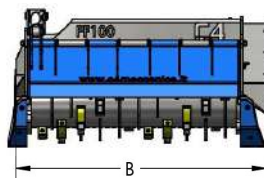
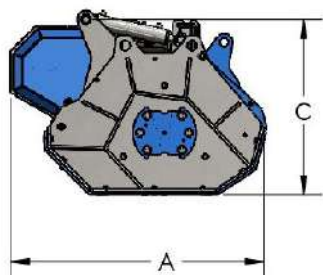
FF80 FF100

FORESTRY HYDRAULIC MULCHERS

SERIES FF

FF80

FF100



MODEL	FF80	FF100
CUTTING WIDTH (mm)	800	1000
WEIGHT (Kg)	390	460
OIL PRESSURE (bar)	220-250	220-250
OIL FLOW (l/min)	60-80	60-80
NUMBER OF TOOLS	16	20
MAX CUTTING DIAMETER (mm)	150	150
DIMENSION A (mm)	890	890
DIMENSION B (mm)	1050	1250
DIMENSION C (mm)	605	605



Fluidbox for one complete and safe engine management with relief valve, anti-cavitation system e flow regulation for set the number of revolutions of the rotor.



Double bottom case for increase robustness and optimize the volume of cut, with lining Hardox interior.



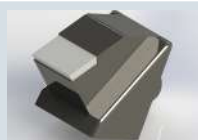
Support skids with replaceable anti-wear plates.



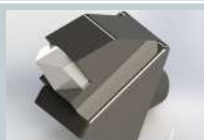
Predisposition of holes for customize the location of the attack.



Standard with 3m hydraulic Hoses. Available as an **option**: set of hoses with customized lengths.



Standard replaceable tool with cutting edge in widia.



Plus replaceable tool with cutting edge in widia.



Available as an **option**: standard attachment and pins with customized measurements.



Replaceable tool with double pointed and cutting edge in widia.



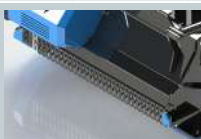
Available as an **option**: reducer of cutting depth that allows the rotor to keep a constant number revolutions and to preserve tool life.



Piston motor driven on extension with bearings to avoid premature wear of the engine with casing for the impact protection. Belt drive, essential for applications where the powers transmitted begin to become consistent, has the function of an elastic joint preserving both the motor that the rotor from unexpected impacts.



Fixed tooth rotor with interchangeable tools designed for heavy jobs.



Hydraulically operated front protection. Adjustable rear protection with chains.



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SERIES FF

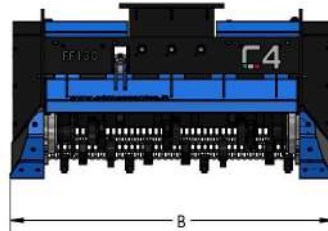
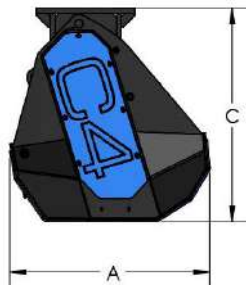
HYDRAULIC MULCHER WITH
FIXED TOOTH FOR EXCAVATORS
FROM 12 TO 18 TONS

FF130

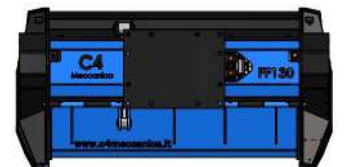
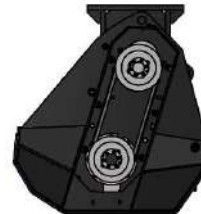
FORESTRY HYDRAULIC MULCHERS

SERIES FF

FF130



MODEL	FF130
CUTTING WIDTH (mm)	1300
WEIGHT (Kg)	710
OIL PRESSURE (bar)	250
OIL FLOW (l/min)	100-150
NUMBER OF TOOTH	26
MAX CUTTING DIAMETER (mm)	250
DIMENSION A (mm)	810
DIMENSION B (mm)	1640
DIMENSION C (mm)	895



Anti-cavitation valve to avoid damage to the hydraulic during stopping system.



Back protection with chains.



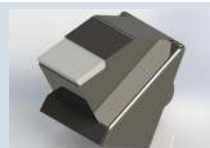
Replaceable anti-wear skids with a large surface of contact with the ground.



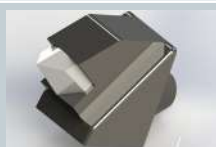
Generously thick case to increase the robustness and optimize the cutting volume. Internal lining in Hardox.



Standard with 3m hydraulic hoses. Available as an **option**: set of hoses with customized lengths.



Standard replaceable tool with cutting edge in widia.



Plus replaceable tool with cutting edge in widia.



Available as an **option**: standard attachment and pins with customized measurements.



Replaceable tool with double pointed and cutting edge in widia.



Available as an **option**: reducer of cutting depth that allows the rotor to keep a constant number revolutions and to preserve tool life.



Piston engine in the upper position and inside the machine to protect from bumps and debris. Motor extension on bearings to avoid premature wear. Transmission belt final with 1:1 ratio to maximize power transmitted, has the function of an elastic joint preserving both the motor that the rotor from unexpected stresses.



Forestry rotor with interchangeable fixed teeth designed for heavy jobs.



Hydraulically operated front protection. Available as an **option**: solenoid valve to control the jack with the main line.



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SERIES FFH

HYDRAULIC MULCHER WITH
FIXED TOOTH FOR EXCAVATORS
FROM 14 TO 25 TONS

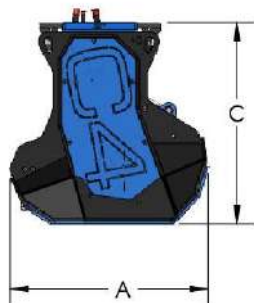
FFH110 FFH140

FORESTRY HYDRAULIC MULCHERS

SERIES FFH

FFH110

FFH140



MODEL	FFH110	FFH140
CUTTING WIDTH (mm)	1080	1380
WEIGHT (Kg)	1150	1300
OIL PRESSURE (bar)	220-350	220-350
OIL FLOW (l/min)	130-180	150-200
NUMBER OF TOOLS	24	31
MAX CUTTING DIAMETER (mm)	250	250
DIMENSION A (mm)	905	905
DIMENSION B (mm)	1570	1870
DIMENSION C (mm)	1380	1380



Fluidbox for complete and safe engine management with anti-cavitation valve.



Back protection with double set of chains.



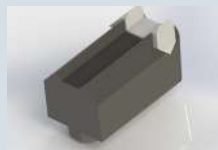
Replaceable anti-wear skids with a large surface of contact with the ground.



Generously thick case to increase the robustness and optimize the cutting volume. Internal lining in Hardox.



Standard with 3m hydraulic hoses. Available as an **option**: set of hoses with customized lengths.



Standard replaceable tool with cutting edge in width.



Plus replaceable tool with cutting edge in width.



Available as an **option**: standard attachment and pins with customized measurements.



Available as an **option**: reducer of cutting depth that allows the rotor to maintain a constant number of revolutions and to preserve the life of the tool.



