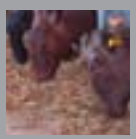
QUALIMIX®

Paddle diet feeder

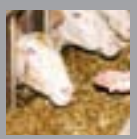
Independent cutting, mixing and feeding

LUCAS

FEEDING FOR THE FUTURE !


SHEEP

BOVINES


CAPRINES

An unique concept of mixing machines !

To be a breeder nowadays requires many skills, qualities and having good business sense in order to be a manager !
The Qualimix range allows you to save time and to increase productivity.
You will like that reduce your costs, save your working time while optimizing your production.

The advantages of the Qualimix mixing :

- Not agressive : made in an area without knives !
- Fast
- The paddles raise all the materials.
- Weighing system for a precise feed
- Does not disintegrate the material.
- Homogeneous and aerated
- Consumes few energy

QUALIMIX® 150 «little ruminants»

Breeder's testimonies :

«We have choosen a paddle mixer because it brings more flexibility in our way of working and it preserves our material for feed : no disintegrating of maize or long strands which are still between 6 and 8 cm in order to optimize the salivation, and so the ruminating.»

«The animals ruminate better, have a good state of health and present no acidosis».

QUALIMIX®

Paddle diet feeder

Independent cutting, mixing and feeding

Reduce your energy consumptions !

Reduce your costs and your environmental impact

QUALIMIX® 200 Autonomous

QUALIMIX® 200

LUCAS

The Qualimix® range : a concept !

Since loading till feeding : 20 minutes for 120 cows

An unique concept for not disintegrating !

1/ Cutting function
2/ Mixing function
3/ Feeding function

Do no more disintegrate your foods : a mixing area without knives !

The mixing is made thanks to 3 paddles, without knives, in a tank with smooth bottom.

The paddles raise the foods in order to have an homogeneous, aerated and appetizing mixing.

Improve your production value by preparing your own feeds !

Prepare feeds with less than 300 kg :

- 8 days old calves
- Heifers younger than 6 months
- Bull calves
- Dry feeds

From 300 kg to 6,7 T, from 8 days old calves to the dried up cows !

Calculate your return on investment :

- Reduce your energy consumption and your costs,
- Improve your production,
- Improve the animals rumination,
- Your animals have a better state of health.

Breeder's testimonies :

«The cows are in very good health, the heifers are well growing ; we produce our quota without any diffuculty and we have saved money on foodstuffs.»

«Since we have the diet feeder, we have no more called the veterinarian for metabolic problems.

QUALIMIX®

Paddle diet feeder

Independent cutting, mixing and feeding

A multipurpose range

Dare the difference !

Qualimix® : 15 m³ and 20 m³

Qualimix® 150

Qualimix® 200

Machines 15 m³ and 20 m³ with front left feeding trap
The standard machines are equipped with a mixing area without knives, with a weighing box, with permanent lubrication and protected operating mechanisms.
Choose your solution for feeding and loading (conveyor, trap door, high chopping area system for whole bales).

The advantages of a self-propelled machine without the investment !
Qualimix® autonomous : 15 m³ and 20 m³

Qualimix® 150 Autonomous

Qualimix® 200 Autonomous

15 m³ and 20 m³ machines with a Deutz motor 100 HP.
The standard machines are equipped with a mixing area without knives, with a front left trap door, with a radio control, with a programmable weighing box, with permanent lubrication and protected operating mechanisms.

An unique concept adapted to specific needs !
Qualimix® «little ruminants» : 15 m³ et 20 m³

Qualimix® 150 «little ruminants»

15 m³ or 20 m³ machines with front left trap door in 3 parts with bolts
The standard machines are equipped with a mixing area without knives, with a front left trap door, with a weighing box, with permanent lubrication and protected operating mechanisms, with a trap adapted for a distribution on conveyor, with a double control in the cab and at the bottom of the machine.

LUCAS G

Load directly in the cutting area !

A patented high cutting system optional : V shaped knives, loading trap and cut-off plate

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A cutting area separated from the mixing area !

The strands are cut between 5 and 8 cm
Precise cutting between 2 and 7 minutes !

