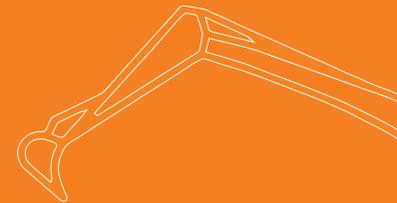
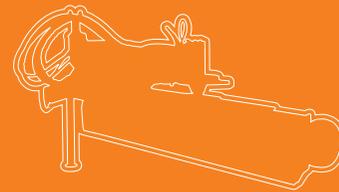


THE

PRODUCT
CATALOGUE



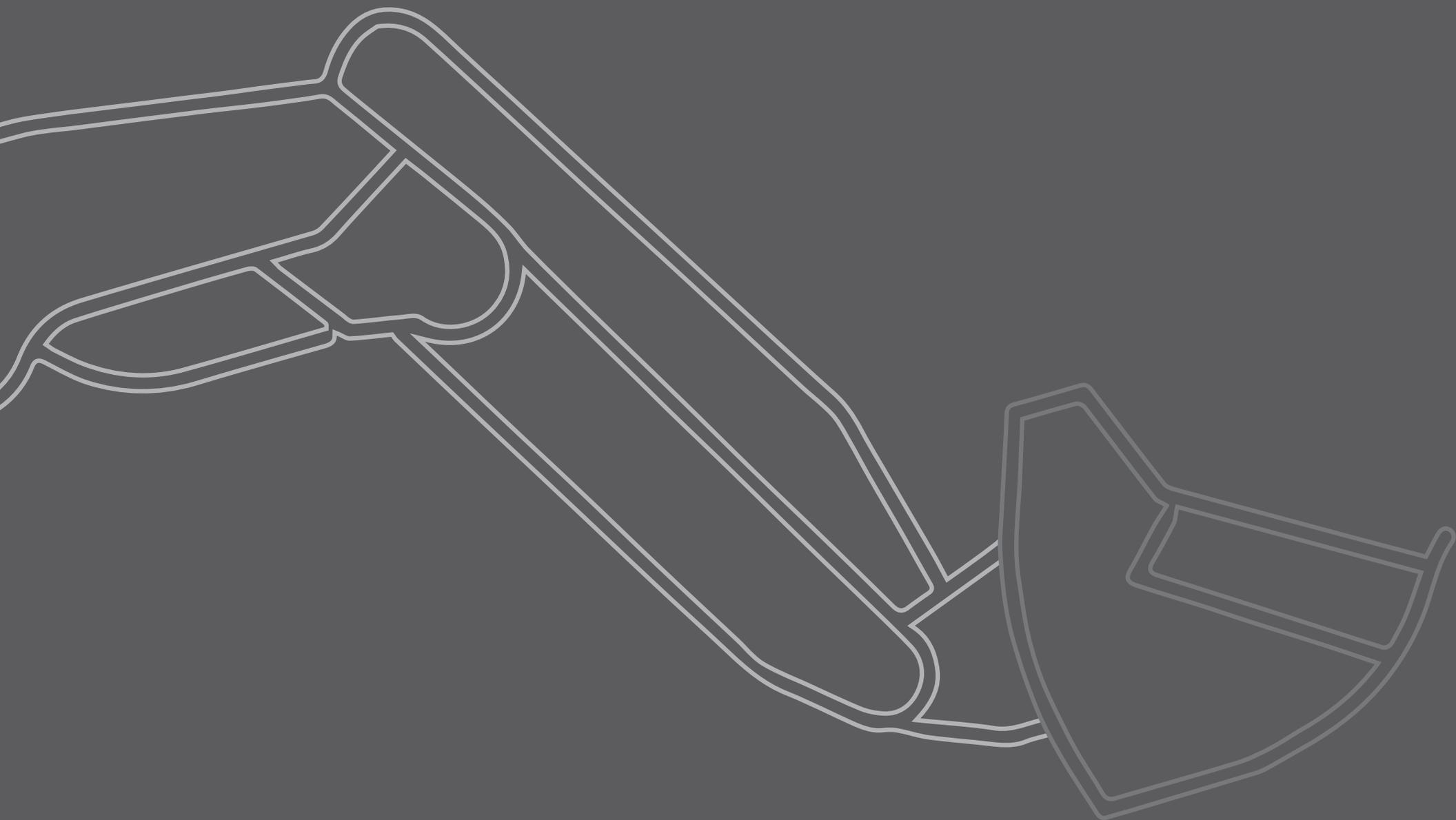
LOAD ER.

sigma 4
THE LOADER.

The right to change the specifications of our loaders without prior notice is reserved. Documentation for information purpose.

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LOADERS

PC*

The PC front loader with mechanical self-levelling has been specifically designed for small tractors. It is compact, light and easy to use, yet robust.



			PC050	PC1	PC2	PC3	PC4
Lifting force at 180 bar	With bucket on the ground 300 mm from the pivot point	kg	-	650	650	650	650
	With bucket at maximum height 300 mm from the pivot point	kg	-	700	700	700	700
	With fork on the ground 600 mm from the pivot point	kg	-	650	650	650	650
	With fork at maximum height 600 mm from the pivot point	kg	-	700	700	700	700
	Breakout force at the tine	kg	-	700	700	700	700
Lifting force at 100 bar	Breakout force at the tine	kg	400	-	-	-	-
Maximum lift height	At pivot point	mm	2170	2200	2550	2550	2700
	Under bucket level	mm	1725	1500	1800	1800	1920
Angle	Maximum rollback angle at ground (bucket)	Degrees	43	45	45	45	45
	Maximum dump angle (bucket)	Degrees	46	85	85	85	85
Digging depth		mm	35	130	80	80	140
Working time with oil flow rate of 40 l/min	Lifting time to maximum height	Sec.	5	5	5	5	5
	Bucket dumping time	Sec.	4	4	4	4	4
Weight	Without implement and without tractor subframes	kg	80	170	180	180	205
Power	Of tractor	HP	20-30	45-85	45-85	45-85	45-85

***Standard equipment:** subframes, hydraulic system adapted to the loader characteristics, TC BASIC mechanical joystick, loader tool carrier, COMPACT tool carrier (Excluding PC050), PC050 earth bucket (PC050 only), PUSH/PULL quick couplings, support feet, distributor, assembly instructions.

NOTE: Technical data and images are indicative and not binding, as they may also vary depending on the tractor configuration. PC1 refers to PC 910, PC2 refers to PC 830, PC3 refers to PC 850, PC4 refers to PC 920.

CHROME F*

Front loader suitable for light duty work, equipped with manual levelling system.



			F10	F15	F20
Lifting force at 180 bar	With bucket on the ground 300 mm from the pivot point	kg	800	800	1200
	With bucket at maximum height 300 mm from the pivot point	kg	800	800	1060
	With fork on the ground 600 mm from the pivot point	kg	800	800	1200
	With fork at maximum height 600 mm from the pivot point	kg	700	700	1100
	Breakout force at the tine	kg	1300	1300	1300
Maximum lift height	At pivot point	mm	3200	3300	3800
	Under bucket level	mm	2260	2360	2940
Angle	Maximum rollback angle at ground (bucket)	Degrees	45	45	45
	Maximum dump angle (bucket)	Degrees	55	55	55
Digging depth		mm	150	150	150
Working time with oil flow rate of 40 l/min	Lifting time to maximum height	Sec.	7	7	7
	Bucket dumping time	Sec.	5	5	5
Weight	Without implement and without tractor subframes	kg	310	320	380
Power	Of tractor	HP	45-85	45-85	60-100

CHROME M*

Front loader suitable for light duty work, equipped with mechanical self-levelling system.



			M10	M15	M20
Lifting force at 180 bar	With bucket on the ground 300 mm from the pivot point	kg	900	900	1200
	With bucket at maximum height 300 mm from the pivot point	kg	880	880	1220
	With fork on the ground 600 mm from the pivot point	kg	900	900	1200
	With fork at maximum height 600 mm from the pivot point	kg	800	800	1100
	Breakout force at the tine	kg	1300	1300	1200
Maximum lift height	At pivot point	mm	3200	3300	3800
	Under bucket level	mm	2260	2360	2940
Angle	Maximum rollback angle at ground (bucket)	Degrees	45	45	45
	Maximum dump angle (bucket)	Degrees	90	90	90
Digging depth		mm	150	150	150
Working time with oil flow rate of 40 l/min	Lifting time to maximum height	Sec.	7	7	7
	Bucket dumping time	Sec.	5	5	5
Weight	Without implement and without tractor subframes	kg	330	340	400
Power	Of tractor	HP	45-85	45-85	60-100

*Standard equipment: subframes, hydraulic system adapted to the loader characteristics, TC BASIC mechanical joystick, VELOTAK loader tool carrier, ECO EURO 8 tool carrier, PUSH/PULL quick couplings, support feet, valved distributor, assembly instructions.

NOTE: Technical data and images are indicative and not binding, as they may also vary depending on the tractor configuration.

IRON F*

Versatile, efficient front loader, equipped with manual levelling system.



			F10	F15	F20	F30	F40
Lifting force at 180 bar	With bucket on the ground 300 mm from the pivot point	kg	1000	1000	1400	1600	1800
	With bucket at maximum height 300 mm from the pivot point	kg	900	900	1300	1500	1600
	With fork on the ground 600 mm from the pivot point	kg	1000	1000	1400	1600	1800
	With fork at maximum height 600 mm from the pivot point	kg	900	900	1300	1500	1600
	Breakout force at the tine	kg	1500	1500	1500	1500	1500
Maximum lift height	At pivot point	mm	3200	3300	3800	3870	4100
	Under bucket level	mm	2260	2360	2940	3010	3200
Angle	Maximum rollback angle at ground (bucket)	Degrees	45	45	45	45	45
	Maximum dump angle (bucket)	Degrees	55	55	55	55	55
Digging depth		mm	150	150	150	150	150
Working time with oil flow rate of 40 l/min	Lifting time to maximum height	Sec.	7	7	7	7	9
	Bucket dumping time	Sec.	5	5	5	5	5
Weight	Without implement and without tractor subframes	kg	370	380	440	473	500
Power	Of tractor	HP	45-85	45-85	60-100	70-120	100-150

IRON M*

Versatile, efficient front loader, equipped with mechanical self-levelling system.