Variable displacement piston engine, for correct torque delivery based on power demand. When the workload gets intense, the control system hydraulic increases the displacement and consequently the torque, avoiding work interruptions to make the rotor regain revs. Motor protected by the frame and mounted on an extension with bearings. Final drive belt of adequate dimension.



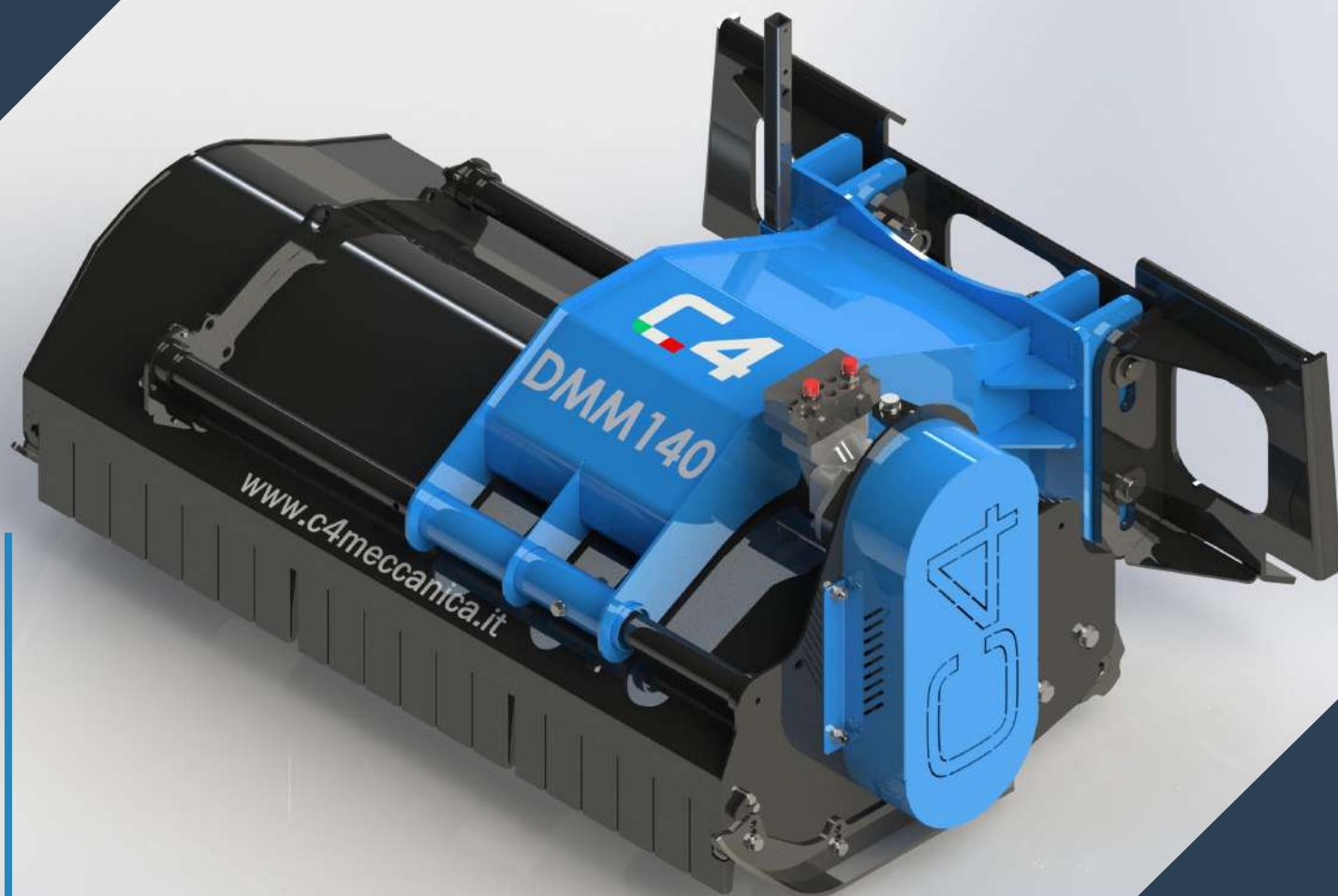
Forestry rotor with interchangeable fixed teeth designed for heavy jobs.



Front protection with hydraulically adjustable door. Available as an **option**: solenoid valve to control the jack with the main line.



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SERIES DMM

HYDRAULIC MULCHERS
FOR SKID-STEER LOADERS

DMM120
DMM130
DMM140
DMM160

HYDRAULIC MULCHERS FOR SKID-STEER

SERIES DMM

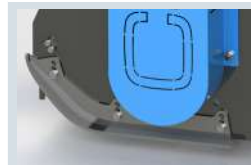
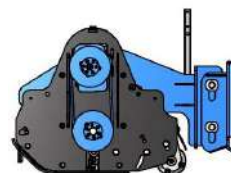
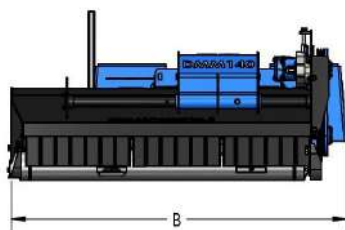
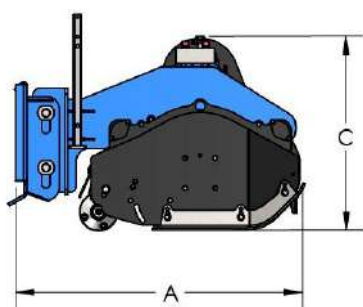
DMM120

DMM130

DMM140

DMM160

MODEL	DMM120	DMM130	DMM140	DMM160
CUTTING WIDTH (mm)	1180	1280	1380	1580
WIGHT (Kg)	420	450	470	485
OIL PRESSURE (bar)	200	200	200	200
OIL FLOW (bar)	40-80	40-80	50-100	70-120
NUMBER OF KNIFES	36	36	42	48
NUMBER OF HAMMERS	12	12	14	16
MAX CUTTING DIAMETER (mm)	60	60	60	60
DIMENSION A (mm)	1070	1070	1070	1070
DIMENSION B (mm)	1375	1475	1575	1775
DIMENSION C (mm)	700	700	700	700



Replaceable anti-wear skid adjustable in three positions to vary the height of the cut.



Oscillating attachment system with pins mounted on slots to accommodate uneven ground.



Standard with 3m hydraulic hoses. Available as an **option**: set of hoses with customized lengths.



Standard with coupling for skid-steer, **optional**: custom coupling.



Hydraulic piston motor in the upper position. Transmission belt end, essential for applications where the powers transmitted begin to become consistent, has the function of elastic joint preserving both the motor and the rotor from unexpected stresses.



330mm side translation.



The translation is manual on 6 different positions. Available as an **option**: hydraulic translation with hydraulic cylinder. Available as **optional** 6-way valve electrically controlled if you do not have a free auxiliary system.



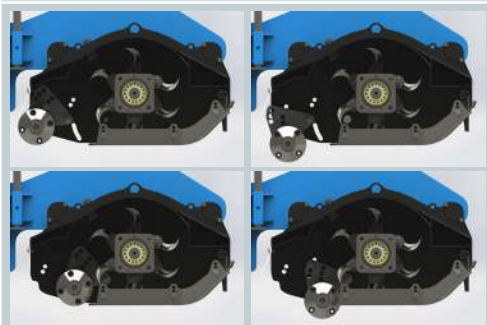
Rotor can be equipped with knives for more shredding capacity and lower power requirement.
Rotor can be equipped with hammers for branches and shrubs up to 60mm in diameter.



