



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 D	p.18	-	✓	✓	✓	✓	✓
SWEEPER BUCKET DS	p.20	-	✓	✓	✓	-	-
SWEEPER BUCKET C	p.22	-	✓	✓	-	-	-
BROOM SWEEPER	p.24	-	-	✓	-	✓	-
ANGLED BROOM SWEEPER	p.26	-	-	✓	-	-	✓
EXCAVATOR SWEEPER	p.28	✓	-	-	-	-	-
QUICK-HITCH	p.30	-	✓	-	✓	-	-
ISO 24410 ADAPTOR	p.31	✓	✓	✓	✓	-	-
FORK CARRIAGE	p.32	✓	✓	✓	✓	-	✓
GRADER BLADE	p.36	-	-	-	-	-	✓
DUAL GRADER BLADE	p.38	-	-	-	-	-	✓
DOZER BLADE	p.42	-	✓	-	-	-	✓

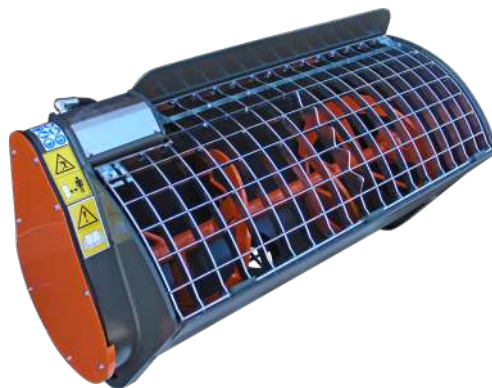
							
 TILT DOZER BLADE	p.44	-	✓	-	-	-	✓
 LEVELING BOX DOZER BLADE	p.46	-	-	-	-	-	✓
 SNOW PLOW	p.48	-	✓	✓	-	-	✓
 SNOW BLOWER	p.50	-	-	-	✓	-	✓
 HYDRAULIC BUSH CUTTER	p.52	-	-	-	-	-	✓
 HYDRAULIC BUSH CUTTER MH5	p.54	-	✓	-	✓	-	✓
 HYDRAULIC MULCHING HEAD HD	p.56	✓	-	-	✓	-	-
 HYDRAULIC MULCHING HEAD STD	p.58	✓	-	-	✓	-	-
 TRIMMER MC SERIES	p.62	✓	-	-	✓	-	-
 INDUSTRIAL BUCKET WITH GRAPPLE	p.64	-	-	-	-	-	✓
 STANDARD BUCKET	p.65	-	-	-	-	-	✓
 AUGERS DRIVES: MINI EXCAVATORS FROM 0,75T TO 5T - SKID STEER LOADER STD	p.68	✓	-	✓	-	-	✓
 AUGERS DRIVES: EXCAVATORS FROM 4T TO 10T - SKID STEER LOADER STD/HF	p.70	✓	-	✓	✓	-	✓
 AUGER DRIVES: 10T - 20T EXCAVATORS	p.72	✓	-	✓	✓	-	-
 FRONT SCREENING BUCKET	p.76	-	-	-	-	-	✓

MIXING

- Bottom and helix made of wear resistant STEEL HB400
- Rounded fixed safety grill complete with bag breaker
- Electric valve, hydraulic hoses + electric connection kit
- Attachment to the machine



MIXER BUCKET WITH CENTRAL DISCHARGE



Welded helix made of wear steel HB400

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 _____ 2,0/2,5 t BM350/450

3,0/3,5 t BM600

>4,5 t BM700

Excavators _____ starting from 3,5 t

MIXER BUCKET WITH SIDE DISCHARGE



Bolted helix made of wear steel HB400

Hydraulic motor fully protected

Unloading pipe (length 1500mm)

Bolted attachment as standard supply, starting from the 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 _____ 2,0/2,5 t BM250/330/400SL

3,0/3,5 t BM500/600SL

>4,5 t BM700SL

Excavators _____ starting from 3,5 t

TWIN DOOR MIXER BUCKET



Bolted helix made of wear steel HB400

Hydraulic motor fully protected

Unloading pipe (length 1500mm) and side chute

Bolted attachment as standard supply, starting from the 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

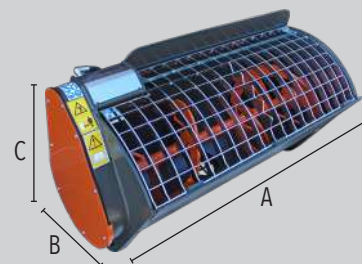
Wheel loaders _____ BM700/1100TD

Telehandlers _____ 2,0/2,5 t BM250/330/400TD

3,0/3,5 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	1325	1325	1505	1520	1620	1900	1900	2165	2260	2760
B	Depth	800	800	830	900	900	1000	1100	1320	1450	1450
C	Height	600	670	690	815	815	910	1030	1160	1180	1180

The concrete mixer bucket M3 is equipped with: BOTTOM AND HELIX made of wear resistant STEEL HB400 - 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 - attachment to the machine.

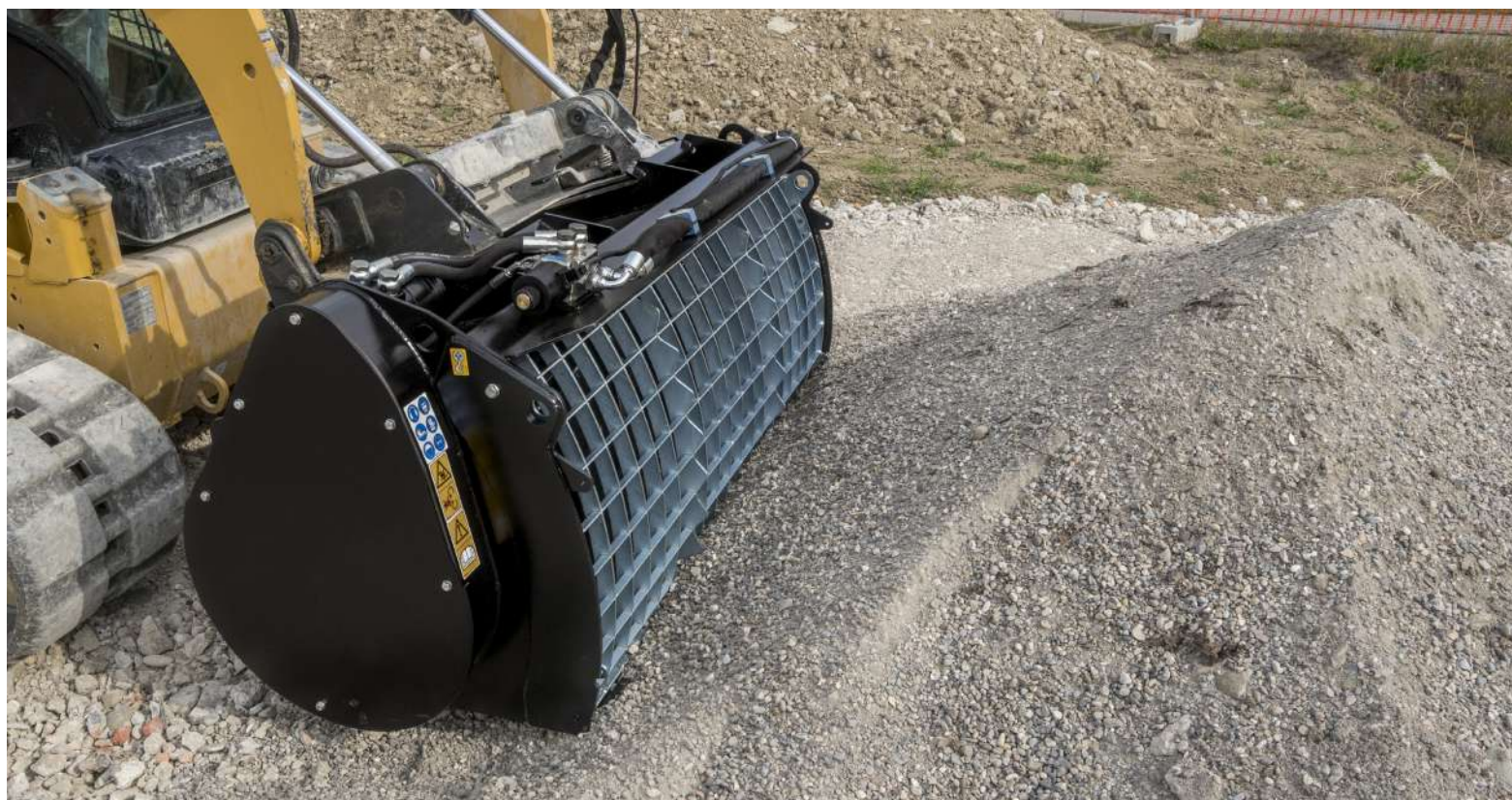
By coupling the mixing bucket to the compact loaders, please consider the following: the operating load of the machine \geq the full load weight of the mixer bucket. In case the longitudinal and the horizontal distance of the center of gravity of the mixing bucket is lower than the one of the standard 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.

