



# CATALOGUE



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02  
rev.0





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**Green  
Energy**

	MIXER BUCKET WITH CENTRAL DISCHARGE	p.8	✓	✓	✓	✓	✓	✓
	MIXER BUCKET WITH SIDE DISCHARGE	p.10	✓	✓	✓	✓	✓	✓
	TWIN DOOR MIXER BUCKET	p.12	✓	✓	✓	✓	✓	✓
	SWEEPER BUCKET HD	p.16	✓	✓	✓	✓	-	✓
	SWEEPER BUCKET F	p.18	-	-	✓	✓	✓	✓
	SWEEPER BUCKET D	p.20	-	✓	✓	✓	✓	✓
	SWEEPER BUCKET DS	p.22	-	✓	✓	✓	-	-
	SWEEPER BUCKET C	p.24	-	✓	✓	-	-	-
	BROOM SWEEPER	p.26	✓	-	✓	-	✓	-
	ANGLED BROOM SWEEPER	p.28	-	-	✓	-	-	✓
	EXCAVATOR SWEEPER	p.30	✓	-	-	-	-	-
	QUICK-HITCH	p.32	-	✓	-	✓	-	-
	ISO 24410 ADAPTOR	p.33	✓	✓	✓	✓	-	-
	FORK CARRIAGE	p.34	✓	✓	✓	✓	-	✓
	GRADER BLADE	p.38	-	-	-	-	-	✓
	DUAL GRADER BLADE	p.40	-	-	-	-	-	✓
	DOZER BLADE	p.44	-	✓	-	-	-	✓
	TILT DOZER BLADE	p.46	-	✓	-	-	-	✓
	LEVELING BOX DOZER BLADE	p.48	-	-	-	-	-	✓
	SNOW PLOW	p.50	-	✓	✓	-	-	✓

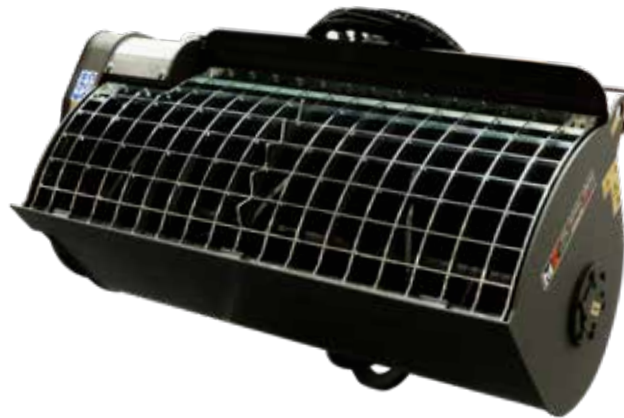
								
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# MIXING

- Bottom and helix made of wear resistant STEEL 450HBW
- Rounded fixed safety grill complete with bag breaker
- Electric valve, hydraulic hoses + electric connection kit
- Coupling to the machine



## MIXER BUCKET WITH CENTRAL DISCHARGE



- Welded helix made of wear steel 450HBW
- Unloading pipe 1500mm length
- Sintered steel seal group

### Suitable for any type of earth moving machine:

Skid loader	150/200/250/350/450
Backhoe loaders-Compact wheel loaders	BM450/600/700
Wheel loaders	BM1100/1500/2000
Telehandlers	2/2,5 t BM350/450 3/4 t BM600 >4,5 t BM700
Excavators	starting from 3,5 t

## MIXER BUCKET WITH SIDE DISCHARGE



Bolted helix made of wear steel 450HBW

Hydraulic motor fully protected

Unloading pipe (length 1500mm)

Bolted bracket as standard supply, starting from class 3 models

Polyurethane seal group

### Suitable for any type of earth moving machine:

Skid loader\_\_\_\_\_BM100/150/200/250/330/400SL

Backhoe loaders-Compact wheel loaders\_\_\_\_\_BM400/500/600SL

Wheel loaders\_\_\_\_\_BM700/1100SL

Telehandlers\_\_\_\_\_2/2,5 t BM250/330/400SL

3/4 t BM500/600SL

>4,5 t BM700SL

Excavators\_\_\_\_\_starting from 3,5 t

## TWIN DOOR MIXER BUCKET



Bolted helix made of wear steel 450HBW

Hydraulic motor fully protected

Unloading pipe (length 1500mm) and side chute

Bolted bracket as standard supply, starting from class 3 models

Polyurethane seal group

### Suitable for any type of earth moving machine:

Skid loader\_\_\_\_\_BM150/200/250/330/400TD

Backhoe loaders-Compact wheel loaders\_\_\_\_\_BM400/500/600TD

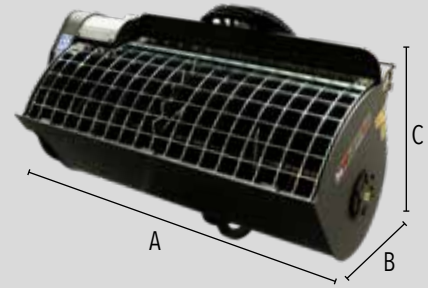
Wheel loaders\_\_\_\_\_BM700/1100TD

Telehandlers\_\_\_\_\_2/2,5 t BM250/330/400TD

3/4 t BM500/600TD

>4,5 t BM700TD

Excavators\_\_\_\_\_starting from 3,5 t



## DIMENSIONS

		BM 150	BM 200	BM 250	BM 350	BM 450	BM 600	BM 700	BM 1100	BM 1500	BM 2000
A	Width	1310	1350	1505	1520	1620	1900	1900	2165	2260	2780
B	Depth	800	800	830	900	900	1000	1100	1320	1450	1400
C	Height	600	670	690	815	815	910	1030	1160	1180	1500

The concrete mixer bucket M3 is equipped with: BOTTOM AND HELIX made of wear resistant STEEL 450 HBW - Rounded fixed safety grid complete with bag-breaker - Electric valve - Hydraulic hoses - Electric connection kit - Flat Face couplings (only on SSL) - hydraulic opening of the bottom through a cylinder with covered rod - chain tensioner - unloading pipe length mm 1500 - coupling to the machine.

By matching the mixing bucket to compact loaders, please consider the following: the operating load of the machine  $\geq$  the full load weight of the mixer bucket. In case the longitudinal and the horizontal distance of the center of gravity of the mixing bucket is lower than the one of the standard bucket (according to the data supplied by the manufacturer of the mixing bucket) it is possible to add the weight of the standard bucket to the operating load.

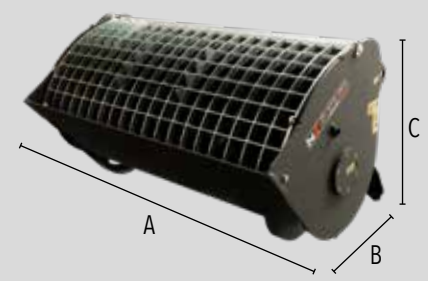
## OPTIONALS

	Protection grid with hydraulic opening and safety valve.	Protection grid with manual opening, gas springs and safety sensor.
Bolted bracket	Electric spring winder	Excavator bracket - direct coupling
8 / 14 pins connector		



MODEL	BM 150	BM 200	BM 250	BM 350	BM 450	BM 600	BM 700	BM 1100	BM 1500	BM 2000
Capacity [L]	150	200	250	350	450	600	700	1100	1500	2000
Transmission	chain	chain	chain	chain	chain	chain	chain	chain	chain, 2 motors	chain, 2 motors
Empty weight [kg]	275	310	380	395	420	630	710	1250	1700	2100
Full load weight [kg]	635	790	980	1235	1500	2070	2390	3890	5300	6900
Min/max flow rate [L/min]	30/40	30/40	30/75	35/75	35/75	65/75	70/150	100/114	140/300	200/228
Max pression cont/peak [bar]	140/205	140/205	230/300	210/300	210/300	140/300	150/310	205/330	150/310	205/330





DIMENSIONS

		BM 100 SL*	BM 150 SL	BM 200 SL	BM 250 SL	BM 330 SL	BM 400 SL	BM 500 SL	BM 600 SL	BM 700 SL	BM 1100 SL
A	Width	1180	1285	1490	1495	1605	1715	1795	1940	2090	2160
B	Depth	700	660	660	860	860	860	1075	1075	1075	1305
C	Height	560	645	645	800	800	800	1033	1033	1033	1250

The concrete mixer bucket M3 model SL is equipped with: safety rounded grill with bag splitter - BOTTOM and bolted HELIX made of wear steel 450 HBW - hydraulic motor fully protected - chain tensioner - electric valve with hydraulic hoses - electrical connection kit - hydraulic hoses - flat face couplings (only for SSL) - hydraulic opening of the bottom through a cylinder with covered rod - unloading pipe L=1500 mm.- coupling to the machine (standard bolted bracket, starting from the model BM 500 SL).

By matching the mixing bucket to compact loaders, please consider the following: the operating load of the machine  $\geq$  the full load weight of the mixer bucket.

OPTIONALS

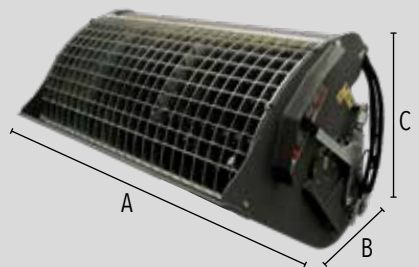
	Hydraulic opening of the safety grill including the safety valve.	Protection grid with manual opening, gas springs and safety sensor.
Bolted bracket	Electric spring winder	Excavator bracket - direct coupling
8 / 14 pins connector	Side chute	



MODEL	BM 100 SL*	BM 150 SL	BM 200 SL	BM 250 SL	BM 330 SL	BM 400 SL	BM 500 SL	BM 600 SL	BM 700 SL	BM 1100 SL
Class	-	1	1	2	2	2	3	3	3	4
Capacity [L]	100	150	200	250	330	400	500	600	700	1100
Transmission	gear unit	chain	chain	chain	chain	chain	chain	chain	chain	chain
Empty weight [kg]	205	290	315	415	435	460	695	715	765	1030
Full load weight [kg]	445	650	795	1015	1227	1418	1895	2155	2445	3670
Min/max flow rate [L/min]	25/70	30/60	30/60	40/75	35/75	35/75	70/150	70/150	70/150	100/115
Max pression cont/peak [bar]	140/225	175/225	175/225	175/225	210/300	210/300	150/310	150/310	150/310	205/330

\* bucket with manual side discharge, without unloading pipe and electro valve





## DIMENSIONS

		BM 150 TD	BM 200 TD	BM 250 TD	BM 330 TD	BM 400 TD	BM 500 TD	BM 600 TD	BM 700 TD	BM 1100 TD
A	Width	1350	1560	1560	1670	1780	1865	2010	2160	2280
B	Depth	660	660	860	860	860	1075	1075	1075	1305
C	Height	645	645	800	800	800	1033	1033	1033	1250

The concrete mixer bucket M3 model TD is equipped with: safety grill with bag splitter - BOTTOM and bolted HELIX made of wear resistant steel 450 HBW - hydraulic motor fully protected - chain tensioner - electric valve with hydraulic hoses - electric connection kit -hydraulic hoses - flat face couplings (only for SSL) - hydraulic opening of the bottom through a cylinder with covered rod - manually-operated side discharge - unloading pipe L=1500 mm - side chute extension – coupling to the machine (standard bolted bracket starting from mod. BM500TD).

By matching the mixing bucket to compact loaders, please consider the following: the operating load of the machine  $\geq$  the full load weight of the mixer bucket.

