

## Broiler pan feeding system

In the current competitive poultry industry, every poultry grower is looking to increase their production efficiency. The Agromax Pan Feeding System helps to achieve excellent feed conversion, has reliable operation and ensures more profits with its many advantages.

A fast distribution of fresh feed (350 kg/hour) over the entire line ensures uniform growth for all birds.

To meet the different requirements of each broiler grower Agromax offers a selection of **feeder pans** to choose from:

- Model Agro M range : available with 14, 10, 4 grill

14 grill birds cannot enter pan after 2 weeks  
10 grill birds cannot enter pan after 3 weeks, ideal for heavy broiler  
4 grill birds cannot enter pan after 4 weeks

The deep 'V' shaped pan bottom allows feed to be reached easily by birds while maintaining a low feed level. Pan comes with three large feed windows for better pan flooding.

Agro M3  
14 grill



Agro M31  
10 grill



Agro M34  
4 grill



- Model Agro G :

Grill-less pan, it allows the birds to easily reach the feed during the first days, low pan height (55mm), a feed level adjuster which also divides the feed pan in compartments.

Whole feeder line can turn with feeder pans, make it easy to wash/clean the pans.

Agro G3  
Grill-less



Both feeder pan models feature :

- Feed windows, when the pan rests on the ground, it's windows open automatically and fill up the pan, which lowers labour costs.
- Adequate feed level and easy access ensures enough feed for starting day old chicks and ability to adjust the pan to low feed level later to avoid wasting feed as the birds grow.
- The pan has different settings to choose your desired feed level with just a simple twist and makes feed management easier and ensures only fresh feed is available to the birds.
- The feeder pan is made of high quality synthetic material which is very resistant to UV. And also resistant to all disinfectants and cleaning products used on farms, giving a long and trouble-free life.
- The pan is easy to mount, dismount and clean.



**Agro M3**



**Agro M31**



**Agro M34**



**Agro G3**





**The system features :**

**Feed hopper:** available in 2 versions, Metal and plastic

Metal hopper: with capacity of 100, 150, 250lt. (60, 100, 150 kg) with stainless steel boot.

Plastic hopper: with stainless steel boot capacity 140lt (80 kg) advantage: comes in one piece so no need to assemble, High quality polypropylene plastic, light weight, will never rust or dent, 60-degree hopper slope and smooth interior surface improve feed flow, very easy to clean,

For both metal and plastic hoppers, The top hopper part can be easily removed for clean-out.

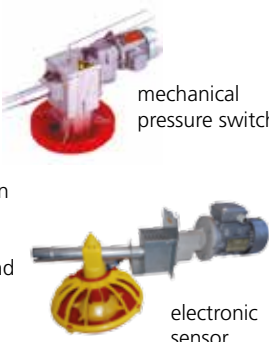


**Drive unit:** available in 2 versions, with mechanical pressure switch or electronic sensor.

extremely compact, including mechanical pressure switch or electronic sensor for maintaining feed level in the last pan. Allowing automatic operation.

The highly efficient gear motor drive is designed for consistent operation and uniform feed distribution.

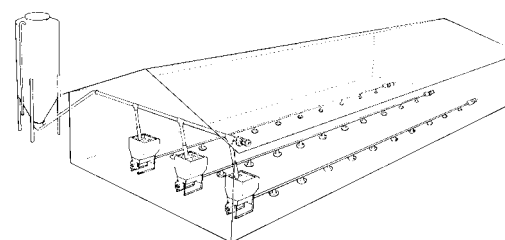
Drive unit has a 0.55 kw/0,75 Hp motor, gear motor, -sealed to IP55- and featuring a built-in limit switch.



**Feeder tube :** Made of heavy-gauge steel for longer tube life. Every tube section is carefully swaged at one end for smooth joints. Galvanised tube diameter is 44,45 mm, thickness 1 or 1.2 mm tube length is 305 cm. The tube has 2, 3 or 4 holes every 1,5 m, 1m or 75 cm.