			M10	M15	M20	M30	M40
Lifting force at 180 bar	With bucket on the ground 300 mm from the pivot point	kg	1100	1100	1500	1700	1900
	With bucket at maximum height 300 mm from the pivot point	kg	1000	1000	1400	1650	1800
	With fork on the ground 600 mm from the pivot point	kg	1100	1100	1500	1700	1900
	With fork at maximum height 600 mm from the pivot point	kg	1000	1000	1400	1600	1800
	Breakout force at the tine	kg	1500	1500	1500	1500	1500
Maximum lift height	At pivot point	mm	3200	3300	3800	3870	4100
	Under bucket level	mm	2260	2360	2940	3010	3200
Angle	Maximum rollback angle at ground (bucket)	Degrees	45	45	45	45	45
	Maximum dump angle (bucket)	Degrees	90	90	90	90	90
Digging depth		mm	150	150	150	150	150
Working time with oil flow rate of 40 l/min	Lifting time to maximum height	Sec.	7	7	7	7	9
	Bucket dumping time	Sec.	5	5	5	5	5
Weight	Without implement and without tractor subframes	kg	433	443	500	533	560
Power	Of tractor	HP	45-85	45-85	60-100	70-120	100-150

***Standard equipment:** subframes, hydraulic system adapted to the loader characteristics, TC BASIC mechanical joystick, VELOTAK loader tool carrier, EURO 8 tool carrier, PUSH/PULL quick couplings, support feet, valved distributor, assembly instructions, bucket level indicator, tie rod cover (IRON M only).

NOTE: Technical data and images are indicative and not binding, as they may also vary depending on the tractor configuration.

IRON H*

Versatile, efficient front loader, equipped with hydraulic self-levelling system.



			H10	H15	H20	H30	H40
Lifting force at 180 bar	With bucket on the ground 300 mm from the pivot point	kg	1100	1100	1500	1700	1900
	With bucket at maximum height 300 mm from the pivot point	kg	1000	1000	1400	1600	1800
	With fork on the ground 600 mm from the pivot point	kg	1100	1100	1500	1700	1900
	With fork at maximum height 600 mm from the pivot point	kg	1000	1000	1400	1600	1800
	Breakout force at the tine	kg	1500	1500	1500	1500	1500
Maximum lift height	At pivot point	mm	3200	3300	3800	3870	4100
	Under bucket level	mm	2260	2360	2940	3010	3200
Angle	Maximum rollback angle at ground (bucket)	Degrees	45	45	45	45	45
	Maximum dump angle (bucket)	Degrees	55	55	55	55	55
Digging depth		mm	150	150	150	150	150
Working time with oil flow rate of 40 l/min	Lifting time to maximum height	Sec.	7	7	7	7	9
	Bucket dumping time	Sec.	3	3	3	3	3
Weight	Without implement and without tractor subframes	kg	433	443	500	533	560
Power	Of tractor	HP	45-85	45-85	60-100	70-120	100-150

9

***Standard equipment:** subframes, hydraulic system adapted to the loader characteristics, TC BASIC mechanical joystick, VELOTAK loader tool carrier, EURO 8 tool carrier, PUSH/PULL quick couplings, support feet, valved distributor, assembly instructions, bucket level indicator.

NOTE: Technical data and images are indicative and not binding, as they may also vary depending on the tractor configuration.

TITANIUM

TITANIUM M*

High-performance front loader, designed for heavier duty work, equipped with mechanical self-levelling.



			M20	M30	M40
Lifting force at 180 bar	With bucket on the ground 300 mm from the pivot point	kg	1800	2000	2700
	With bucket at maximum height 300 mm from the pivot point	kg	1700	1900	2400
	With fork on the ground 600 mm from the pivot point	kg	1800	2000	2700
	With fork at maximum height 600 mm from the pivot point	kg	1700	1900	2400
	Breakout force at the tine	kg	2000	2000	2000
Maximum lift height	At pivot point	mm	3800	3870	4100
	Under bucket level	mm	2940	3010	3200
Angle	Maximum rollback angle at ground (bucket)	Degrees	45	45	45
	Maximum dump angle (bucket)	Degrees	90	90	90
Digging depth		mm	150	150	150
Working time with oil flow rate of 40 l/min	Lifting time to maximum height	Sec.	9	9	9
	Bucket dumping time	Sec.	5	5	5
Weight	Without implement and without tractor subframes	kg	620	680	705
Power	Of tractor	HP	60-100	70-120	100-150

TITANIUM H*

High-performance front loader, designed for heavier duty work, equipped with hydraulic self-levelling.



			H20	H30	H40
Lifting force at 180 bar	With bucket on the ground 300 mm from the pivot point	kg	1800	2000	2700
	With bucket at maximum height 300 mm from the pivot point	kg	1700	1900	2400
	With fork on the ground 600 mm from the pivot point	kg	1800	2000	2700
	With fork at maximum height 600 mm from the pivot point	kg	1700	1900	2400
	Breakout force at the tine	kg	2000	2000	2000
Maximum lift height	At pivot point	mm	3800	3870	4100
	Under bucket level	mm	2940	3010	3200
Angle	Maximum rollback angle at ground (bucket)	Degrees	45	45	45
	Maximum dump angle (bucket)	Degrees	55	55	55
Digging depth		mm	150	150	150
Working time with oil flow rate of 40 l/min	Lifting time to maximum height	Sec.	9	9	9
	Bucket dumping time	Sec.	3	3	3
Weight	Without implement and without tractor subframes	kg	610	670	695
Power	Of tractor	HP	60-100	70-120	100-150

***Standard equipment:** subframes, hydraulic system adapted to the loader characteristics, TC BASIC mechanical joystick, VELOTAK loader tool carrier, EURO 8 tool carrier, PUSH/ PULL quick couplings (TITANIUM M only) FLASH quick couplings (TITANIUM H only), support feet, valved distributor, assembly instructions, bucket level indicator, NEBULA shock absorber, tie rod cover (TITANIUM M only).

NOTE: Technical data and images are indicative and not binding, as they may also vary depending on the tractor configuration.

TITANIUM M*

Front loader with highest performance, designed for heaviest duty work, equipped with mechanical self-levelling.



			M50
Lifting force at 180 bar	With bucket on the ground 300 mm from the pivot point	kg	2700
	With bucket at maximum height 300 mm from the pivot point	kg	2400
	With fork on the ground 600 mm from the pivot point	kg	2700
	With fork at maximum height 600 mm from the pivot point	kg	2400
	Breakout force at the tine	kg	2000
Maximum lift height	At pivot point	mm	4400
	Under bucket level	mm	3500
Angle	Maximum rollback angle at ground (bucket)	Degrees	45
	Maximum dump angle (bucket)	Degrees	90
Digging depth		mm	150
Working time with oil flow rate of 40 l/min	Lifting time to maximum height	Sec.	9
	Bucket dumping time	Sec.	5
Weight	Without implement and without tractor subframes	kg	735
Power	Of tractor	HP	115-200

TITANIUM H*

Front loader with highest performance, designed for heaviest duty work, equipped with hydraulic self-levelling.



			H50	H60
Lifting force at 180 bar	With bucket on the ground 300 mm from the pivot point	kg	2700	2700
	With bucket at maximum height 300 mm from the pivot point	kg	2400	2400
	With fork on the ground 600 mm from the pivot point	kg	2700	2700
	With fork at maximum height 600 mm from the pivot point	kg	2400	2400
	Breakout force at the tine	kg	2000	2000
Maximum lift height	At pivot point	mm	4400	4600
	Under bucket level	mm	3500	3700
Angle	Maximum rollback angle at ground (bucket)	Degrees	45	45
	Maximum dump angle (bucket)	Degrees	55	55
Digging depth		mm	150	150
Working time with oil flow rate of 40 l/min	Lifting time to maximum height	Sec.	9	9
	Bucket dumping time	Sec.	3	3
Weight	Without implement and without tractor subframes	kg	725	820
Power	Of tractor	HP	115-200	135-250

*Standard equipment: subframes, hydraulic system adapted to the loader characteristics, TC BASIC mechanical joystick, VELOTAK loader tool carrier, EURO 8 tool carrier, PUSH/PULL quick couplings (TITANIUM M only) FLASH quick couplings (TITANIUM H only), support feet, valved distributor, assembly instructions, bucket level indicator, NEBULA shock absorber, tie rod cover (TITANIUM M only).

NOTE: Technical data and images are indicative and not binding, as they may also vary depending on the tractor configuration.

TYPES OF LEVELLING

TYPES OF LEVELLING

F MANUAL LEVELLING SYSTEM

The operator, by using the joystick, has full control over the implement angle with respect to the boom angle, when lifting and lowering the loader.



M MECHANICAL SELF-LEVELLING SYSTEM

Thanks to this system, the load is kept in the same position throughout the lifting phase. The variable-geometry parallelogram allows very large work angles, improving performance and increasing the ease of use.



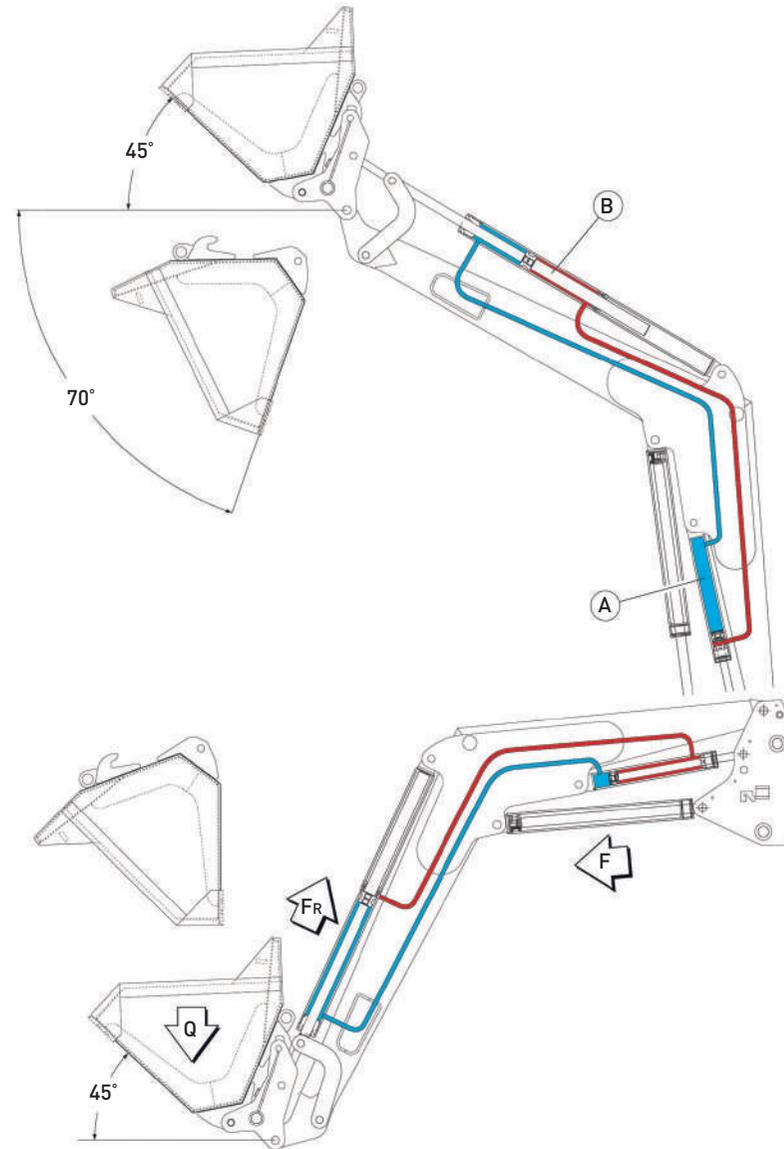
TYPES OF LEVELLING

H HYDRAULIC SELF-LEVELLING SYSTEM

Thanks to the hydraulic compensating cylinders, from which a quantity of oil is poured into the hydraulic bucket cylinders, hydraulic self-levelling, compared to the mechanical version, ensures extra lifting capacity of 10-12%.