## OPTIONALS

	Protection grid with manual opening, gas springs and safety sensor.	Bolted bracket
Electric spring winder	Excavator bracket - direct coupling	



MODEL	BM 150 TD	BM 200 TD	BM 250 TD	BM 330 TD	BM 400 TD	BM 500 TD	BM 600 TD	BM 700 TD	BM 1100 TD
Class	1	1	2	2	2	3	3	3	4
Capacity [L]	150	200	250	330	400	500	600	700	1100
Transmission	chain	chain	chain	chain	chain	chain	chain	chain	chain
Empty weight [kg]	310	335	435	455	480	720	740	790	1060
Full load weight [kg]	670	815	1035	1247	1440	1920	2180	2470	3700
Min/max flow rate [L/min]	30/60	30/60	40/75	35/75	35/75	70/150	70/150	70/150	100/115
Max pression cont/peak [bar]	175/225	175/225	175/225	210/300	210/300	150/310	150/310	150/310	205/330



## GROUND SWEEPING

- Collecting bucket
- Polypropylene brush
- Coupling to the machine
- Extremely tough and rugged



### SWEeper BUCKET HD



Direct drive motor

Brushes made of PPN Ø550 mm

Double-bevelled blade & reinforcements made of steel HBW450

It is operated forward & backwards

### SWEeper BUCKET F



PPN brush Ø550 mm

No. 3 support wheels Ø250x70mm

Collection bucket with hydraulic opening and closing.

It is operated only forward

Floating system for forklift or forks

## SWEeper BUCKET D



Ø590 mm polypropylene brush

N. 2 Ø250x50mm support wheels

Mechanical working angle adjustment

Hydraulic opening and closing of the collection bucket

It is operated only forward

Hooks for: forklift, tractor, earth moving machines

Suitable for skid loader, backhoe loader, wheel loader, and forklift up to 7 T; and tractors

## SWEeper BUCKET DS



Ø660 mm polypropylene brush

N. 3 Ø250x60mm support wheels

Built-in motor

Mechanical working angle adjustment

Hydraulic opening and closing of the collection bucket

It is operated only forward

Hooks for: forklift, tractor, earth moving machines

Suitable for wheel loader, backhoe loader and telehandlers from 5 to 12 T, tractors from 100 HP and forklifts from 3,5 T

## SWEeper BUCKET C



Ø750 mm polypropylene brush

N. 3 Ø405x110mm support wheels

Built-in motor

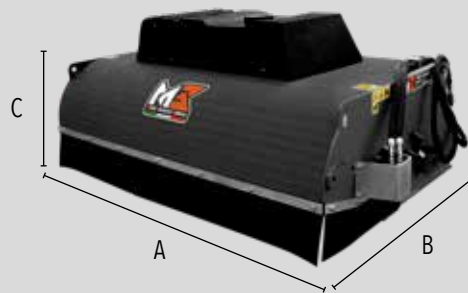
Mechanical working angle adjustment

Hydraulic opening and closing of the collection bucket

It is operated only forward

Hooks for: forklift, tractor, earth moving machines

Suitable for wheel loaders and telehandlers starting from 12 T and tractors from 100 HP



## DIMENSIONS

		BS 140 HD	BS 155 HD	BS 180 HD	BS 210 HD	BS 240 HD
A	Width	1670	1770	2070	2270	2610
B	Depth	1450	1450	1450	1450	1450
C	Height	620	620	620	620	640

The experience acquired over the years on the use of sweeper buckets has allowed us to make some improvements. The steel wear-resistant reinforcements in the most stressed points of the collection bucket, the bolted and reversible blade in 450 HBW make the use of the HD sweeper buckets suitable for both burdensome construction sites and in normal road maintenance. The motor with direct transmission reduces the maintenance and significantly reduces the time required for the roller replacement. It is supplied with collection bucket with reinforcements in Hardox 450 HBW, brush shaft Ø 550 mm (Ø 600 mm for BS240HD) in PPN, bolted reversible blade, hydraulic hoses with quick hitches and coupling for skid loader. Equipped with coupling for backhoe loaders, wheel loaders or telehandlers only for model BS240D.

## OPTIONALS

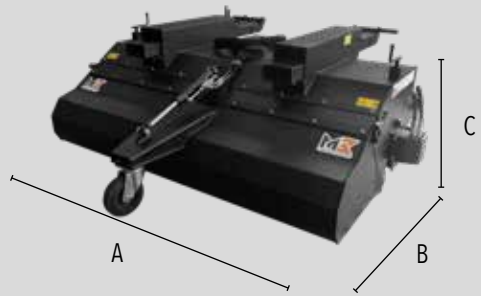
	Nebulizers kit (without tank)	Brush shaft with mixed STEEL/PPN rings
Side brush r/l Ø 600 mm in polypropylene	Sprinkler kit 100 L / 200 L (only BS 240 HD) with electric pump and hose with nebulizers	Falling gravity sprinkler kit with 100 L tank
Connector 8/14 poles		



MODEL	BS 140 HD	BS 155 HD	BS 180 HD	BS 210 HD	BS 240 HD
Working width [mm]	1400	1600	1800	2100	2400
Weight [kg]*	280	400	440	470	780
Min/max flow rate [L/min]	50/90	50/90	50/90	50/90	75/90
Min/max pressure [bar]	230/295	230/295	230/295	230/295	230/300
Ø Brush [mm]	550	550	550	550	600
Number of rollers [n°]	2x700	2x750	1x800 - 1x1000	2x1000	3x750
Bucket capacity [L]	385	450	510	560	620

\* the value indicated in the table refers to the weight of the sweeper with universal coupling for skid loader (except for BS 240 HD)





# DIMENSIONS

		BS 150 F	BS 180 F	BS 210 F	BS 240 F
A	Width	1760	2060	2360	2660
B	Depth	1900	1900	1900	1900
C	Height	735	735	735	735

- Collection bucket with hydraulic opening and closing
- PPN brush
- N.3 support wheels
- Floating system for forks

The new sweeper bucket M3 F-series is suitable for forklifts and, generally speaking, for all machinery equipped with forks. It can be used in the industrial, agricultural and nursery sectors. It is operated only forward. Thanks to the quick installation, it looks handy and fast for the cleaning of every surface, from big industrial areas to yards, from roads and car parks to farms and riding schools. It is equipped with: collection bucket with hydraulic opening and closing, floating system for forks, three support wheels and PPN brush Ø 550 mm. (Ø 600 mm for BS240F).

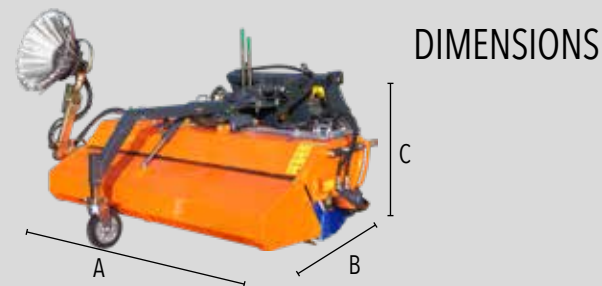
## OPTIONALS

	Sprinkler kit 100 / 200 L (only for BS240F), with electric pump and hose with nebulizers	Hose kit with nebulizers (for sprinkler kit with tank already installed)
Side brush r/l Ø 600 mm in polypropylene	Nebulizers kit for side brush	Brush shaft with mixed STEEL - PPN rings



MODEL	BS 150 F	BS 180 F	BS 210 F	BS 240 F
Working width [mm]	1500	1800	2000	2400
Weight [kg]	450	500	550	600
Required oil flow [L/min]	30÷45	30÷45	30÷45	30÷45
Flow rate cont/int [L/min]	75÷90	75÷90	75÷90	75÷90
Max pressure cont/int [bar]	230÷295	230÷295	230÷295	230÷295
Ø Brush [mm]	550	550	550	600
Number of rollers [n°]	2x750	1x800 - 1x1000	2x1000	3x750
Collection bucket capacity [L]	190	225	261	320





DIMENSIONS

		BS 135 D	BS 150 D	BS 180 D	BS 200 D	BS 230 D	BS 260 D
A	Width	1680	1830	2130	2330	2630	2930
B	Depth	1650	1650	1650	1650	1650	1650
C	Height	1200	1200	1200	1200	1200	1200

The sweeper bucket M3 series D is designed for customers who work both in the field of cable or phone laying sectors and of road maintenance.

It can be fitted to any kind of skid loader, backhoe loader, wheel loader, and forklift up to 7 T; and tractors. It is equipped with hydraulically driven collecting bucket - polypropylene brush Ø 590 mm., no. 2 support wheels 250x50 mm, hydraulic hoses, floating system and mechanical adjustment of the work angle.

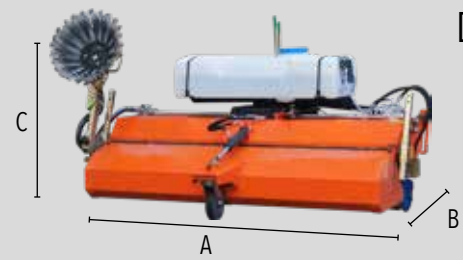
## OPTIONALS

	Overflow valve	3rd front wheel Ø 250x50 mm
Ø600 mm PPN side brush right/left	Internal hydraulic motor	Hydraulic working angling adjustment (an additional hydraulic line is required)
100 L water tank with electric pump and nebulizers	200 L water tank with electric pump and nebulizers (not available in mod. BS135D)	Solenoid valve kit to operate the hydraulic adjustment (if the machine is not equipped with 2 hydraulic lines)



MODEL	BS 135 D	BS 150 D	BS 180 D	BS 200 D	BS 230 D	BS 260 D
Working width [mm]	1350	1500	1800	2000	2300	2600
Working width with 20° angle [mm]	1270	1410	1690	1880	2160	2440
Required oil flow (at 160bar) [L/min]	30	30	30	40	40	50
Ø Brush [mm]	590	590	590	590	590	590
Weight with collecting bucket [kg]	329	344	373	398	429	462
Capacity of collecting bucket [L]	166	184	220	244	280	315
Number of rings [n°]	25	28	34	38	44	50





# DIMENSIONS

		BS 200 DS	BS 230 DS	BS 260 DS	BS 280 DS
A	Width	2230	2530	2830	2990
B	Depth	1850	1850	1850	1850
C	Height	1200	1200	1200	1200

The sweeper bucket M3 series DS is designed for customers who work both in the field of cable or phone laying sectors and in the road maintenance, or for the clean-up of big external areas.

It can be fitted to any kind of wheel loader, backhoe loader and telehandlers from 5 to 12 T, tractors from 100 HP and forklifts from 3,5 T. It is equipped with hydraulic collecting bucket - PPN brush Ø 660 mm., no. 3 support wheels 250x60 mm, hydraulic hoses, integrated motor, floating system and mechanical adjustment of the work angle.

## OPTIONALS

	Overflow valve	Side brush right or left Ø 600 mm in PPN and STEEL
Solenoid valve kit to operate the hydraulic adjustment (if the machine is not equipped with 2 hydraulic lines)	Water tank 200 l with electric pump and nebulizers	Hydraulic working angling adjustment (an additional hydraulic line is required)
Nebulizer kit (without tank)		



MODEL	BS 200 DS	BS 230 DS	BS 260 DS	BS 280 DS
Working width [mm]	2000	2300	2600	2800
Working width with 20° angle [mm]	1880	2160	2440	2600
Required oil flow (at 160bar) [L/min]	40	40	50	50
Ø Brush [mm]	660	660	660	660
Weight with collecting bucket [kg]	575	610	644	661
Capacity of collecting bucket [L]	315	361	407	431
Number of rings [n°]	38	44	50	53





DIMENSIONS

		BS 210 C	BS 240 C	BS 280 C
A	Width	2360	2660	2990
B	Depth	2230	2230	2230
C	Height	1200	1200	1200

The Sweeper bucket M3 series D is designed for customers who work both in the field of road maintenance and of the cleanup of huge areas. It can be fitted to any kind of wheel loaders and telehandlers starting from 12 T and tractors from 100 HP. It is equipped with hydraulically-driven collecting bucket – polypropylene brush Ø 750 mm, no. 3 support wheels 405x110 mm, hydraulic hoses, integrated motor, floating system, and mechanical adjustment system of the work angle.