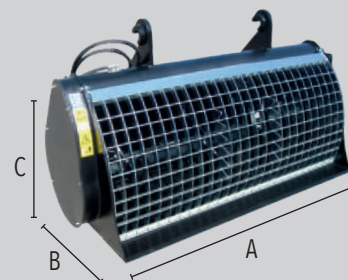
OPTIONALS

	Hydraulic opening of the safety grill including the safety valve. Not available in BM 250 model	Opening of the safety grill through gas springs including the safety valve.
Multi-Hitch option	Electric winder	Radio control for bottom opening without electric line
Bolted plate for excavator-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 [lt]	150	200	250	350	450	600	700	1100	1500	2000
Transmission	gear unit	gear unit	chain	chain	chain	chain	chain	chain	chain, 2 motors	chain, 2 motors
Empty weight [kg]	260	270	380	395	420	630	710	1250	1700	2100
Full load weight [kg]	620	750	980	1235	1500	2070	2390	3890	5300	6900
Min/max flow rate [lt/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 HB400 - 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.- attachment to the machine (bolted attachment as standard supply, starting from the model BM 500 SL).

By coupling the mixing bucket to the 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

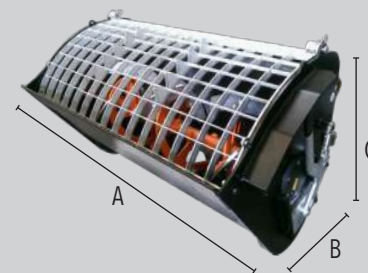
	Hydraulic opening of the safety grill including the safety valve.	Opening of the safety grill through gas springs including the safety valve.
Multi-Hitch option	Electric winder	Radio control for bottom opening without electric line
Bolted plate for excavator-direct coupling	8 / 14 pins connector	Side 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 [lt]	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 [lt/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

* this mixer bucket is only available with the side discharge, without unloading pipe and electric 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 HB400 - hydraulic motor fully protected - chain tensioner - electric valve with hydraulic hoses - electric connection kit M3 - supply 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 - attachment to the machine (bolted attachment as standard supply starting from mod. BM500TD).

By coupling the mixing bucket to the 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

	Opening of the safety grill through gas springs including the safety valve.	Radio control for bottom opening without electric line
Multi-Hitch option	Electric winder	Bolted plate for excavator-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 [lt]	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 [lt/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

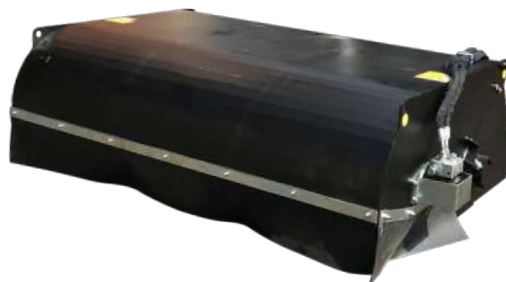


GROUND SWEEPING

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



SWEeper BUCKET HD



Direct drive motor

Brushes made of PPN Ø550 mm

HB400 steel reversible screwed cutting edge and bottom reinforcements

Works in forward and reverse gear

SWEeper BUCKET D



Brushes made of PPN Ø590mm

N. 2 Ø250x50mm support wheels

Mechanical working angle adjustment

Hydraulic opening and closing of the collection bucket

Works in forward gear

Hooks for: forklift truck, tractor, earth moving machines

Suitable for skid loaders, forklift trucks, telehandlers, compact wheel loaders

SWEeper BUCKET DS



Ø660 mm polypropylene brush

N. 3 Ø250x60mm support wheels

Internal hydraulic drive

Mechanical working angle adjustment

Hydraulic opening and closing of the collection bucket

Works in forward gear

Hooks for: forklift truck, tractor, earth moving machines

Suitable for telehandlers, backhoe loaders, wheel loaders from 90 hp to 170 hp

SWEeper BUCKET C



Ø750 mm polypropylene brush

N. 3 Ø405x110mm support wheels

Internal hydraulic drive

Mechanical working angle adjustment

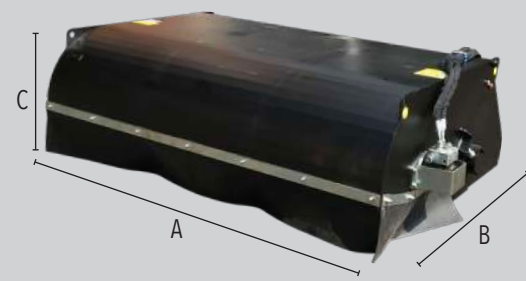
Hydraulic opening and closing of the collection bucket

Works in forward gear

Hooks for: forklift truck, tractor, earth moving machines

Suitable for wheel loaders from 180 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 improve some critical issues highlighted by customers. The steel reinforcements wear-resistant in the most stressed points of the collection bucket, the bolted and reversible HB400 blade makes the use of the HD sweeper buckets suitable for both construction sites burdensome than in normal road maintenance. The direct drive motor reduces maintenance and significantly reduces the time required for roller replacement.

OPTIONALS

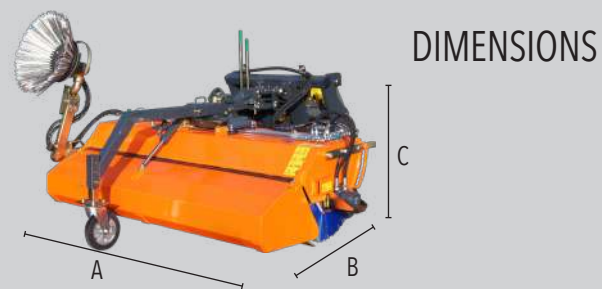
	Nebulizers kit (without tank)	Brush shaft with mixed STEEL/PPN rings
Side brush r/l Ø 600 mm in polypropylene	Sprinkler kit 100 lt / 200 lt (only BS 240 HD) with electric pump and hose with nebulizers	Falling gravity sprinkler kit with 100 lt tank
Connector 8/14 poles		



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 [lt/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 [lt]	385	450	510	560	620

* The value stated in the table refers to the mass of the sweeper bucket with universal attachment for skid loader





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 as well as road maintenance.

It can be fitted to any kind of skid steer loader and is equipped with hydraulically operated collecting bucket - PPN brush Ø 590 mm., no. 2 support wheels 250x50 mm, hydraulic hoses, integrated motor, self-leveling attachment (optional) and mechanical working angle adjustment.

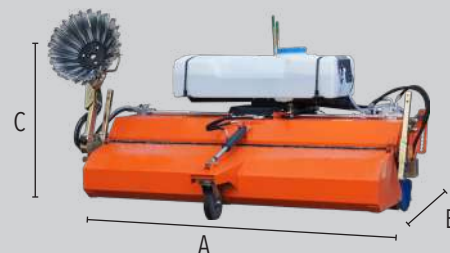
OPTIONALS

	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 lt water tank with electric pump and nebulizers	200 lt 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 (for 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 [kg]	166	184	220	244	280	315





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 as well as road maintenance.

It can be fitted to any kind of wheel-loader, back-hoe-loader, telescopic and is equipped with collecting bucket hydraulic operated - PPN brush Ø 660 mm., no. 3 support wheels 250x60 mm, hydraulic hoses, integrated motor, self-leveling attachment (optional) and mechanical working angle adjustment.

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 (for 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 [kg]	315	361	407	431





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 C is suitable for the cleaning of pavings and courtyard areas of industrial plants.

It can be fitted to any type of wheelloaders, backhoe loaders and telehandlers and is equipped with collecting bucket hydraulic operated, PPN brush Ø 750 mm, hydraulic hoses, no. 3 support wheels 405x110 mm, integrated motor, self-leveling attachment (optional) and mechanical working angle adjustment.

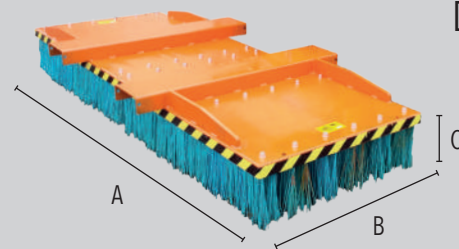
OPTIONALS

	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 (for 160bar) [l/min]	56	56	56
Ø Brush [mm]	750	750	750
Weight with collecting bucket [kg]	795	904	957
Capacity of collecting bucket [kg]	450	480	550





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)
- Attachments for lifting forks

The broom sweeper M3 is suitable for the cleaning of large yards, industrial areas, market and scrap collection. It can be fitted to any type of forklift or machine, wear-resistant and completely recyclable. It is equipped with interchangeable welded iron strips (series I) or interchangeable strips in PPN (series IP) and attachment for 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
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

- Attachments for skid steer loaders
- Direct drive hydraulic motor

The angled Broom Sweeper M3 fits any kind of skid steer loaders, loaders and telehandlers. Thanks to its strong structure can be used for the cleaning of building sites, streets, large courtyard areas or as a snow blade, in case of light snowfalls.