Without mechanical tie rods and relevant safety guards on the upper part of the loader boom, the side overall dimensions of the loader are smaller (by more than 10 cm in height), and will ensure greater visibility.

The additional benefits include a slight improvement in implements unloading speed.



COUPLING SYSTEMS

STANDARD TOOL CARRIER

Standard tool carrier for PC loaders

COMPACT

Designed for easy and fast replacement of implements. To be used only with implements specific for PC models.



Standard tool carrier for Chrome loaders

ECO EURO 8

Designed for easy and fast replacement of implements. The loader is supplied as standard with Euro 8 system compliant with ISO 23206 standard. This allow hitching all the implements compliant with these standards.

As an alternative, a proprietary Sigma 4 coupling system can be supplied. The latter can only hitch implements manufactured by Sigma 4.



Standard tool carrier for Iron and Titanium loaders

EURO 8

Designed to allow the use of implements compliant with Euro 8 standards and, with the addition of the dedicated MX adapter kit (optional, in the picture), MX implements can be hitched. In addition, it is possible to transform the Euro 8 attachment to Euro 8 HYDRO by adding a hydraulic linkage thanks to the dedicated optional kit. This attachment is also available in Euro-SMS version.



OPTIONAL TOOL CARRIER

Optional tool carrier for Chrome, Iron and Titanium loaders

1. SIGMA 4

Designed for easy and fast replacement of implements with Sigma 4 attachment.

Optional tool carrier for Chrome, Iron and Titanium loaders

2. SIGMA 4 / EURO 8 HYDRO

Both the Sigma 4 tool carrier and the Euro 8 tool carrier can be equipped with hydraulic function. This type of attachment, to be used with Sigma 4 joystick, allows to open and close the locking pivot points of the implement directly from the tractor driver's seat, to ensure maximum comfort. Hitching and unhitching of the implement are carried out by simultaneously pressing 2 buttons on the loader joystick, thus avoiding unintentional manoeuvres and ensuring the maximum possible level of safety. The HYDRO attachment requires an additional dedicated hydraulic line for its operation. It is possible to transform a mechanical Sigma 4 or Euro 8 attachment into the corresponding HYDRO version using the dedicated optional kit.

Optional tool carrier for Chrome, Iron and Titanium loaders

3. EURO 8 HYDRO M

Euro 8 attachment manufactured with double-acting single piston hydraulic linkage, to be used with Sigma 4 joystick. The hydraulic function allows to open and close the locking pivot points of the implement directly from the tractor driver's seat, ensuring maximum safety by pressing the 2 joystick buttons. The attachment requires an additional dedicated hydraulic line.

Optional tool carrier for Chrome, Iron and Titanium loaders

4. MULTI + ADAPTERS

Designed to allow simultaneous use of implements compliant with Euro 8 standards or with Quicke/Trima attachment. It is possible to add optional adapters for hitching implements with MX attachment.

Optional tool carrier for Chrome, Iron and Titanium loaders

5. SKID STEER

Designed to allow use of implements with Skid Steer attachment.



ACCESSORIES FOR TOOL CARRIERS

Accessory for Euro and Multi tool carrier

MX ADAPTER KIT

Pair of right and left adapters for use of implements equipped with MX coupling system.



Accessory for Euro and Multi tool carrier

HYDRAULIC KIT

Set of components to allow transformation of a mechanical Euro 8 attachment into Euro 8 HYDRO. It allows to close the locking pivot points of the implement directly from the tractor driver's seat. It requires an additional hydraulic line.



Accessory for Euro, Multi and Eco Euro tool carrier

SKID STEER ADAPTER KIT

Accessory to allow use of Skid Steer implements on Euro 8 attachment.



ACCESSORIES FOR TOOL CARRIERS

EURO 8 ADAPTER KIT FOR PC

Accessory that allows the use of Euro 8 implements compatible with the PC series. Available in two versions: the first version for PC1, PC3 and PC4 series, the second version for PC2 series.



VELOTAK FOR WHEELED AND CRAWLER TRACTORS

The Velotak system allows the operator to quickly unhitch or hitch the loader on the subframes applied to the tractor, depositing it to or picking it from the parking position through levers located on the outer side of the bearing boxes. The hitching and unhitching positions are indicated by a dedicated coloured decal. All Sigma 4 loaders, excluding the PC series, are equipped with this device.



NEW

QUICK HITCH CAT. 3

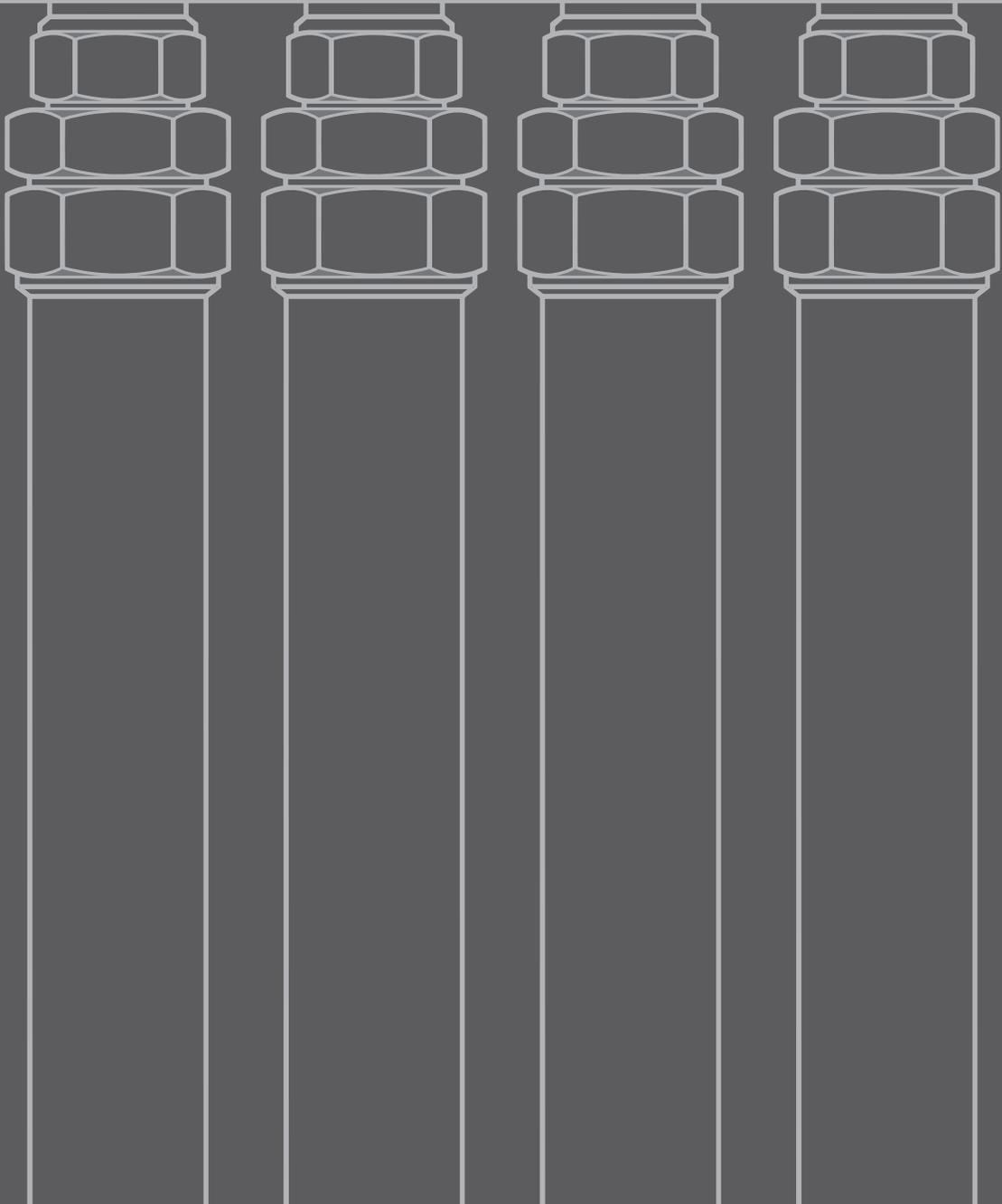
The Quick Hitch is used for fast hitching and unhitching of implements to be connected to the three-point hitch positioned at the rear of the tractor.



NEW**REAR EURO 8 TOOL CARRIER**

This tool carrier is used for quick hitching and unhitching of implements with Euro 8 three-point hitch positioned at the rear of the tractor.





HYDRAULIC CONNECTION SYSTEMS

STANDARD HYDRAULIC CONNECTION SYSTEMS



PUSH-PULL SYSTEM

PUSH/PULL single-connection device of quick couplings that allows manual connection and disconnection of all hydraulic lines.

The direct PUSH/PULL system on the original Sigma 4 distributor features a rectangular geometry. The PUSH/PULL system positioning on bracket (without original Sigma 4 distributor) features a square geometry of couplings.

LIFT LINE



Lower Lift

BUCKET LINE



Open Close

ADDITIONAL HYDRAULIC LINES

To use the implements with hydraulic functions, it is necessary to request a third and, in some cases, a fourth hydraulic line to manage the additional movements.

LIFT LINE



Lower Lift

BUCKET LINE



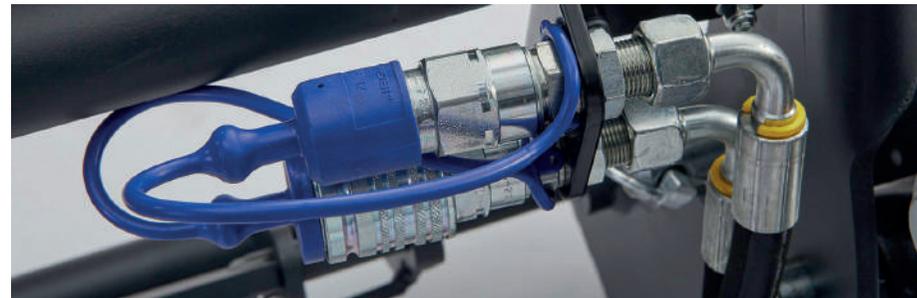
Open Close 3th line 4th line



PUSH/PULL without distributor



PUSH/PULL on distributor



Additional hydraulic line on tool carrier



Third and fourth hydraulic line

OPTIONAL HYDRAULIC CONNECTION SYSTEMS



FLASH SYSTEM

The FLASH multiple connection device of quick couplings allows the operator to connect/disconnect all hydraulic lines with one movement, speeding up the procedure and thus avoiding connection errors. Standard in TITANIUM H with hydraulic self-levelling.