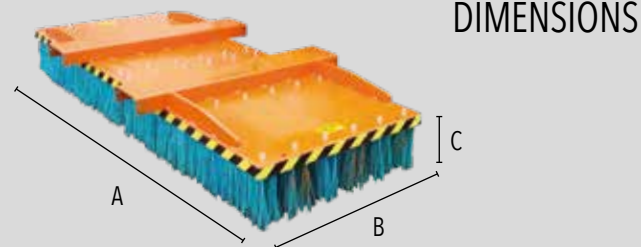
## OPTIONALS

	Overflow valve	Extra strong wheels Ø 410x145 mm
Side brush right or left Ø 750 mm in PPN and STEEL	Solenoid valve kit to operate the hydraulic adjustment (if the machine is not equipped with 2 hydraulic lines)	Hydraulic working angling adjustment (an additional hydraulic line is required)
Water tank 200 l with electric pump and nebulizers	Water tank 400 l with electric pump and nebulizers	Nebulizer kit (without tank)



MODEL	BS 210 C	BS 240 C	BS 280 C
Working width [mm]	2100	2400	2800
Working width with 20° angle [mm]	1950	2250	2550
Required oil flow (at 160bar) [L/min]	56	56	56
Ø Brush [mm]	750	750	750
Weight with collecting bucket [kg]	795	904	957
Capacity of collecting bucket [L]	450	480	550
Number of rings [n°]	48	56	66





## DIMENSIONS

		SI 150I	SI 151I	SI 150IP	SI 151IP	SI 200I	SI 201I	SI 200IP	SI 201IP	SI 250I	SI 251I	SI 250IP	SI 251IP	SI 300I	SI 300IP	SI 201IR	SI 251IR
A	Width	1400	1400	1400	1400	1900	1900	1900	1900	2400	2400	2400	2400	2900	2900	1900	2400
B	Depth	500	700	500	700	700	1000	700	1000	700	1000	700	1000	1000	1000	1000	1000
C	Height	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400

- With interchangeable welded iron strips (I series) or interchangeable PPN strips (IP series)
- Coupling for lifting forks

The broom sweeper M3 is suitable for the cleaning of large yards, industrial and market areas, and for the scrap collection. It can be fitted to any type of forklift or machinery. It is wear-resistant and completely recyclable. It is equipped with interchangeable welded iron strips (series I) or interchangeable strips in PPN (series IP), or in a reinforced version with thickness 8 mm with iron strips (IR series) with lifting forks.

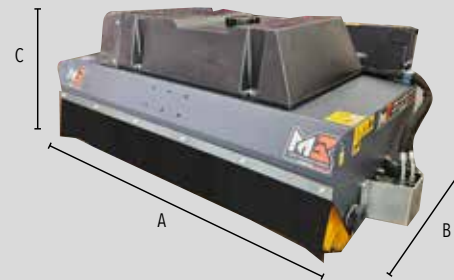
## OPTIONALS

	Spare kit - PPN strips	Spare kit - IRON strips
Frontal push blade	Containment sides	



MODEL	SI 150 I	SI 151 I	SI 150 IP	SI 151 IP	SI 200 I	SI 201 I	SI 200 IP	SI 201 IP	SI 250 I	SI 251 I	SI 250 IP	SI 251 IP	SI 300 I	SI 300 IP	SI 201 IR	SI 251 IR
Working width [mm]	1400	1400	1400	1400	1900	1900	1900	1900	2400	2400	2400	2400	2900	2900	1900	2400
Sectors [n°]	12	15	12	15	20	24	20	24	25	30	25	30	36	36	24	30
Weight [kg]	230	250	200	220	250	270	230	250	340	360	300	330	430	400	450	575





## DIMENSIONS

		SA 150	SA 180	SA 210	SA 240
A	Width	1770	2070	2270	2670
B	Depth	1620	1620	1620	1620
C	Height	650	650	650	650

- Coupling for skid steer loaders
- Direct drive hydraulic motor

The angle broom sweeper M3 fits any kind of skid steer loaders, backhoe and wheel loaders and telehandlers (up to 80 HP). Thanks to its strong structure it can be used for the cleaning of construction yards, streets, large courtyard areas or as a snow blade, in case of light snowfalls.

It is equipped with hydraulic motor with direct transmission, hydraulic hoses complete with quick couplings (only on SSL), +/-30° mechanical adjustment of the work angle, PPN brush Ø 550 mm, no. 2 support wheels Ø 200x50 mm and SSL coupling.

## OPTIONALS

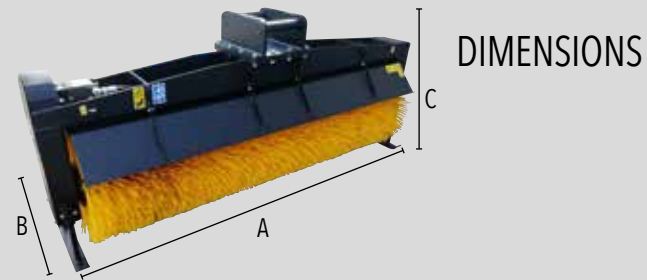
	Floating Coupling with 3rd wheel	Hydraulic Angling complete with valve and cylinder
Sprinkler kit with 100 L Tank, electric pump and hoses with nebulizers	3rd wheel Ø 200x50 mm	



MODEL	SA 150	SA 180	SA 210	SA 240
Working width [mm]	1500	1800	2100	2400
Working width with 30° angle [mm]	1299	1566	1736	2078
Min/max flow rate [L/min]	25/100	25/100	25/100	25/100
Min/max pressure [bar]	100/250	100/250	100/250	100/250
Ø Brush [mm]	550	550	550	550
Number of rollers [n°]	2x750	1x800 - 1x1000	2x1000	3x800
Weight [kg] *	295	310	380	416

\* The value indicated in the table refers to the weight of the sweeper with universal coupling for skid loaders





DIMENSIONS

		SPE 150	SPE 180	SPE 210
A	Width	1760	2060	2360
B	Depth	600	600	600
C	Height	816	816	816

- Hydraulic motor with chain transmission
- Drilled flat plate to bolt the excavator bracket on

The excavator sweeper M3 is the best solution to clean trenches, road edges and places difficult to be reached.

The sweeper is supplied with hydraulic motor with chain transmission, hydraulic hoses L. 2000 mm (without quick couplings ),PPN brush Ø 600 mm, and bolted drilled plate (bracket not included).

## OPTIONALS

Bolt-in bracket for excavator	Brush rings mixed PPN/steel
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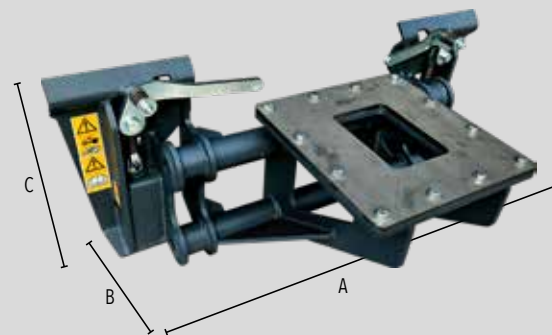
MODEL	SPE 150	SPE 180	SPE 210
Working width [mm]	1500	1800	2100
Max pressure [bar]	180	180	180
Oil flow [cont - l/min]	60	60	60
Hydraulic motor [cc]	250	250	250
Ø Brush [mm]	600	600	600
Number of rings [n°]	25	30	35
Transmission	chain	chain	chain
Weight [kg]	205	230	250





The Quick-Hitch M3 without modification of the original bucket avoids any intervention in the workshop, significantly increasing the productivity of the machine. It can be fitted to any backhoe loaders. According to the machine, it is supplied with a couple of adapters to be bolted on the original bucket. The Quick-Hitch M3 with modification of the original bucket does neither change the center of gravity of the machine nor alter the load capacity and the breakout force. It is particularly appreciated in tough working conditions, where the best performance is required by the machine. Upon request, it can be supplied with modification of the original bucket in compliance with ISO23727 standard measures.





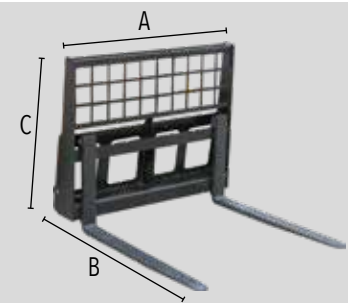
## DIMENSIONS

A	<b>Width</b>	1130
B	<b>Depth</b>	500
C	<b>Height</b>	200

The new adaptor plate M3 can be attached to any equipment with skid steer loader coupling even on other operating machines.

In a quick and easy way, any equipment can be moved from the skid loader to an excavator rather than to a telehandler or any other machinery. The best solution for a fast exchange making your job easier. It is equipped with welded coupling for wheel loaders / backhoe loaders/ telehandlers or with bolted counter plate, where the excavator hooks can be welded on.





# DIMENSIONS

		PPF S10-10	PPF S10-12	PPF S18-10	PPF S18-12	PPF S20-12	PPF 18-12	PPF 20-12	PPF 25-12	PPF 35-12	PPF 45-12	PPF 60-12	PPF 80-12	PPF 120-12
A	Width	1200	1200	1200	1200	1500	1500	1500	1500	1500	1500	1500	1500	1500
B	Depth	1000	1200	1000	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
C	Height	920	920	920	920	970	415	415	415	515	515	645	645	645

- The version for skid steer loader is equipped with protection grid

The Fork Carriage M3 can be attached to any type of skid steer loader, backhoe and wheel-loader, telehandler or excavator Available in various lifting capacities ranging from 1.000 KG up to 12.000 KG with both forks. Upon request available also with lifting capacity up to 30.000 kg. The version

for skid steer loader (PPF SXX) is equipped with protection grid.

## OPTIONALS

Hydraulic side shifter



MODEL	PPF S10-10	PPF S10-12	PPF S18-10	PPF S18-12	PPF S20-12	PPF 18-12	PPF 20-12	PPF 25-12	PPF 35-12	PPF 45-12	PPF 60-12	PPF 80-12	PPF 120-12
Working width [mm]	1200	1200	1200	1200	1500	1500	1500	1500	1500	1500	1500	1500	1500
Forks dimensions [mm]	80x30x1000	80x30x1200	100x35x1000	100x35x1200	120x35x1200	100x35x1200	120x35x1200	120x40x1200	120x45x1200	120x50x1200	150x60x1200	200x60x1200	200x70x1200
Load capacity [kg]	1000	1000	1800	1800	2000	1800	2000	2500	3500	4500	6000	8000	12000
Weight** [kg]	150	160	170	180	420	195*	215*	230*	290*	305*	*****	*****	*****



SIDESHIFT

\* weight without machine coupling / \*\* weight without hydraulic side shifter

## GROUND LEVELLING

- Extremely tough and rugged
- Heavy cylinders
- Pneumatic floating wheels for high adaptability to the ground
- Coupling to the machine

### GRADER BLADE



On/off distributor

ST52 steel structure

Manual flow regulator

Electrical control kit



### DUAL GRADER BLADE



Proportional and on/off distributor

It works both as a grader blade and as a tilt dozer blade

Double bevel curved blade

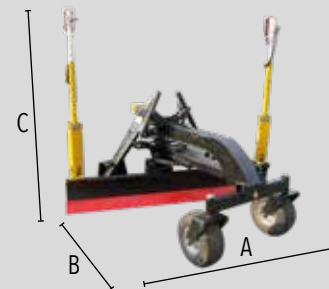
Over center valve on wheel lifting cylinder



Control joystick







# DIMENSIONS

		GR 230	GR 250	GR 270
A	Width	2300	2500	2700
B	Depth	2360	2360	2360
C	Height	1480	1480	1480

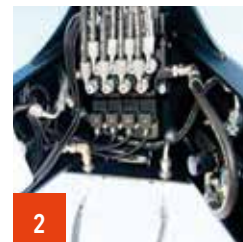
The Grader Blade M3 can be fitted to small skid steer loaders with power ranging from 50 to 120 HP. It is ideal for the preparation and the leveling of lands, roads and yards. It is equipped with the tilt system 32°, oscillation 40° and shift 450 mm of the blade with hydraulic functioning through a control panel, manual flow regulator on the distributor on / off, ST52 steel structure, coupling to the machine, hydraulic hoses and electric control kit.