It is equipped with the integrated direct drive hydraulic motor, hydraulic hoses complete with quick couplings (only on SSL), attachment system with mechanical angle $\pm 30^\circ$, PPN brush $\varnothing 550$ mm, n. 2 support wheels $\varnothing 200 \times 50$ mm and attachment to fit skid steer loader.

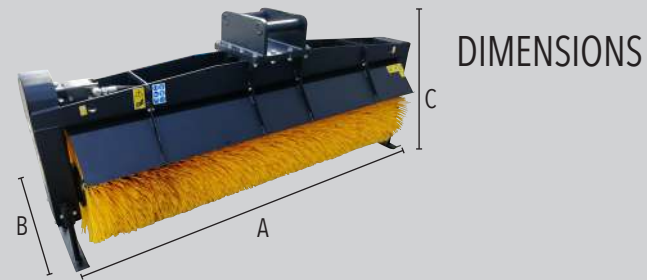
OPTIONALS

	Floating Attachment with 3rd wheel	Hydraulic Angling complete with valve and cylinder
Sprinkler kit with 100 lt Tank, electric pump and hoses with nebulizers	3rd wheel $\varnothing 200 \times 50$ 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 [lt/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 stated in the table refers to the mass of the angled broom sweeper with universal attachment for skid loader.





		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 plate to be bolted to any excavator bolt-in plate

The excavator sweeper M3 is the best solution to clean trenches, road edges and place difficult to be reached.
The sweeper is supplied with hydraulic drive motor, chaine transmission, hydraulic hoses L. 2000 mm (without quick couplings) PPN brush Ø 600 mm and drilled plate to be bolted to any excavator.

OPTIONALS

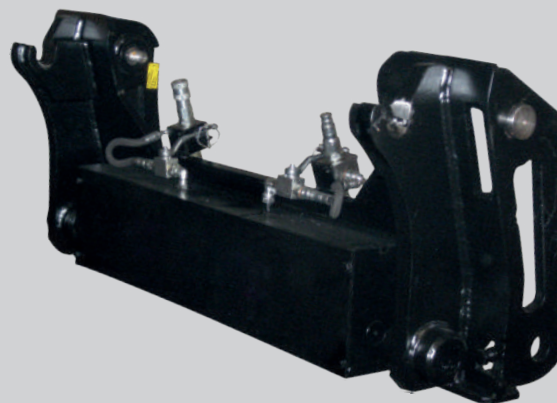
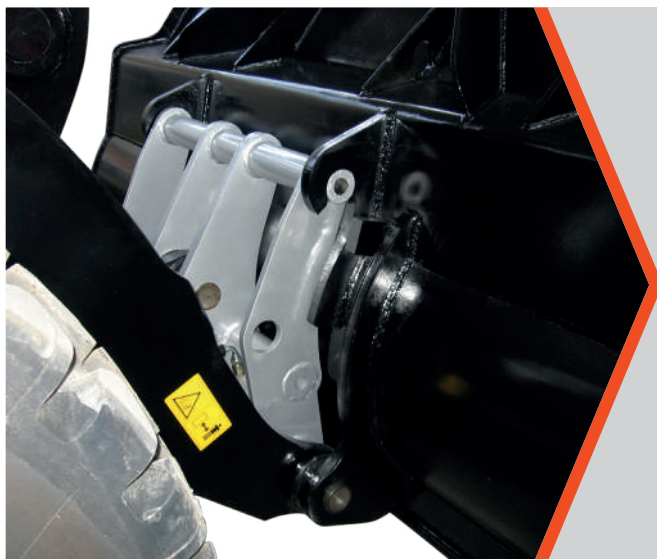
Welded hooks to fit excavator

Bolt-in plate for excavator



MODEL	SPE 150	SPE 180	SPE 210
Working width [mm]	1500	1800	2100
Max pressure [cont - l/min]	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





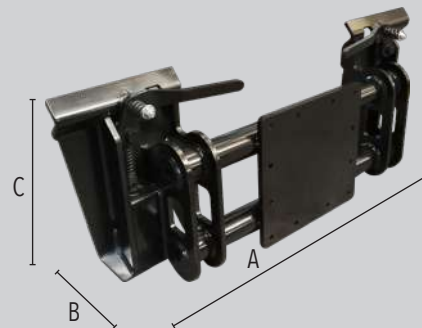
The Quick-Hitch M3 without modification of the original bucket can be attached to almost any kind of equipment and completely eliminates the usual long changeover times. It can be fitted to any back-hoe loader and avoids any intervention in the workshop and significantly increases the productivity of the machine.

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 maximum performance is required by the machine.





DIMENSIONS



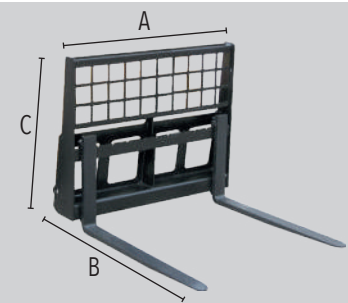
A	Width	1130
B	Depth	500
C	Height	200

- It is supplied with a blank plate to which the specific coupling, depending on the machine, can be attached.

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

In a quick and easy way, any equipment can be moved from the skid loader to the excavator rather than to the telescopic or to a backhoe. The best solution for a fast exchange making your job easier. It is equipped with welded attachment for loaders / backhoe / telescopic loaders or with bolted counterplate on which the excavator hooks can be welded.





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 grilled rollover protection

skid steer loader is equipped with grilled rollover protection.

The Fork Carriage M3 can be attached to any type of skid steer loader, back-hoe loader or wheel loader. They are available in various lifting capacities ranging from 1000 kg. up to 12.000 kg. with both forks, on request available also with lifting capacity up to 30.000 kg. The version for



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



GROUND LEVELLING

- Extremely tough and rugged
- Heavy cylinders
- Pneumatic floating wheels for high adaptability to the ground
- Attachment 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 bolted blade

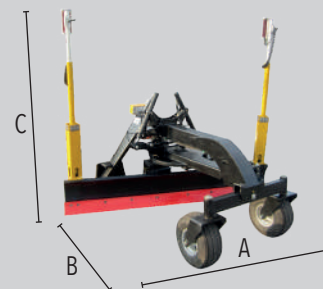
Over center valve on wheel lifting cylinder



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 the small skid steer loaders with power ranging from 50 to 120 HP is ideal for the preparation and the leveling of lands, roads and yards. It is equipped with the tilt system 32°, oscillation 40° and translation 450 mm of the blade through an hydraulically controlled push button, manual flow regulator on the distributor on / off, ST52 steel structure, attachment to the machine, hydraulic hoses and electric control kit.

OPTIONALS

Laser Control System (1)

Proportional distributor (2)

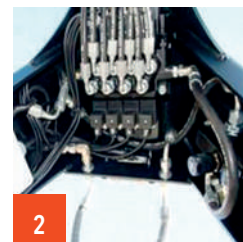
Left/right side closing plate (3)



1



1



2



3

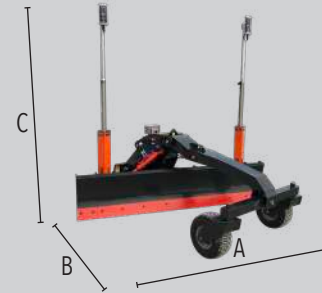
MODEL	GR 230	GR 250	GR 270
Blade width [mm]	2300	2500	2700
Weight [kg]	670	690	710
Hydraulic blade inclination r/l	$\pm 38^\circ$	$\pm 38^\circ$	$\pm 38^\circ$
Hydraulic blade oscillation r/l	$\pm 32^\circ$	$\pm 32^\circ$	$\pm 32^\circ$
Hydraulic blade translation [mm]	± 450	± 450	± 450