LIFT LINE



Lower



Lift

BUCKET LINE



Open



Close



COMPACT FLASH SYSTEM

Compact version of the classic FLASH System, dedicated to some tractor models that need to minimise the overall dimensions of the FLASH system.

LIFT LINE



Lower



Lift

BUCKET LINE



Open

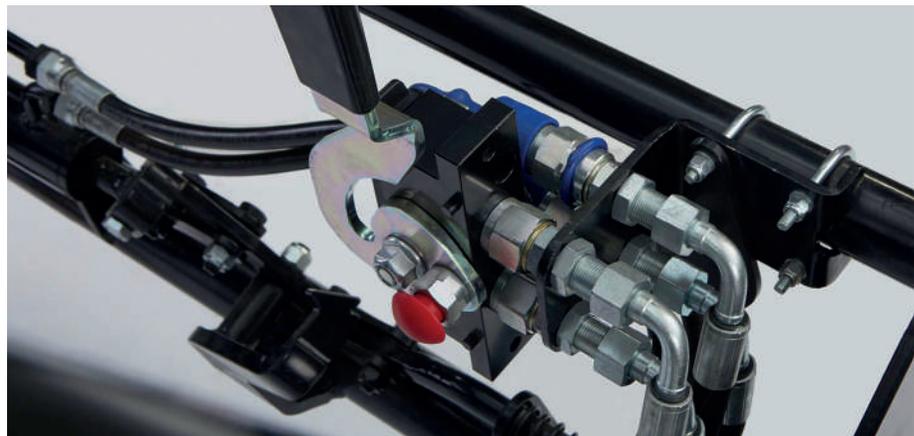


Close



QRC FLASH

A convenient device that speeds up the hydraulic connection of the implement with additional hydraulic line. Using the lever, the implement hydraulics is hitched with one movement. The connector can be easily cleaned, avoiding build-up of dirt in the loader hydraulic system and thus in the tractor hydraulic system.



MAIN FEATURES

TYPES OF SHOCK ABSORBER



MAXIMUM VISIBILITY WITH NEBULA SYSTEM

The NEBULA is a shock absorber consisting of a cylinder pre-loaded with nitrogen gas that improves comfort and safety during product transport operations, ensuring greater load stabilisation. Thanks to the NEBULA, strain and stress on all components of the loader and front axle of the tractor are significantly reduced. The NEBULA DUO model, only available for TITANIUM front loaders on request, is a double chamber cylinder with nitrogen gas, supplied with two different calibrations that allow the selection of the most suitable one according to the specific work that the user will carry out. The factory calibration can be changed by requesting the dedicated optional kit.



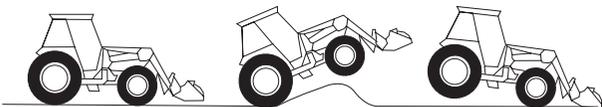
Nebula



Nebula Duo



WITH SHOCK ABSORBER



WITHOUT SHOCK ABSORBER

TECHNICAL FEATURES

1. HYDRAULIC HOSE SUPPORT

Our front loaders are equipped as standard with a hydraulic hose support bracket, which can be adjusted in 2 positions to perform its function both with standard couplings and with the FLASH SYSTEM. The hoses are held securely and safely when the loader is disconnected from the tractor.

2. BUCKET LEVEL INDICATOR

Standard equipment on most of our models, the bucket level indicator allows the operator to easily control, from the tractor driver's seat, the tilt of the implement with respect to the ground (Optional for CHROME).

3. SUPPORT FEET

The support feet, equipped with fine adjustment system, can be singularly adapted to ensure maximum safety and adaptability during parking manoeuvres on all types of grounds, even the most uneven. During normal operations, the feet are locked inside the loader boom, so that they do not interfere with the front tractor wheels.

4. NEBULA EXCLUSION TAP

Sigma 4 provides as standard the possibility of excluding the shock absorbing function through manual tap. As an alternative, it is possible to replace the manual tap with an electrically controlled tap.



Electric tap

TYPES OF DISTRIBUTORS AND HYDRAULIC SYSTEMS

TYPES OF DISTRIBUTORS

Sigma 4 offers the mechanical distributor as standard. The electronic or mechatronic distributor can be requested as option. For all the three types of distributor, versions with open-centre circuits (without Load Sensing) and closed-centre circuits (with Load Sensing) are available, depending on the type of tractor where they are installed. All our distributors can be equipped with a floating function, which allows the implement to follow the ground profile.



Mechanical distributor



Electronic distributor



Mechatronic distributor

HYDRAULIC SYSTEMS AND JOYSTICKS

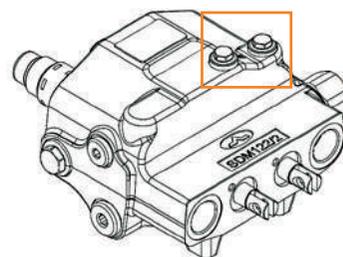
Sigma 4 supplies as standard complete hydraulic systems individually developed for each tractor model. The dedicated loader additional distributor allows to leave the tractor hydraulic couplings free and to control all functions in an easy and immediate manner. The Sigma 4 distributor is controlled by a joystick. The handles of Sigma 4 proprietary joysticks, designed to offer maximum comfort; the development of these new user interfaces, and the ergonomic studies strongly inspired to cutting-edge industries, such as aviation, have enabled a quality enhancement that can be perceived from the first use.

Together with the front loader, Sigma 4 also supplies the joystick and distributor as standard: this **configuration** is named **V2**.

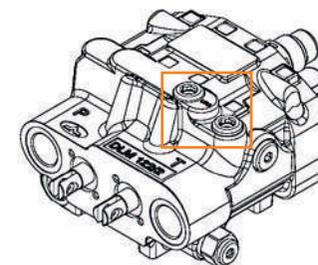
It is possible to use the original tractor joystick and distributor, if they are compatible with the loader, but you need to make sure that the distributor in question is equipped with relief valves, to limit the pressure peaks that develop when using the loader: this **configuration** is named **V1b**.

If the original tractor distributor does not come with the relief valves, it is necessary to integrate them using the proper block supplied as standard for this **configuration**, named **V1a**.

Attention! The rear tractor original distributors never include the relief valves. If you want to use the rear distributor, you must use the relief valve block.



Open centre (with relief valves)



Closed centre (with relief valves)



Relief valve block

TYPES OF JOYSTICKS



TC BASIC (without buttons)

The TC Basic joystick is supplied as standard with all mechanical distributors and controls the hydraulic lines for loader lifting and implement movement. Its shape has been carefully developed by Sigma 4 to offer maximum comfort in all conditions of use and for every point of the driving area it is installed in.



TC PROFI ADVANCED (8 buttons)

The TC Profi Advanced joystick, equipped with 8 buttons, is supplied as standard if a system with mechanical distributor features a fifth hydraulic line, used for the hydraulic quick unhitching of the implement.

This joystick can be used for several additional functions:

- operate a 3rd hydraulic line
- operate a 4th hydraulic line
- shift the gears
- activate and deactivate the shock absorber directly from the cab
- turn the lights on and off.



TC PROFI (2 buttons)

The TC Profi joystick is equipped with two buttons on the back of the joystick and is supplied together with mechanical distributors equipped with third or third and fourth hydraulic line.



TC SPEED (Electronic/Mechatronic with 6 buttons)

The TC Speed is an electronically-controlled joystick, supplied as standard with the electronic and mechatronic distributors. The use of the Can Bus, a data transmission cable, makes installation significantly easier compared to mechanical configurations, adapting even to the smallest joystick supports. Movement management through electronic software allows to move the front loader with greater precision.

The TC Speed allows controlling the following functions:

- operate the 3rd hydraulic line
- operate the 4th hydraulic line
- operate the 5th hydraulic line
- activate and deactivate the shock absorber directly from the cab
- engage and disengage the floating function
- turn the joystick system off and on.

LOADER COLOUR

COLOUR RANGE

In addition to the standard embossed grey RAL7021, the Sigma 4 front loaders are also available in different colours on request.

PAINTING

The Sigma 4 front loaders are painted with an industrial process with the following steps: washing/degreasing, sandblasting, primer application, enamel application, firing.

This process ensures a resistance in salt spray exceeding 700 hours.

These characteristics allow the product to maintain the colour tone and paint adhesion, which sets our product apart from the competitors.



Claas



Deutz-Fahr



Hürlimann



Kubota



Zetor



Massey Ferguson



Fendt



John Deere



Landini



New Holland

35



Same



Case IH



McCormick

IMPLEMENTS

BUCKETS

BT EARTH BUCKET

The earth bucket features holes along the main blade, allowing the integration of a wear-resistant blade or a set of tines on request.

Also available with Skid Steer attachment.



Width	mm	1350	1500	1600	1800	2000	2200	2400
Depth	mm	700						
Height	mm	650						
Volume struck	m ³	0.36	0.41	0.43	0.49	0.55	0.60	0.66
Weight	kg	165	175	182	197	210	223	237
Optional teeth	no.	4	5	5	6	6	6	7

BTHD REINFORCED EARTH BUCKET

Bucket used for earthmoving, with rear reinforcement that ensures greater resistance under stress, allowing to lift more weight. This bucket features holes along the main blade, allowing the integration of a wear-resistant blade or a set of teeth on request.



Width	mm	1350	1500	1600	1800	2000	2200	2400	2550
Depth	mm	700							
Height	mm	650							
Volume struck	m ³	0.36	0.41	0.43	0.49	0.55	0.60	0.66	0.69
Weight	kg	213	227	237	257	277	298	318	331
Optional teeth	no.	4	5	5	6	6	6	7	7

BT READY EARTH BUCKET

Implement used for earthmoving, suitable for light duty work. The version of this implement with Skid Steer attachment can be requested as option.



Skid Steer attachments

Width	mm	1400	1600	1860	2100
Depth	mm	670			
Height	mm	700			
Volume struck	m ³	0.35	0.39	0.47	0.51
Weight	kg	98	107	137	150

BUCKETS

BC CEREAL BUCKET

Implement designed for large-volume loads, developed for handling cereals and other similar low-density products.



Width	mm	1800	2000	2200	2400	2550
Depth	mm	950				
Height	mm	825				
Volume struck	m ³	0.90	1.02	1.11	1.22	1.35
Weight	kg	268	289	309	330	342

BB BEET BUCKET

Bucket specifically designed for beet harvesting. The implement structure allows to lift beets without residual soil.



Width	mm	2060	2200		
Depth	mm	930			
Height	mm	765			
Volume struck	m ³	0.70	0.77		
Weight	kg	256	270		

BSA STONE BUCKET

Extremely resistant implement, used in land recovery, suitable for collection of stones of various sizes. It allows to collect stones in open field leaving the soil behind.