- Triple knife
- Hammer



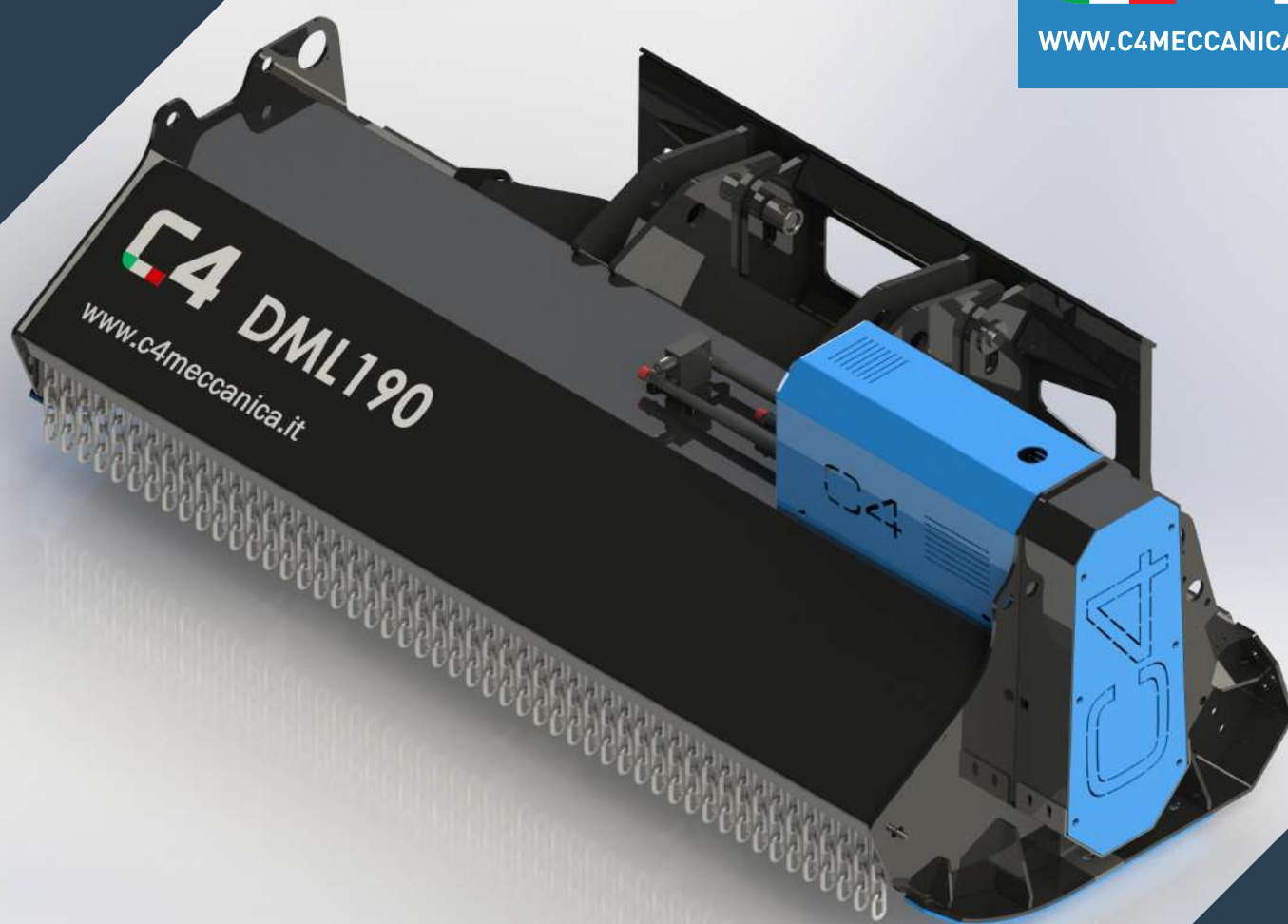
Front protection with steel flaps.
Rear roller scraper adjustable in height and reversible.



The rear roller can be configured in 6 positions distinct, which allow you to vary the volume and geometry of the case. There are three far height positions available from the rotor (to increase the cutting volume) and three positions in height near the rotor (to decrease the cutting volume), this allows you to configure the machine in operation the amount of material to be cut (and therefore the power required) and the size to be obtained.



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SERIES DML

HYDRAULIC MULCHERS
FOR SKID-STEER LOADERS

DML160
DML190
DML220

HYDRAULIC MULCHERS FOR SKID-STEER

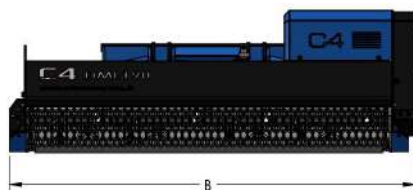
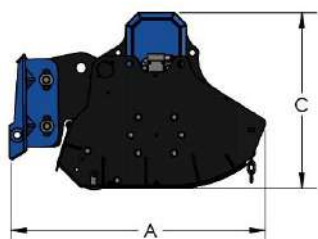
SERIES DML

DML160

DML190

DML220

MODEL	DML160	DML190	DML220
CUTTING WIDTH (mm)	1590	1890	2190
WEIGHT (Kg)	565	610	660
OIL PRESSURE (bar)	220	220	220
OIL FLOW (l/min)	70-100	90-120	100-140
NUMBER HAMMERS	16	20	28
NUMBER KNIVES	48	60	84
MAX CUTTING DIAMETER (mm)	70	70	70
DIMENSION A (mm)	1100	1100	1100
DIMENSION B (mm)	1890	2190	2490
DIMENSION C (mm)	760	760	760



Motor with valve anticavitation to preserve engine and machine operator during the travel stops.



Double bottom case for increase robustness e optimize the cutting volume.



Front protection with chains.



Standard with 3m hydraulic hoses. Available as an **option**: set of hoses with customized lengths.



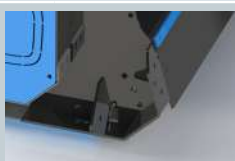
Hydraulic gear motor as standard (**optional**: a pistons) in the upper position, protected by a casing in the case of bumps and mounted on extension with bearings to avoid a premature wear. Final belt drive, essential for applications where the transmitted powers begin to become consistent, has the function of an elastic joint preserving both the motor that the rotor from unexpected stresses.



Rotor can be equipped with knives for more shredding capacity and lower power requirement. Rotor can be equipped with hammers for branches and shrubs up to 60mm in diameter.



Simplified oscillating attachment system with slotted pins to contain weight, allows you to easily overcome and accommodate uneven ground.



Rear protection with adjustable support roller on three positions with rubber protection strip.



- Triple knife
- Hammer



Standard with coupling for skid-steer, **optional**: custom coupling.



