

sigma 4

BACKHOES

BACKHOES WITH SHIFTING FRAME - SERIES C

The **Sigma 4 Backhoes** are three-point hitched through an adjustable coupling system. They are easily hitched and perfectly locked to the back of the tractor allowing for great stability as well as comfortable and safe operations. Hitching and unhitching procedures are easy and rapid even for non-professional users. While working, the stress is distributed on the two stabilizer legs, safeguarding the tractor. The hydraulic cylinders (fed by a pump which in turn is driven by the tractor P.T.O.) control the movement of the

arms and bucket. The rams are connected to the hydraulic distributor and operated by means of levers placed on the control console in front of the seat. The Sigma 4 backhoes are for customers looking for an excellent product at the best market price.

The Backhoe Series "C" is the best selling model. Its frame can be hydraulically shifted with no need of getting off the seat. Side-shift is a very crucial feature for operators working in row cultivations, such as orchards and vineyards, and more in general in narrow areas where stabilizer legs may not be easily fitted.

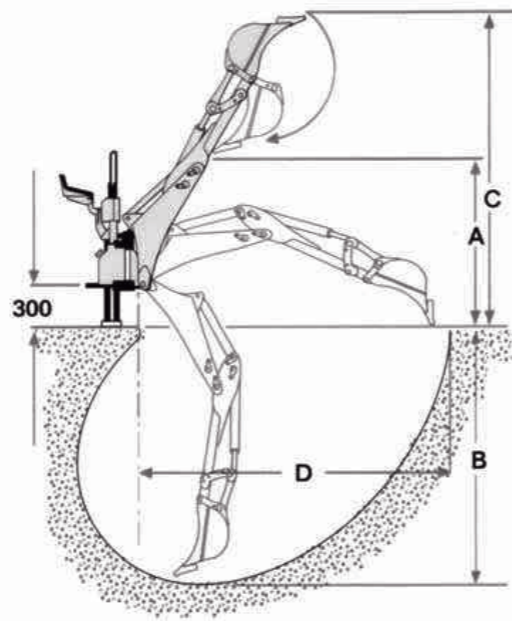
Easily accessible and adjustable seat. Its ergonomic design and its position to allow for excellent visibility make the work safer and comfortable!

Independent stabilizer legs with remote-controlled locking valves. Our backhoes feature side-shift extension to optimise the equipment's performance as well as the operator's safety in any working condition.

TECHNICAL DATA

MODEL	A	B	C	D
C180 mm	1630	1770	2330	2435
C230 mm	2050	2300	2740	2960
C270 mm	2370	2650	3370	3530

TECHNICAL DATA	C180	C230	C270	
Bucket Breakout Force	2600	2600	2750	
Rotation Angle	180°	180°	180°	
Pump Capacity	Lt/min	16	16	26
Operating Pressure	bar	180	180	180
Buckets	mm	250-600	250-600	300-800
Weight with Standard Bucket	Kg	515	545	770



Backhoe hydraulic pump driven by the tractor PTO.



Hydraulic cylinders control all backhoe movements and allow boom swing of 180°.



Easy adjustment of backhoe unit behind tractor.



Whilst every effort is made to ensure that the specifications, descriptions and illustrations in this brochure are correct at the time of print they are subject to change without prior notice.

sigma 4



MAART/2019

sigma 4

FRONT LOADERS



SPECIFICATION

TECHNICAL DATA

LIFTING FORCE AT 180 BAR		CHROME F		CHROME M	
		F20	F30	M20	M30
With Bucket On Ground	Q1 Kg	1200	1200	1200	1200
With Bucket At Max. Height	Q2 Kg	1060	1060	1220	1220
With Fork On Ground	Q3 Kg	1200	1200	1200	1200
With Fork At Max. Height	Q4 Kg	1100	1100	1100	1100
Tear Out Force at Bucket Tooth	Q5 Kg	1300	1100	1200	1000
MAX. LIFTING HEIGHT					
At Pivoting Point	A mm	3800	3870	3800	3870
With Tilted Bucket	B mm	2940	3010	2940	3010
ANGLES					
Tilting Bucket On Ground	C °	45	45	45	45
Bucket Unloading	D °	55	55	90	55
DIGGING DEPTH					
	E mm	150	150	150	150
WORKING DURATION L / 1' = 40					
Lifting At Max. Height	"	7	7	7	7
Bucket Tilting	"	5	5	5	5
WEIGHTS					
Without Implement And Subframes	Kg	380	395	400	415
Hp		60-100	70-120	60-100	70-120



