

WITH YOU EVERYDAY

LUCASG.COM

CASTOR®
BALE FEEDER STRAW BLOWER

CASTOR®
SILAGE LOADER BALE FEEDER STRAW BLOWER

CASTORMIX
SILAGE LOADER RECIRCULATING FEEDER STRAW BLOWER

> ALL FODDER



CASTOR RANGE



LUCAS 
FEEDING SOLUTIONS



WITH YOU EVERYDAY

For over 40 years and more than 40 000 bale feeders and straw blowers put into service, Lucas G innovates to make these machines an ally you can rely on. Bearing in mind the importance of animal welfare so they can give higher efficiency, the bale feeders and straw blowers Castor will accompany you day after day, year after year in the execution of these tasks.

Lucas G has based its reputation thanks to its range of bale feeders Castor well-known for its outstanding performance, these machines are able to feed and straw blow all materials, Regardless the length of strands and the percentage of humidity.

Today straw bales and silage bales are becoming increasingly dense and tight, and consequently more difficult to process. The unique design of our shredders combined to the mechanical drives ensures a steady work out put with these new trends of works.

According to the type of livestock, the size of the farm and its configuration, Lucas G has a wide range of bale feeders and straw blowers divided in 3 ranges of products:

CASTOR[®] : Bale feeder Straw blowers with loading rear door

CASTOR[®] : Silage loader Bale feeder Straw blower with silage claw

CASTOR^{MIX} : Recirculating Feeder Straw Blower

3 RANGES - 12 MODELS, 1 AMBITION: EFFICIENCY

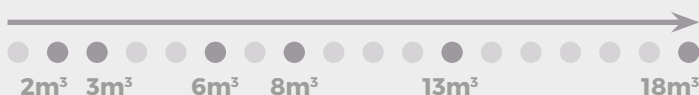
The range of bale feeders and straw blowers Lucas G is composed of 3 families of machines Castor R, Castor G and CastorMix with models from 2 to 18 m³. These machines are equipped with a common bloc (shredders, bed chain, turbine, and comb) which ensures efficiency and meet modern agriculture requirements.



CASTOR R

**FEEDER STRAW-BEDDER
ALL FODDER**

Loading bale with hydraulic rear door



CASTOR G

**SILAGE LOADER BALE FEEDER
STRAW BLOWER ALL FODDER**

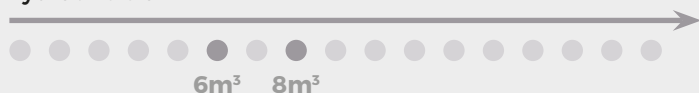
Loading and silage loading with hydraulic claw