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SERIES DM

HYDRAULIC MULCHERS
FOR SKID-STEER LOADERS

**DM160
DM190
DM220**

HYDRAULIC MULCHERS FOR SKID-STEER

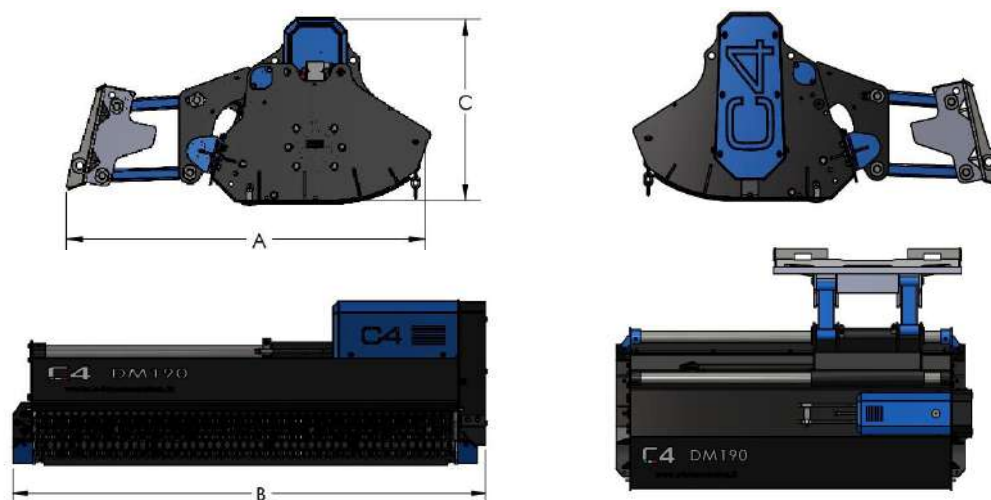
SERIES DM

DM160

DM190

DM220

MODEL	DM160	DM190	DM220
CUTTING WIDTH (mm)	1590	1890	2190
WEIGHT (Kg)	810	860	910
OIL PRESSURE (bar)	220	220	220
OIL FLOW (l/min)	70-100	90-120	100-140
NUMBER OF HAMMERS	16	20	28
NUMBER OF KNIVES	48	60	84
MAX CUTTING DIAMETER (mm)	70	70	70
DIMENSION A (mm)	1470	1470	1470
DIMENSION B (mm)	1890	2190	2490
DIMENSION C (mm)	760	760	760



Motor with anti-cavitation valve to preserve motor and operating machine during travel stops.



Double bottom case to increase strength and optimize volume cutting.



Front protection with chains.



Standard with 3m hydraulic. Available as an **option**: set of hoses with customized lengths.



Standard with coupling for skid-steer, **optional**: custom coupling.



Hydraulic gear motor as standard (with the possibility of piston engine optional) protected from the casing in the event of collisions and mounted on extension with bearings to avoid premature wear. Transmission belt, essential for applications where the powers transmitted begin to become consistent, it has the function of elastic joint preserving both the motor and the rotor from unexpected stresses.



Rotor can be equipped with knives for more shredding capacity and lower power requirement. Rotor can be equipped with hammers for branches and shrubs up to 60mm in diameter.



Hitch with hydraulic translation as standard, with 600 mm width of translation. Available as an **option**: six way valve electrically operated if you don't have a double auxiliary system.



Rear protection with adjustable support roller on three positions and rubber protection strip.



Available as an **optional**: hitch with rotation, introduces additional safety against bumps and depressions, allowing, in addition to the guaranteed translation from the standard arms, the rotation of the machine with respect to the skid steer.



- Triple Knife
- Hammer



Oscillating attachment system on arms for overcome easily and indulge uneven ground. Upper arm attachment slotted.



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SERIES TF

FORESTRY HYDRAULIC
MULCHERS WITH FIXED
TEETH FOR SKID-STEER

TF160
TF180
TF200

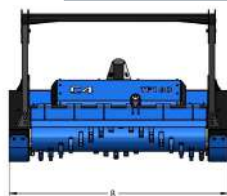
HYDRAULIC MULCHERS FOR SKID-STEER

SERIES TF

TF160

TF180

TF200



MODEL	TF160	TF180	TF200
CUTTING WIDTH (mm)	1560	1760	1960
WEIGHT (Kg)	920	1020	1140
OIL PRESSURE (bar)	250	250	250
OIL FLOW (l/min)	100-150	100-150	100-150
NUMBER OF TOOLS	34	40	44
MAX CUTTING DIAMETER (mm)	100	100	100
DIMENSION A (mm)	1060	1060	1060
DIMENSION B (mm)	1960	2160	2360
DIMENSION C (mm)	1360	1360	1360



Pressure gauge to monitor constantly i pressure peaks.



Double bottom case for increase robustness and optimize the volume of cut.



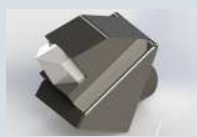
Interchangeable fixed teeth forestry rotor designed to cope to the heaviest jobs.



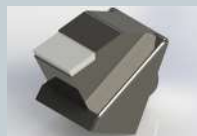
Back protection with chains.



Standard with 3m hydraulic hoses. Available as an **option**: set of hoses with customized lengths.



Plus replaceable tool with cutting edge in widia.



Standard replaceable tool with cutting edge in widia.



Replaceable anti-wear skids with generous dimensions.



Replaceable tool with double pointed and cutting edge in widia.



Available as an **option**: reducer of cutting depth that allows the rotor to maintain a constant number of revolutions and to preserve the life of the tool.



Blast chiller arch as standard, to prevent it from branches and shrubs cut from the machine fall over the skid steer.



Standard with coupling for skid-steer, **optional**: custom coupling.



Hydraulic piston motor inside the machine, assembled on extension with bearings to avoid premature wear. Final belt drive essential for applications where the powers transmitted become important, has the function of elastic joint preserving both the motor and the rotor from unexpected stresses.



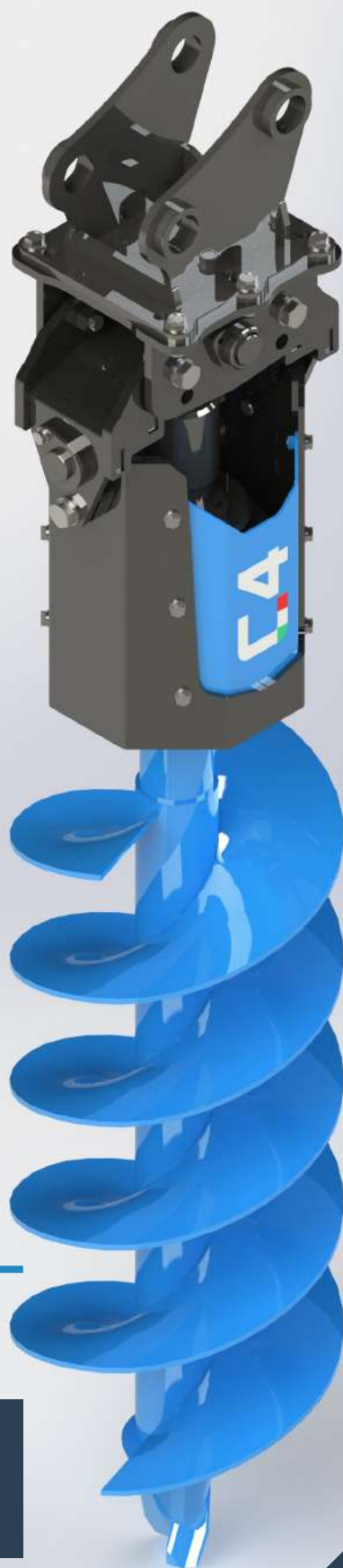
Engine with anti-cavitation valve to preserve engine and excavator during travel stops.