1



3



DIMENSIONS

GR 220/270

A	Width	2200/2700
B	Depth	2500
C	Height	1900

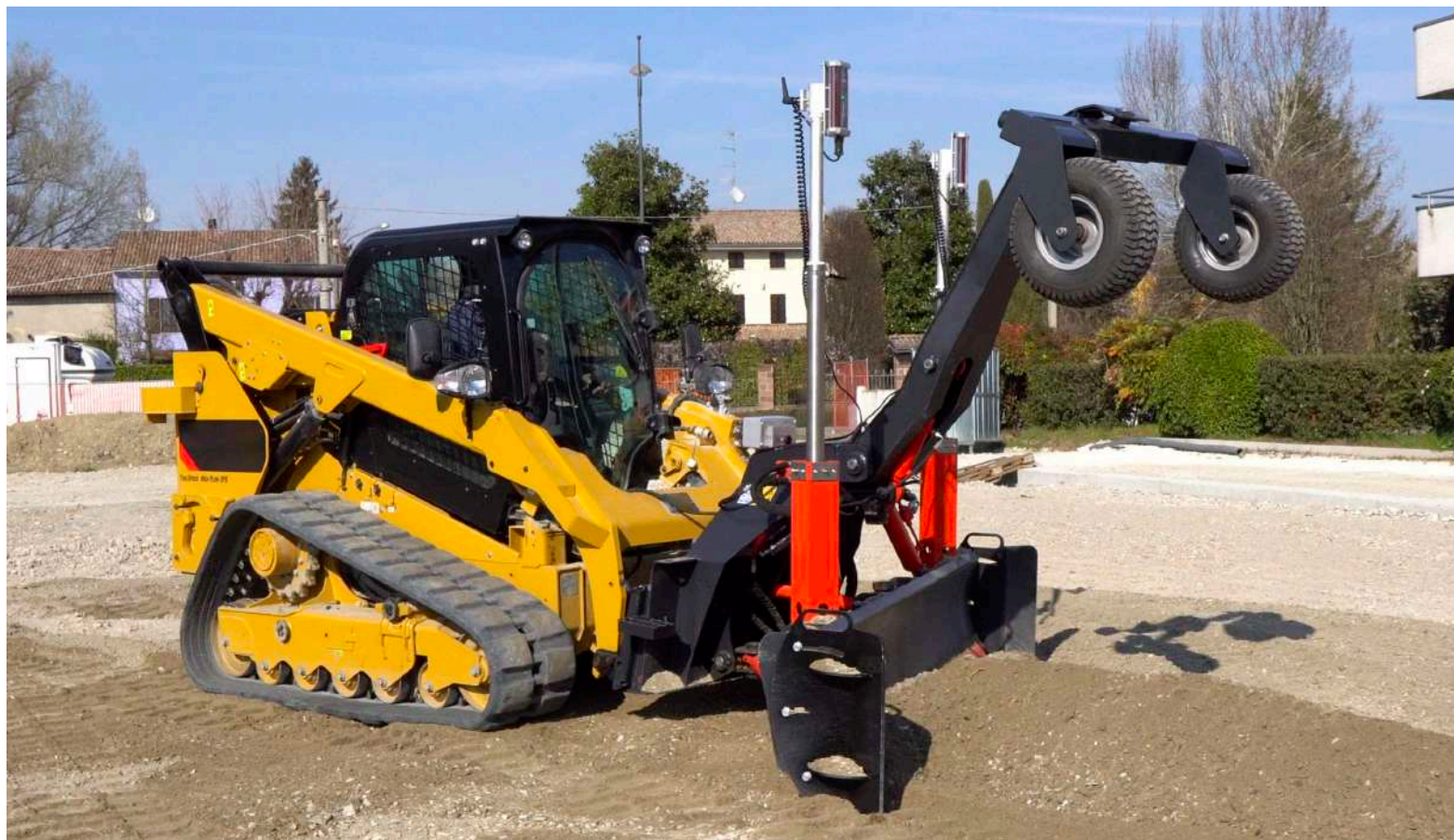
The Grader Blade M3 Model Dual can be fitted to the small skid steer loaders with power ranging from 50 to 120 HP is ideal for the preparation and the leveling of lands, roads and yards.
It is equipped with an hydraulically controlled system by push button allowing the inclination at 26°, the oscillation at 15°, the blade height regulation $\pm 150\text{mm}$, the lifting of the front wheels, a manual distributor on / off, blade extentions, attachment to the machine, hydraulic hoses and electric control kit.

OPTIONALS

	Laser Control System (trasmmitter excluded) (1)	Left/right side 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
- Angle up to 30 degrees
- Heavy cylinders
- Replaceable bolt-on edge
- Skid loader attachments



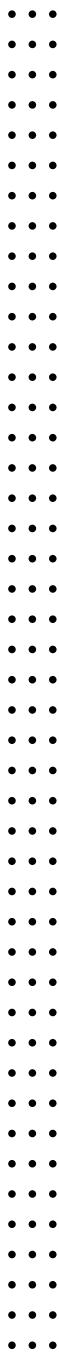
DOZER BLADE

* compact wheel loaders up to 80hp



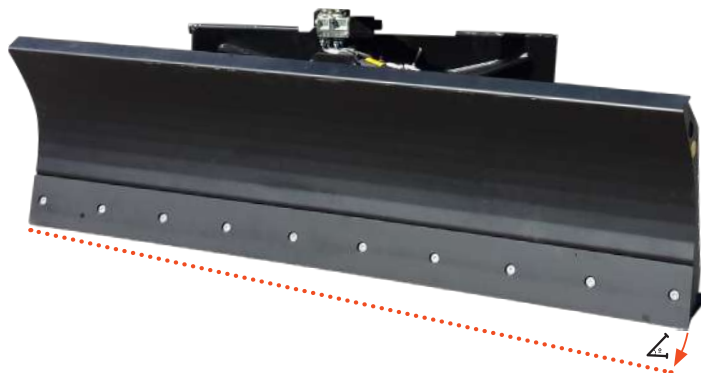
Hydraulic hoses with quick couplings

Shockproof valve



DOZER TILT BLADE

* compact wheel loaders up to 80hp



Hydraulic hoses with quick couplings

Shockproof valve

1/2" valve

Hydraulic oscillation +/- 8°

Standard electric kit

LEVELING BOX DOZER BLADE



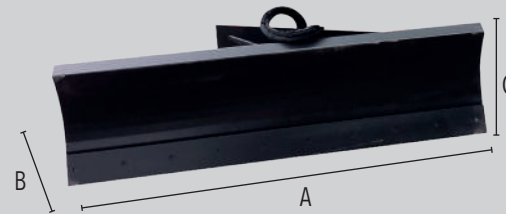
Proportional distributor

Rear pad with hydraulic control which neutralizes the riding effect

Laser control system

Bolt-in blade

Electrically controlled 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
- HB400 wear&tear steel bolted blade

The M3 dozer blade can be easily fitted to any kind of skid steer loader.

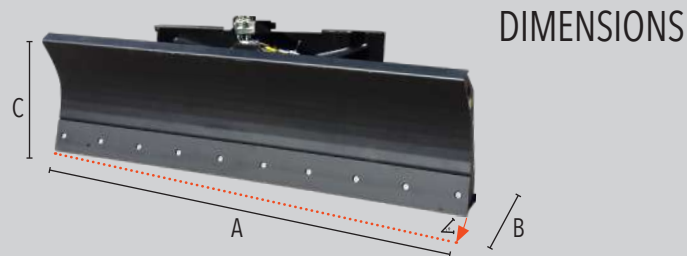
It is equipped with shockproof valve, hydraulic angling $\pm 30^\circ$, electric valve with hydraulic hoses, HB400 wear&tear steel bolted blade and universal attachment to fit the machine.



* compact wheel loaders up to 80hp

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°





DIMENSIONS

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

- It is equipped with shockproof valve
- HB400 wear&tear steel bolted blade
- Electric valve complete with hydraulic hoses

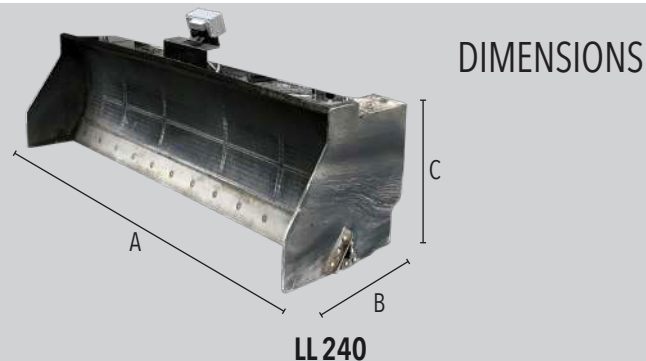
The M3 tilt dozer blade can be easily fitted to any kind of skid steer loader.

It is equipped with shockproof valve, hydraulic angling $\pm 30^\circ$, hydraulic oscillation $\pm 8^\circ$, electric valve with hydraulic hoses, HB400 wear&tear steel bolted blade and attachment to fit skid loader.



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

M3's self levelling blade suitable for backfilling works, drafting of landfill materials and indoor ground levelling with excellent finishing level.