**Auger :** is made of heavy gauge tempered steel, An anti-perch line of galvanized steel cable prevents birds from standing on the tube



**Feeder line suspension :** The pan feeding system can be completely raised. The tube with hopper and drive unit is suspended from the ceiling and can be raised by a winch (manual or electrical ), placed in the middle of the house, in order to allow an easy adjustment and fast lifting at end of flock for floor cleaning.



**System calculation**

Number of birds per pan:	Moderate climate: 80 broilers per pan
	Hot climate: 65 broilers per pan
Number of feeder lines per house	< 12m            2
	12 up to 15 m    3
	for every 3m wider add one extra line

## Broiler nipple drinking systems



Agromax nipple drinking system is the ideal drinker for your poultry, maximizing the profitability of your poultry farm, it is easy to install, operate and to manage.

- Agromax nipples are manufactured of highgrade stainless steel and are extremely wear-resistant for maintenance free operation.
- Agromax nipples are available with high and low waterflow editions with or without dripcup, the litter stays dry and guarantees excellent hygienic conditions.
- The "Feather-soft" operation of the nipple guarantees an excellent start of day-old chicks.

### The system consists of:

A 3 m long **drinking element** which is supplied pre-assembled, these elements are then coupled together according to the length of the house resulting in a considerable saving on installation time and cost.

### Nipple options:

Topcombi nipple  
Plastic body with stainless steel valve



Combimaster nipple  
Large lower pin allows delivery of larger droplets, softer pin make it easy for day-old chicks  
Lower throat inside the nipple for easier pipe cleaning



Top nipple  
Complete stainless steel



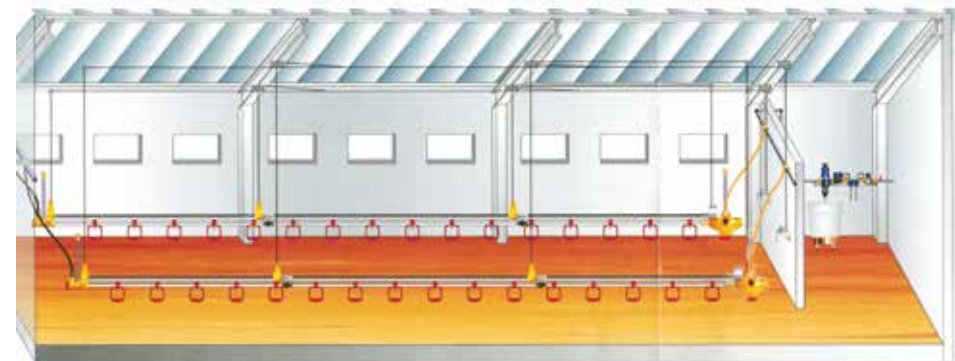
J-Lock nipple  
Plastic body with stainless steel valve



With the **pressure regulator** in front up to 60 meters or in the middle up to 120 meters it keeps the water pressure constant and the birds always have enough water.

The **flush breather** at the end of each line allows easy control and quick flushing of the line.

The drinking line is suspended by hangers which are simply hooked onto the aluminium rail or round galvanized pipe at 3 m intervals.



The suspension line is fed through a ceiling pulley and connected to the central hoisting cable, this cable passes the entire length of the house to the hand winch, thus permitting an easy height adjustment of the drinking line. An electrical shocker wire or a double wire is used with breeders or layers as a perch protection.

The height of the drinking lines and the height of the water column are very important to ensure that birds get adequate water requirements without any water spillage.

We offer two types of nipples

Low flow nipple: 35-45 ml / minute

High flow nipple: 70-90 ml / minute

### Number of birds per nipple

Broiler:	10-12 birds / nipple (low flow)	15-18 birds / nipple (high flow)
Layers:	6-9 birds / nipple (low flow)	9-12 birds / nipple (high flow)
Breeders:	5-6 birds / nipple (low flow)	7-9 birds / nipple (high flow)

For hot climate we calculate 20% more nipples

### Number of lines:

One drinking line every 2,5-3,5 meter width of the house and with always one more drinking line than feeding line.