CASTOR MIX

**RECIRCULATING FEEDER STRAW
BLOWER ALL FODDER**

Mixing through recirculating process and loading with hydraulic claw



THE CASTOR BLOCK, PERFO AT ALL LEVELS

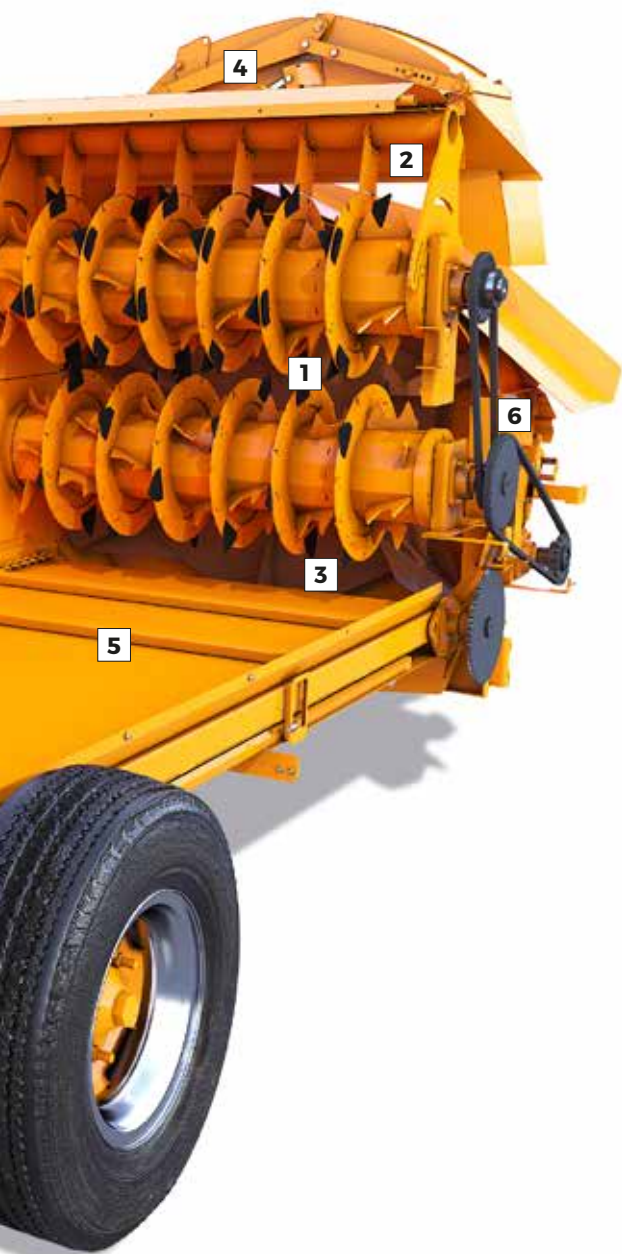
The different components of the Castor bloc forms a complementary set guaranteeing optimum straw blowing and distributing performances. Materials are rapidly distributed and processed while respecting the quality of used raw materials.



LUCAS G SKILLS

- 1 Shredder:** designed to process all kind of fodder even difficult ones (wet silage) it is fitted with 5 or 7 smooth discs and 48 knives which guarantee a clean cut of products. The paddles located between the discs bring the cut material to the turbine and avoid long strands to wrap around the shredder.
- 2 Hydraulic adjustable comb:** it regulates the flow of material in the turbine. In backward position for processing difficult product, in forward position to adjust the abrasiveness and the flow of straw blowing.
- 3 Two-speed welded turbine:** this piece has been designed in a single block. Equipped with 6 blowing paddles, the material is launched up to 18 m with lateral chute and 15 m with the Universal chute.
- 4 Blowing conduit:** its large width of 33 cm combined with the chute cut-off plate avoid jamming problems linked to the distribution of heavy and wet products.

PERFORMANCE



- 5 Bolt-on bed chain:** hydraulically driven, it has 9 moving speeds from 0 to 20 m/min. The speed is adjusted by the electrical control, the bed chain brings the material to the shredder. It can be moved forward or backward.
- 6 Mechanical drive:** the shredder is mechanically driven through chains equipped with shear bolts. The mechanical drive gives better power for fast bale processing.

V-SHAPE KNIVES

- Each shredder is equipped with 48 knives positioned in V shape
- Clean cut of the material
- Steady working output with all kind of fodder
- Fast bale processing



CUT-OFF PLATE

- Bevel edge plate located at the exit of the turbine, this piece ensures an exit of the material without jamming
- No jamming with wet material
- Guarantee a steady distribution and straw blowing



P A T E N T S
LUCAS 

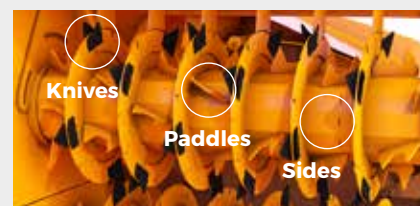
CASTOR R



The range of bale feeders Castor R is composed of seven models from 2 to 18 m³. These straw blowers are equipped with 1, 2 or 3 mechanical shredders, depending on their capacities. The main benefits of these bale feeders are that they have been designed to distribute all type of material, corn silage, grass, alfalfa, regardless the size of strand (short or long) and the degree of humidity.