Hydraulically adjustable front protection hatch. Electrically controlled 6-way valve as standard if not has a double auxiliary system.



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SERIES T

HYDRAULIC MULTIFUNCTIONAL
AUGERS FOR EXCAVATORS
FROM 1.5 TO 8 TON

**T15
T20
T50**

HYDRAULIC AUGERS

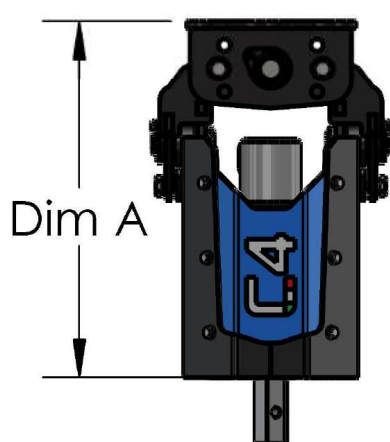
SERIES T

T15

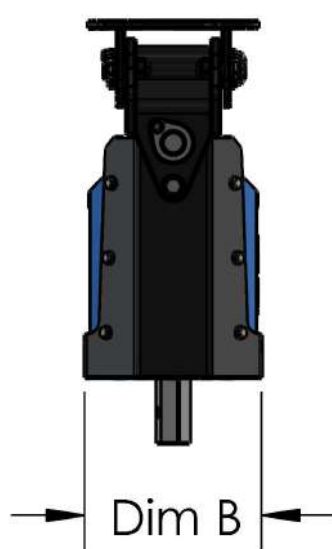
T20

T50

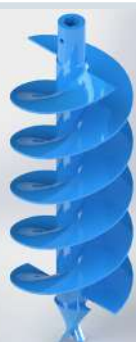
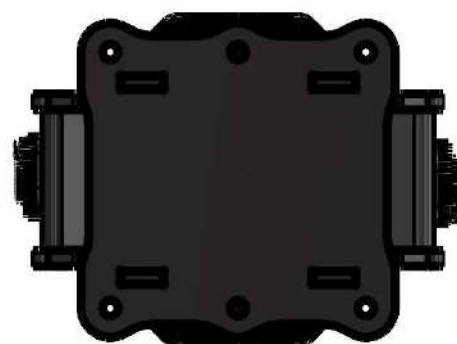
MODEL	T15	T20	T50
EXCAVATOR (ton)	1.5-2.8	2.5-5	4-8
DIMENSION A (mm)	475	600	720
DIMENSION B (mm)	250	300	300
WORKING TORQUE (N/m)	1500	2500	5000
WEIGHT (Kg)	80	135	172
OIL FLOW (l/min)	20-40	30-60	45-80
WORKING PRESSURE (bar)	160	180	200
ENGINE DISPLACEMENT (cc)	125	200	250



Dim A



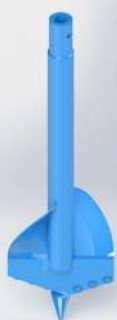
Dim B



Standard tip with length of 1 mt, available in 8 cuts: diameter 100, 150, 200, 250, 300, 350, 400, 500. Available as **optional** Hexagon of 70mm instead of 50mm standard (only for T50).



Rock tip with length of 1mt, available in 8 cuts: diameter 100, 150, 200, 250, 300, 350, 400, 500. Available as **optional** fixing hexagon increased by 70mm instead of the standard 50mm (only for T50).



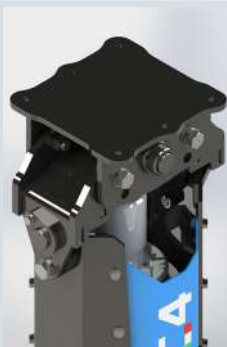
Stump Cutter Tip, available in 3 cuts: diameter 200, 300, 400. Available as **optional** hexagon of fixing increased by 70mm instead of 50mm standard (only for T50).



Conical tip available wood splitter with hexagon 50 mm. Available as an Option : oversized by 70mm (only for T50). Available in 4 diameters: 140, 170, 200 and 250 mm.



Traction with reduced motor, inside the frame and protected from impact o strokes.



Upper attachment characterized by double joint mounted on bushings self-lubricating with possibility to block the rotations by screws.



Available as an **option**: standard attachment and pins with customized measurements.



Available as an **option**: 1 pin attachment with customized measures.



1mt extension with or without propeller, propeller diameter available in 8 measures : 100, 150, 200, 250, 300, 350, 400, 500. Available as an **optional**, hexagonal of 70mm instead of the standard 50mm (only for T50).



Leaving the double joint free, the auger allows to maintain perpendicularity with the ground, avoiding complicated manoeuvres arm positioning, useful in applications with standard tip and tip rock.