- Do not waste energy :
  If you do not cut your food with the Qualimix machine, you can load maize in stationary machine.
- The cutting area can be equipped with an optional equipment «high chopping system» : V shaped knives, cut-off plate and loading trap.
- **Optimize the lifespan of your knives**
  Our knives are reversible and can be turned over when a side is worn.

Unroll your whole bales in the cutting area

- **System for whole bales**

Optional equipment : a system for whole bales in order to unroll bales directly in the cutting area, in less than 7 minutes.

Available for Qualimix®

QUALIMIX®

Paddle diet feeder

Independent cutting, mixing and feeding

Drive easily in full safety !

Coupling

Coupling with suspended draw bar with height adjustment

Hydraulic stand

Hydraulic stand which engages automatically the braking and ensures the stability of the diet feeder during the loading and the mixing
(in series for Qualimix® Autonomus)

Truck form

The Qualimix® machines are very easy to handle during the loading, the mixing and the feeding thanks to their truck form.

Precise and quality feeds !

Do no more disintegrate your feeds !

A special area for mixing, without knives, for not damaging your feed.
3 paddles raise the food in order to aerate and mix better.
The horizontal mixing gives a better mixture than the vertical mixing.

You can also prepare little feeds, from 300 kg
It allows to reduce the mixing time.

Mix 1500 kg / minute !

Qualimix® is the best machine for preserving maize fibres : the 2 lateral augers without knives ensure a good distribution of the material (concentrates,…)

Number of revolutions :

1 Cutting function : Upper auger : 81 rpm for a good cutting
2 Mixing function : Mixing blades : 5 rpm for an aerated and appetizing mixture
3 Feeding function : Lower auger : 37 rpm for a regular feeding

LUCAS G

Distribute your feed rapidly and with effectiveness !

A right balance of the concentrates :
The opposite directions of rotation of the 2 horizontal augers allow a regular distribution of material and notably of the concentrates.

The feed is carried up to the machine exit thanks to the inferior auger in the cutting area.

Choose the way of feeding adapted to your farm

Feeding drip flap

A swath layed 0,40 m from the wheel
Feeding height : 0,95 / 0,98 m.
In series equipment for Qualimix® 150/200 and Qualimix®150/200 autonomous

Magnet for magnetic extraction

Protect your animals :
A magnet kit enables to recuperate the metallic debris contained in the feeds
Optional equipment for the machines equipped with a feeding trap.

Horizontal feeding conveyor

Section of the feeding trap in 3 parts with bolts
A gear allows to reduce the lower auger speed.
In series equipment for Qualimix® 150/200 «little ruminants»

Conveyor elevator

The feeding height can reach 1,50 m
Optional equipment for Qualimix® 150/200

Prevent refusals !

Your animals can no more select the foods :
Only 2% difference of homogeneity on 60 meters length and a quality mixing.
The material is uniformly distributed ; there is no food binding.
Prevent waste and save money !

Save time and material !
Feed 1500 kg / min
< 10 kg remaining in the tub

Time for feeding (examples) :
20 minutes for 180 bull calves
20 minutes for 600 ewes on 6 conveyors !
3 minutes for 120 cows (swath)

QUALIMIX®

Paddle diet feeder

Independent cutting, mixing and feeding

Optimize your consumption of energy and your costs !

A simple and accessible operating mechanism !

Operating mechanism

The operating mechanism is easy accessible (at the back part of the machine) and comprehensible.
There is not bevel gearbox, the operating mechanism is therefore in the axis of the PTO.

Permanent lubrication

Permanent lubrication of the operating mechanisms

Security bolts

The operating mechanism is protected by security bolts

A machine easy to maintain !

The Qualimix® machines need few maintenance !

Breeder's testimonies :

«The maintenance is mainly limited to a greasing per week.»

«No wearing parts ; nothing to see with a silage unloader, feeder. As the machine is running slowly, the bearings and the augers are protected.»

Few power required for a low consumption !

Breeder's testimonies :

«After one year of using, the money saved on fuel represents 1/3 of the machine purchase price. In 3 years, I will obtain return on investment only thanks to fuel economies.»

«As it is crushing at the top, it consumes less than the others diet feeders on the market.»