SHREDDERS

	1 shredder	2 shredders	3 shredders
Useful width (mm):	1400	1400 / 1400	1640 / 1800 / 1800
Diameter (mm):	282 / 12 sides	282 / 282 / 12 sides	282 / 282 / 282 / 12 sides
Paddles	28	28 / 28	24 / 28 / 28
Knives	48	24 / 48	40 / 28 / 56



Useful width:



2 - 3 - 6 m³



6 - 8 m³



13 - 18 m³

THE SPRAYER

The addition of a sprayer* offers convenience of use while it limits the appearance of dust, adjustable nozzles are located at the flow outlet to prevent clogging of the chute when straw-bedding. It is possible to add soluble additives to the tank to sanitise the straw and guarantee a clean straw bed for the animals.

This system works simultaneously as the bed chain advances to avoid unnecessary use when the machinery is not straw-bedding. Located 1 m 10 above the ground, filling the tank and maintenance of the filter and pump are easy.

Number of adjustable nozzles	Capacity	Adjustable flow
Universal chute -U: 5	85 L	3,7 L / min (0 L à 7 L / min)
Lateral chute: 4	85 L	3,7 L / min (0 L à 7 L / min)



Steel protective housing

*Option available as a Kit for machines already in service



PERFORMANCE AND CAPACITY - CASTOR R

Castor R	20 R	30 R	60 R	60 R ²	80 R	134	185
Capacity (m ³)	2	3	6		8	13	18
Number of shredders		1		2		3	
Round Bale Ø 1,30 m	1	2	3	2	3	4	5
Round bale Ø 1.60 m	1	2	3	2	3	4	5
Round bale Ø 1.80 m		1		2		3	4
Round bale Ø 2 m		1		2		3	4
Square Bale 1.20 x 1.20 x 2.50 m			1			2	3
Square Bale 1.20 x 0.90 x 2.50 m		1		2		4	
Square Bale 0.90 x 0.90 x 2 m		1		2		6	

CASTOR G



The range of silage feeders Castor G is composed of four models from 4 to 8 m³ capacity. These machines are equipped with rounded claw to unload the silage and ensure a simple and clean load of silage, once loaded the distribution is made by the turbine. The silage unloader Castor G can be fitted with a mixing hopper for dry food.

LOADING PROCESS OF BALES





SILAGE LOADING PROCESS

To ensure a perfect silage loading, the feeders straw blowers Castor G are standard equipped with 3 complementary parts:

SILAGE LOADING CLAW

Reinforced by a tubular frame to guarantee an improved life time of the claw. Its rounded design fits perfectly the tank shape for a better seal.

INFERIOR BLADE

Designed for a perfect catch on the silo, it is equipped with a wear blade for improved life time

U-SHAPE REINFORCEMENT

Naturally reinforced thanks to a U frame strengthener, the tank keeps its shape while silage loading applications.



PERFORMANCE AND CAPACITY - CASTOR G

Castor G	45 G	53 G	60 G	80 G
Capacity (m ³)	4.5	5.3	6	8
Number of shredders		1		2
Silage loading height (mm)	3000 mm	3670 mm		3500 mm
Round bale Ø 1.60 m			2	
Round bale Ø 1.80 m		1		2
Round bale Ø 2 m		0		1
Square Bale 1.20 x 1.20 x 2.50 m			1	
Square Bale 1.20 x 0.90 x 2.50 m			1	
Square Bale 0.90 x 0.90 x 2 m			1	

CASTORMIX



The range of recirculating mixers feeders and straw bedders Castormix is composed of two models from 6 to 8 m³. These machines are equipped with rounded claw to unload the silage. The recirculating mixers Castormix are versatile machines to achieve all feeding applications, the mixing of the ration by recirculating, the distribution of the ration and the straw bedding of livestock buildings with only one tractor. Regardless of the type of materials used for the ration, hay, grass silage, corn silage, alfalfa..... the ration will be prepared efficiently.