Width	mm	1600	1800	2000	2200	2400
Depth	mm	700				
Height	mm	750				
Volume struck	m ³	0.40	0.46	0.51	0.56	0.61
Weight	kg	286	313	339	365	391

BUCKETS WITH ADDITIONAL HYDRAULIC FUNCTION

BM MULTI-PURPOSE BUCKET

The multi-purpose bucket is equipped with a grapple with pantograph-processed teeth, designed for handling bulk and silage products.

The presence of the grapple allows to avoid the loss of material during handling. A third hydraulic line is required in order to use this implement.



Width	mm	2000	2200	2400
Depth	mm		910	
Usable height (closed)	mm		755	
Usable height (open)	mm		1610	
Volume	m ³	1.07	1.18	1.28
Weight	kg	545	600	654

BMM MULTI-PURPOSE BUCKET XL

The multi-purpose bucket XL is equipped with a grapple with pantograph-processed teeth, designed for handling bulk and silage products. The presence of the grapple allows to avoid the loss of material during handling. Thanks to the special grapple, the multi-purpose bucket XL can collect large round bales, but also hay, mowing and branches in large quantities. The grapple can be removed to use the implement as an earth bucket.

A protective grid can also be added on request.

A third hydraulic line is required in order to use this implement.



Width	mm	2000	2200	2400
Depth	mm		1240	
Usable height (closed)	mm		1200	
Usable height (open)	mm		2085	
Volume	m ³	1.8	2	2.2
Weight	kg	580	615	650

BK MULTIGRAB BUCKET

Designed to handle different types of products, such as fertiliser, forage, straw. The closed bottom of the bucket allows easy and safe collection of the material and is also designed for easy penetration of compact products such as silage.

A third hydraulic line is required in order to use this implement.



Width	mm	1500	1980	2200
Depth	mm		810	
Usable height (closed)	mm		675	
Maximum height (open)	mm		1680	
Volume	m ³	0.85	1.12	1.25
Weight	kg	343	404	430
Forks	no.	7+2	9+2	10+2

BUCKETS WITH ADDITIONAL HYDRAULIC FUNCTION

BK READY MULTIGRAB BUCKET

Designed to handle different types of products, such as fertiliser, forage, straw. The closed bottom of the bucket allows easy and safe collection of the material and is also designed for easy penetration of compact products such as silage. Suitable for light duty work. A third hydraulic line is required in order to use this implement.



Width	mm	1500	1700	1980
Depth	mm		1070	
Height	mm		870	
Volume struck	m ³	0.70	0.83	0.96
Weight	kg	185	200	230
Upper tines	no.	6	7	8

B41 4 IN 1 BUCKET

The 4-in-1 bucket is a multi-purpose bucket that allows to perform several operations: loading, unloading with opening, gripping, grading and levelling. The bucket features holes along the main blade, allowing the integration of a set of teeth on request. A third hydraulic line is required in order to use this implement.



Width	mm	1800	2000	2200
Depth	mm		615	
Height	mm		820	
Opening angle	Degrees		90	
Volume struck	m ³	0.42	0.46	0.51
Weight	kg	430	470	520
Optional teeth	no.	6	6	6

41

BBAR HIGH-TIPPING BEET BUCKET

The extra-tipping function allows our implements to overcome the limits of standard unloading activities, allowing the implement to unload more easily beets at a greater height. This function can also be integrated on other types of bucket that do not have an additional hydraulic function. It requires a third hydraulic line.



Width	mm	2060	2200
Depth	mm		930
Height	mm		765
Volume struck	m ³	0.70	0.77
Weight	kg	400	415
Tipping angle	Degrees		92

NOTE: The high-tipping function is available on all types of bucket without hydraulic function on request.

MECHANICAL FORKS

BB2/BB4 LARGE SQUARE BALE FORK

The BB2 fork is designed to handle large square bales. Its lengthened shape allows to stack the bales on one another, to speed up storage and simplify work. It is possible to add a third tine through the proper kit, or request a version of this 4-tine fork with reinforced structure (BB4) that allows better distribution of the bale weight over the implement structure.



		BB2	BB4
Width	mm	1240	
Forks length	mm	1085	
Height	mm	2200	
Weight	kg	216	255
Max. load capacity	kg	1000	
Forks	no.	2	4

BRO ROUND BALE FORK

Simple and robust implement for loading cylindrical bales. On request, it can be equipped with an extension to handle two round bales at the same time, and an additional third tine to further stabilise the load and pick up square bales.



Width	mm	1070
Forks length	mm	1085
Height	mm	1150
Weight	kg	112
Max. load capacity	kg	850
Forks	no.	2
Bale size (min./max.)	mm	1000/1900

FP PALLET FORK

Its compact, sturdy structure allows loading pallets and palletised loads, minimising oscillations and the risk of falling. The tines are mechanically adjustable laterally, allowing the implement to adapt to pallets of any shape, and ensuring even distribution of weights.



		10Q	15Q	20Q
Width	mm		1200	
Forks length	mm	1000	1000	1100
Height	mm		560	
Weight	kg	130	145	150
Max. load capacity	kg	1000	1500	2000
Fork type and size: FEM 2A	mm	80x30	100x35	80x40

MECHANICAL FORKS

FLE MANURE FORK

Implement used for collection of manure and other light materials, such as mowing and branches. Thanks to the small gap between the tines, it minimises material dispersion. The tines are equipped with special reinforcing bushings that prevent the deformation of the frame under the weight of the load.



Width	mm	1500	1800	1980	2200
Forks length	mm	850			
Height	mm	720			
Weight	kg	148	168	182	198
Forks	no.	7	8	9	10

BROPO 3-POINT BALE FORK

Fork for handling round bales, that can be attached to the three-point hitch of the tractor.



Width	mm	1050
Forks length	mm	1085
Height	mm	850
Weight	kg	97
Max. load capacity	kg	1000
Bale size (min./max.)	mm	1000/1900

FORKS WITH ADDITIONAL HYDRAULIC FUNCTION

FLET MANURE FORK WITH GRAPPLE

Implement used for collection of manure, silage and other light materials, such as trimmings and branches. This multi-purpose fork features a small gap between the tines which minimises material dispersion. The tines are equipped with special reinforcing bushings that prevent the deformation of the frame under the weight of the load. Its use requires a loader equipped with third hydraulic line.



Width	mm	1500	1980	2200
Depth	mm	820		
Usable height (open)	mm	1310		
Usable height (closed)	mm	655		
Volume	m ³	0.88	1.16	1.29
Weight	kg	259	308	328
Lower tines	no.	7	9	10
Grapple tines	no.	7+2	9+2	10+2

FSC SILAGE FORK

Thanks to its hardened blades, the FSC fork ensures a clean cut of the silage. The high-quality tines and the reinforced frame allow the implement to be easily used even during the harshest work. Its use requires a loader equipped with third hydraulic line.



Working width	mm	1355
Depth	mm	780
Opening	mm	800
Volume	m ³	0.82
Weight	kg	528
Max. load capacity	kg	530
Lower tines	no.	11

FORKS WITH ADDITIONAL HYDRAULIC FUNCTION

FPT PALLET FORK WITH SIDE-SHIFT

Pallet fork with shifting function allowing side movement of the implement. Its compact, sturdy structure allows loading pallets and palletised loads, minimising oscillations and the risk of falling. The tines are mechanically adjustable laterally, allowing the implement to adapt to pallets of any shape, and ensuring even distribution of weights. It requires a third hydraulic line.



FPTS PALLET FORK WITH SIDE-SHIFT AND LOAD CLAMP

The possible frame side-shifting increases its storage capabilities and the load clamp makes pallet transport more stable and safer. Its use requires a loader equipped with third and fourth hydraulic line.



FMP WRAPPED BALES FORK

Very robust and versatile, it allows to load the bale without damaging the coating film. By removing the steel tubes, it can be used to transport straw or hay bales. Its use requires a loader equipped with third hydraulic line.



BROT ROUND BALE FORK WITH SIDE-SHIFT

Round bale fork equipped with side-shift, allowing side movement of the implement. It requires a third hydraulic line.



Width	mm	1200	
Forks length	mm	1000	1100
Height	mm	560	
Weight	kg	205	210
Max. load capacity	kg	1500	2000
Fork type and size: FEM 2A	mm	100x35	80x40
Side shifting	mm	210	

		15Q	20Q
Width	mm	1200	
Forks length	mm	1075	
Height	mm	1590	
Opening (min./max.)	mm	1400/2400	
Weight	kg	310	325
Max. load capacity	kg	1500	2000
Forks		Foldable	
Side shifting	mm	210	

Width	mm	1300
Length	mm	1800
Height	mm	1600
Opening	mm	1980
Weight	kg	236
Max. load capacity	kg	900

Width	mm	1200
Forks length	mm	1085
Height	mm	1150
Weight	kg	180
Max. load capacity	kg	850
Forks	no.	2
Bale size (min./max.)	mm	1000/1900
Side shifting	mm	210

NOTE: Technical data and images are indicative and not binding.

ORKS WITH ADDITIONAL HYDRAULIC FUNCTION

BROE ROUND BALE FORK WITH LIFTING FUNCTION AND BROTE ROUND BALE FORK WITH FUNCTION AND SIDE-SHIFT

Designed for loading cylindrical bales, it increases storage capabilities through higher frame lifting.

Its use requires a loader equipped with third hydraulic line for version with lifting function, while the version with lifting and side-shifting function requires a loader equipped with third and fourth hydraulic line.



Width	mm	1100			
Frame width	mm	1200			
Forks length	mm	1085			
Height (closed)	mm	1500	1700	1950	2200
Lifting	mm	1000	1200	1400	1600
BROE weight	kg	167	175	186	227
BROTE weight	kg	223	231	242	283
Max. load capacity	kg	850			
Bale size (min./max.)	mm	1000/1900			
Side shifting	mm	210			

CLAMPS WITH ADDITIONAL HYDRAULIC FUNCTION

FMR GRAB CLAMP FOR WRAPPED ROUND BALES

It is designed for handling and loading wrapped bales with diameter from 80 to 150 cm. The implement booms apply an even pressure on the bale without damaging the coating film. Its use requires a loader equipped with third hydraulic line. By manually removing the proper pivot point, it is possible to move the floating booms of the clamp asymmetrically.



Width (min./max.)	mm	890/2125
Height	mm	845
Weight	kg	289
Max. load capacity	kg	1000
Bale size (min./max.)	mm	800/1500



Max. usable width	mm	1150
Frame width	mm	1100
Length	mm	1200
Height	mm	1100
Weight	kg	180
Max. load capacity	kg	850
Forks	no.	6
Bale size (min./max.)	mm	1000/1900



Width	mm	1615
Forks length	mm	1000
Max. usable height	mm	1465
Grab opening	mm	500/1400
Weight	kg	298
Max. load capacity	kg	1000
Teeth	no.	4+2

BRM GRAB CLAMP FOR ROUND BALES

Designed for handling and loading unwrapped round bales and other similar material such as branches and sugar cane. Its use requires a loader equipped with third hydraulic line.