## OPTIONALS

Laser Control System (1)

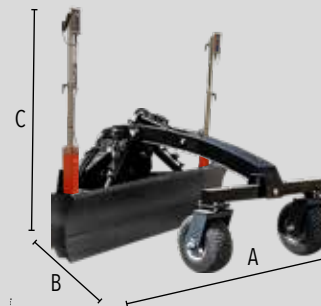
Proportional distributor (2)

Left/right closing plate (3)



MODEL	GR 230	GR 250	GR 270
Blade width [mm]	2300	2500	2700
Weight [kg]	670	690	710
Hydraulic blade inclination R/L	$\pm 38^\circ$	$\pm 38^\circ$	$\pm 38^\circ$
Hydraulic blade oscillation R/L	$\pm 32^\circ$	$\pm 32^\circ$	$\pm 32^\circ$
Hydraulic blade translation [mm]	$\pm 450$	$\pm 450$	$\pm 450$





## DIMENSIONS

**GR 220/270**

A	Width	2200/2700
B	Depth	2500
C	Height	1900

The Grader Blade M3 Model Dual can be fitted to small skid steer loaders with power ranging from 50 to 120 HP. IT is ideal for the preparation and the leveling of lands, roads and yards.

It is equipped with a hydraulic control panel of the 26° inclination system, of the oscillation at 15°, of the blade height adjustment  $\pm 150\text{mm}$ , of the lifting of the front wheels, a distributor on / off, blade extensions, coupling to the machine, hydraulic hoses and electric control kit.

## OPTIONALS

	Laser Control System (transmitter excluded) (1)	Left/right closing plate (2)
Wi-fi control system		



MODEL	GR 220/270
Blade width [mm]	2200/2700
Weight [kg]	850
Hydraulic blade inclination R/L	$\pm 26^{\circ}$
Hydraulic blade oscillation R/L	$\pm 15^{\circ}$
Blade height [mm]	540



## GROUND MOVING

- Extremely tough and rugged
- 30° angle
- Heavy cylinders
- Bolt-on reversible blade made of steel HBW450
- Coupling for skid loader



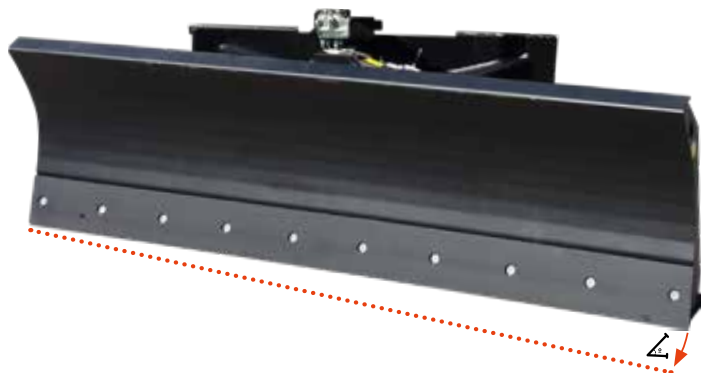
### DOZER BLADE



Hydraulic hoses with quick couplings

Shockproof valve

## TILT DOZER BLADE



Hydraulic hoses with quick couplings

Shockproof valve

1/2" electrovalve

Hydraulic oscillation +/- 8°

Standard electric kit

## LEVELING BOX DOZER BLADE



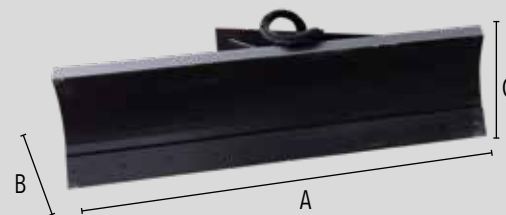
Proportional distributor

Rear pad with hydraulic control which neutralizes the riding effect

Laser control system

Bolt-in blade

Standard electric kit



## DIMENSIONS

		DB 150	DB 180	DB 210	DB 240	DB 270
A	Width	1510	1810	2110	2410	2710
B	Depth	600	600	600	600	600
C	Height	730	730	730	730	730

- It is equipped with shockproof valve
- Bolt-on blade made of steel 450HBW

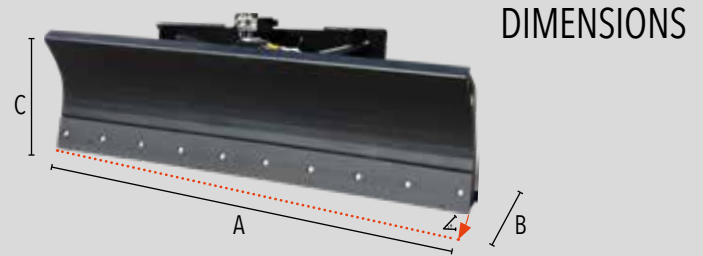
The M3 dozer blade can be easily fitted to any kind of skid steer loader, wheel loader and telehandlers up to 80HP.

It is equipped with shockproof valve, hydraulic angle  $\pm 30^\circ$ , hydraulic hoses, bolted bracket in wear-resistant steel 450 HBW and coupling to SSL.



MODEL	DB 150	DB 180	DB 210	DB 240	DB 270
Working width [mm]	1299	1560	1820	2075	2330
Weight [kg]	340	370	400	420	450
Hydraulic blade inclination R/L	±30°	±30°	±30°	±30°	±30°





		TDB 180	TDB 210	TDB 240	TDB 270
A	<b>Width</b>	1810	2110	2410	2710
B	<b>Depth</b>	600	600	600	600
C	<b>Height</b>	730	730	730	730

- It is equipped with shockproof valve
- Bolt-on blade made of steel 450HBW
- Electric valve complete with hydraulic hoses

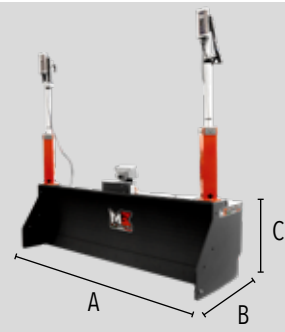
The M3 dozer blade can be easily fitted to any kind of skid steer loader, wheel loader and telehandlers up to 80HP.

It is equipped with shockproof valve, hydraulic angle  $\pm 30^\circ$ , hydraulic hoses,  $\pm 8$  hydraulic oscillation, bolted bracket in wear-resistant steel 450 HBW and coupling to SSL.



MODEL	TDB 180	TDB 210	TDB 240	TDB 270
Working width [mm]	1560	1820	2075	2330
Weight [kg]	360	390	430	490
Max pressure [bar]	250	250	250	250
Oil flow [L/min]	100	100	100	100
Hydraulic blade inclination R/L	$\pm 30^\circ$	$\pm 30^\circ$	$\pm 30^\circ$	$\pm 30^\circ$
Hydraulic blade oscillation R/L	$\pm 8^\circ$	$\pm 8^\circ$	$\pm 8^\circ$	$\pm 8^\circ$





# DIMENSIONS

LL 240

A	Width	2430
B	Depth	830
C	Height	790

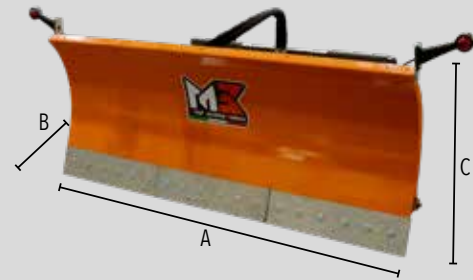
The leveling blade M3 is suitable for backfilling works, drafting of landfill materials and indoor ground levelling with excellent finishing level. Equipped with horizontal plane inclination system controlled by two hydraulic cylinders which allow the blade up and down movement. Moreover it is equipped with an innovative rear skate managed by hydraulic cylinders with relief valve, which, keeping the pressure of the skate constant on the ground, allows a perfect leveling, neutralising the riding effect.

Supplied with proportional distributor, relief valve calibrated to keep the pressure constant, laser leveling system and receivers support poles. It can be supplied with a control system with wifi remote control **A**.



MODEL	LL 240
Blade width [mm]	2400
Weight [kg]	950
Blade height [mm]	740





## DIMENSIONS

		SB 150	SB 180	SB 210	SB 240	SB 270
A	Width	1500	1800	2100	2400	2700
B	Depth	710	710	710	710	710
C	Height	730	730	730	730	730

- Shockproof system with spring return straight on the plow allowing a faster use
- Marker lights
- It is equipped with shockproof valve

The snow plow M3 can be easily fitted to any skid steer loaders, wheel loaders and telehandlers up to 80 HP. It is supplied with shockproof valve, shockproof system with spring return straight on the plow allowing a faster use, marker lights, hydraulic angle  $\pm 30^\circ$ , oscillation  $\pm 7^\circ$ , hydraulic hoses and coupling to the machine.

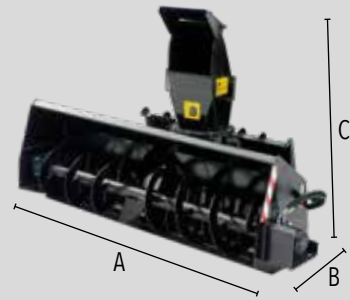
## OPTIONALS

	Skid shoes	Sectors in polyurethane
Support wheels kit	Moldboard extension	Floating system, wheels included



MODEL	SB 150	SB 180	SB 210	SB 240	SB 270
Working width [mm]	1299	1560	1820	2075	2330
Weight [kg]	340	370	400	420	450
Hydraulic blade inclination R/L	$\pm 30^\circ$	$\pm 30^\circ$	$\pm 30^\circ$	$\pm 30^\circ$	$\pm 30^\circ$
Hydraulic blade oscillation R/L	$\pm 7^\circ$	$\pm 7^\circ$	$\pm 7^\circ$	$\pm 7^\circ$	$\pm 7^\circ$





DIMENSIONS

		MFN 150	MFN 180	MFN 210	MFN 245
A	Width	1750	2050	2350	2450
B	Depth	980	980	980	1300
C	Height	1250	1250	1250	1250

- Helix Ø 370 mm
- Electrical rotation deflector

The snow blower M3 is the perfect equipment for snow. It is produced in different models to fit machines with different widths and it can be attached to all types of skid steer loaders and backhoe loaders up to 80/100 HP. Thanks to its turbine which can blow the snow at a max distance of 15 m, the snow blower can be used for cleaning walkways, driveways, sidewalks or in town centers where only a skid loader can effectively work. It is supplied with electric rotation deflector, 370 mm flight and coupling to the machine.

