

AUTOSPIRE®




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**Self-propelled machine from 12 to 18m³
Vertical auger dietfeeder
silage unloader - feeding machine**

LUCAS 
FEEDING FOR THE FUTURE!



Take care of your herd with full autonomy, with only one machine

Load, Mix and feed with only one machine ! The Autospire® range has been designed to combine comfort, manoeuvrability and versatility and to reach a high quality job and cost reduction

- **Time saving**

Just use one machine to load, mix and feed. With the Autospire® you release a second machine to carry out other work. You make all your duty from the Autospire® cab without having to get down, you work efficiently

- **Versatility**

Refine your autospire® to adapt it to your farm : 4 volumes from 12 to 18m³, 3 distribution modes (direct trapdoor or conveyor), and 2 driving range (possible set-up : 4 driving wheels; 4 steering wheels, 40 Kph homologation) for better performances, the engine depend on the chosen volume

- **High Quality mix**

Our machine has been studied to create a high quality mix : The auger has been designed for an optimal mixture. You can check the mix from the cab thanks to color cam. Your animals are so in better health and you increase your productivity.

- **Comfort**

All equipments, in the telehandler cab, are planned in order to avoid the constraint to have to get down and up several time during your work. You avoid thus accidents, limit tiredness and preserve your health.

- **Manoeuvrability**

The different set-up of the AutoSpire® allows you a incredible manoeuvrability : 2 or 4 driving wheels ; 2 or 4 steering wheels, work range or drive range, small turning circle and crossing easy.

- **Reduce your costs, increase your profitability**

Using one single machine allows you to save energy and so money. The ration gives you a better productivity and reduce veterinary costs (cows are in better health).

With the Autospire® range save time and increase productivity with a better work comfort !



AUTOSPIRE®

Self-propelled machine - Vertical auger dietfeeder
silage unloader - feeding



VOLUME AVAILABLE IN
12-14M³ WITH ONE AUGER
OR 16-18 WITH TWIN AUGER

LUCAS 



A range adaptable to your needs !

4 volumes

12 m³

14 m³

16 m³

18 m³



Several versions

Homologation



Axles



2 or 4 driving wheels
and/or
2 or 4 steering wheels

2 Distribution modes

Conveyor



Back feeding conveyor
Right and Left

Direct trapdoor



Front right direct trapdoor and/
or back left direct trapdoor

Engine and progress

Deutz Engine



**140 Hp (12 and 14m³) or
175 Hp (16 and 18m³)**

2 range :
- Working : 0 to 8 KpH
- Road : 0 to 25 KpH
or 0 to 40 KpH

Steering mode



3 steering modes : front, lateral, or crab. Hydraulic suspensions on front axle.

Limited bulk



Small turning circle
12 & 14m³ : 5,83m
and
16 & 18m³ : 6,96m

Dimensions	12m ³	14m ³	16m ³	18m ³
Maximum overall length	8,28	8,36	10,52	10,45
Overall width	3,62	3,62	3,62	3,62
Overall height	2,96	3,29	2,98	3,30
Feeding height	0,90	0,90	0,96	0,96

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Optimized loading !

Load all your ingredient : Maize, fibres, grass, concentrated



Load Silo up to 5m high. reversible wear plate with floating position to scrape small intrans on the floor. Indicator for charging rate on the chopper to optimize loading process. Hydraulic engine on bottom arm. Waterproof device with guardrail. access and emptying trapdoor. Conveyor has been designed with a dome to increase loading fibres flow.

Loading chopper



2m wide,
Ø 620mm;
from 36 to 56
sections

Conveyor



650mm wide,
conveyor band
of 620mm.

Weighing



Reliable and accurate
weighing in cab



To make simple loading and day to day
management several option are offered :

- Data transfer to computer,
- Data print on ticket.