FT LOG GRAB

Implement specifically designed for handling and storage of stacks of wood and logs. It requires a third hydraulic line.

FRONT BLADE

LAM MECHANICAL ANGLING BLADE

Robust and versatile, this 30° mechanically angling blade is ideal for cleaning trails and for maintenance of agricultural estates, even during the winter when it can be effectively used for snow removal. For its use, it is recommended to equip the loader with a floating position that adapts the blade movement to the ground shape.



Width	mm	2000	2300	2500	2650
Height	mm	790			
Weight	kg	288	312	328	344
Mechanical angling	Degrees	30			

ACCESSORIES

1. CZ BALLAST BOX

The ballast box can be filled with sand, steel, cement or other material to add weight to the front or rear part of the tractor and ensure greater stability.

Width	mm	800
Depth	mm	660
Height	mm	650
Volume	m ³	0.28
Unladen weight	kg	93
Max. weight (Concrete)	kg	765
Max. weight (Cement)	kg	990
Max. weight (Dry sand)	kg	540
Max. weight (Wet sand)	kg	680

2. HIGH-TIPPING FUNCTION

The high-tipping function can be applied to all types of buckets that do not have additional hydraulic functions and allows our implements to overcome the limits of standard unloading activities, allowing to unload more easily under variable loading bed height conditions. It requires a third hydraulic line.

3. EXTENSION FOR ROUND BALE FORK

Accessory that allows to extend the height of the round bale fork support frame, so as to stack two bales at the same time.



1



2

ACCESSORIES

4. EXTENSION WITH CROSSBEAM FOR ROUND BALE FORK

Accessory that allows to extend the height of the round bale fork support frame, so as to stack two bales at the same time. The crossbeam ensures greater stability.



3



4

5. ADDITIONAL TINE KIT FOR ROUND BALE FORK

Accessory that allows to use the round bale fork with square bales. In addition, it is possible to add this accessory to a large square bale fork (BB2) to maximise its stability.



5



6

6. TINES FOR EARTH BUCKET

Steel forged tines to be installed on an earth bucket, required for excavation activities. Also available in smaller version for compact implements of the PC series.



7



8

7. BUMPER

To ensure greater safety, Sigma 4 can supply a side protection bumper that perfectly fits into the tractor bonnet profile, without compromising visibility at night, leaving space for the light from the headlights. For installation, the tractor must be equipped with fixed Sigma 4 subframes.



9

8. GRID FOR BMM BUCKET

It is possible to add a protective grid to the multi-purpose bucket XL, which allows to safely collect more material.



10

9. NEBULA PRESSURE CALIBRATION KIT

The NEBULA shock absorber is a cylinder preloaded with nitrogen gas that improves comfort and safety during product transport operations, ensuring greater stability. It is possible to change standard pressure calibration of NEBULA and NEBULA DUO by using this optional kit.

10. WEAR-RESISTANT BLADE

This blade can be installed on all implements provided with holes, to protect them from the effects of wear caused by prolonged use.

IMPLEMENTS FOR PC LOADERS The implements of the PC series are different from the standard models with the same length.

BT EARTH BUCKET

The earth bucket features holes along the main blade, allowing the integration of a wear-resistant blade or a set of tines on request.



				PC2 only
Width	mm	1300	1500	1600
Depth	mm		630	
Height	mm		530	
Volume	m ³	0.22	0.26	0.28
Weight	kg	85	90	94
Optional teeth	no.	5	6	6

BK MULTIGRAB BUCKET

Designed to handle different types of products, such as fertiliser, forage, straw. The closed bottom of the bucket allows easy and safe collection of the material and is also designed for easy penetration of compact products such as silage. A third hydraulic line is required in order to use this implement.



Width	mm		1500
Depth	mm		690
Height when closed	mm		570
Height when open	mm		1125
Volume	m ³		0.42
Weight	kg		123
Forks	no.		6

B41 4 IN 1 BUCKET

The 4-in-1 bucket is a multi-purpose bucket that allows to perform several operations: loading, unloading with opening, gripping, grading and levelling. A third hydraulic line is required in order to use this implement.



Width	mm	1200	1400
Depth	mm		405
Height	mm		520
Unloading opening angle	Degrees		45
Unloading opening	mm		330
Volume struck	m ³	0.11	0.13
Weight	kg	100	110

BRO ROUND BALE FORK

Simple and robust implement for loading cylindrical bales. On request, it can be equipped with an extension to handle two round bales at the same time, and an additional third tine to further stabilise the load and pick up square bales.



Width	mm		870
Forks length	mm		1185
Height	mm		1115
Weight	kg		80
Max. load capacity	kg		850
Bale size (min./max.)	mm		1000/1900

NOTE: Technical data and images are indicative and not binding. PC1 refers to PC 910, PC2 refers to PC 830, PC3 refers to PC 850, PC4 refers to PC 920. Attachments for PC2 are different from attachments for PC1, PC3 and PC4.

IMPLEMENTS FOR PC LOADERS The implements of the PC series are different from the standard models with the same length.

FP PALLET FORK

Its compact, sturdy structure allows loading pallets and palletised loads, minimising oscillations and the risk of falling. The tines are mechanically adjustable laterally, allowing the implement to adapt to pallets of any shape, and ensuring even distribution of weights.



			10Q
Width	mm		1200
Forks length	mm		1000
Height	mm		560
Weight	kg		126
Max. load capacity	kg		1000
Fork type and size: FEM 2A	mm		80x30

FLE MANURE FORK

Implement used for collection of manure and other light materials, such as mowing and branches. Thanks to the small gap between the tines, it minimises material dispersion.



			PC1 PC3 PC4 only	
Width	mm	1300		1500
Forks length	mm		705	
Height	mm		575	
Weight	kg	80		90
Forks	no.	6		7

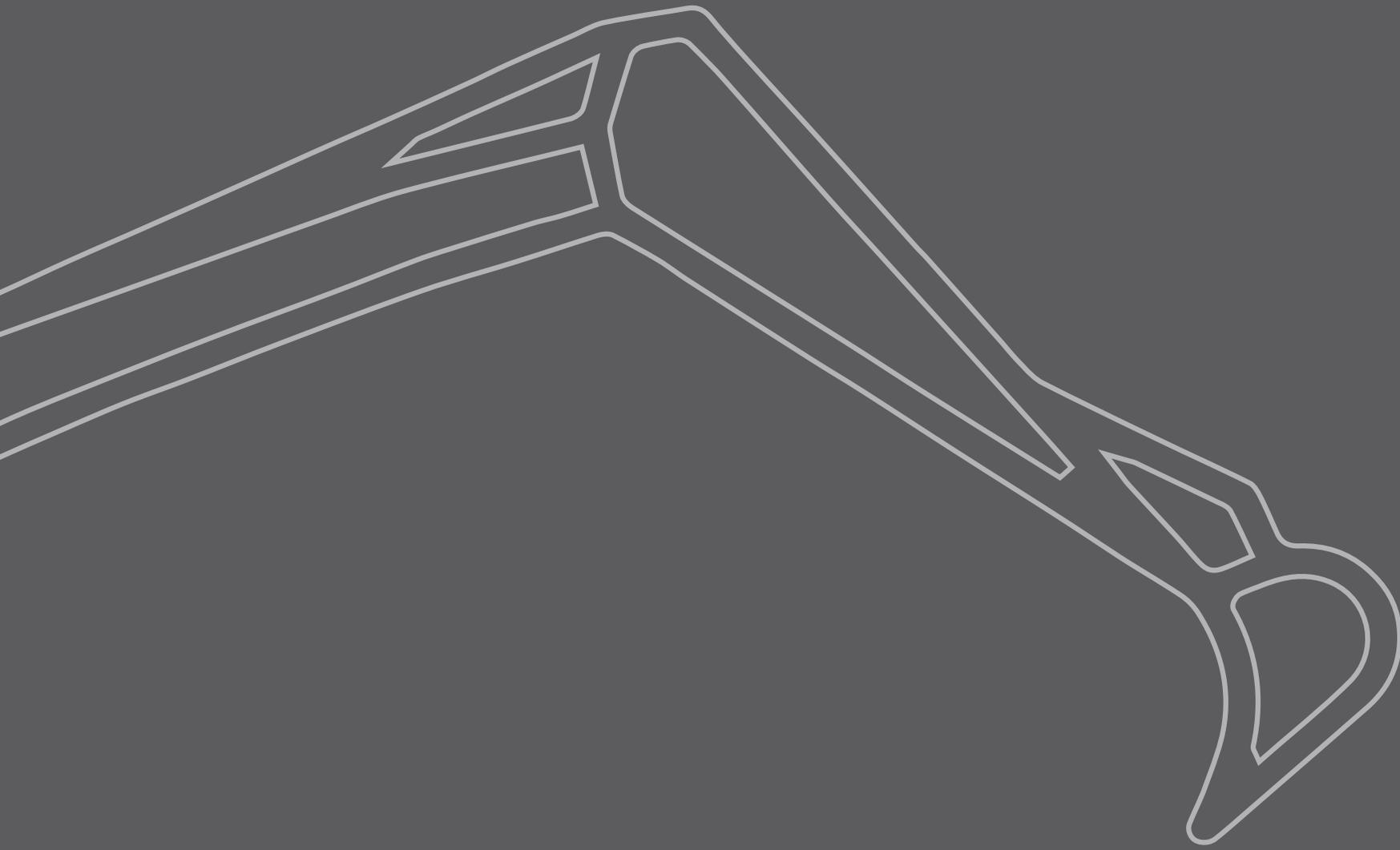
CZ BALLAST BOX

The ballast box can be filled with sand, steel, cement or other material to add weight to the front or rear part of the tractor and ensure greater stability.



Width	mm		870
Depth	mm		605
Height	mm		600
Volume	m ³		0.23
Max. weight (Concrete)	kg		650
Max. weight (Cement)	kg		830
Max. weight (Dry sand)	kg		460
Max. weight (Wet sand)	kg		580

NOTE: Technical data and images are indicative and not binding. PC1 refers to PC 910, PC2 refers to PC 830, PC3 refers to PC 850, PC4 refers to PC 920. Attachments for PC2 are different from attachments for PC1, PC3 and PC4.



BACKHOES

BACKHOES

C SERIES

Backhoe with shifting frame

The backhoes with shifting frame from the "C" series allow moving earth by using the rear hitching of the tractor. They are complete with shifting frame and the movement can be controlled hydraulically, without the need for the operator to leave the cab.