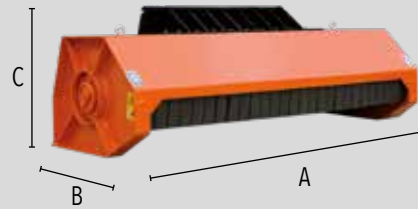
OPTIONALS

Chute height mt 2,75



MODEL				
	MFN 150	MFN 180	MFN 210	MFN 245
Working width [mm]	1500	1800	2100	2450
Flight diameter [mm]	370	370	370	370
Working speed [km/h]	0/2	0/2	0/2	0/2
Rotating deflector	electrical	electrical	electrical	electrical
Rotating deflector angle	240°	240°	240°	240°
Max snow level [mm]	600	600	600	600
Oil flow req. min [L/min]	65/80	65/80	65/80	65/80
Discharge distance [m]	15	15	15	15
Weight [kg]	380	400	420	650





## DIMENSIONS

		MDC 10	MDC 13	MDC 16	MDC 19	MDM 10	MDM 13	MDM 16	MDM 19
A	Width	1460	1500	1800	2200	1460	1500	1800	2200
B	Depth	700	780	780	780	700	780	780	780
C	Height	450	570	570	570	450	570	570	570

- Cutting diameter from 60 to 120 mm
- Direct drive hydraulic motor
- Rotor with knives MDC
- Rotor with hammers MDM

The hydraulic bush cutter M3 stands out for its strong structure and is specifically designed to be used on skid steer loaders. It is manufactured in 2 versions. The version MDC is equipped with a couple of "Y" knives and a third central knife to reduce any treated material treated material to fine grains. It is supplied with bolted bracket to fit any skid loader (the model MDC10/MDM10 is supplied with a welded hook). The version MDM is equipped with HD rotor with HD hammers, with the possibility to mount heavy knives. **Drain is recommended for counter-pressures > 7 bar.** Rotation speed 3000 rpm.

## OPTIONALS

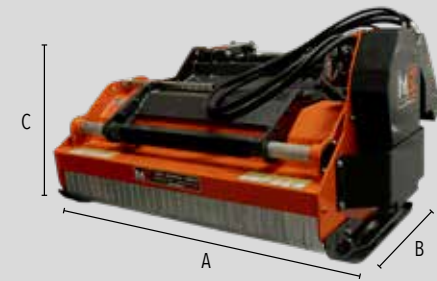
Hydraulic hoses kit



MODEL	MDC 10	MDC 13	MDC 16	MDC 19	MDM 10	MDM 13	MDM 16	MDM 19
Working width [mm]	1080	1300	1600	1900	1080	1300	1600	1900
Weight [kg]*	270	450	550	650	295	460	560	660
Oil flow required [L/min]	26/36/44/55	55/66/80/100	66/80/100	66/80/100	26/36/44/55	55/66/80/100	66/80/100	66/80/100
Max pressure [bar]	250	250	250	250	250	250	250	250
Cutting diameter [mm]	60	80/100	80/100	80/100	60	100/120	100/120	100/120
Motor displacement [cc]	8/11/14/17	17/22/26	22/26/33	26/33	8/11/14/17	17/22/26	22/26/33	26/33
Motor type	aluminium gear motor	aluminium gear motor	aluminium gear motor	aluminium gear motor	aluminium gear motor	aluminium gear motor	aluminium gear motor	aluminium gear motor
Rotor standard	knives	knives	knives	knives	hammers	hammers	hammers	hammers
Knives sets [n°]	24	20	24	28	*****	*****	*****	*****
Hammers sets [n°]	*****	*****	*****	*****	24	28	32	40



\* weight without coupling; weight coupling included only for MDC10/MDM10



# DIMENSIONS

		MHC5 160	MHC5 180	MHC5 200	MHC10 160 HD	MHC10 180 HD
A	Width	1820	2020	2220	2000	2200
B	Depth	1200	1200	1200	1000	1000
C	Height	1100	1100	1100	1600	1600

- Cutting diameter: 8 cm - 25 cm (HD series only)
- Hydraulic motor with belt transmission
- MKF knives rotor
- MHF hammers rotor

The M3 MHC series bush cutter, featured by its solidity, is designed to fit skid loaders, wheel loaders and telehandlers up to 80/90 HP. Available in 2 versions, standard and HD. **The standard version** is equipped with universal oscillating and floating coupling, mechanical side movement, valve block, sturdy and reinforced structure, helical rotor with tempered hammers (standard) or knives (optional), hydraulic motor with V-belt transmission. **The HD version** is equipped with universal fixed coupling, rotor with fixed widia teeth, reinforced wear-resistant structure, pressure gauge for working pressure control, double rear chains for greater protection, piston motor and high performance HTD single belt transmission. **Drain is recommended for counter-pressures > 5 bar.** Rotation speed 2200/2500 rpm.

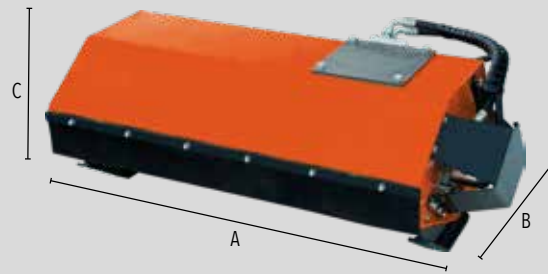
## OPTIONALS

	Hydraulic side shifter	Electrovalve
Hydraulic hoses	Coupling for wheel loaders, backhoe loaders, telehandlers	Variable displacement piston motor



MODEL	MHC5 160	MHC5 180	MHC5 200	MHC10 160 HD	MHC10 180 HD
Working width [mm]	1600	1800	2000	1600	1800
Weight [kg]	890	930	970	1285	1420
Oil flow [L/min]	60/120	60/120	60/120	100/180	100/180
Pression [bar]	200/220	200/220	200/220	200/350	200/350
Skid loader class [hp]	50/90	50/90	50/90	70/120	70/120
Rotor standard	MHF16	MHF16	MHF16	MHF14	MHF14
Rotor optional	MKF3	MKF3	MKF3	MHF15	MHF15
Motor displacement [cc]	27/51	27/51	27/51	45/80	45/80
Motor type	cast iron gear motor			piston motor	
Hammers/Knives number [n°]	18	20	22	42	54





DIMENSIONS

		MH3 70	MH3 90	MH5 105	MH7 105	MH7 125	MH11 130	MH11 160
A	Width	950	1150	1300	1250	1450	1450	1850
B	Depth	550	550	600	750	750	900	1000
C	Height	450	450	400	500	500	600	700

The Hydraulic Mulcher STD M3 is designed with a strong and reliable structure and can easily fit any type of excavators. It is manufactured in different models, depending on the use and size of the excavator. It is supplied complete with hydraulic motor, levelling roller with adjustable height, direct transmission (up to MH7), belt transmission (MH11), anti-cavitation valve, priority shockproof valve, adjustable support slides and drilled flat plate. **Drain is recommended for counter-pressures > 5 bar.** Rotation speed 2200/2500 rpm.

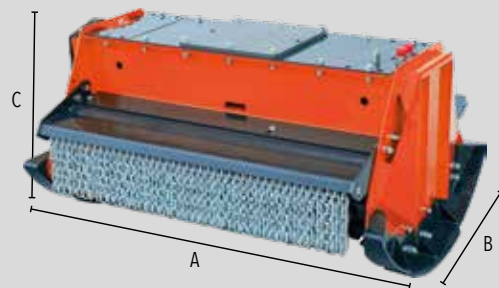
OPTIONALS

	Floating system	Hydraulic hoses
Support roller	Bracket	Front and rear chain protection (MH5 only front)



MODEL	MH3 70	MH3 90	MH5 105	MH7 105	MH7 125	MH11 130	MH11 160
Working width [mm]	700	900	1050	1050	1250	1300	1600
Weight [kg]	130	150	190	220	250	345	420
Oil flow [L/min]	20/40	30/40	40/60	60/80	60/80	60/90	80/90
Pression [bar]	170/220	170/220	170/220	200/220	200/220	200/220	200/220
Excavator class [T]	1,5-5,0	2,0-5,0	4,0-6,0	6,0-8,0	6,0-8,0	6,0-12,0	10,0-12,0
Rotor standard	MHF2	MHF2	MHF2	MHF3	MHF3	MHF6	MHF6
Rotor optional	MHC1 / MKC1	MHC1 / MKC1	MHC1 / MKC1	MKF3	MKF3	MKF7	MKF7
Motor displacement [cc]	08/11/16	11/16	16	22/27/34	22/27/34	34/44/51	44/51
Motor type	gears			cast iron gear motor*			
Hammers/knives number [n°]	12	16	16	16	20	20	20

\* Upon request, a piston motor is available too



# DIMENSIONS

		MH1 60	MH1 80	MH9 70	MH9 90	MH9 105	MH13 105	MH13 130	MH15 130	MH15 160
A	Width	850	1000	850	1050	1250	1250	1450	1600	1900
B	Depth	500	500	800	800	800	950	950	800	800
C	Height	350	350	600	600	600	850	850	850	850

The Hydraulic Mulcher M3 is designed with a strong and reliable structure and can easily fit any type of excavators. It is manufactured in different models, depending on the use and size of the excavator. It is supplied complete with hydraulic motor (piston motor starting from MH15), support skids with adjustable height in 3 positions, direct transmission (MH1), belt transmission (MH9/13/15), anti-cavitation valve, priority shockproof valve, adjustable support slides and drilled flat plate. MH15 series is equipped with hydraulically-driven hood. **Drain is recommended for counter-pressures > 5 bar.** Rotation speed 2200/2500 rpm.

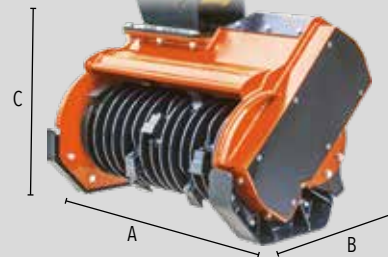
## OPTIONALS

	Floating system	Hydraulic hoses
Support roller	Bracket	Front and rear chain protection



MODEL	MH1 60	MH1 80	MH9 70	MH9 90	MH9 105	MH13 105	MH13 130	MH15 130	MH15 160
Working width [mm]	600	800	700	900	1050	1050	1300	1300	1600
Weight [kg]	70	80	180	260	310	480	540	650	750
Oil flow [L/min]	20/30	30/40	30	40/50/60	40/50/60/80/90	70/80/90	70/80/90	100/125/160	100/125/160
Pression [bar]	170/220	170/220	170/220	170/220	200/220	200/220	200/220	200/250	200/250
Excavator class [T]	1,0 - 3,0	2,0 - 3,0	3,0 - 4,0	4,0 - 8,0	6,0 - 10,0	8,0 - 16,0	8,0 - 16,0	10,0 - 25,0	12,0 - 25,0
Rotor standard	MHF1	MHF1	MHF3	MHF3	MHF3	MHF6	MHF6	MHF6	MHF6
Rotor optional	MKF1	MKF1	MKF3	MKF3	MKF3	MKF7	MKF7	MKF7	MKF7
Motor displacement [cc]	8/11	8/11	16	22/27/34	22/27/34/44/51	44/51	44/51	32/64	32/64
Motor type	gears					cast iron gear motor*		piston motor	
Hammers/knives number [n°]	12	16	10	14	16	16	20	20	20

\* Upon request, a piston motor is available too



## DIMENSIONS

		MH9 70HD2	MH9 90HD2	MH9 105HD2	MH11 130HD2	MH13 105HD2	MH13 130HD2	MH15 130HD2	MH15 160HD2
A	Width	850	1050	1250	1450	1250	1450	1600	1900
B	Depth	800	800	800	900	950	950	800	800
C	Height	600	600	600	600	850	850	850	850

The Hydraulic Mulcher M3 is designed with a strong and reliable structure and can easily fit any type of excavators. It is manufactured in different models, depending on the use and size of the excavator. It is supplied complete with hydraulic motor (piston motor from the MH15 series), anti-cavitation valve, priority shockproof valve, adjustable support slides and drilled flat plate. **Drain is recommended for counter-pressures > 5 bar.** Rotation speed 2200/2500 rpm.