## Water pressured dosing pumps

The dosing pump operates by using the flow of water as the power source. The water activates the pump, which takes up the required percentage of concentrate directly from the container and injects it into the water. Inside the pump, the concentrate is mixed with the water, and the water pressure forces the solution downstream. The dose of concentrate will be directly proportional to the volume of water entering the pump, regardless of variations in flow or pressure, which may occur in the main line.

Available in 2 versions , 02-2% and 1-5%



### Applications:

Medication (antibiotics, etc.)	Dispensing supplements (minerals, vitamins, etc.)
Vaccination through drinking water	Cleaning and disinfecting watering systems, water treatment
Acidification	Fogging, spraying (odor control, disinfecting, descaling of nozzles, etc.)

## Electrical dosing pump

E-Dos: Electrical doser

Precise dosage

Adjustable dosing relationship in dependence of the flow rate

Digital flowrate indication of current water consumption

Measurement and dosage with highest accuracy

Very easy to handle

High consistent against many acids

Long-living

Available in 4 models.

E-Dos 1 , 3/4" connection , 6-2500l/h 15l/h 1,5% E-Dos 1 , 1" connection , 6-4000l/h 30l/h 1,5%

E-Dos 2 , 3/4" connection , 6-2500l/h 15l/h 3% E-Dos 2 , 1" connection , 6-4000l/h 30l/h 3%



## Main water supply

The main water supplies from Agromax incl. all components which are needed for an optimal water supply:

- The water-meter
- The pressure reducing valve
- The water filter
- The medicator

These single components are interconnected by flanges and allow an easy and fast exchange of the components.

For fast and problem-free installation and removal in the house all components are fastened on a galvanized metal bracket.

The main water supply is available in different versions and with different water powered or electric dosing pumps.



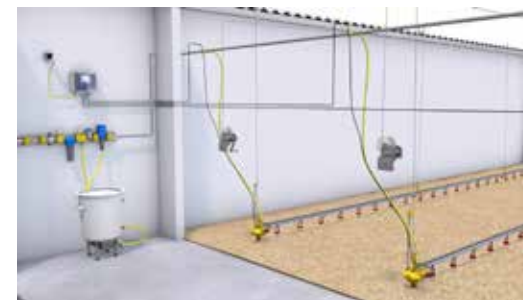
## Medicine mixer

The medicine mixer from Agromax is ideally suited to prevent separation of the mixed preparations. The air-cooled circulation pump guarantees a thorough regular mixing without damaging the preparations. The built-in floating valve ensures complete consumption of the preparations, and an automatic rinsing of the medicator after the medication has been used up.

Available in 2 version 60 and 150 letter



## Automatic Flushing system



### Lubing Touch Control LCW.

With the controller, the following values can be adapted to your individual needs:

The duration of the flushing process.

The flush duration time has to be adjusted depending on the length of the drinking line.

The start time of flushing. Each drinking line is flushed separately.

With the Lubing Touch Control LCW up to 10 drinking lines can be automatically flushed.

The flush functions can be adapted to individual needs in the menu.



### Optima E-flush

The pressure regulator Optima E-flush is preassembled and with mounting of the actuator ready for automatic flushing.

With the new developed flush valve for the pressure regulator and the actuator is everything prepared for the automatic flushing. No other attachments are needed.

The actuator is supplied from the controller with the required voltage of 24V DC.

The actuator opens and closes the flush valve in the pressure regulator. During a power failure the drinking line can be flushed by hand.



### Flush breather unit

At the end of each drinking line a flush breather unit is installed. The valve of the breather unit will be closed by the flushing water pressure.

The flush breather unit works fully automatic and the breather valve will be closed by the water pressure during the flushing process.



## Breeder drinkers



### Nipple drinker

Top nipple, completely stainless steel, high flow with cup  
 Low flow without cup  
 J-Lock nipple low flow without cup  
 Combimaster nipple with or without cup

The nipple line comes with double wire as anti-perch,  
 or one wire with shocker, or with roller bar.