		C170	C220	C260	C290	C330	C470
Tractor power	HP	20-30	35-55	55-90	75-110	100-200	120-200
Excavation depth	mm	1700	2200	2600	2900	3300	4650
Frame width	mm	1100	1400	1500	1700	2000	2000
Total weight	kg	285	410	580	730	1080	1190
Tank	l	15	22	35	45	60	60
Standard excavation bucket	mm	250	300	300	300	300	300
Standard excavation bucket	l	14	25	25	25	25	25
Breaking force at the tine	kg	1500	2200	2800	3500	4200	5135
Excavation force with secondary boom	kg	700	1000	1100	1600	1850	1800



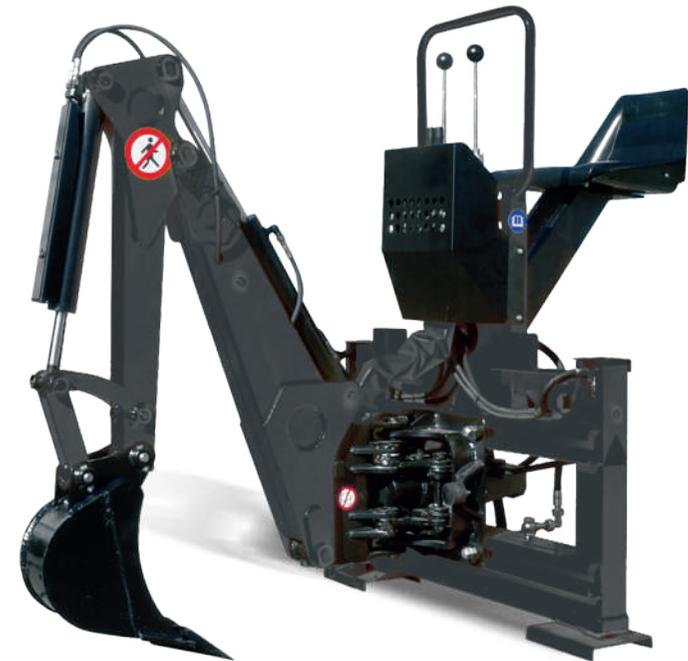
BACKHOES

U SERIES

Backhoe with fixed frame

The backhoes with fixed frame from the "U" series allow moving earth by using the rear hitching of the tractor.

			U170
Tractor power	HP		20-30
Excavation depth	mm		1700
Frame width	mm		1100
Total weight	kg		285
Tank	l		15
Standard excavation bucket	mm		250
Standard excavation bucket	l		14
Breaking force at the tine	kg		1500
Excavation force with secondary boom	kg		700



IMPLEMENTS FOR BACKHOES

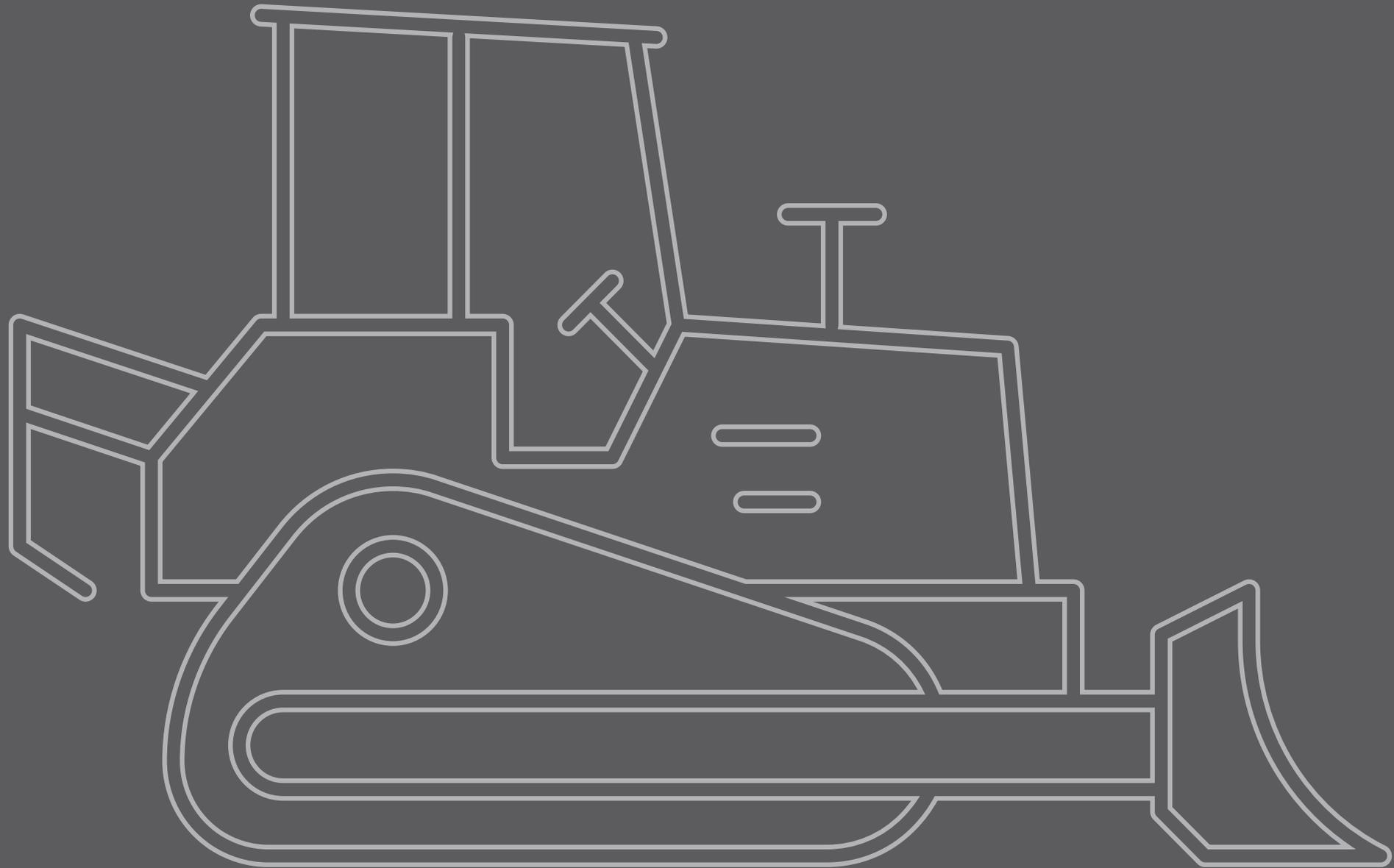
Description		Size	C170-U170	C220	C260	C290	C330	C470
	Excavation bucket	250 mm	■	■	■	■	■	■
		300 mm	■	■	■	■	■	■
		400 mm	■	■	■	■	■	■
		500 mm		■	■	■	■	■
		600 mm		■	■	■	■	■
		700 mm					■	■
	Trench cleaning bucket	800 mm	■	■	■	■	■	■
		1000 mm		■	■	■	■	■
		1200 mm		■	■	■	■	■
	45° swivel bucket**	800 mm		■	■			
		1000 mm		■	■	■	■	■
		1200 mm		■	■	■	■	■
	Trapezoidal bucket	550 mm	■					
		670 mm		■	■			
		740 mm					■	■
	Grab bucket*	125 dm ³			■			
		175 dm ³				■	■	■

Key

■ = compatible * Requires additional system 1 or 2 ** Requires additional system 2

IMPLEMENTS FOR BACKHOES

Description		Size	C170-U170	C220	C260	C290	C330	C470
	Multi-purpose fork*	650 mm			■			
		800 mm				■	■	■
	Hydraulic rotator**	BR10			■			
		BR35				■	■	■
	Hydraulic hammer**	62 kg			■			
		96 kg				■	■	■
	Drill*	TR1			■			
		TR2				■	■	■
	Auger	150			■	■	■	■
		200			■	■	■	■
		250			■	■	■	■
		300			■	■	■	■
		400			■	■	■	■



BLADES AND COMBI EQUIPMENT

REAR GRADER BLADES

RGB REAR GRADER BLADE WITH MECHANICAL ANGLING

Ideal equipment for levelling and finishing work on different types of terrain. It is mounted on the tractor rear three-point hitch and connected to the hydraulic system of the tractor, without the need for any additional equipment.

The mouldboard can be mechanically angled. Equipped with 2 hydraulic movements.



		RGB 200	RGB 250	RGB 300
Height	mm	1322	1322	1322
Length	mm	1540	1540	1540
Blade width	mm	2000	2500	3000
Max. blade side-shifting	mm	600	600	600
Blade height	mm	500	500	500
Max. digging depth	mm	320	320	320
RH/LH tilt	Degrees	± 18	± 18	± 18
Mechanical tipping rotation	Degrees	180	180	180
Horizontal (mechanical) rotation	Degrees	40	40	40
Levelling machine weight	kg	570	600	645
Operating pressure	bar	180	180	180
Recommended tractor power	HP	80-120	90-120	95-120

RGB HD REAR GRADER BLADE WITH HYDRAULIC ANGLING

Ideal for heavy-duty use, it is mounted on the rear three-point hitch and requires a tractor equipped with a 3 bank directional control valve with double-acting spools. It is particularly suitable for maintenance work on farms, and is also suitable for clearing snow in winter. It ensures the satisfaction of even the most demanding user.

Equipped with 3 hydraulic movements, one of which allows hydraulic mouldboard angling.



		RGB HD 200	RGB HD 250	RGB HD 300
Height	mm	1322	1322	1322
Length	mm	1540	1540	1540
Blade width	mm	2000	2500	3000
Max. blade side-shifting	mm	600	600	600
Blade height	mm	500	500	500
Max. digging depth	mm	320	320	320
RH/LH tilt	Degrees	± 18	± 18	± 18
Mechanical tipping rotation	Degrees	180	180	180
Horizontal (hydraulic) rotation	Degrees	40	40	40
Levelling machine weight	kg	680	710	755
Operating pressure	bar	180	180	180
Recommended tractor power	HP	80-150	90-150	100-150

OPTIONAL ACCESSORIES

WHEELS FOR REAR GRADER BLADES

The wheels for rear grader blades can be applied to RGB and RGB HD models and facilitate their movement, perfectly adapting to uneven grounds.

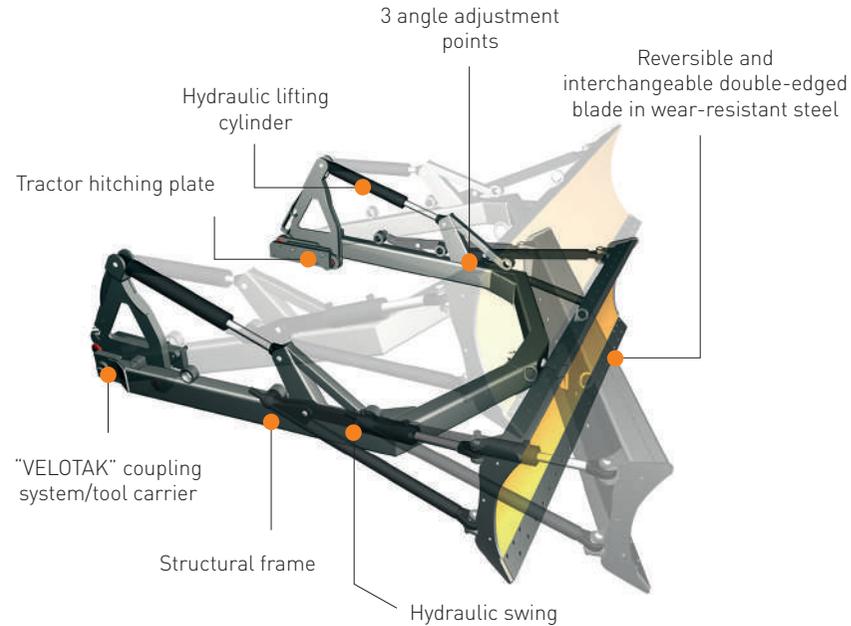


NOTE: Technical data and images are indicative and not binding.