High Quality mix

Tub



Totally with
S355 steel

Mixing auger



Mechanically
driven

Cut-off plates



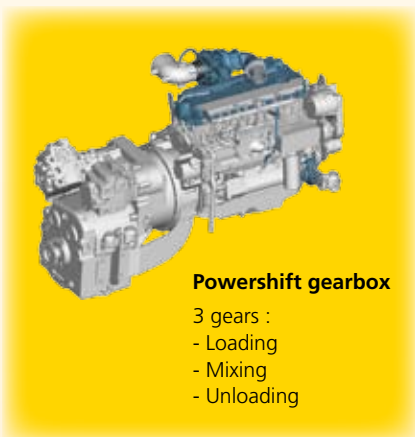
2 hydraulic cut-off
plate driven from
the cab

Mixing hopper



Easy access
to the mixing hopper
to incorporate
minerals !

Efficiency optimisation, homogeneous quality mix !



Powershift gearbox

- 3 gears :
- Loading
 - Mixing
 - Unloading



1st and 2nd gear

- 1st gear : to distribute during loading for better ratiom homogenisation,
2nd gear : for mixing chopping and feeding



Limit waste

- a third gear, temporized, to guarantee a perfect emptying of the tub.

Efficiency optimisation : Let the mixer in 2nd gear, it will automatically comes to 1st gear when launching the chopper to increase loading flow.



Easy distribution in all rows !

Choose your distribution mode

Back conveyor



Back conveyor Right / Left, dimensioned for distribution of all ingredients (from Spirmix range). Hydraulic offset



Regular and fluid flow, right and left, Distribute in all buildings including dead end building.

Direct trapdoor



Front right trapdoor and/or back left

Enter a full comfort space !

Large telehandler cab



Large telehandler cab :
 - High driving comfort (hydraulic suspensions and mounted on silent-bloc)
 - High visibility (advanced) work in optimal conditions !

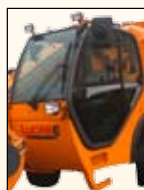
Color cam



4 cam offer a visibility on :
 - mixer,
 - right distribution,
 - left distribution,
 - back of the machine (backward).

Adjustable screen in cab.

Working lights



Working lights placed in the front on the roof and at the back of the machine to have godd visibility even at night

Mirrors



Mirrors are high format mirrors, telescopic.

Benefit from electrically adjustable and de-icing mirrors

Controls



Chopper controls :

3 positions buttons : On / Off, backward (Chopper and conveyor). Automatic launch of the chopper : opening front protection, deflector top of the arm, launching conveyor and chopper

Steering control :

Acceleration by hand or by foot. Progress made by hand via multifunction joystick.

Distribution control :

For a better distribution, conveyor speed can be driven from the cab.

Joystick control :

- front or back progress for the machine,
- ways up or down of the loading arm,
- opening /closing of back trapdoor,
- Left or right offset for feeding conveyor..



AUTOSPIRE®

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silage unloader - feeding

Easy access to all maintenance points !

Your Lucas G agreed dealer, is available to help using your machine and all type of maintenance. If necessary a technical team from Lucas G will intervene in your machine.

Lubrification

Greasing points are grouped :

- machine with 2 steering wheels : 2 entrance to grease 22 points,
- machine with 4 steering wheels : 3 entrance to grease 31 points.

Automatic central greasing pump is available.

Maintenance

Easy access to all maintenance points !

Right crankcase



Easy opening on gaz struts :

- Engine cooling system,
- Expansion tank,
- hydraulic distributors,
- hydraulic filters,
- hydraulic tank ans strainer.

Left crankcase



- Battery,
- cut battery,
- fusible box,
- air filter,
- Powershift gearbox cooling system,
- hydraulic cooling system (for hydraulic circuit)

Engine crankcase



- Engine,
- Hydraulic pump,
- fuel filter,
- flat belt,
- dipstick

Primary fuel filter



Primary fuel filter with booster pump. Located behind cab (close to tank)

Top spin filter



Automatic cleaning : quit 90% of bigger than 10 microns particle

Demonstration

You are interested, you want to see a machine working ?
Do not hesitate to contact us !