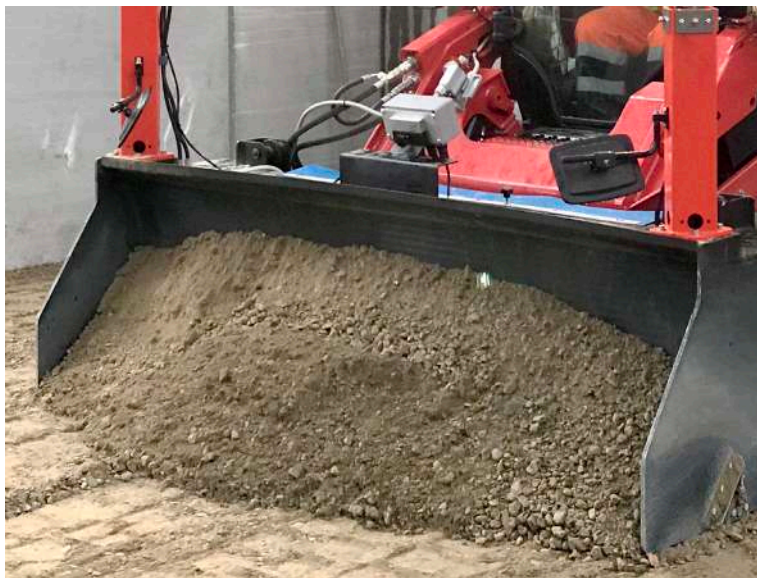
With horizontal plane inclination system controlled by two hydraulic cylinders which allows the blade's up and down movement. Moreover equipped with an innovative rear skate managed by hydraulic cylinder with relief valve which keep fixed pressure on the skate to the ground to keep perfect levelling conditions even in case of ride controlled machines using and to neutralize riding effects.

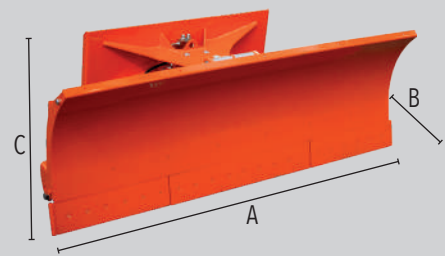
Supplied with hydraulic proportional distributor, reliefs valve calibrate for having constant pressure, as option is available a wireless control system, levelling systems, receivers, wirings and receiver's poles. As option is available a wireless control system, levelling systems, receivers, wirings and receiver's poles.

OPTIONALS

Wi-fi control system

MODEL	LL 240
Blade width [mm]	2400
Weight [kg]	950
Total blade height [mm]	740
Depth [mm]	830





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 all types of skid steer loaders and loaders 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 attachment to the machine.

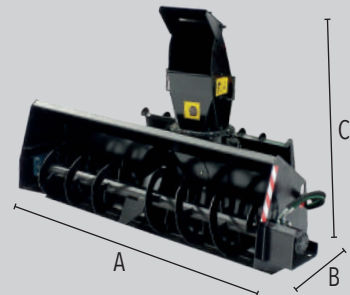
OPTIONALS

	Support bracket kit	Sectors blade in polyurethane
Support wheels kit	Top support	Floating attachment



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	± 7	± 7	± 7	± 7	± 7





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
- Rotation deflector: electrical

The snow blower M3 is the perfect equipment for snow. It is produced in different models to fit machines with different widths and can be attached to all types of skid steer loaders, backhoe loaders, compact wheel loaders. Thanks to its turbine that allows to blow the snow up to 15 mt, 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 the rotation of deflector electrically or hydraulically operated, hélice and attachment to fit the machine.

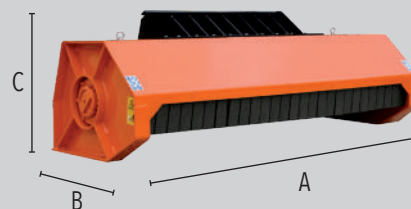
OPTIONALS

Chute height mt 2,75



MODEL				
	MFN 150	MFN 180	MFN 210	MFN 245
Working width [mm]	1500	1800	2100	2450
Screw 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 [lt/min]	65	65	65	65
Discharge distance [m]	15	15	15	15
Weight [kg]	380	400	420	650





DIMENSIONS

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

- Maximum cutting diameter: 80 mm
- Direct drive hydraulic motor
- Rotor with knives
- Hammer rotor

The hydraulic bush cutter M3 is characterised by a strong structure and is specifically designed to be used on skid steer loaders.

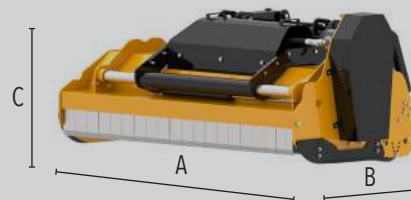
It is manufactured in 4 models and equipped with a couple of "Y" knives and a third central knife to reduce any treated material to fine grains. It is supplied with hydraulic hoses and bolted plate to fit skid loader (excluding the model MDC10 supplied with a welded hook). The knives are of heavy type, suitable to crush shrubs with a maximum diameter of about 80 mm.

OPTIONALS

Hydraulic hoses kit

MODEL	MDC 10	MDC 13	MDC 16	MDC 19	MDM 13	MDM 16	MDM 19
Oil flow required [lt/min]	26/36/44/55	55/66/80/100	66/80/100	66/80/100	55/66/80/100	66/80/100	66/80/100
Drain	YES	NO	NO	NO	NO	NO	NO
Max pressure [bar]	250	250	250	250	250	250	250
Weight [kg]	270	450	550	650	460	560	660
Working width [mm]	1080	1300	1600	1900	1300	1600	1900





DIMENSIONS

		MHC5 160	MHC5 180	MHC5 200	MHC10 160 HD	MHC10 180 HD
A	Width	182	202	222	200	220
B	Depth	120	120	120	100	100
C	Height	110	110	110	160	160

- Maximum cutting diameter: 8 cm - 30 cm (HD series only)
- Hydraulic motor with belt transmission
- MKF knives rotor
- MHF hammers rotor

The M3 MHC series bushcutter featured by its solidity, is designed to fit skid loaders, compact and telescopic loaders up to 80/90 HP. Available in 2 versions, standard and HD. **The standard version** is equipped with universal oscillating and self-leveling attachment, 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** in addition is equipped with universal fixed attachment, rotor with fixed wide 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.

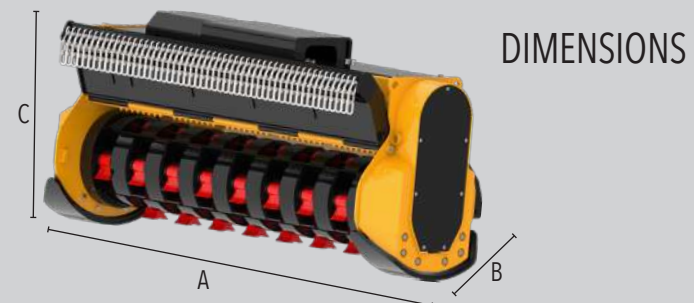
OPTIONALS

	Hydraulic shift (not available in the HD series)	Hydraulic hoses kit
Hydraulic kit for front hood drive	Attachment for Backhoes / loaders / telehandlers	Mechanical push frame (only available in the HD series)



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 [lt/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 gears			pistons gears	
Knives number [n°]	18	20	22	42	54





		MH9 70HD2	MH9 90HD2	MH9 105HD2	MH9 70HD3	MH9 90HD3	MH9 105HD3	MH11 130HD2	MH13 105HD2	MH13 130HD2	MH13 105HD3	MH13 130HD3	MH15 130HD2	MH15 160HD2	MH15 130HD3	MH15 160HD3	MH20 130HD3	MH20 160HD3	MH20 180HD3
A	Width	850	1050	1250	850	1050	150	1450	1250	1450	1250	1450	1600	1900	1600	1900	1700	2000	2000
B	Depth	800	800	800	800	800	800	900	950	950	950	950	800	800	800	800	1000	1000	1000
C	Height	600	600	600	600	600	600	600	850	850	850	850	850	850	850	850	900	900	900

The hydraulic mulching head M3 is designed with a strong and reliable structure and can easily fit almost 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), valve block including anti-cavitation, priority, shockproof valve, adjustable support slides and perforated smooth plate.