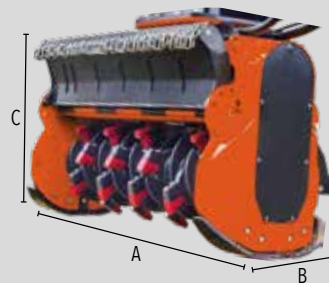
## OPTIONALS

	Floating system	Hydraulic hoses
Support roller	Bracket	



MODEL	MH9 70HD2	MH9 90HD2	MH9 105HD2	MH11 130HD2	MH13 105HD2	MH13 130HD2	MH15 130HD2	MH15 160HD2
Working width [mm]	700	900	1050	1300	1050	1300	1300	1600
Weight [kg]	220	330	400	440	580	650	920	1020
Oil flow [L/min]	40/50/60/80/90	40/50/60/80/90	50/60/80/90	60/80/90	70/80/90	70/80/90	100/125/160	100/125/160
Pression [bar]	200/220	200/220	200/220	200/220	200/220	200/220	200/250	200/250
Excavator class [T]	5,0-8,0	6,0-8,0	6,0-12,0	8,0-12,0	10,0-16,0	10,0-16,0	12,0-25,0	15,0-25,0
Rotor standard	MHF17	MHF17	MHF17	MHF19	MHF19	MHF19	MHF11	MHF13
Rotor optional	*****	*****	*****	*****	*****	*****	MHF10	MHF12
Motor displacement [cc]	22/27/34/44/51	22/27/34/44/51	27/34/44/51	44/51	44/51	44/51	32/64	32/64
Motor type	gears			cast iron gear motor*			piston motor	
Hammers number [n°]	12	18	22	18	16	18	26	32

\* Upon request, a piston motor is available too



## DIMENSIONS

		MH9 70HD3	MH9 90HD3	MH9 105HD3	MH13 105HD3	MH13 130HD3	MH15 130HD3	MH15 160HD3	MH20 130HD3	MH20 160HD3
A	Width	850	1050	1250	1250	1450	1600	1900	1700	2000
B	Depth	800	800	800	950	950	800	800	1000	1000
C	Height	600	600	600	850	850	850	850	900	900

The Hydraulic Mulcher HD3 M3 is designed with a strong and reliable structure and can easily fit any type of excavators. It is manufactured in different models, depending on the use and size of the excavator. It is supplied complete with hydraulic motor (piston motor from the MH15 series), anti-cavitation valve, priority shockproof valve, adjustable support slides and drilled flat plate. **Drain is recommended for counter-pressures > 5 bar.** Rotation speed 2200/2500 rpm.














## OPTIONALS






	Floating system	Hydraulic hoses
Bracket	Support roller	



MODEL	MH9 70HD3	MH9 90HD3	MH9 105HD3	MH13 105HD3	MH13 130HD3	MH15 130HD3	MH15 160HD3	MH20 130HD3	MH20 160HD3
Working width [mm]	700	900	1050	1050	1300	1300	1600	1300	1600
Weight [kg]	340	400	460	685	745	950	1050	1050	1185
Oil flow [L/min]	40/50/60/80/90	50/60/80/90	50/60/80/90	80/90	80/90	100/125/160	100/125/160	100/130/180	100/130/180
Pression [bar]	200/220	200/220	200/220	200/220	200/220	200/250	200/250	200/350	200/350
Class escavatore [t]	5,0-12,0	6,0-12,0	6,0-12,0	10,0-16,0	10,0-16,0	12,0-25,0	16,0-25,0	16,0-30,0	18,0-30,0
Rotor standard	MHF14	MHF14	MHF14	MHF14	MHF14	MHF14	MHF14	MHF14	MHF14
Rotor optional	MHF15	MHF15	MHF15	MHF15	MHF15	MHF15	MHF15	MHF15	MHF15
Motor displacement [cc]	22/27/34/44/51	27/34/44/51	27/34/44/51	44/51	44/51	32/64	32/64	45/60/80	45/60/80
Motor type	gears			cast iron gear motor*			piston motor		
Hammer number [n°]	18	24	30	30	36	36	42	36	42

\* Upon request, a piston motor is available too

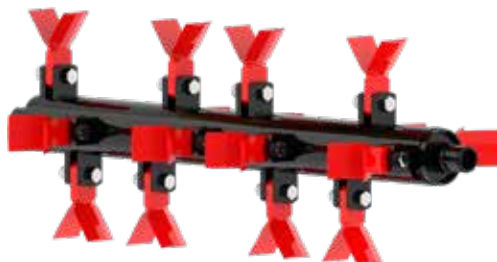
DESCRIPTION		MODEL
	Hammers MHF2 max cut Ø 5 cm	MH3-5
	Hammers MHF1 max cut Ø 3 cm	MH1
	Knives MKF1 max cut Ø 2 cm	MH1
	Hammers MHC1 max cut Ø 4 cm	MH3-5
	Knives MKC1 max cut Ø 3 cm	MH3-5
	Hammers MHF3 max cut Ø 8 cm	MH7-9
	Knives MKF3 max cut Ø 6 cm	MH7-9 - MHC5
	Hammers MHF6 max cut Ø 8 cm	MH11-13-15
	Knives MKF7 max cut Ø 6 cm	MH11-13-15
	Fixed hammer MHF14 max Ø 25 cm	MH9/13/15/20 HD3 - MHC10
	Fixed hammer MHF15 max Ø 20 cm	MH9/13/15/20 HD3 - MHC10
	Rotating hammer MHF10/12 max Ø 25 cm	MHC5
	Rotating hammer MHF17 max Ø 12 cm	MH9 HD2

DESCRIPTION		MODEL
	Rotating hammer MHF19 max Ø12 cm	MH11-13 HD2
	Rotating hammer MHF10/12 max Ø 25 cm	MH15 HD2
	Rotating hammer MHF11/13 max Ø 25 cm	MH15 HD2
	Complete spare kit of knives for MDC 10	MDC10
	Complete spare kit of knives for MDC	MDC13
		MDC16
		MDC19
	Complete spare kit of hammers for MDM 10	MDC10
	Complete spare kit of hammers for MDM	MDC13
		MDC16
		MDC19





Rotor with hammers (standard)




Rotor with knives (optional)



Rotor with rotating hammers (HD2)



Rotor with fixed hammers (HD3)

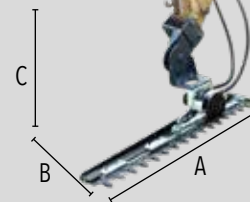
MODEL	 (Ton)															
	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	25.0	30.0
MH1	Ø3															
MH3	Ø5															
MH5				Ø5												
MH7					Ø8											
MH9			Ø8													
MH9 HD2					Ø12											
MH9 HD3					Ø25											
MH11						Ø8										
MH11 HD2								Ø12								
MH13								Ø8								
MH13 HD2									Ø12							
MH13 HD3									Ø25							
MH15									Ø8							
MH15 HD2/3										Ø25						
MH20 HD3												Ø30				

The set-up of the auxiliary hydraulic line is of exclusive pertinence and responsibility of the client. In case the client would like to connect the bush cutter / mulcher on already existing lines (i.e. PTO), he must be aware that the performance of the bush cutter / mulcher may decrease with the movements of the arms, or the wheels/tracks.





## DIMENSIONS



		MC 120	MC 160	MC 180
A	Width	1265	1725	1875
B	Depth	220	220	220
C	Height	365	365	365

- Mechanical shock absorber
- Hirth coupling
- Blades protection
- Orbital motor protected by anti-shock and anti-cavitation valve

The hedge trimmer M3 MC series can be fitted to mini excavators and is suitable to cut hedges (light pruning) up to a maximum Ø of 3 cm.

The blades are in wear resistant steel. It is equipped with hirth coupling, orbital motor protected by anti-shock and anti-cavitation valve, mechanical shock absorber and blades protection, direct coupling to the machine. Adapters for quick hitch are available upon request.

## OPTIONALS

Spare blades kit

Hydraulic hoses kit

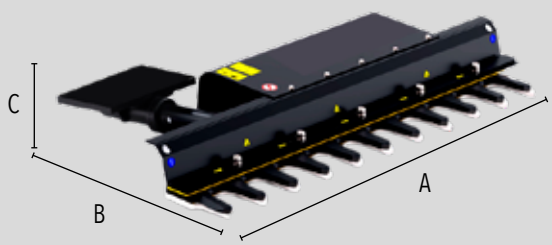


MODEL	MC 120	MC 160	MC 180
Weight [kg]	42	55	64
Max pressure [bar]	180	180	180
Max flow rate [L/min]	26/40/50	26/40/50	26/40/50
Excavator class [T]	1,0 - 5,0	2,0 - 5,0	2,0 - 5,0
Working width [mm]	1200	1600	1800
Max cutting diameter [mm]	30	30	30





DIMENSIONS



		MBT 50-150	MBT 50-180	MBT 50-210	MBT 100-158	MBT 100-188	MBT 100-218	MBT 150-160	MBT 150-190	MBT 150-220
A	Width	1600	1900	2200	1665	1965	2265	1715	2015	2315
B	Depth	231	231	231	231	231	231	231	231	231
C	Height	936	936	936	975	975	975	1014	1014	1014

- Sturdy structure
- Brass wear-resistant bar
- Blades in steel 450HBW
- Flow valve
- 360° swivel joint

The hedge trimmer MBT allows you to cut branches, hedges and brushes up to Ø 15 cm. Its sturdy structure allows continuous and heavy uses. The special milling, along with the specific inclination of the coupling tube, makes the branch entrance easier, ensuring a clean and precise cut. The ergonomic casing eases the uses in areas with thick vegetation. Suitable for excavators up to 20T and backhoe loaders. Equipped with: flow valve, antishock valve, 360° swivel joint, blades in steel 450 HBW, brass wear-resistant bar.

OPTIONALS

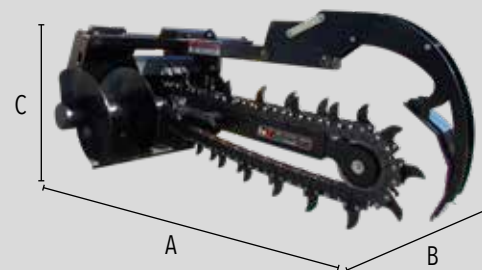
Hydraulic hoses	Bolted bracket*
-----------------	-----------------

\*The hedge trimmer is supplied with a flat drilled plate



MODEL	MBT 50-150	MBT 50-180	MBT 50-210	MBT 100-158	MBT 100-188	MBT 100-218	MBT 150-160	MBT 150-190	MBT 150-220
Working width [mm]	150	180	210	158	188	218	160	190	220
Weight [kg]	195	208	223	230	250	260	260	280	290
Max cutting diameter [cm]	5	5	5	10	10	10	15	15	15
Cuts/minute	200	200	200	84	84	84	63	63	63
Oil flow required [L/min]	60	60	60	60	60	60	60	60	60
Max pressure [bar]	250	250	250	250	250	250	250	250	250
Excavator class [T]	2,5 - 13	2,5 - 13	2,5 - 13	4-16	4-16	4-16	6,5 - 20	6,5 - 20	6,5 - 20





## DIMENSIONS

		M 900	M 1200 XD
A	Width	140	160
B	Depth	110	110
C	Height	80	80

- Danger bar
- Barrel & spoil auger
- Scraper shoe
- Head start crumber
- Three-position adjustable shoe

A compact yet powerful trencher fitted with a quality planetary drive, Eaton hydraulic motor, 3 position-adjustable skid foot and single spoil removal auger for the spoil removal. Our unique design also gives the operator consistent digging depth for efficient spoil removal and finely crumbled spoil for effective compaction back into the trench. This provides minimal ground disturbance to surrounding conditions and results in a cleaner finish. Suitable for pipe laying for irrigation, underground power & communications, road repairs and general construction.

## OPTIONALS

Bracket for excavators up to 8t.