### Bell drinker

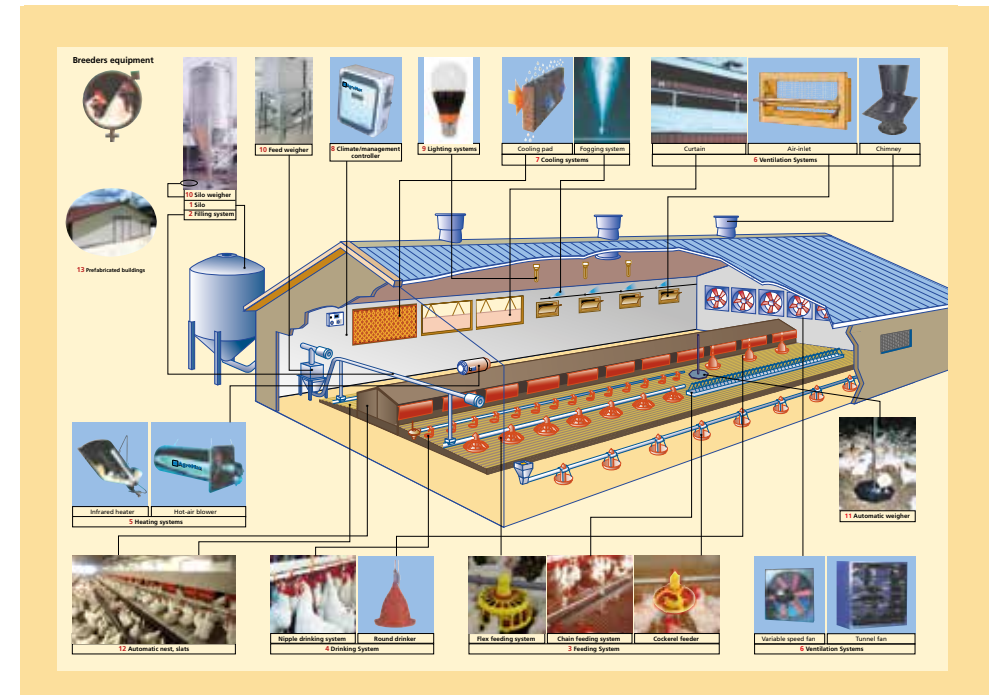
#### Jumbo Drinker



#### Plasson drinker



## Breeder equipment





## Chain feeding system

Chain feeding is a proven method for consistent, efficient feeding. AgroMax Flat Chain Feeder moves feed around the complete circuit within minutes.

The entire flock has equal access to the same feed. It evenly distributes feed with low stress to the birds resulting in healthier birds, more uniform bird size, as well as financial savings from less wasted feed.

Agromax Flat Chain Feeder is designed for easy maintenance. Routine service can be performed by the farmer, saving the cost of service personnel.

Agromax chain feeder is built from industry standard components and is compatible with other chain feeders. Agromax can provide you with replacement parts to fit most chain feeders, including chain, couplers, troughs and corners.

The Chain feeding system can be supplied in two versions, standing and suspended.



Suspended versions recently gained popularity due to the following advantage as:

After feeding system can be raised giving maximum floor area to the birds.

Feed distribution can start while the feeding systems are still raised allowing for a simultaneous feeding of the birds.

Easy house cleaning, no need to break the system since it can be easily raised.



## System Features:

### Drive unit:

The chain direct drive is separate from the feed hopper so it can be placed in any position along the chain circuit.

Drives available for 1 or 2 lines and with speed of 12, 18, 36 and 18/36 m/m versions

Solid housing and reversible chain wheel guarantee trouble free operation.

Drive supplied with height adjuster for standing versions or anti-perch hanging connector for suspended versions.

### Corner:

Solid housing for trouble free operation, self-lubricated synthetic bush to allow a maintenance free operation thus no lubrication needed, solid chain guide rail is made out of hardened steel. Supplied with legs for standing chain and hanging hook for suspended version.

Available in 90, 130 and raising/falling versions.

**Feed chain:** made of high quality steel.

### Feed trough:

With special width and shape to guarantee that the birds do not disturb each other when feeding and prevent feed wastage

Available in 2 versions: normal trough for broilers and pullets and medium through for breeders and layers.

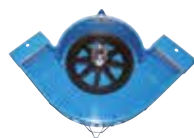
Trough hangers: available in different versions.