The Qualimix® range is not very drawing : 90 HP are enough for mixing 6,7 T of material ! Its average consumption is only 5 L / hour !

Improvement of the productivity and good state of health for the animals !

Breeder's testimonies :

«I observe the effects of the diet feeder as of the first month of use on the dairy progress as well as on the animals state of health.»

«Since we have the diet feeder, we have no more called the veterinarian for metabolic problems. The amount saved on veterinary costs is invested in preventive follow-up for reproduction.»

«The cows grow old better and we have no problem with reproduction.»

«The calves start to ruminate as soon as they are 8 days.»

«Our heifers are well-built, they weigh 200 kg or more when they are 6 months old and are not too fatty.»

LUCAS G

The advantages of a self-propelled machine without the investment !

• QUALIMIX® 150/200 Autonomous

«The 120 cows are nourished in twenty minutes, two times per day, without leaving the telescopic loader».

Do not mobilize 2 machines with motor !

The machine is running without being coupled : you need only a tractor or a telescopic loader to load the machine, and then to distribute the feed.

It allows you to control all loading and feeding operations without leaving your cab.

Breeder's testimonies :
«With the autonomous machine, we use only the telescopic loader ; the tractor remains available for other works.»

Drive comfortably !

Remote control

A remote control to control all hydraulic and motor functions of the machine, as well as the weighing. It allows :
- To start the machine
- To engage the hydraulic stand that activates simultaneously the parking brake and the stabilization of the machine.
- To select the motor-speed for cutting or mixing.
- To control the weighing
- To drive the feeding trap

Coupling

Couple and uncouple the machine without leaving your cab !
The coupling is equipped with an automatic hook and an hydraulic stand controlled from the control station.

Record : 4 couplings and 3 uncouplings within 2 minutes with a telescopic.

Appreciate its handling ability !
Its truck form makes it very agreeable to drive.

Breeder's testimonies :
«It is very easy to handle and to drive.»

A 100 HP Deutz motor !

5L/h

The Deutz motor is located under the mixer tub.

Easy access and maintenance thanks to 2 doors

In case of motor breakdown, the machine is equipped with an output for PTO for coupling the machine to the tractor temporarily.

It is a heat engine with 4 cylinders conceived for 10 000 hours and pre-established with 3 motor-speeds (cutting, mixing, feeding).

Its consumption is lower than 5 L/h !

QUALIMIX®

Paddle diet feeder

Independent cutting, mixing and feeding

The advantages of Qualimix® for an autonomous model !

Cutting area

Mixing area

Like the Qualimix®+ pro 150/200, the autonomous model has two differents areas for cutting and for mixing, in order to not disintegrate the material.
The feed has the same quality as with the Qualimix® 150/200.

Breeder's testimonies :

«You get an homogeneous mixture very quickly while preserving the fibres quality».

Instrument panel

An instrument panel is located in front of the machine

Simple and readable, it displays information necessary to the good functioning of the machine (warning lights, hourly meter, switch and emergency stop).

Emergency kit

In case of motor breakdown of the machine, a PTO allows you to work with a tractor.

With Qualimix autonomous, you will always have a solution for feeding

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A simplified maintenance !

Tank

Deutz motor

Several equipments make the maintenance and the use of the machine easier :
- Oil and fuel tanks protected and accessible, located under the machine (on the right side).
- An easy access to the operation mechanism at the back of the machine
- An easy accessible motor

A simple and fast use !

Cutting	**: 2 to 7 minutes**
Mixing	**: 1000 kg to 1500 kg / minute**
Feeding	**: 4500 kg in 5 minutes**

Breeder's testimonies :

«With the Qualimix autonomous 15 m3, I need about 45 minutes since the moment I get into the telescopic loader to load fibers and concentrates until the end of the feeding for the dairy cows.»

LUCAS G

An unique concept adapted to specific needs !

• QUALIMIX® «little ruminants»

An homogeneous feed from the first to the last feeding conveyor !

The power of the Qualimix® range with :

Horizontal feeding conveyor

Feeding trap in 3 parts with bolts
Adapt the trap width to the conveyor width, from 45 cm to 90 cm.