TECHNICAL DATA

LIFTING FORCE AT 180 BAR		IRON F			IRON M			IRON H		
		F20	F30	F40	M20	M30	M40	H20	H30	H40
With Bucket On Ground	Q1 Kg	1400	1600	1800	1500	1700	1900	1500	1700	1900
With Bucket At Max. Height	Q2 Kg	1300	1500	1600	1400	1650	1800	1400	1600	1800
With Fork On Ground	Q3 Kg	1400	1600	1800	1500	1700	1900	1500	1700	1900
With Fork At Max. Height	Q4 Kg	1300	1500	1600	1400	1600	1800	1400	1600	1800
Tear Out Force at Bucket Tooth	Q5 Kg	1500	1500	1500	1500	1500	1500	1500	1500	1500
MAX. LIFTING HEIGHT										
At Pivoting Point	A mm	3800	3870	4100	3800	3870	4100	3800	3870	4100
With Tilted Bucket	B mm	2940	3010	3200	2940	3010	3200	2940	3010	3200
ANGLES										
Tilting Bucket On Ground	C °	45	45	45	45	45	45	45	45	45
Bucket Unloading	D °	55	55	55	90	90	90	55	55	55
DIGGING DEPTH										
	E mm	150	150	150	150	150	150	150	150	150
WORKING DURATION L / 1' = 40										
Lifting At Max. Height	"	7	7	9	7	7	9	7	7	9
Bucket Tilting	"	5	5	5	5	5	5	3	3	3
WEIGHTS										
Without Implement And Subframes	Kg	440	473	500	500	533	560	500	533	560
Hp		60-100	70-120	100-150	60-100	70-120	100-150	60-100	70-120	100-150

FEATURES

Front Loader with **Manual Implement** levelling on **F Series**
 Front Loader with **Mechanical Implement** self-levelling system on **M Series**
 Front Loader with **Hydraulic Implement** self-levelling system on **H Series**

- Fitting brackets supporting loader from tractor front end to rear axle shafts
- Hydraulic system conforming to tractor specifications

Standard Equipment

- Two double acting cylinders for lifting
- Two double acting cylinders for the operation of the implement on **F & M Series**
- Two double acting cylinders for the operation of the implement designed with double rod for faster implement unloading on **H Series**
- Quick-release of loader from tractor **VELOTAK**
- Implement quick release **EURO**
- Hydraulic quick-fit couplings on **CHROME, IRON & GOLD Series**
- Adjustable support legs
- Bucket level gauge on **IRON, GOLD Series**
- Anti-bounce **GENIUS SYSTEM**
- Hydraulic multi-connector **FLASH SYSTEM**



CHROME F



CHROME M



IRON F



IRON M



IRON H

IMPLEMENTS



EARTH BUCKET

All of our buckets are tapered, and thus easy to fill as material does not need to be pressed while loading. The bucket's tapered design and absence of angles remarkably reduce the product adherence to the side plates of the implement, which can be filled and emptied completely and rapidly.



ROUND & SQUARE BALE FORK

Simple and robust attachment to load round bales. On demand it can be fitted with an extension that allows the transport of two bales simultaneously and with a third supplementary spike for better stability of the load.



PALLET FORK

Thanks to its solid and compact structure, the loads suffer minimum oscillation and thus risk of load loss is greatly reduced. The forks are laterally adjustable so that weight can be evenly distributed.



GRAB FOR WRAPPED BALES

Developed for transport and loading of wrapped bales with diameter from 90 up to 160 cm. The grab arms exert a uniform pressure on the bale without damaging its wrapping film. Its use requires the fitting of a supplementary hydraulic line on the loader.



GRAB FOR ROUND BALES

Designed to load round bales into mixers and to transport other similar material such as branches and sugar canes. Its use requires the fitting of a supplementary hydraulic line on the loader.



MECHANICAL TILTING BLADE

Solid and very adaptable blade, with mechanical angling of 30°, it is ideal for trail cleaning and for overall grading operations on the farm. It is also suitable for snow cleaning. Its use requires the fitting of a 4th floating position on the loader valve chest. The floating position adjust the implement as to follow the ground configuration.



BIG BAG CARRIER

Designed to hook and lift onto high sided trucks and trailers and to stack big bags of 1500kg. When travelling with the big bag lifted the sway frame will prevent the bag from swaying.