Bracket for skid loader



MODEL	M 900	M 1200 XD
Working width [mm]	100/150/200	150/200/250/300
Foot depth presets [mm]	600/750/900	600/800/1000/1200
Recommended flow [lpm]	50/95	60/115
Hydraulic motor type	2K Bell Danfoss	2K Bell Danfoss
Max pressure [bar]	240 bar @ 60 lpm	240 bar @ 60 lpm
Max flow rate [L/min]	95 lpm @200 bar	95 lpm @200 bar
Max continous power [kw]	25 (34HP)	25 (34HP)
Length [mm]	1920	2530
Horizontal height [mm]	670	780
Total width [mm]	1212	1212
Weight [kg]	265	405
Machines class	Skid Loader and excavators up to 4t. Skid loaders, backhoe loaders, telehandlers & excavators up to 8 t	

## WHY A TRENCHER OVER A BUCKET?

**EFFICIENT:** narrower trenches to greater depths can be achieved.

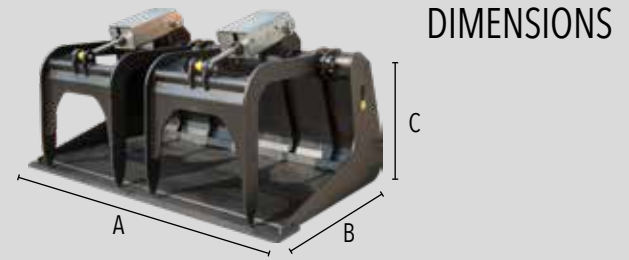
**FASTER:** a Trencher will cut ground faster than an excavator bucket as it cuts in a continuous movement.

**EASIER:** the spoil is excavated more finely with a Trencher so the trench can be easily backfilled with better compaction. As the spoil is much finer it is suitable for the bedding of pipes and cables etc...

**ACCURATE:** various size trench widths means you don't have to excavate any more than is required. Leaves the bottom of the trench flat and clean.

**COST EFFECTIVE:** digs 3 to 4 times faster than an excavator, backhoe with less mess. Spoil is easier to backfill with better compaction.





		MPI 125	MPI 140	MPI 155	MPI 170	MPI 185	MPI 200
A	Width	1250	1400	1550	1700	1850	2000
B	Depth	970	970	970	970	970	970
C	Height	800	800	800	800	800	800

- Low sides allows to load wider materials
- Heavy duty construction
- Twin cylinder with ram protection and block valve

The industrial bucket with grapple M3 is ideal both for the collection of waste, and construction or industrial scrap, and for the handling in paper mills.

It is equipped with no. 2 upper hydraulic clamps and coupling to the machine.

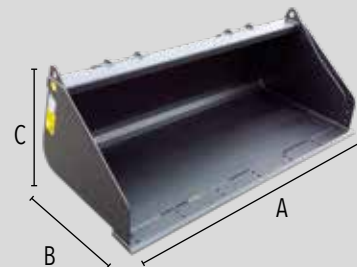


## OPTIONALS

Side panels

MODEL	MPI 125	MPI 140	MPI 155	MPI 170	MPI 185	MPI 200
Weight [kg]	280	300	320	340	360	380





## DIMENSIONS

		BSK 110	BSK 125	BSK 140	BSK 155	BSK 170	BSK 185	BSK 200
A	Width	1100	1250	1400	1550	1700	1850	2000
B	Depth	900	900	900	900	900	900	900
C	Height	600	600	600	600	600	600	600

- Steel drilled blade
- Steel bottom reinforcements

The Standard Bucket M3 shows a very strong structure and it is easily attached to all types of skid steer loaders.

It is equipped with drilled blade configured for the installation of teeth, steel bottom reinforcements and coupling to SSL.

## OPTIONALS

Reversible screwed blade

Bolted teeth kit



MODEL	BSK 110	BSK 125	BSK 140	BSK 155	BSK 170	BSK 185	BSK 200
Capacity [L]	317	360	381	447	493	579	626
Weight [kg]	135	150	160	175	190	205	215
Teeth number [no.]	5	5	6	6	7	8	8



## GROUND DRILLING

- Compact gearbox with high torque
- Highly efficient design with less moving parts
- Customized Eaton hydraulic motor to reduce the overall dimensions
- No drain required
- Shaft locking system for heavy uses
- The auger can totally enter the hole to increase the drilling depth
- Low maintenance with a 5yr gearbox and 3yr motor warranty



### AUGERS DRIVES: MINI EXCAVATORS FROM 0,75T TO 5T - SKID STEER LOADER



## AUGERS DRIVES: EXCAVATORS FROM 4T TO 10T - SKID STEER LOADER



## AUGER DRIVES: 10T - 20T EXCAVATORS





**5YR GEAR BOX WARRANTY**

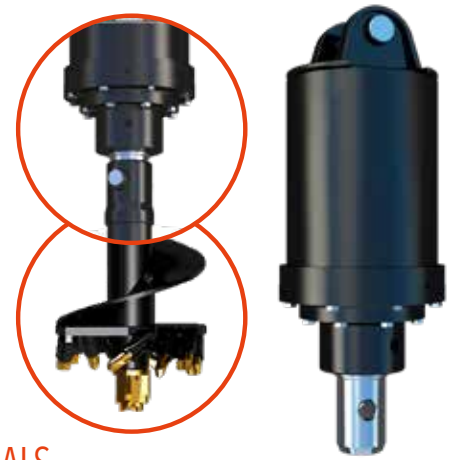
**3YR MOTOR WARRANTY**

Compact gearbox with high torque / Highly efficient design with less moving parts/ Customized Eaton hydraulic motor to reduce the overall dimensions / No drain required / Shaft locking system for heavy uses / The auger can totally enter the hole to increase the drilling depth / Low maintenance with a 5yr gearbox and 3yr motor warranty.



MODEL	MPDD	MPDX 2	MPD 3
Horse power [kw]	25	25	25
Max flow rate [L/min]	15/45	30/50	45/75
Min/max pressure [bar]	125/240	125/240	175/240
Max torque [Nm]	1197	1320	3591
Rotation speed [rpm]	49/148	41/83	41/83
Motor type	gearbox + hydraulic motor		
Shaft [mm]	Ø65	Ø65	Ø65
Weight [kg]	41	45	57
Excavator class [T]	0,75-2	1,5-2,5	2-5

Included are no. 2 hydraulic hoses 1/2", L=2200 mm, quick couplings M/F F.P. 1/2"



**OPTIONALS**

Wood splitter	Stump grinder
Bracket for skid loader	Cradle hitch



**5YR GEAR BOX  
WARRANTY**

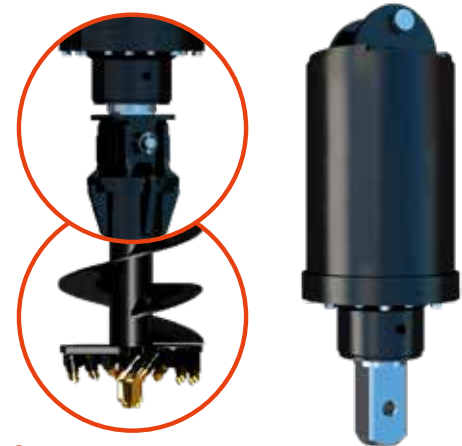
**3YR MOTOR  
WARRANTY**

Compact gearbox with high torque / Highly efficient design with less moving parts/ Customized Eaton hydraulic motor to reduce the overall dimensions / No drain required / Shaft locking system for heavy uses / The auger can totally enter the hole to increase the drilling depth / Low maintenance with a 5yr gearbox and 3yr motor warranty.



MODEL	MPD 5	MPD 7	MPD 10	MPD 6 HF	MPD 8 HF
Horse power [kw]	25	25	25	60	60
Max flow rate [L/min]	60/95	75/115	85/115	60/150	80/200
Min/max pressure [bar]	175/240	175/240	175/240	175/240	175/240
Max torque [Nm]	5166	6048	8568	5670	7175
Rotation speed [rpm]	41/70	43/73	38/52	41/102	43/107
Motor type	gearbox + hydraulic motor				
Shaft [mm]	Ø 75	Ø 75	Ø 75	Ø 75	Ø 75
Weight [kg]	67	90	110	149	149
Excavator class [T]	4-8	5-10	5-10	5-10	5-10

Included are no. 2 hydraulic hoses 1/2", L=2200 mm, quick couplings M/F F.P. 1/2"



## OPTIONALS

Wood splitter	Stump grinder
Bracket for skid loader	Cradle hitch



CATALOGUE

AUGERS DRIVES: EXCAVATORS FROM 4T TO 10T - SKID STEER LOADER



**5YR GEAR BOX WARRANTY**

**3YR MOTOR WARRANTY**

Compact gearbox with high torque / Highly efficient design with less moving parts/ Customized Eaton hydraulic motor to reduce the overall dimensions / No drain required / Shaft locking system for heavy uses / The auger can totally enter the hole to increase the drilling depth / Low maintenance with a 5yr gearbox and 3yr motor warranty.



MODEL	MPD 18	MPD 22
Horse power [kw]	60	60
Max flow rate [L/min]	130/230	140/230
Min/max pressure [bar]	175/240	175/240
Max torque [Nm]	17620	22257
Rotation speed [rpm]	26/50	21/40
Motor type	gearbox + hydraulic motor	
Shaft [mm]	Ø 75	Ø 75
Weight [kg]	176	176
Excavator class [T]	10-20	10-20



**OPTIONALS**

Cradle hitch

Included are no. 2 hydraulic hoses 1/2", L=2200 mm, quick couplings M/F F.P. 1/2"

# AUGER DRIVES: MPDD / MPDX 2 / MPD 3

MFT - SOFT/MIXED SOIL		
MODEL	SHAFT	DIMENSIONS mm
MFT4-10	Ø65	100x1200
MFT4-15	Ø65	150x1200
MFT4-20	Ø65	200x1200
MFT4-25	Ø65	250x1200
MFT4-30	Ø65	300x1200
MFT4-40	Ø65	400x1200
MFT4-50	Ø65	500x1200
MFT4-60	Ø65	600x1200
MFT4-75	Ø65	750x1200
MRC - MIXED / ROCKY SOIL		
MODEL	SHAFT	DIMENSIONS mm
*****	*****	100x1200
MRC4-15	Ø65	150x1200
MRC4-20	Ø65	200x1200
MRC4-25	Ø65	250x1200
MRC4-30	Ø65	300x1200
MRC4-40	Ø65	400x1200
MRC4-50	Ø65	500x1200
MRC4-60	Ø65	600x1200
MFT4-75	Ø65	750x1200
EXTENSIONS SHAFT ONLY		
MODEL	SHAFT	DIMENSIONS mm
MX4-05	Ø65	500
MX4-10	Ø65	1000
MX4-15	Ø65	1500

# AUGER DRIVES: MPD 5 / MPD 7 / MPD 10 / MPD 6 HF / MPD 8 HF

MFT - SOFT/MIXED SOIL		
MODEL	SHAFT	DIMENSIONS mm
MFT6-15	Ø75	150x1500
MFT6-20	Ø75	200x1500
MFT6-25	Ø75	250x1500
MFT6-30	Ø75	300x1500
MFT6-40	Ø75	400x1500
MFT6-50	Ø75	500x1500
MFT6-60	Ø75	600x1500
MFT6-75	Ø75	750x1500
MFT6-90	Ø75	900x1500
MFT6-100	Ø75	1000x1500
MRC - MIXED / ROCKY SOIL		
MODEL	SHAFT	DIMENSIONS mm
MRC6-15	Ø75	150x1500
MRC6-20	Ø75	200x1500
MRC6-25	Ø75	250x1500
MRC6-30	Ø75	300x1500
MRC6-40	Ø75	400x1500
MRC6-50	Ø75	500x1500
MRC6-60	Ø75	600x1500
MRC6-75	Ø75	750x1500
MRC6-90	Ø75	900x1500
EXTENSIONS SHAFT ONLY		
MODEL	SHAFT	DIMENSIONS mm
MX6-10	Ø75	1000
MX6-15	Ø75	1500
MX6-20	Ø75	2000