Reduction of the conveyor speed

Adapt the feeding speed to the conveyor speed.

Two ergonomic controls for a well handling during the distribution.

In the cab

The control station in the cab allows to control all functions of the machine from the closed tractor cab.

Comfort for all situations

At the bottom of the machine

Control the distribution without getting back in the cab.

With the controls your can manage the feeding speed of the horizontal conveyor.

QUALIMIX®

Paddle diet feeder

Independent cutting, mixing and feeding

An unique concept adapted to specific needs !

Benefit from a mixing area without knives !

Do not damage your materials during the mixing or the distribution.

The feed mixing is made with the paddles.

It guarantees an aerated, homogeneous and appetizing mixture that prevents refusals or sorting.

High cutting system

For incorporating material, benefit from a system of high cutting.

System for whole bales

A system for whole bales in order to unroll bales directly in the cutting area.

Weighing system

For the preparation of your feed, benefit from a weighing system.

See all optional equipments for weighing system on page 14.

Average consumption : less than 5 L / hour

LUCAS G

To weigh, an obligation !

- **Because a well measured feed is a quality feed, Lucas proposes a weighing system adapted to your needs.**

QUALIMIX® standard or little ruminants

Weighing boxes…

Programmable weighing box EZ3400 (optional)

- Visualize in the menu the number of loading, the total weight and the average weight
- Up to 99 recipes from a list of 200 ingredients

… with second displays

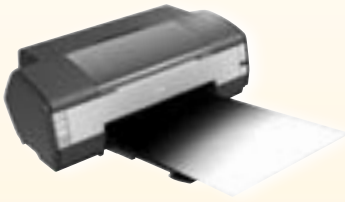
Wireless display Cab Control 400 optional)

- More comfort : visualize the weight from your cab
- A visual and sound alarm : for a better control

…for a follow-up and a daily management of your farm

The boxes can be connected with the printer and / or with the PC

You will like that follow and share easily your datas, and manage your feeds, herds and costs.



QUALIMIX® Autonomous

A programmable weighing box…

Programmable weighing box Win Scale (In series)

- 2 specific menus for the loading and the unloading
- Control the time of mixing during the loading
- Manage the feeds according the quantity or the animals
- Prepare up to 99 recipes of 24 ingredients from a list of 99 ingredients.

… and its radio control

Control the weighing from the tractor cab !

- Weight display
- Choice of the program (loading/unloading)
- Total or partial tare

QUALIMIX®

Paddle diet feeder

Independent cutting, mixing and feeding

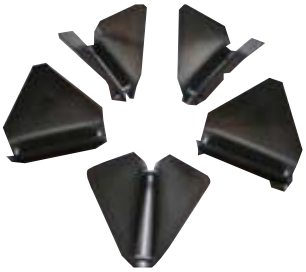
Your dealer accompanies you

Your dealer, as a LUCAS partner, is staying at your disposal to help you by using your machine and for its maintenance.
If necessary, the Lucas technicians intervene for your machine. Do not hesitate to contact them for :

Permanent greasing

- Permanent lubrication by splashing. For a good functioning of the machine, change the oil one time per year.

Your knives



- Maintain your knives for a good cutting !
  For a good functioning of the machine, turn over your knives when a side is worn ; when the two sides are worn, change your knives.

LUCAS Partenaire Agréé

Give a new youthful to your machine !

Your LUCAS approved dealer is staying at your disposal for renovating the machine before reselling it

For an optimal service of spare parts, we work with a stock :
For 95 % of the orders, the parts are dispatched at the latest the day following their receipt

Zootechnics

The Qualimix range is specially designed to bring a quality mixing in a minimum of time.

- The weighing system enables to have a precise feed adapted to your needs,
- Your feed is cut in strands between 5 and 8 cm within 2 to 7 minutes,
- You will have an aerated and appetizing mixture within 3 to 4 minutes.
- You can distribute 4 500 kg within 3 minutes
- 2% difference of homogeneity on 60 meters !

The feed quality allows to have cows in good health producing more.
With Qualimix®, you reduce your energy consumption : less than 5 liters / hour !