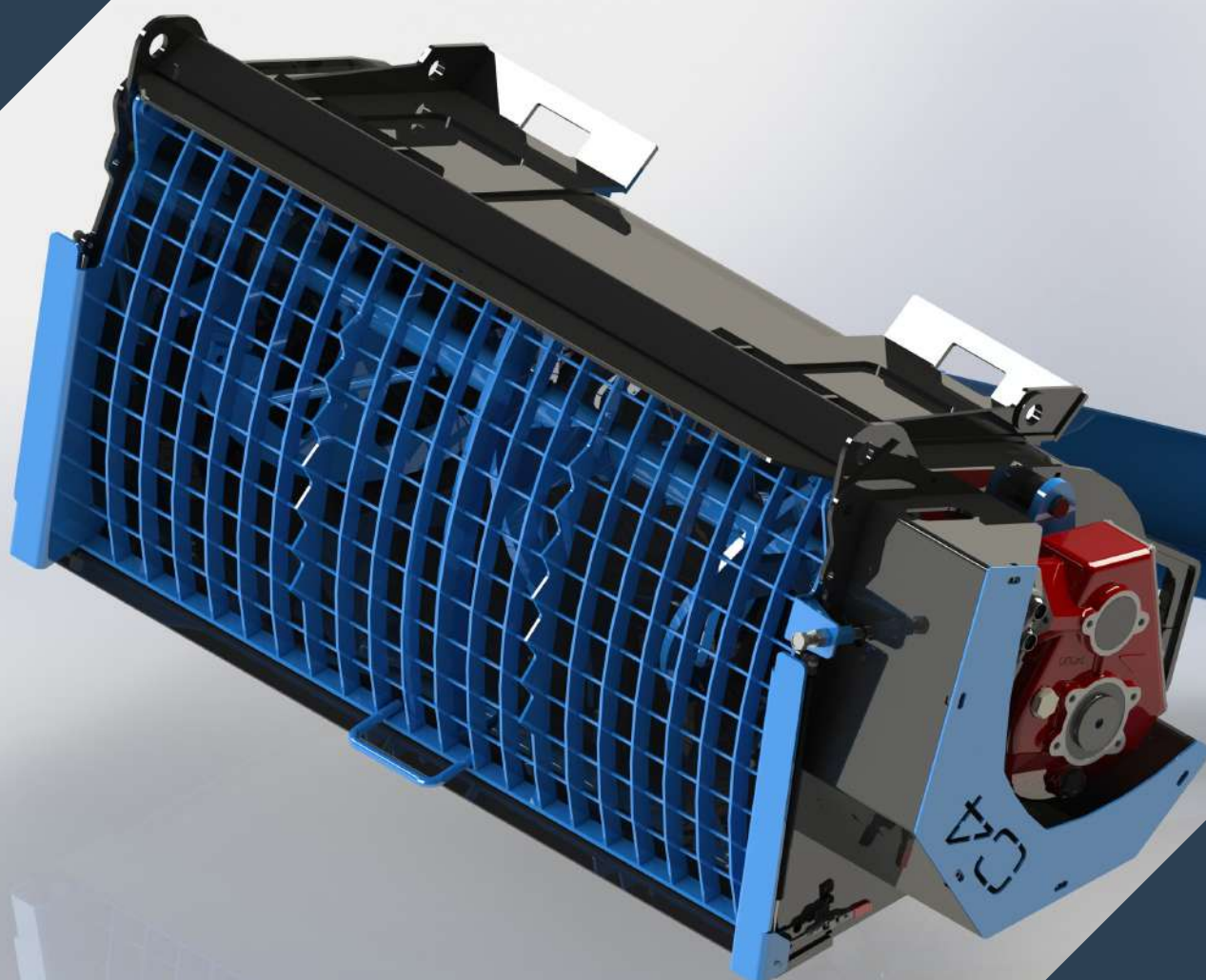


In the case of a conical wood splitter tip and of stump grinder, the blocks of the rotation on the two pins to direct in way precisely the tip and put pressure on wood without the auger undergoing any movement spontaneous. Also, for special jobs where it is necessary to use the auger with unusual angles, three were introduced positions for the upper joint to tilt forward or backward the auger assembly by approx 25 degrees.





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SERIES BM

MIXING BUCKETS FOR SKID-STEER
LOADERS AND EXCAVATORS

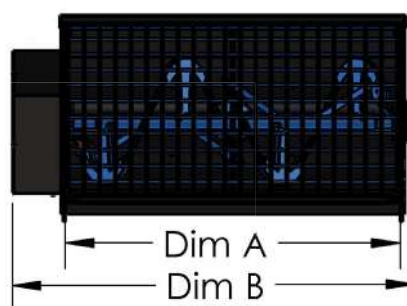
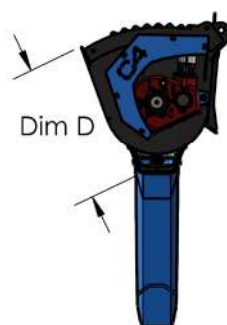
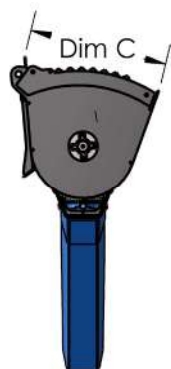
BM150
BM200
BM250
BM350
BM450

MIXING BUCKETS

SERIE BM

BM150
BM200
BM250
BM350
BM450

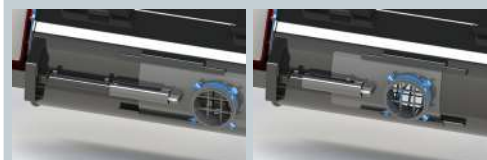
MODEL	BM150	BM200	BM250	BM350	BM450
DIMENSION A (mm)	1000	1250	1250	1350	1650
DIMENSION B (mm)	1260	1490	1490	1590	1890
DIMENSION C (mm)	560	560	620	730	730
DIMENSION D (mm)	630	630	730	840	840
WEIGHT (Kg)	200	310	350	450	510
FULL LOAD WIGHT (bar)	500	780	930	1250	1500
CAPACITÀ A RASO COCLEA (lt)	150	200	250	350	450
MAX PRESSURE (bar)	140	140	140	140	140



Orbital motor with relief valve Integrated. Transmission with reducer.



Bucket and mixer arms in Hardox.



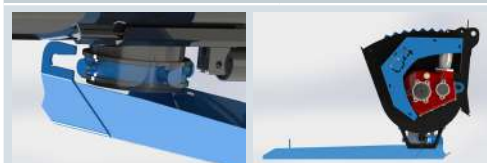
The particular configuration of the rotor and mixing arms allows you to make the drain slide in central position, the drain is opened with an hydraulic cylinder, controlled by a six-way solenoid valve.



Available with standard skid steer attachment, available as **optional**: customized skid-steer attachment. Available as an **option**: hitch for excavator with pins or customized.



Available as an **option**: easy opening of the protection grille with gas shock absorbers and device hydraulic block of the auger.



Slide with quick coupling, can be positioned without the need to park under the car, thus avoiding situations of danger.



Rotating slide, has the possibility of being rotated 360 degrees.



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SERIES BS

SWEEPER BUCKETS FOR
SKID-STEER LOADERS

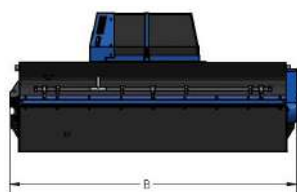
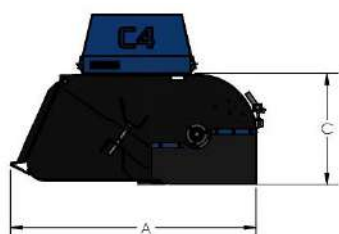
BS150
BS165
BS180
BS210

SWEEPER BUCKETS

SERIES BS

BS150
BS165
BS180
BS210

MODEL	BS150	BS165	BS180	BS210
BRUSH DIAMETER (mm)	560	560	560	560
WORKING WIDTH (mm)	1500	1650	1800	2100
WORKING WIDTH WITH BRUSH (mm)	1950	2100	2250	2550
WEIGHT (Kg)	400	425	450	500
PRESSURE (bar)	180	180	180	180
CAPACITY (lt)	450	480	510	560
SECTIONS	35	38	41	47
DIMENSION A (mm)	1425	1425	1425	1425
DIMENSION B (mm)	1688	1838	1988	2288
DIMENSION C (mm)	615	615	615	615



Engine supported by extension with bearings inside the machine.



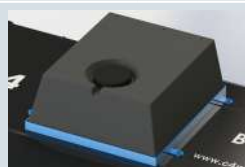
Chain transmission.



Front protection e rubber side.



Standard with coupling for skid-steer, **optional**: custom coupling.



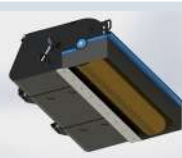
Available as **optional**: system of spraying water with electric pump e 100 liter tank for dust suppression.



Available as **optional**: wire side brush for cleaning road curbs, complete with pipes and engine.



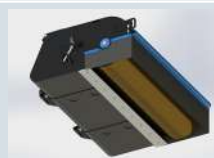
Slotted brush support arm, to ensure constant resting on the ground and avoid damaging the brush unit.