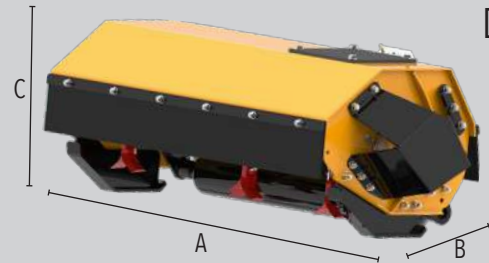
OPTIONALS

	Self-leveling support	Hydraulic hoses kit
Knives and hammers kit	Mounting hitch	



MODEL	MH9 70HD2	MH9 90HD2	MH9 105HD2	MH9 70HD3	MH9 90HD3	MH9 105HD3	MH11 130HD2	MH13 105HD2	MH13 130HD2	MH13 105HD3	MH13 130HD3	MH15 130HD2	MH15 160HD2	MH15 130HD3	MH15 160HD3	MH20 130HD3	MH20 160HD3	MH20 180HD3
Working width [mm]	700	900	1050	700	900	1050	1300	1050	1300	1050	1300	1300	1600	1300	1600	1300	1600	1800
Weight [kg]	220	330	400	340	400	460	440	580	650	685	745	920	1020	950	1050	1050	1185	1320
Oil [lt/min]	40/90	40/90	50/90	40/90	50/90	50/90	60/90	70/90	70/90	80/90	80/90	100/160	100/160	100/160	100/160	100/180	100/180	100/180
Pression [bar]	200/220	200/220	200/220	200/220	200/220	200/220	200/220	200/220	200/220	200/220	200/220	200/250	200/250	200/250	200/250	200/350	200/350	200/350
Excavator class [t]	5,0-8,0	6,0-8,0	6,0-12,0	5,0-12,0	6,0-12,0	6,0-12,0	8,0-12,0	10,0-16,0	10,0-16,0	10,0-16,0	10,0-16,0	12,0-25,0	15,0-25,0	12,0-25,0	16,0-25,0	16,0-30,0	18,0-30,0	20,0-30,0
Rotor standard	MHF17	MHF17	MHF17	MHF14	MHF14	MHF14	MHF19	MHF19	MHF19	MHF14	MHF14	MHF11	MHF13	MHF14	MHF14	MHF14	MHF14	MHF14
Rotor optional	-	-	-	MHF15	MHF15	MHF15	-	-	-	MHF15	MHF15	MHF10	MHF12	MHF15	MHF15	MHF15	MHF15	MHF15
Motor displacement [cc]	22/51	22/51	27/51	22/51	27/51	27/51	44/51	44/51	44/51	44/51	44/51	32/64	32/64	32/64	32/64	45/80	45/80	45/80
Motor type	gears						cast iron gears*						pistons gears					
Knives number [n°]	12	18	22	18	24	30	18	16	18	30	36	26	32	36	42	36	42	54

* on request, a piston engine is also available



DIMENSIONS

		MH1 60	MH1 80	MH3 70	MH3 90	MH5 105	MH7 105	MH7 125	MH9 70	MH9 90	MH9 105	MH11 130	MH11 160	MH13 105	MH13 130
A	Width	850	1000	950	1150	1300	1250	1450	850	1050	1250	1450	1850	1250	1450
B	Depth	500	500	550	550	600	750	750	800	800	800	900	1000	950	950
C	Height	350	350	450	450	400	500	500	600	600	600	600	700	850	850

The hydraulic mulching head M3 is designed with a strong and reliable structure and can easily fit almost 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, leveling roller (MH3/5/7 models only) with adjustable height, direct transmission (up to MH7) belt transmission, valve block including anti-cavitation, priority, shockproof valve and perforated smooth plate.

OPTIONALS

	Self-leveling support	Hydraulic hoses kit
Knives and hammers kit	Mounting hitch	Front and rear chain protection (only for mod. MH1/3/5)
Support roller (only for mod. MH1 / 9/11/13)		



MODEL	MH1 60	MH1 80	MH3 70	MH3 90	MH5 105	MH7 105	MH7 125	MH9 70	MH9 90	MH9 105	MH11 130	MH11 160	MH13 105	MH13 130
Working width [mm]	600	800	700	900	1050	1050	1250	700	900	1050	1300	1600	1050	1300
Weight [kg]	70	80	130	150	190	220	250	180	260	310	345	420	480	540
Oil [lt/min]	20/30	30/40	20/40	30/40	40/60	60/80	60/80	30	40/60	40/90	60/90	80/90	70/90	70/90
Pression [bar]	170/220	170/220	170/220	170/220	170/220	200/220	200/220	170/220	170/220	200/220	200/220	200/220	200/220	200/220
Excavator class [t]	1,2 - 3,0	1,2 - 3,0	1,5 - 5,0	2,0 - 5,0	4,0 - 6,0	6,0 - 8,0	6,0 - 8,0	3,0 - 4,0	4,0 - 8,0	6,0 - 10,0	6,0 - 12,0	10,0 - 12,0	8,0 - 16,0	8,0 - 16,0
Rotor standard	MHF1	MHF1	MHF2	MHF2	MHF2	MHF3	MHF3	MHF3	MHF3	MHF3	MHF3	MHF6	MHF6	MHF6
Rotor optional	MKF1	MKF1	MHC1 MKC1	MHC1 MKC1	MHC1 MKC1	MKF3	MKF3	MKF3	MKF3	MKF3	MKF3	MKF7	MKF7	MKF7
Motor displacement [cc]	8/11	8/11	8/16	11/16	16	22/34	22/34	16	22/34	22/51	34/51	44/51	44/51	44/51
Motor type	gears					cast iron gears*		gears			cast iron gears*			
Knives number [n°]	12	16	12	16	16	16	20	10	14	16	20	20	16	20

* on request, a piston engine is also available



Knives MKF5 max cut Ø 6 cm

MODEL

MH 11/13/15



360° rotating hammers MHF9 max cut Ø 12 cm

MODEL

MH 11/13HD2

MHF9 ***



360° rotating hammers MHF11/13 max cut Ø 25 cm

MODEL

MH 15 HD2

MHF11 ***

MHF13 ***



Hammers MHC1 max cut Ø 4 cm

MODEL

MH 3/5



Hammers MHF3 max cut Ø 8 cm

MODEL

MH 7/9



Hammers MHF6 max cut Ø 8 cm

MODEL

MH 11/13/15



Fixed teeth MHF14 max cut Ø 25 cm

MODEL

MH 13/15/20 HD3



Hammers MHF1 max cut Ø 3 cm

MODEL

MH 1



Knives MKF1 max cut Ø 2 cm

MODEL

MH 1



Hammers MHF2 max cut Ø 5 cm

MODEL

MH 3/5



360° rotating hammers MHF7/8 max cut Ø 12 cm

MODEL

MH 9/11/13HD2

MHF7 ***

MHF8 ***



360° rotating hammers MHF10/12 max cut Ø 25 cm

MODEL

MH 15 HD2

MHF10 ***

MHF12 ***



Fixed teeth MHF15 max cut Ø 20 cm

MODEL

MH 13/15/20 HD3



Knives MKC1 max cut Ø 3 cm

MODEL

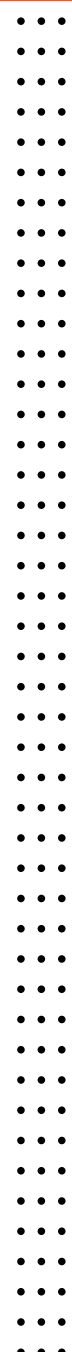
MH 3/5

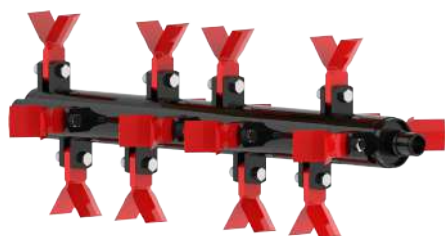



Knives MKF3 max cut Ø 6 cm

MODEL

MH 7/9



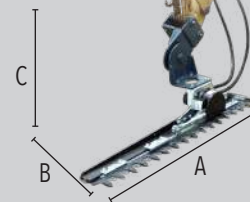


MODEL	 (Ton)																
	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	25.0	30.0	
MH1	Ø3																
MH3	Ø5																
MH5				Ø5													
MH7					Ø8												
MH9			Ø8														
MH9 HD2					Ø12												
MH9 HD3					Ø25												
MH11						Ø8											
MH11 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 system on the excavator is of exclusive pertinence and responsibility of the client. Should the client wish, instead, to operate the M3 mulcher by means of the existing hydraulic system in the excavator (ex. for operating demolition hammers, pincers, etc.), he must be aware that the performance of the mulcher may result decreased, in particular when the excavator's arm, the cabin and/or the trucks/wheels are moving as well. Note also that a pressure on the return branch exceeding 15 bar would cause the leakage of the seal of the hydraulic motor with consequent loss of oil.



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
- Adjustable attachment system
- Blades protection
- Orbital motor protected by anti-shock and anti-cavitation valve

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

The blades are in wear resistant steel and it is equipped with adjustable attachment, orbital motor protected by anti-shock and anti-cavitation valve, mechanical shock absorber and blades protection.