Please contact :

- your LUCAS dealer
- directly the firm LUCAS
- by mail commercial.france@Lucasg.fr
- or by phone 00 33 251 654 136

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CARACTERISTIC

	CONVEYOR AUTOSPIRE®				TRAPDOOR AUTOSPIRE®				
	12m³	14m³	16m³	18m³	12m³	14m³	16m³	18m³	
CAPACITIES	Loading capacity	10,3	12,1	15,2	17,4	10,3	12,1	15,2	17,4
	Unloaded weight (T)	11,6	NC	NC	NC	NC	NC	NC	NC
	Maximum total weight Authorized in Charge (T)	17	17	19	19	NC	NC	NC	NC
DIMENSIONS	Overall length (m)	7,92	7,8	10	9,85	7,08	6,95	9,2	9,1
	overall width (m)	2,55	2,55	2,55	2,55	2,55	2,55	2,55	2,55
	wheel width (m)	2,4	2,4	2,35	2,35	2,4	2,4	2,35	2,35
	overall height (m)	2,95	3,25	3,95	3,2	2,95	3,25	3,95	3,2
	feeding height (m)	0,83	0,83	0,91	0,91	0,66	0,66	0,75	0,75
	Number of Auger	1	1	2	2	1	1	2	2
ENGINE	Deutz engine 140 Hp 4 cylinders	✓	✓	-	-	✓	✓	-	-
	Deutz engine 175 Hp 6 cylinders	-	-	✓	✓	-	-	✓	✓
EQUIPMENT	Loading chopper : 2m wide, Ø610mm, 36 sections	✓	✓	✓	✓	✓	✓	✓	✓
	Chopper protection	✓	✓	✓	✓	✓	✓	✓	✓
	Conveyor : 650mm wide	✓	✓	✓	✓	✓	✓	✓	✓
	Back conveyor for feeding	✓	✓	✓	✓	-	-	-	-
	hydraulic off-set	✓	✓	✓	✓	-	-	-	-
	feeding trapdoor front right and/or back left	-	-	-	-	✓	✓	✓	✓
	Mixer from the spirmix range with incorporation hopper	✓	✓	✓	✓	✓	✓	✓	✓
	Homologation 25 Kph	✓	✓	✓	✓	✓	✓	✓	✓
	Homologation 40 Kph	•	•	•	•	•	•	•	•
	2 driving wheels, 2 steering wheels	✓	✓	✓	✓	✓	✓	✓	✓
	4 driving wheels	•	•	•	•	•	•	•	•
	4 steering wheels	•	•	•	•	•	•	•	•
	4 working lights	✓	✓	✓	✓	✓	✓	✓	✓
	Powershift gearbox (loading, mixing, unloading)	✓	✓	✓	✓	✓	✓	✓	✓
	color screen cab : backward cam, mixing, feeding right and left	•	•	•	•	•	•	•	•
	Programmable weighing unit	✓	✓	✓	✓	✓	✓	✓	✓
	cooling exchanger separated	✓	✓	✓	✓	✓	✓	✓	✓
	Automatic greasing central	•	•	•	•	•	•	•	•
	Air conditioning	•	•	•	•	•	•	•	•
	Electric right mirror (de-icing and folding)	•	•	•	•	•	•	•	•
	Neumatic sit	•	•	•	•	•	•	•	•
	cooling system cleaning	•	•	•	•	•	•	•	•
	Pneumatic : version 25 Kph	445/45 R 19,5	✓	✓	-	-	✓	✓	-
500/45 R 22,5		•	•	✓	✓	•	•	✓	✓
450/70 R 20		-	-	•	•	-	-	•	•
Pneumatic : version 40 Kph	500/45 R 22,5	✓	✓	-	-	✓	✓	-	-
	450/70 R 20	-	-	✓	✓	-	-	✓	✓

✓ In series • Optional equipment - Not available



All Qualimix® models comply with the safety norms



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Siège Social : 22 rue du stade - BP 9 - 85130 La Verrie - France - Tél. : +33 (0)2 51 65 41 36 - Fax : +33 (0)2 51 65 41 51
E-mail : lucasg@lucasg.fr - E-mail commercial : commercial@lucasg.fr - web : www.lucasg.com

S.A.S. au capital de 1 000 000 € - RCS LA ROCHE SUR YON B 547 150 730 - SIRET 547 150 730 00026 - Code NAF 2830 Z
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