FRONT BLADES

FGB DOZER BLADE

The frame made of structural tubular makes the dozer, thanks to its strength and reliability, particularly suitable for heavy-duty work in agricultural estates, thanks to the mouldboard with booms supplied as standard: levelling and grading, snow removal, piling silage and many other operations. The frame has been designed to optimise load distribution, ensuring maximum work capacity with minimum stress on the tractor. The materials chosen for the construction of the reversible, double-edged blade ensure a long service life of the implement. The efficiency and rapidity of the frame hitching/unhitching operations are ensured by the Velotak quick-fit and the presence of support feet as standard. As an alternative to the mouldboard, it is possible to replace this implement with a grader blade. In addition, it is possible to mechanically adjust the applied 30° implement angle on both sides. The dozer also features two hydraulic functions: lifting and tilting.



Mouldboard with booms



Grader blade with booms

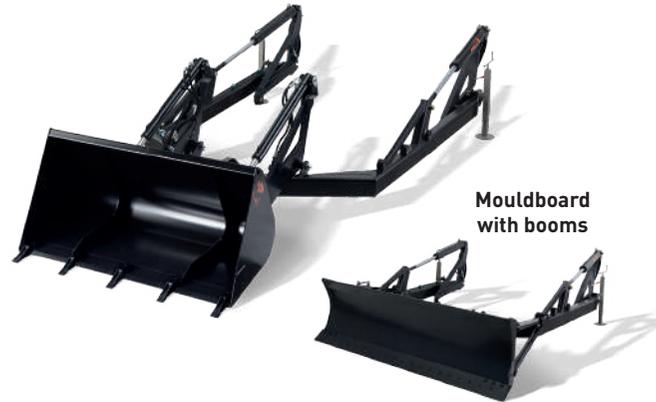
The grader blade can be used for land recovery by collecting larger stones. It is possible to request a version with closer tines, that allow to retain smaller stones.

		A10						A20				A30		
Tractor wheel track	mm	800	1000	1100	1200	1300	1400	1500	1600	1300	1400	1500	1600	1700
Mouldboard width	mm	1900	1900	2020	2020	2160	2140	2300	2300	2300	2300	2560	2560	2560
Mouldboard height	mm	550	550	550	550	550	550	550	550	650	650	650	650	650
Max height from the ground	mm	700	700	700	700	700	700	700	700	800	800	800	800	800
Excavation height	mm	250	250	250	250	250	250	250	250	300	300	300	300	300
Power	HP	44-55	44-55	44-55	44-55	44-55	44-55	44-55	44-55	60-110	60-110	60-110	60-110	60-110
Power	kW	32-41	32-41	32-41	32-41	32-41	32-41	32-41	32-41	44-81	44-81	44-81	44-81	44-81

FRONT BLADES

FGB COMBI

The FGB COMBI allows crawler tractors to use, in addition to the dozer blade, also implements with dedicated COMBI coupling system. It is supplied as standard with 1600 mm wide earth bucket, without additional tines, and mouldboard. The type of mouldboard depends on the tractor wheel track and power. It is possible to request a spare or additional optional implement, the Euro 8 implement tool carrier and the Velotac tool carrier for sides.



	Tractor Power	kW (hp)	52-81 (70-110)
Max. lifting height at pivot point	mm		2735
Max. lifting height under bucket level	mm		2120
Digging depth (standard bucket)	mm		310
Width (standard bucket)	mm		1600
Digging depth (mouldboard)	mm		300
Volume (standard bucket)	m ³		0.49
FGB COMBI weight without implements	kg		522
Weight of mouldboard with booms (standard)	kg		350
Earth bucket weight (standard)	kg		182

OPTIONAL ACCESSORIES FOR FGB COMBI

BT COMBI EARTH BUCKET

The earth bucket features holes along the main blade, allowing the integration of a wear-resistant blade or a set of tines on request.



Width	mm	1600	1800
Depth	mm		700
Height	mm		730
Volume struck	m ³	0.43	0.49
Weight	kg	194	207
Optional teeth	no.	5	6

FLE COMBI MANURE FORK

Implement used for collection of manure and other light materials, such as mowing and branches. Thanks to the small gap between the tines, it minimises material dispersion.



Width	mm	1500	1980
Forks length	mm		600
Height	mm		745
Weight	kg	135	170
Forks	no.	7	9

FP COMBI PALLET FORK

Its compact, sturdy structure allows loading pallets and palletised loads, minimising oscillations and the risk of falling. The tines are mechanically adjustable laterally, allowing the implement to adapt to pallets of any shape, and ensuring even distribution of weights.



		15Q	20Q
Width	mm		1200
Forks length	mm		1000
Height	mm		560
Weight	kg	140	150
Max. load capacity	kg	1500	2000
Fork type and size: FEM 2A	mm	100x35	120x35

NOTE: Technical data and images are indicative and not binding.

OPTIONAL ACCESSORIES FOR FGB COMBI

FT COMBI LOG GRAB

Implement specifically designed for handling and storage of stacks of wood and logs.
It requires a third hydraulic line.



Width	mm	1600
Length	mm	1000
Usable height	mm	1465
Total height (open)	mm	1610
Total height (closed)	mm	1185
Weight	kg	319
Max. load capacity	kg	1000
Forks	no.	4+2
Grab opening	mm	900

LSB GRADER BLADE WITH BOOMS

The grader blade can be used for land recovery by collecting larger stones.
It is possible to request a version with closer tines, that allow to retain smaller stones.



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EURO 8 TOOL CARRIER (COMBI)

Designed to equip implements with Euro 8 attachment easily and quickly. In addition to the standard version applicable to the dedicated mobile frame, it is also possible to request the fixed Euro 8 tool carrier on the arch.



Standard Euro 8 tool carrier

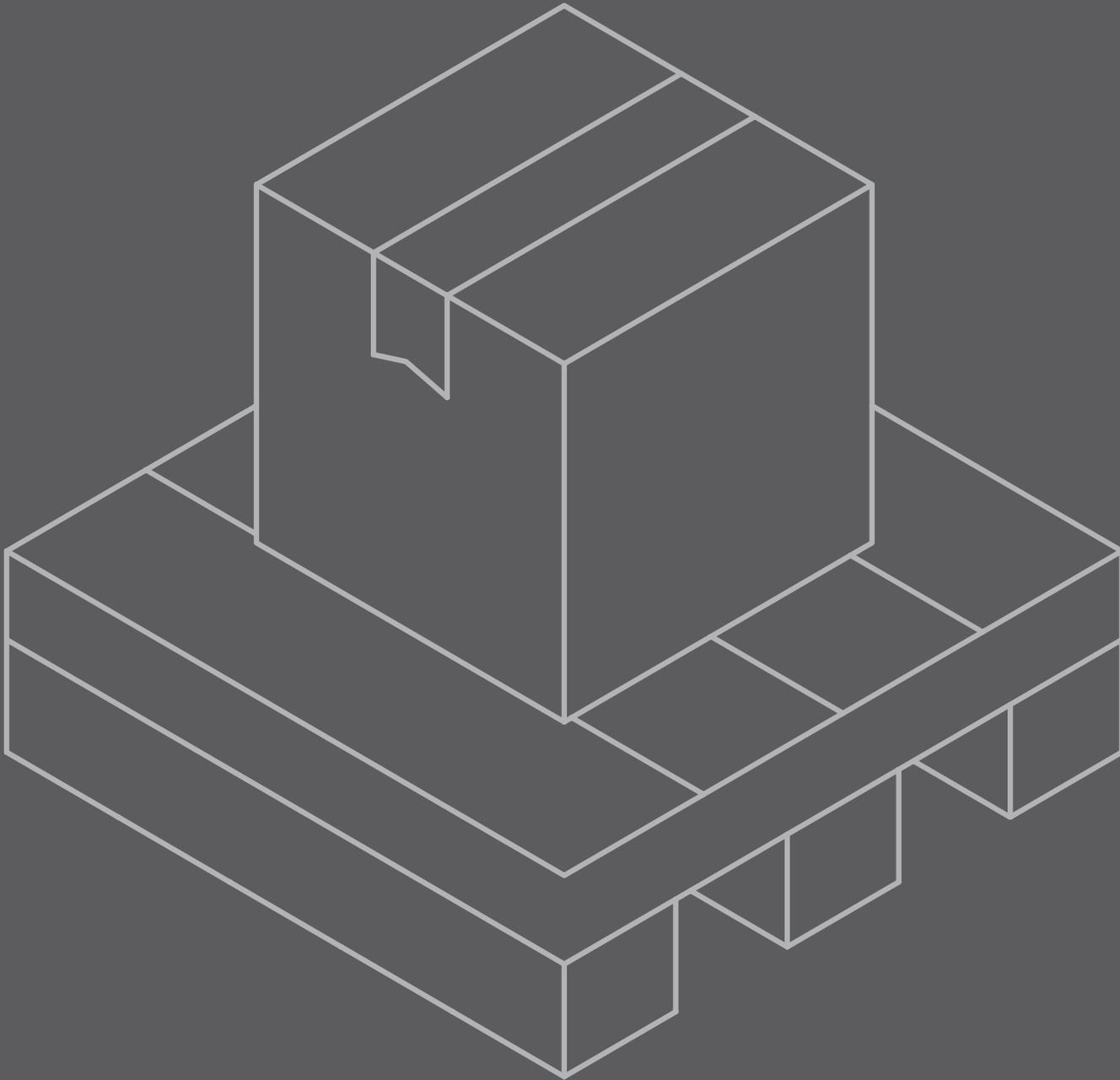


Fixed Euro 8 tool carrier

VELOTAK

The Velotak system allows the operator to quickly unhitch or hitch the loader on the subframes applied to the tractor, depositing it to or picking it from the parking position through levers located on the outer side of the bearing boxes. The hitching and unhitching positions are indicated by a dedicated coloured decal. All Sigma 4 loaders are equipped with this device.





PACKAGING

PACKAGING

Sigma 4 products are shipped by optimising the overall dimensions on the pallet and optionally adapting to the specific customer requests.



THE
LOAD
ER.



sigma4.it

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