OPTIONALS

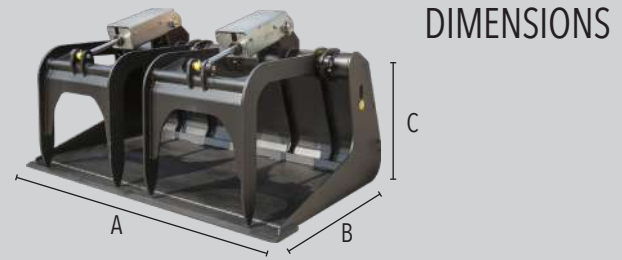
Spare blades kit

Hydraulic hoses kit



MODEL	MC 120	MC 160	MC 180
Weight [kg]	42	55	64
Max pressure [bar]	180	180	180
Max flow rate [lt/min]	26/40/50	26/40/50	26/40/50
Excavator class [t]	1,0 - 5,0	2,0 - 6,0	2,0 - 6,0
Cut width [mm]	1200	1600	1800
Max. Cut Ø [mm]	30	30	30





		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 allow materials wider than bucket to be carried
- Heavy duty construction
- Twin cylinder with ram protection and stop valve

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

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

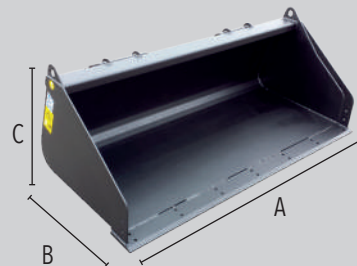


OPTIONALS

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 is easily attached to all types of skid steer loaders. It is equipped with steel drilled blade configured for the installation of teeth, steel bottom reinforcements and attachment to the machine.

OPTIONALS

Reversible screwed blade

Bolted teeth kit



MODEL	BSK 110	BSK 125	BSK 140	BSK 155	BSK 170	BSK 185	BSK 200
Capacity [lt]	317	360	381	447	493	579	626
Weight [kg]	135	150	162	175	190	205	215
Teeth number [no.]	5	5	6	6	7	8	8



GROUND DRILLING

- Compact high torque gearbox
- Highly efficient design with less moving parts
- Fitted with customized Eaton geroler hydraulic motor
- No drain required
- Extreme duty shaft locking system
- Innovative design allows the gearbox to go down the hole to maximise drilling depth without extensions
- Low maintenance with 5yr gear box and 3yr motor warranty



AUGERS: MINI EXCAVATOR/SKID STEER LOADER STD



AUGERS: EXCAVATOR/SKID STEER LOADER STD/HF



AUGERS: EXCAVATOR





5YR GEAR BOX WARRANTY

3YR MOTOR WARRANTY

Compact high torque gearbox
Highly efficient design with less moving parts
Fitted with customized Eaton geroler hydraulic motor
No drain required
Extreme duty shaft locking system
Innovative design allows the gearbox to go down the hole to maximise drilling depth without extentions
Low maintenance with 5yr gear box and 3yr motor warranty



EXCAVATOR HITCHES		
SINGLE PIN HITCH		
DIMENSIONS mm		
Ø 25	95/120	
Ø 30	95/120	
Ø 30	125/145	
Ø 35	125/145	
Ø 35	150/170	

SKID STEER FRAME	
DESCRIPTION	
MPDD - MPDX2 - MPD3	

CRADLE HITCH	
DESCRIPTION	HITCH BASE PLATE mm
MPDD - MPDX2 - MPD3	200x150x25 250x225x25

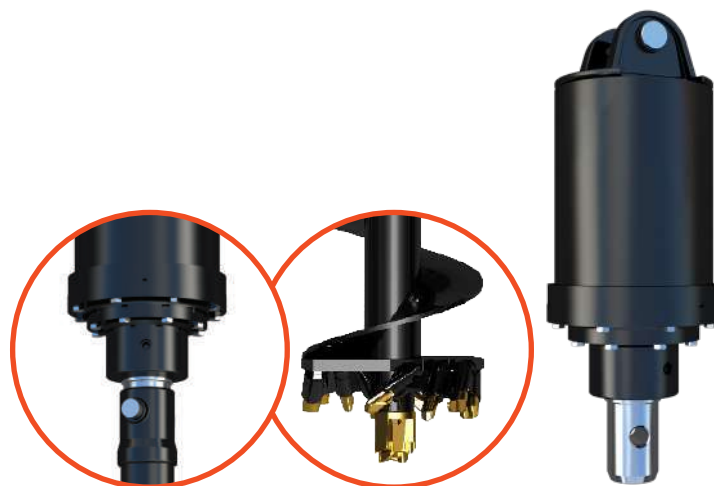
EXTENSIONS	
DIMENSIONS mm	
Lenght 500	Ø 65
Lenght 1000	Ø 65
Lenght 1500	Ø 65

DOUBLE PIN HITCH	
HITCH BASE PLATE mm	
200x150x25	250x225x25

AUGERS 65 Ø MM ROUND HUB	
DIMENSIONS mm	MRC - MIXED TERRAIN AND ROCK Model
150x1200	MRC4-15
200x1200	MRC4-20
250x1200	MRC4-25
300x1200	MRC4-30
400x1200	MRC4-40
500x1200	MRC4-50
600x1200	MRC4-60

MODEL		MPDD	MPDX 2	MPD 3
Horse power [kw]		25	25	25
Max flow rate [lt/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]		Ø 65	Ø 65	Ø 65
Weight [kg]		41	45	57
Excavator class		0,75-2	1,5-2,5	2-5
Tip for mixed terrain and rock	Tip kind	MRC4	MRC4	MRC4
	Max diameter	400	450	600

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





5YR GEAR BOX WARRANTY

3YR MOTOR WARRANTY

Compact high torque gearbox
Highly efficient design with less moving parts
Fitted with customized Eaton geroler hydraulic motor
No drain required
Extreme duty shaft locking system
Innovative design allows the gearbox to go down the hole to maximise drilling depth without extentions
Low maintenance with 5yr gear box and 3yr motor warranty



EXCAVATOR HITCHES	
SINGLE PIN HITCH	
DIMENSIONS mm	
Ø 40	150/170
Ø 45	150/170
Ø 45	175/200
Ø 50	150/170
Ø 50	175/200
Ø 50	210/230

SKID STEER FRAME	
DESCRIPTION	
MPD5/7	
MPD10 - MPD6/8 HF	

CRADLE HITCH	
DESCRIPTION	HITCH BASE PLATE mm
MPD5/7/10	250x250x25
6HF/8HF	275x250x25

EXTENSIONS	
DIMENSIONS mm	
Lenght	1000 Ø 75
Lenght	1500 Ø 75
Lenght	2000 Ø 75

DOUBLE PIN HITCH	
HITCH BASE PLATE mm	
250x250x25	275x250x25

AUGERS 75 Ø MM SQUARE HUB			
MRC - MIXED TERRAIN AND ROCK			
DIMENSIONS mm	Model		Model
150x1500	MRC6-15	600x1500	MRC6-60
200x1500	MRC6-20	750x1500	MRC6-75
250x1500	MRC6-25	900x1500	MRC6-90
300x1500	MRC6-30	1000x1500	MRC6-100
400x1500	MRC6-40	1200x1500	MRC6-120
500x1500	MRC6-50		

MODEL		MPD 5	MPD 7	MPD 10	MPD 6 HF	MPD 8 HF
Horse power [kw]		25	25	25	60	60
Max flow rate [lt/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		4-8	5-10	5-10	5-10	5-10
Tip for mixed terrain and rock	Tip kind	MRC6	MRC6	MRC6	MRC6	MRC6
	Max diameter	900	900	1000	1200	1200

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





5YR GEAR BOX WARRANTY

3YR MOTOR WARRANTY

Compact high torque gearbox
Highly efficient design with less moving parts
Fitted with customized Eaton geroler hydraulic motor
No drain required
Extreme duty shaft locking system
Innovative design allows the gearbox to go down the hole to maximise drilling depth without extentions
Low maintenance with 5yr gear box and 3yr motor warranty



EXCAVATOR HITCHES
SINGLE PIN HITCH
DIMENSIONS mm
Ø 65 mm
Ø 70 mm
Ø 75 mm

EXTENSIONS
DIMENSIONS mm
Lenght 1000 Ø 75
Lenght 1500 Ø 75
Lenght 2000 Ø 75
Lenght 2500 Ø 75

CRADLE HITCH	
DESCRIPTION	HITCH BASE PLATE mm
MPD18/22	200x150x25 250x225x25

DOUBLE PIN HITCH
HITCH BASE PLATE mm
325x300x25

AUGERS 75 Ø MM SQUARE HUB			
MRC - MIXED TERRAIN AND ROCK			
DIMENSIONS mm	Model		Model
200x1500	MRC8-20	750x1500	MRC8-75
250x1500	MRC8-25	900x1500	MRC8-90
300x1500	MRC8-30	1000x1500	MRC8-100
400x1500	MRC8-40	1200x1500	MRC8-120
500x1500	MRC8-50	1500x1500	MRC8-150
600x1500	MRC8-60		

MODEL		MPD 18	MPD 22
Horse power [kw]		60	60
Max flow rate [lt/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		10-20	10-20
Tip for mixed terrain and rock	Tip kind	MRC8	MRC8
	Max diameter	1500	1500

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

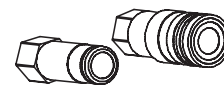
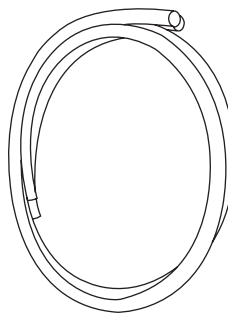