PERFORMANCE AND CAPACITY - CASTORMIX

Castormix	60 Mix	80 Mix
Capacity (m ³)	6	8
Number of shredders	1	2
Equivalent dairy cows	30 - 40	40 - 50
Silage loading height (mm)	3000	3670
Round bale Ø 1.60 m		2
Round bale Ø 1.80 m		2
Round bale Ø 2 m		1
Square Bale 1.20 x 1.20 x 2.50 m		1
Square Bale 1.20 x 0.90 x 2.50 m		1
Square Bale 0.90 x 0.90 x 2 m		1

RECIRCULATING MIXING PROCESS

The recirculating process dispenses to the animals a simple mixed ration to avoid the separation of the silage and the fibre by the cows. Once the machine loaded thanks to the silage claw or the tractor loader, it is sufficient to propel the material into the mixing canopy to make the ration.

The order of loading ingredients is critical to make an homogeneous ration, it is advised to start loading the fibre then the silage.



COUPLING AVAILABLE ON CASTOR ^R / CASTOR ^G / CASTOR MIX



ARTICULATED COUPLING

Standard on the major part of the range, the coupling will make the machine follow the wheel of the tractor.



FIXED COUPLING

Standard on machines with capacities over 8 m³, this coupling can be adjusted up and down on 3 positions.