# AUGER DRIVES: MPD 18 / MPD 22

MFT - SOFT/MIXED SOIL		
MODEL	SHAFT	DIMENSIONS mm
MFT8-20	Ø75	200x1500
MFT8-25	Ø75	250x1500
MFT8-30	Ø75	300x1500
MFT8-40	Ø75	400x1500
MFT8-50	Ø75	500x1500
MFT8-60	Ø75	600x1500
*****	*****	750x1500
MFT8-80	Ø75	800x1500
*****	*****	900x1500
MFT8-100	Ø75	1000x1500
MFT8-120	Ø75	1200x1500
MFT8-150	Ø75	1500x1500
MRC - MIXED / ROCKY SOIL		
MODEL	SHAFT	DIMENSIONS mm
MRC8-20	Ø75	200x1500
MRC8-25	Ø75	250x1500
MRC8-30	Ø75	300x1500
MRC8-40	Ø75	400x1500
MRC8-50	Ø75	500x1500
MRC8-60	Ø75	600x1500
MRC8-75	Ø75	750x1500
*****	*****	800x1500
MRC8-90	Ø75	900x1500
MRC8-100	Ø75	1000x1500
MRC8-120	Ø75	1200x1500
MRC8-150	Ø75	1500x1500
EXTENSIONS SHAFT ONLY		
MODEL	SHAFT	DIMENSIONS mm
MX8-10	Ø75	1000
MX8-15	Ø75	1500
MX8-20	Ø75	2000
MX8-25	Ø75	2500
MX8-30	Ø75	3000

# SALES CONDITIONS

## Clause 1. Scope

1.1 These General Terms and Conditions form an integral part of the contracts of sale of all products (hereinafter the "Products") of M3 Metal Meccanica Moderna S.r.l., with Tax code and VAT number 00458190345 and registered office in Strada della Pace 23, Sorbolo Mezzani (Parma, Italy), (hereinafter "M3") and apply without the need for any express reference to them. Any deviating conditions or terms shall only apply if accepted in writing by M3.

1.2 These General Terms and Conditions are attached to each Order Confirmation sent by M3.

## Clause 2. Offers and Order Confirmations

2.1 Offers, quotations and any other similar documents containing possible contractual terms and conditions of sale that may be transmitted by M3 shall not be deemed to be contractual proposals nor acts that are in any event capable of generating any obligation on the part of M3.

2.2 Orders sent by the Purchaser shall contain the Products of its interest. Subsequently, M3 shall include in any Order Confirmation a summary of the Products ordered, the corresponding consideration, the terms of payment of the consideration, the delivery time and, if applicable, the delivery terms through reference to one of the Incoterms in their latest version (subject to the provisions of Clause 4 with regard to delivery time and delivery terms). Furthermore, these General Terms and Conditions shall be attached to the Order Confirmations. Order Confirmations constitute a contractual proposal of sale and become a contract of sale (hereinafter also the "Contract") only upon receipt by M3 of the Order Confirmation and these General Terms and Conditions signed by the Purchaser, within 30 days after the Order Confirmation is sent to the Purchaser. In this case, the Contract shall be governed by these General Terms and Conditions.

If the Purchaser does not accept the Order Confirmation, in full compliance with the foregoing, within 30 days of its receipt, the Order Confirmation shall automatically cease to be valid and to constitute a contractual proposal.

## Clause 3. Prices and Payment Terms

3.1 The consideration to be paid by the Purchaser under the Contract shall be the amount indicated in the Order Confirmation. Such amount is to be considered net of any other applicable taxes or charges, including customs duties.

3.2 The terms of payment of the consideration are stated in the Order Confirmation.

3.3 In the event that the Purchaser fails to make payment on the due date, M3 shall be entitled to obtain payment, in addition to the consideration, of default interest pursuant to Italian Legislative Decree 231/2002. Furthermore, in the event of failed, delayed and/or partial payment of the consideration, M3 may suspend the performance of the Contract and not deliver the Products and/or (even after suspension) terminate the Contract pursuant to Article 1456 of the Italian Civil Code. In the same cases and notwithstanding the suspension and/or termination of the Contract, M3 shall be entitled to demand from the Purchaser the payment of 20% of the consideration under the Contract, as a penalty pursuant to Article 1382 of the Italian Civil Code, without prejudice to any higher damages suffered.

## Clause 4. Delivery, Inspection and Acceptance of the Products

4.1 The term for the delivery of the Products, as set out in the Contract, shall be determined by M3 on the basis of the technical time required for producing the Products and, in any case, such term shall not exceed 90 days with respect to the delivery time indicated in the Order Confirmation. Deliveries, unless otherwise provided for in the Order Confirmations, shall take place according to Ex Works - EXW Incoterms 2020.

4.2 M3 shall not be liable in any manner whatsoever for delays in delivery resulting from force majeure or fortuitous event, including, but not limited to, conflicts, armed clashes, strikes, lockouts, government regulations, import and/or export blockades.

4.3 In the event of any Purchaser's default which may affect the delivery time, including defaults under Clause 3.3, and/or defaults resulting from the inaccuracy of any data transmitted by the Purchaser, M3 shall inform the Purchaser of a new delivery time, in respect of which Clause 4.1 shall apply and M3 may require the Purchaser to pay 5% of the consideration under the Contract, pursuant to art. 1382 of the Italian Civil Code, without prejudice to any higher damages and costs.

4.4 If, in case the delivery is determined to be Ex Works (Incoterms 2020), the Purchaser fails to collect the Products within 15 days of M3's notice that the Products are ready for delivery, the Purchaser shall pay to M3, as a penalty pursuant to Article 1382 of the Italian Civil Code and without prejudice to any higher damages, 1% of the consideration under the Contract (in which the delivery of such Products is set out) for each day of non-collection (exceeding the aforesaid 15 days). Should the failure to collect continue beyond 30 days (starting from the expiry of the aforementioned initial 15 days), M3 may terminate the contract pursuant to Article 1456 of the Italian Civil Code and demand, regardless of said termination, the payment of 40% of the consideration under the Contract (in which the delivery of such Products is set out), as a penalty pursuant to Article 1382 of the Italian Civil Code, without prejudice to any higher damages.

4.5 Upon taking delivery of the Products, the Purchaser shall immediately check the quantity, packaging and conformity of the Products and record any discrepancies in the transport document. Notice of any defects must be given within 8 working days after delivery of the Products. The detailed notice of defects must be submitted in writing to M3 within the time limit above. Any communication made by telephone and/or by other means shall have no effect for the purposes of the Contract. Any Product that has not been subject to complaints according to the procedures and instructions given above shall be considered unreservedly approved and accepted by the Purchaser.

## Clause 5. Warranty

5.1 The warranty for defects provided for in Articles 1490 ff. of the Italian Civil Code shall apply to the Products, with the specification that the limitation period of one year for the relative action shall run from the time of delivery of the Products indicated in the transport document. This warranty does not cover parts and components subject to wear and tear (e.g.: bottom, mixing propellers, rubbing parts, unloading trap, brush rings and blades) and electrical parts (e.g.: coil, solenoid valve, cable, switch).

5.2 If the warranty is legitimately enforced by the Purchaser, M3 shall, at its own discretion, repair or replace the defective Products and/or parts. In addition, M3 may, at its sole discretion, let the Purchaser intervene in order to fix any defects, with the shipment, at the Purchaser's expense, of components and spare parts and the granting of a price reduction equal to the cost of the work necessary to fix such defects, which shall be settled on the basis of M3's time schedules. In both cases (whether in the event of repair/replacement by M3 or in the event of repair by the Purchaser), the Purchaser shall be satisfied and shall have no further claims arising from the defects and the corresponding warranty. These remedies are the only remedies available to the Purchaser under the warranty for defects. No compensation may ever be claimed from M3 for direct/indirect damages caused by or consequential to the sale of the Products, such as, but not limited to: interruptions and/or loss of production, lost or reduced income, financial costs.

5.3 Before proceeding in accordance with one of the remedies under Clause 5.2. above, M3 shall be entitled to request the Purchaser to ship the Products and/or the affected parts, with delivery Ex Works at M3's site in Sorbolo Mezzani, in order to verify the reported defects.

5.4 The warranty is excluded if the Products are used outside the declared performance and/or if they are used incorrectly and/or with negligence and/or if breakages and/or failures occur as a result of impact, installation, improper use and/or non-compliance with use and maintenance instructions. The warranty is also excluded in the event of any interventions or modifications by the Purchaser or persons not authorised by M3.

In any case, the warranty for defects is excluded if the Purchaser fails to transmit to M3 the test certificate of the Products, which is contained in the maintenance booklet of the Products, filled out in its entirety, and/or if the Purchaser fails to comply with all maintenance requirements set out in the maintenance booklet.

## **Clause 6. Liability**

6.1 From the time of delivery of the Products, M3 is not liable for the use of the Products nor for any damage that may arise during the use and/or maintenance of the Products.

## **Clause 7. Retention of Title**

7.1 The Products remain the full property of M3 until the date on which the Purchaser has paid the full consideration for them and any other sum due to M3.

If, in the State in which the Purchaser is domiciled, administrative or legal formalities are necessary for the retention of title in favour of M3 to be valid, the Purchaser undertakes to cooperate with M3 and to take all necessary steps in order to obtain a valid right for M3 with regard to the retention of title.

## **Clause 8. M3 Intellectual Property**

8.1 The Purchaser expressly acknowledges that, unless otherwise agreed, the trademarks and other distinctive signs affixed to the Products are the exclusive property of M3 and may not be exploited, altered, modified, removed or deleted. Furthermore, the designs and patents relating to the Products are the property of M3 and the Purchaser undertakes not to exploit them in any way. Any use of M3's intellectual property by the Purchaser in breach of the above and/or, in any case, in violation of the law, unless expressly permitted by M3 in writing, shall entail the Purchaser's obligation to pay M3 a sum equal to 20% of the consideration under the Contract, pursuant to Article 1382 of the Italian Civil Code, without prejudice to any higher damages and without prejudice to M3's right to terminate the Contract with immediate effect pursuant to Article 1456 of the Italian Civil Code by sending written notice.

## **Clause 9. Supervening Costs**

9.1 In case of events occurring after the conclusion of the Contract which lead to price increases of at least 10% of even only one of the following production factors: raw materials and/or components and/or energy and/or semi-finished products and/or unit labour costs and/or logistics and/or transport necessary for the performance of the Contract, M3 shall be entitled to request the Purchaser to renegotiate the Contract. If the parties do not reach an agreement within 30 days of the above-mentioned request, M3 may terminate the Contract with immediate effect.

## **Clause 10. Personal Data Processing**

10.1 The Purchaser's personal data shall be processed in accordance with the provisions of Italian and European legislation on personal data processing (Italian Legislative Decree No. 196/2023 and EU Regulation No. 679/2016). M3 informs that the Purchaser's personal data are collected and processed exclusively for the execution of the Contracts.

## **Clause 11. Governing Law, Arbitration and Court of Competent Jurisdiction**

11.1 All Contracts shall be governed by the Italian Law.

11.2 All disputes, including non-contractual disputes, arising out of the Contracts or these Terms and Conditions relating to or in connection with the same shall be settled by binding arbitration ("arbitrato rituale") in accordance with the Rules of the Milan Chamber of Arbitration, by a sole arbitrator appointed in accordance with such Rules. The language of the arbitration shall be Italian and the seat shall be the Milan Chamber of Arbitration. This arbitration clause shall only apply if the contractual counterparty of M3 has its registered office in a State which is not a member of the European Union.

11.3 If, on the other hand, the contractual counterparty of M3 has its registered office in a Member State of the European Union, all disputes referred to in Article 11.2 above shall be exclusively brought before the Court of Parma.

## **Clause 12. Italian Language Prevailing**

12.1 If these General Terms and Conditions are sent by M3, with the Order Confirmation, both in Italian and in another language, the Italian language version shall prevail in the event of any discrepancy between such versions.



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