A zootechnical department stays at your disposal to help you : do not hesitate to contact us !

Demonstration

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

Please contact :

- your LUCAS dealer
- directly the firm LUCAS

- by mail **commercial@Lucasg.fr**
- or by phone **00 33 251654136**

LUCAS

QUALIMIX®

Paddle diet feeder

Independent cutting, mixing and feeding

SPECIFICATIONS

	PADDLE DIET FEEDER - FIBRE CONDITIONER	QUALIMIX®+ 150	QUALIMIX®+ 200	QUALIMIX®+ 150 AUTONOMOUS	QUALIMIX®+ 200 AUTONOMOUS
CAPACITIES	Mixing volume (m^3)	15	20	15	20
	Length and width of the curring area (m)	3,13 x 1,34	4,48 x 1,34	3,13 x 1,35	4,48 x 1,34
	Length and width of the mixing area (m)	4,5 x 2,15	6 x 2,15	4,5 x 2,15	6 x 2,15
	Unladen weight (kg)	6 100	8 500	7 470	8 100 to 10 000 according to the equipments
	Total loaded weight (T)	11	14 / 15	12,5	14,9 / 16,8
	Useful load DRIRE (T)	5	6 / 6,7	5	5,6 / 6,7
	Axle square	90	100 / 90	90	100 / 90
DIMENSIONS	Overall length (m)	6,53	8	6,53	8
	Overall height (m)	2,84	2,86 / 2,77	2,87	2,9
	Overall width (m)	2,55	2,55	2,55	2,55
	Width at the wheels (m)	2,4	2,4	2,43	2,4
	Loading height of fibres, open trap (m)	2,69	2,73	2,72	2,75
	Distribution height (m)	0,95	0,96	0,98	0,98
	Space swath / wheels (m)	0,40	0,40	0,40	0,40
	Feeding side	Left	Left	Left	Left
	Footing (Distance axle - coupling ring) (m)	4,5	5,1	4,2	5
TRACTION	Minimum PTO tractor power (HP) 160-200 bars	90	90		
	Double acting distributor	2 DA	2 DA		
	Oil flow rate (L/min)	15-45	15-45		
	Power of traction and braking telescopic or tractor.				according total weight
	Minimum PTO tractor power with emergency mode (HP)			90	90
	Power of on-board heat engine				Deutz 75 kw (=100 HP)
	Pre-established motor-speed				900-1300- 1600-2200 tours/min
	Average consumption of on-board motor			5 L/h	5 L/h
	Range (tank 150 L) for 3 mixings/day (h)			15 days	15 days
EQUIPMENTS	mixing area without knives	✓	✓	✓	✓
	A patented high cutting system	•	•	•	•
	Control in the cab	✓	✓	✓	✓
	Electric control in the cab	•	•	-	-
	Electric control in the cab with 2nd control station in front of the machine	•	•	-	-
	Remote control (25 m)	-	-	✓	✓
	Suspended draw bar with height adjustment	✓	✓	✓	✓
	Emergency kit	-	-	✓	✓
	Hydraulic stand	✓	✓	✓	✓
	100 HP Deutz motor	-	-	✓	✓
	Boggie axle	-	•	-	•
	Not programmable weighing	✓	✓	-	-
	Programmable weighing	•	•	✓	✓
	Weighing for uncoupled machine	•	•	✓	✓
	Mixing hopper for fluids and concentrates	✓	✓	✓	✓
	Paddle for farm mix	•	•	•	•
	System for whole bales	-	•	-	-
	Front left trap door	✓	✓	✓	✓
	Feeding flap magnet	•	•	•	•
	Conveyor elevator (up to 1,50 m height)	•	•	-	-
	Horizontal feeding conveyor (little ruminants)	•	•	-	-
	Operating mechanisms protected by shear bolt	✓	✓	✓	✓
	Permanent lubrication	✓	✓	✓	✓
	Standard tyres	15 R 22,5	3856/55 R 22,5 and 15 R 22,5	425/65 R 22,5	385/55 R 22,5 and 15 R 22,5

✓ *In series* • *Optional equipment* - *Not available*
TÜV homologation

CE All Qualimix® models comply with the safety norms

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