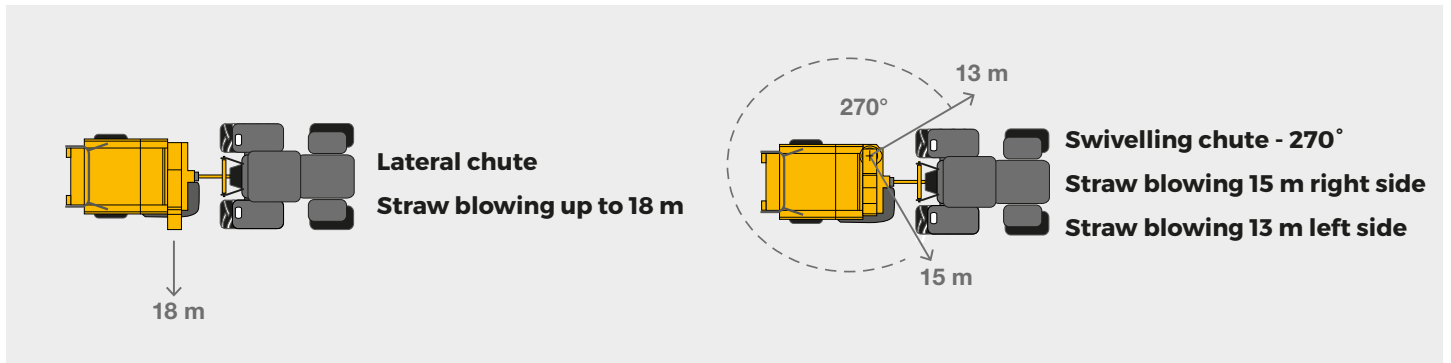


3 POINTS COUPLING

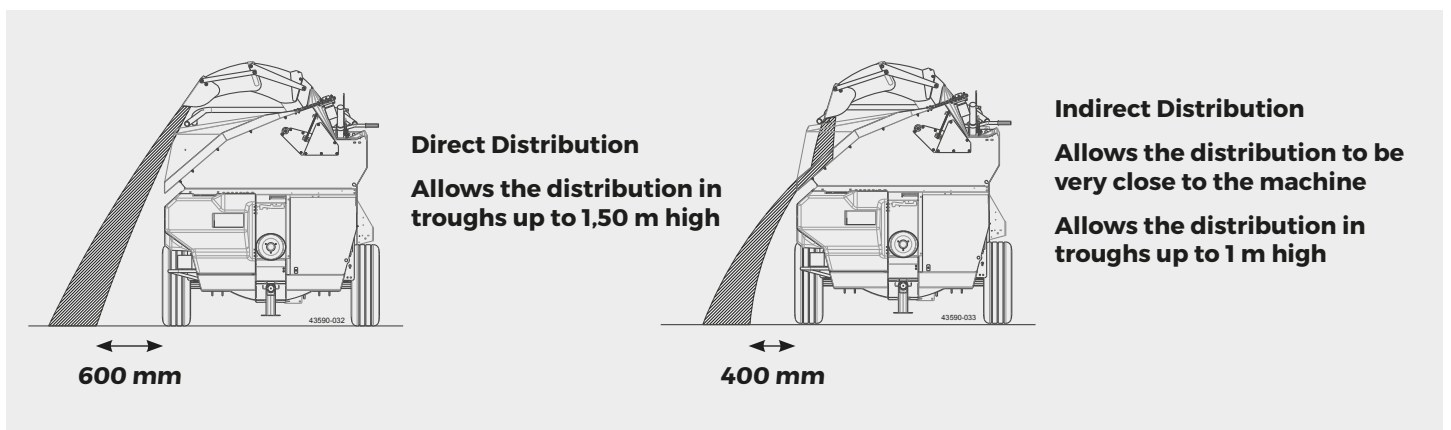
This hitching is used on mounted machines - Castor 20 R

STRAW BLOWING, DISTRIBUTION AND CONTROLS

STRAW BLOWING PERFORMANCE



PERFORMANCE OF DISTRIBUTION WITH THE UNIVERSAL CHUTE



ELECTRIC CONTROL AS STANDARD*



*Except Castor 134 / 185 - Manual control as standard

systemX

WEIGHING SYSTEM

To measure the costs of the distributed rations, the bale feeder Castor R - G & Mix can be fitted* with a weighing system. The device will give depending on the chosen model to weigh ingredients, know the quantities distributed and adapt easily the fluctuation in number of animals. A system of tare or skipping ingredients remotely is also available.

*Except Castor 20R, 45G, 43G



A SELECTION OF OPTIONS



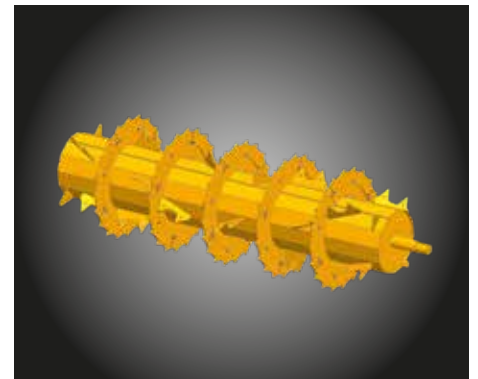
Swivelling chute - 270°

Straw blowing 15 m right side / 13 m left side



Extended universal chute

For a distribution very close to the machine. Extended central part 400 mm



Polyfeed shredder

Shredder with toothed discs used for straw on short strands only



2nd control unit

Control of rear door to save time when loading.



Self-loading rear door 1200 kg

Door equipped with a 2nd cylinder to load heavy bales (grass)



500 L Mixing Hopper

System that integrates dry nutrients that will be distributed with the silage



CASTOR R

Standard Equipments

- Lateral chute for feeding and straw blowing
- Mechanical shredder with V blades

- Hydraulic comb (except Castor 20 R)
- Two-speed gearbox
- Hydraulic loading rear door
- Electric control Comfort (except Castor 134 & 185)