Front roller connected to the collection bucket by hinges to facilitate cleaning of the machine. With rotor height adjustment to ensure a optimal functioning and compensate for progressive wear brushes. Replaceable Hardox lower blade e reversible.



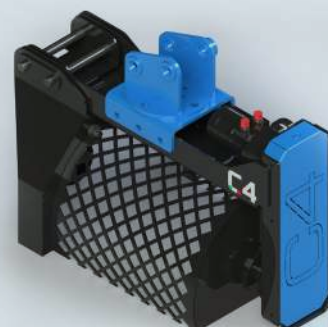
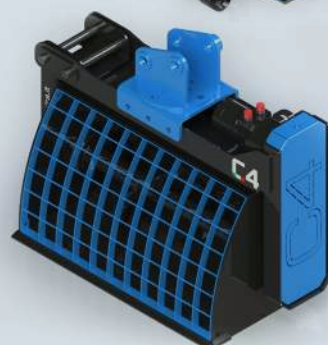
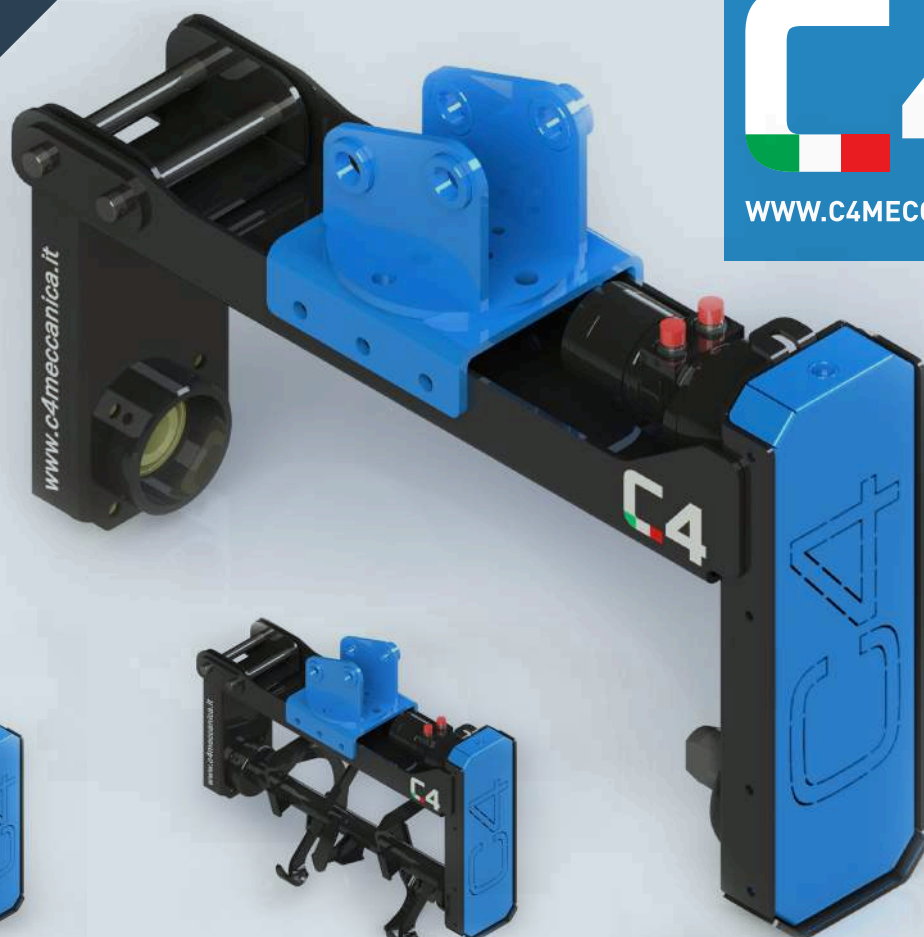
Side brush, adjustable in 4 positions. High rest location and close to the machine for not occupy the roadway.



Polypropylene brush set or steel brushes for heavier jobs.



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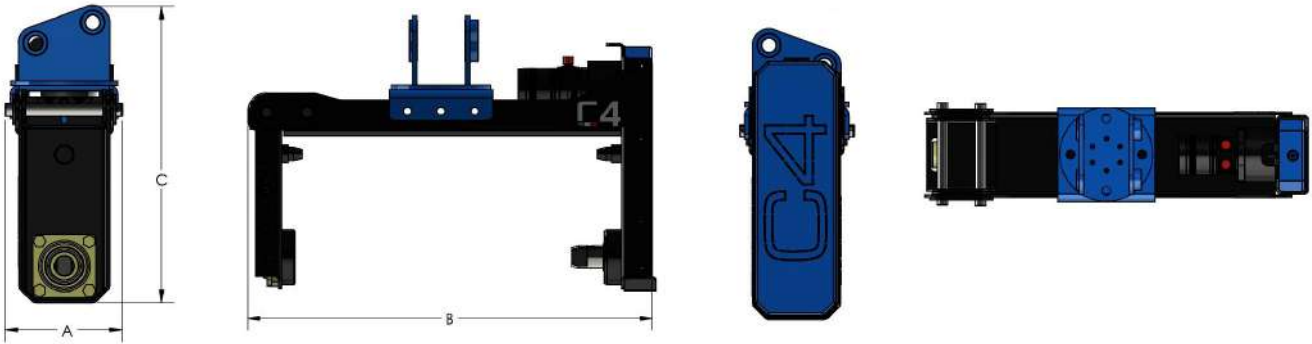
MULTITOOOL

MULTIFUNCTION EQUIPMENT
FOR EXCAVATORS
FROM 1.8 TO 3 TON

MULTIFUNCTION
EQUIPMENT

MULTITOOL

MODEL	MULTITOOL
WEIGHT (Kg)	61
OIL PRESSURE (bar)	200
OIL FLOW (l/min)	20-50
DIMENSION A (mm)	240
DIMENSION B (mm)	908
DIMENSION C (mm)	612



A NEW C4 BRANDED PRODUCT TOWARDS MINI EXCAVATORS.

Its use is foreseen on excavators from 1.8 to 3 tons.

The hydraulic system has been suitably designed and sized to ensure downstream the power required by the tool group and upstream to adapt to the incoming oil flow rates by the excavator. The heart of the equipment is the tool support cradle, which is the interface that allows the connection of many tools to the tool holder frame while keeping only one main machine body. These features make our Multitool a product externally versatile and useful for many uses.



Quick exchange tool's system through pins.



Transmission with reduced chain.



Standard with adjustable saddle on 4 positions.

ACCESSORIES

CATENARY



Tool for creating excavations. Standard with material extraction screw.

WEIGHT (Kg)	65
NUMBER OF TOOLS	26
DEPTH OF CUT (mm)	500
DIGGING WIDTH (mm)	60

AERATOR



Tool for the care and maintenance of the turf.

WEIGHT (Kg)	50
LENGTH (mm)	700
DIAMETER (mm)	335
NUMBER OF TIPS	40



MULTIFUNCTION EQUIPMENT

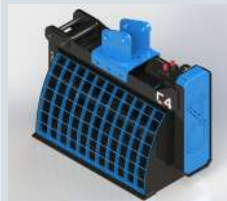
ROTARY TILLERS



Soil cultivation tool. Available with 2 types of rotor.