HOW TO ORDER A DRIVE UNIT

WHEN ORDERING A DRIVE UNIT, CHOOSE ONE ITEM FROM EACH CATEGORY

1 DRIVE UNITS

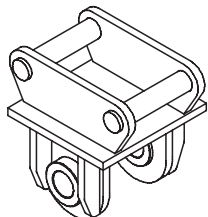
2,2 m hoses & couplers - linkage block and pin included (from MPDD to MPD3)
3 m (from MPD5 to MPD22)



Flat face couplers

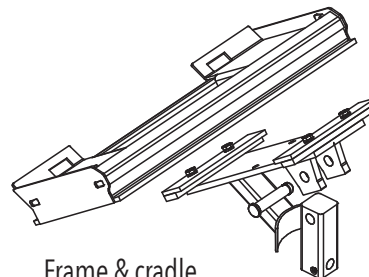
2 HITCH OR FRAME

Options available



Single or double pin hitch

OR

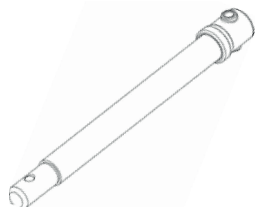


Frame & cradle



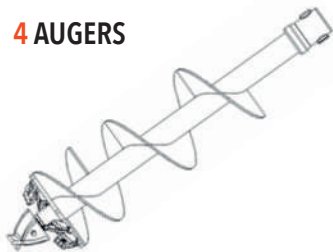
Cradle hitch
(recommended)

3 EXTENSIONS



No.1 pin included

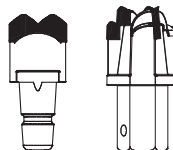
4 AUGERS



No.1 pin + kit for mixed terrain and rock

SPARE WEAR PART UNITS

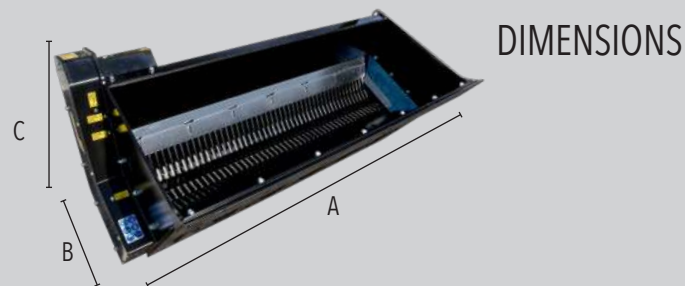
(tool + pilots recommended)



Spare wear part kits, available included outer teeth, inner teeth and nut&bolt







DIMENSIONS

		SF 120	SF 150	SF 180	SF 210
A	Width	1365	1675	2007	2315
B	Depth	700	700	720	720
C	Height	780	780	980	980

- It is equipped with shockproof valve
- HB400 wear&tear steel screen
- Heavy duty construction with HB400

The front screening bucket M3 is designed to sort waste and demolition material, filling and reclamation of stony ground directly in the yard.

It can be fitted to all types of skid steer loaders and is equipped with hydraulic hoses and attachment to fit skid steer loader.

MODEL	SF 120	SF 150	SF 180	SF 210
Working width [mm]	1200	1500	1800	2100
Total width [mm]	1500	1800	2100	2400
Weight [kg]	350	400	700	850
Ø of the selected material [mm]	20	20	20	20
Oil flow rate [lt/min]	40	40	60	60
Max oil flow rate [lt/min]	70	70	90	90
Max pressure [bar]	180	180	180	180



SALES CONDITIONS

ORDERS: They will be confirmed by M3 MetalMeccanicaModerna for regular acceptance. M3 MetalMeccanicaModerna will not accept any order involving penalties. The goods offered for prompt shipment or delivery shall always be intended with the clause "in terms of time and subject to sale expected." In the event of failure to collect the ordered goods, on our part, M3 MetalMeccanicaModerna can expect the execution of the contract or its resolution: in this latter case, the Purchaser shall pay 20% of the supplies as a penalty.

PRICES: They refer to the quoted ones at the date of acceptance. In case, in the course of supply any increase, for various reasons, may occur (materials, labor or otherwise), M3 MetalMeccanicaModerna shall have the option to adjust prices of the order, after written information.

TERMS OF DELIVERY: The delivery time indicated by M3 MetalMeccanicaModerna, while being observed as much as possible, has always to be considered as informational only. M3 MetalMeccanicaModerna assumes no responsibility for damages resulting from delays in delivery. M3 MetalMeccanicaModerna reserves the right to extend the forecast of delivery or to cancel the contract in the following cases: - Inaccuracies or delays by the Customer in submitting the data relevant for the proper execution of the order; - Force majeure absolutely unpredictable, such as strikes, natural disasters, delays by suppliers of the raw materials, etc.; - Default in payments by the customer.

SHIPPING: They are carried out on behalf of the Customer at his own peril. Complaints for possible tampering must be submitted by the Customer to the carrier. Claims for differences in quantities and / or exchanges in types, will be considered only if made in writing within 8 days from the receipt of the material.

PAYMENTS: Unless otherwise agreed, payments must be made at the domicile of the M3 MetalMeccanicaModerna as indicated in the invoices. After the expiration of the agreed deadline for payment, retaining the right to require payment, M3 MetalMeccanicaModerna will count on his credit interests of law. M3 MetalMeccanicaModerna may also suspend production of the ordered products or certainly cancel the residual ordering, giving notice to the Customer, without having to acknowledge payment or compensation of any kind, except any other right of M3 MetalMeccanicaModerna.

RETURNED ITEMS: Any item to be returned must be previously agreed with the M3 MetalMeccanicaModerna Sales Department and will be accepted only if the material and its packaging will be perfectly intact. In the case of special material, specifically produced, the return will absolutely not be accepted.

WARRANTY: M3 MetalMeccanicaModerna ensures that every new product is free from construction and material defects for a period of twelve (12) months from the date of delivery to the first owner/user. For this purpose, the date of delivery indicated on the invoice shall be considered authentic. To benefit from the warranty it is essential that: - the owner sends the "Warranty Certificate" to M3 MetalMeccanicaModerna within ten (10) days from receipt of the equipment. The "Warranty Certificate" must be completed in its entirety by the owner; - the defective

parts have to be sent to the Company M3 MetalMeccanicaModerna, for inspection, free of any charge and accompanied by the identification data indicated on the plate of the equipment. - the programs and timing of maintenance provided by the M3 MetalMeccanicaModerna are respected. M3 MetalMeccanicaModerna shall not recognize: - transportation costs, both for the new shipped parts and for those parts assumed to be defective, whose return to controls is asked for; - labor costs other than those of time schedules, costs for the installation and removal of equipment from the equipment M3; - costs of intervention out of workshop: travel, subsistence, miles, etc.; - costs for "downtime" and penalties for work not carried out due to failures of any kind and consequent loss of profit; - costs for replacement machines, commercial damages, etc. ; - damage caused by the use of the equipment M3 in a state of apparent or arising defect. The owner of the M3 equipment shall give a written notice to the relevant seller of the defect, when arising, and to accept the reasonably transport time necessary to transport, repair or replacement of defective parts. The warranty of the M3 equipment ends before the 12 months foreseen if: - changes have been made, tampering, alterations of any kind; - the routine maintenance has not been carried out or there has been a improper use; - the equipment is mounted on machines other than those envisaged at the time of delivery; - repairs or replacement of worn parts have been carried out with non original M3 spare parts; - the non-compliance with the terms of payment is found out. This guarantee does not cover parts subject to wear and tear (ie: bottom, mixing shafts, parts of rubbing, unloading trap) and the electrical components (f.i. coil, electrovalve, cable, switch). M3 MetalMeccanicaModerna excludes any other form of guarantee. No agent, dealer or representative is authorized to guarantee on behalf of M3 MetalMeccanicaModerna. The Customer, dealer or user, has to send to M3 MetalMeccanicaModerna the "FINAL TESTING SHEET" duly completed in all its parts.

TERMINATION OF CONTRACT: In case of change in the commercial conditions (declaration of incapacity, suspension of payments, request of concordat, subjugation to liens and mortgages, declaration of bankruptcy, name change, etc.) M3 MetalMeccanicaModerna has the right to demand guarantees or to terminate the contract without any right for the Customer.

RESPONSIBILITIES: M3 MetalMeccanicaModerna is not responsible regarding claims and direct or indirect damages to people or things that could occur during the use, caused by equipments, accessories or other materials of M3 MetalMeccanicaModerna supply, as specified in the operating manual.

VALIDITY: These "GENERAL TERMS AND CONDITIONS OF SALE" cancel and replace any other previous condition. Any exceptions to these terms will be valid only if specifically confirmed and accepted in writing by M3 MetalMeccanicaModerna.

JURISDICTION: Any disputes will be exclusively submitted to the Court of Parma.



M3 MetalMeccanica Moderna s.r.l.

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