Model	20 R	30 R	60 R	60 R ²	80 R	134	185
Capacity (m ³)	2	3	6		8	12	18
Number of shredders		1			2		3
Distribution height with lateral / U chute (mm)	820 / 1102	970 / 1500			1010 / 1300		1243 / 1460
Straw-bedding height with lateral / U chute (mm)	1185 / 2947	1600 / 2500			1880 / 2500		2046 / 3430
Straw-bedding distance with lateral / U chute (mm)			18 / 15 m (right side) - 13 m (left side)				
Overall height with lateral / U chute (mm)	1952 / 2396	2070 / 2430	2110 / 2460	2250 / 2500	2250 / 2880		2855
Overall width with lateral / U chute (mm)	2105 / 1856	2210 / 1980	2270 / 2120	2090 / 2750	2500 / 2300		2550
Overall width at wheels (mm)	-	1980	2120	2090			2380
Overall length of door Open/Closed (mm)	4250 / 2770	5360 / 3770	7000 / 5410	5890 / 4790	7550 / 5970	8830 / 7455	10230 / 8855
Useful length (mm)	1400	1450	3080	2300	3650	4200	5600
Tractor Power (HP)		65			70		80
Oil flow min / max (L/min)	30 / 60			15 / 45			
Pressure (bars)				160 / 200			
Unladen weight (kg)	1600	1970	2600	2800	3040	4600	5100



CASTOR G

Standard Equipments

- Lateral chute for feeding and straw blowing
- Mechanical shredder with V blades

- Hydraulic comb (except Castor 60 G)
- Two-speed gearbox
- Rounded silage unloading claw
- Electric control Comfort

Model	45 G	53 G	60 G	80 G
Capacity (m ³)	4,5	5,3	6	8
Number of shredders		1		2
Silage loading height (mm)	3000	3670	3500	
Distribution height with lateral / U chute (mm)	1050 / -	1050 / 1400	1300 / 1500	
Straw-bedding height with lateral / U chute (mm)	1740 / -	1600 / 2400	1890 / 2500	
Straw-bedding distance with lateral / U chute (mm)	18 / -	18 / 15 m (right side) - 13 m (left side)		
Overall height with lateral / U chute (mm)	1880 / -	2020 / 2300	1980 / 2330	2050 / 2350
Overall width with lateral / U chute (mm)	2300 / -	2330 / 2150	2390 / 2310	
Overall width at wheels (mm)	2100	2150	2310	
Overall length (mm)	3800	4640	5090	5840
Useful length (mm)	1650	2450	2970	3770
Tractor Power (HP)		50	65	70
Oil flow min / max (L/min)		25 / 40		25 / 45
Pressure (bars)			160 / 200	
Unladen weight (kg)	1740	2400	2600	3300





CASTORMIX

Standard Equipments

- Universal chute for feeding, mixing and straw blowing
- Mechanical shredder with V blades

- Mixing canopy
- Hydraulic comb (except Castor 60 G)
- Two-speed gearbox
- Rounded silage unloading claw
- Electric control Comfort

Model	60	80
Capacity (m ³)	6	8
Equivalent dairy cows	30 - 40	40 - 50
Number of shredders	1	2
Silage loading height (mm)	300	3760
Distribution height with lateral / U chute (mm)	1500	
Straw-bedding height with lateral / U chute (mm)	2500	
Straw-bedding distance with lateral / U chute (mm)	15 m (right side) - 13 m (left side)	
Overall height with lateral / U chute (mm)	2330	2350
Overall width with lateral / U chute (mm)	2310	
Overall width at wheels (mm)	2310	
Overall length (mm)	5090	5840
Useful length (mm)	2970	3770
Tractor Power (HP)	65	75
Oil flow min / max (L/min)	20 / 45	
Pressure (bars)	160 / 200	
Unladen weight (kg)	2870	3300

EASY TO MAINTAIN

To ensure an optimal performance of the machine and keep maximum efficiency as in the first days, it is necessary to ensure a small amount of maintenance to the bale feeders. A yearly maintenance will enable your machine to increase significantly its lifetime while keeping high working output.



Curved cutting knives to preserve the abrasiveness of the shredder



Hydraulic filter to keep high efficiency of the machine.



Totally bolt-on bed chain for an easy maintenance



R&D, AFTER SALES SERVICE, SPARE PARTS: THE SPIRIT OF SERVICE EVERYDAY



Your LUCAS G. dealer

LUCAS 
FEEDING SOLUTIONS

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