WEIGHT (Kg)	22
LENGTH (mm)	678
WORKING DEPTH (mm)	125
NUMBER OF TOOLS	8/20

MIXER



Tool for mixing construction and agricultural products. Standard with protective grille and front exhaust.

WEIGHT (Kg)	50
CAPACITY (lt)	70
LENGTH (mm)	720

SCREENING MACHINE



Tool for separating rock material from the ground. Standard with lateral material loading.

WEIGHT (Kg)	45
DIAMETER (mm)	240
LENGTH (mm)	490

SWEEPER

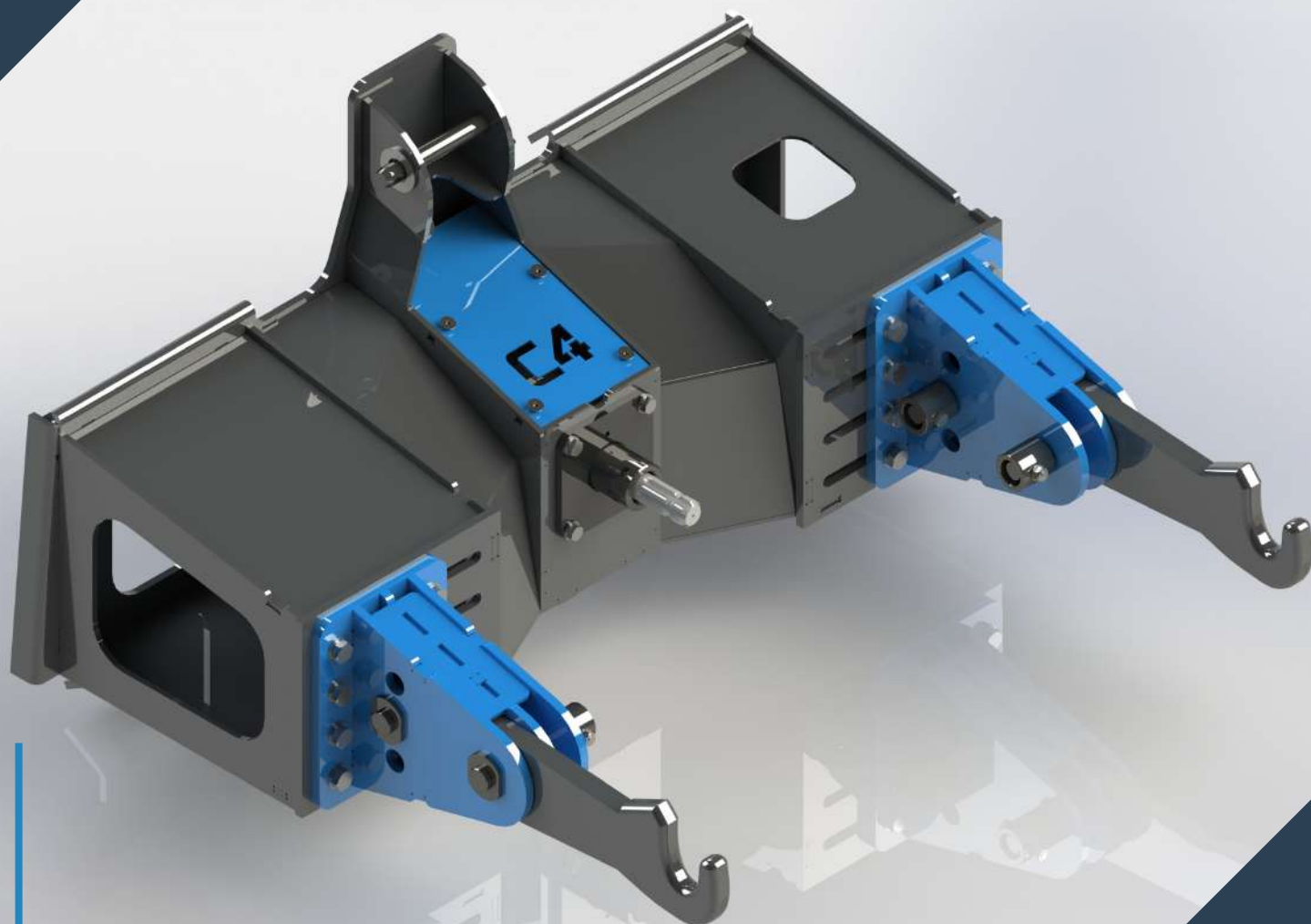


Road edge cleaning tool. Standard with collection tank and interchangeable brushes in PTFE.

WEIGHT (Kg)	55
LENGTH (mm)	700
NUMBER OF BRUSHES	21



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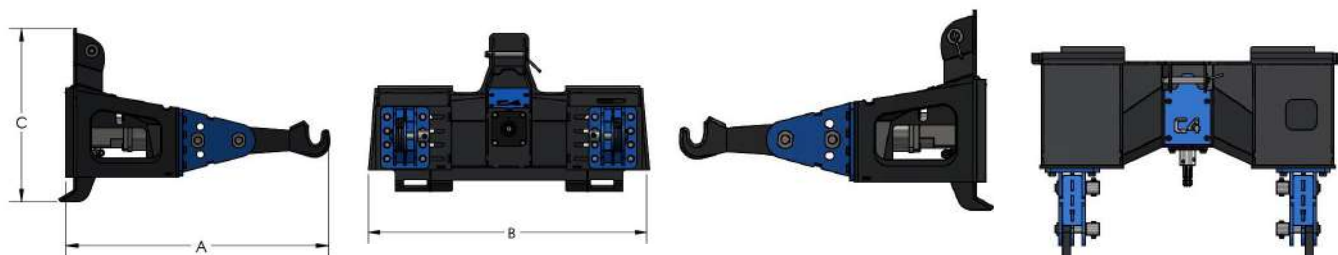
MA ADAPTER

ADAPTER FOR THE USE OF
AGRICULTURAL EQUIPMENT ON
SKID-STEER LOADER

ADAPTER

MA ADAPTER

MODEL	MA ADAPTER
WEIGHT (Kg)	240
OIL PRESSURE (bar)	200
OIL FLOW (l/min)	80-130
DIMENSION A (mm)	1037
DIMENSION B (mm)	1198
DIMENSION C (mm)	681



ADAPTER FOR THE USE OF AGRICULTURAL EQUIPMENT ON SKID-STEER LOADER.

The adapter was developed and built focusing on robustness allowing it to do cope with even the heaviest loads. The presence of height and width adjustments allows to our adapter to interface with any type of equipment, emulating the capabilities of 3-point hitch used on agricultural vehicles. The large amount of oil present on the skid steer loaders allows this accessory to perform any task effortlessly.



Standard with standard attachment for skid steer. Available as an **optional**: attack customized.



3-point linkage arms Cat.1 / 2 adjustable in width.



3-point hitch arms Cat.1 / 2 vertically adjustable up 3 positions.



Orbital hydraulic motor sized according to the skid steer. Mounted on extension with bearings to preserve the life of the motor.

NOTE


Handwriting practice area with 20 sets of dotted lines for tracing on a lined background.

Handwriting practice lines consisting of 28 horizontal dotted lines.



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