**Trough coupling:** Available for normal and medium trough and for both standing and suspended versions.

**Legs for corner and trough coupling:** Available in hot galvanised steel and stainless steel .

**Grill:** male restriction grill available in normal and anti-perch versions and in 43 or 44,5 /60 mm modules ( other versions also available).

**Accessories:** feed cleaner, chain tensioner, chain breaker, chick saver



### Hoppers:

Supplied in several versions

Standard hopper

1 line 180L with extension 220L

2 lines 220L with extension 270L

3 lines 350L with extension 420L

Supplied with legs for standing version.

With hooks for suspended version

Mini hopper

1 line 50L extension 260L

2 lines 70L extension 260L

X-box flexhopper

1 line 50L

can be mounted any place in the chain feeder line, right or left by exchanging position of feed intake plate and feed level adjuster and turning the wheel.

Boot hopper

for direct feeder line filling

Hanging hopper

Galvanised steel or storage bag,

for 1 line 500L

for 2 lines 1000L

also different capacities on request

For suspended version all hopper versions can be filled with telescopic tube

### Winching system:

For daily lifting with tube

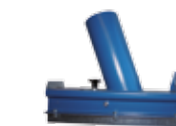
For periodic lifting with cable

Both can be connected to automatic level switch

**Inventor/frequency regulator:**

Motor protection

Available in different models





## Breeder feeder pan (with adjustable grill)



### Agro BB breeder pan feeding system

Agro BB distributes equal amount of feed simultaneously to all pans all over the house resulting in perfect uniformity during rearing and production

Winching the system up after eating allow the birds to use the maximum floor space this increases flock fertility and limit floor egg number and also get easy access to the nest,

Agro BB feeder pan can be used from day old , the special 3 feed windows (1) guarantees a high level of feed during the first days. Day old chicks can enter and leave the pan easy and get enough access to feed providing good start of the flock and perfect uniformity .

A 360 degree flooding mechanism ensure a high feed level in the pan for day-old chicks

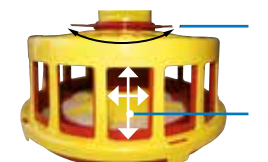
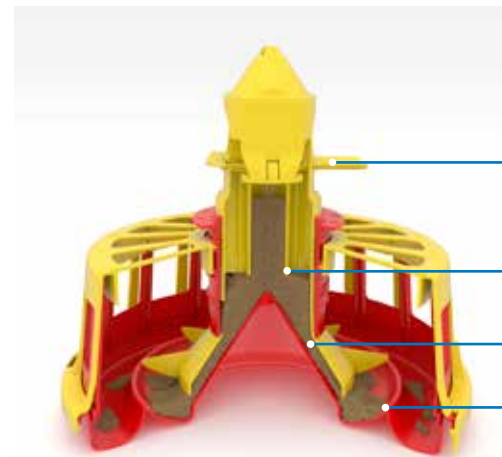
After the brooding period feeder circuits or straight lines can be winched up until feed windows close and feed flows into the inner pan from underneath the feed cone

The special pan design with inner and outer pans (2) prevent feed wastage since the outer pan catches the feed from the inner pan and this eliminates feed waste and allow the birds to eat all the feed.

Special insert on the tube (3) prevents the pan from swinging in this way keep the feed centered in the pan

A 360mm diameter pan with 16 feeding space allows high stocking density in the house

Special female only grill (4) allow perfect separate sex feeding, the grill allows for adjustment from 40 to 50mm in 9 feeding windows widths to prevent broiler breeder male from using the pan during whole production period , the grill is also suitable for all breeds, the collar of the grill get 3 window heights ( 80,70,60mm ) this make the pan deeper to suit each breed and also reduce feed wastage.



Easy adjustment of feed level to 8 positions (5)

The cone has special anti-spill wings

An easy shut off slide allows for closing of individual pans (6)

Integrated volume reducer (7) allow dispensing small feed amount in each pan so all pans can be filled quickly.

Pan is for 14 - 16 birds.

Upper grill opening delivers more light and air to birds while they eat.

The circulating loop/circuit maintain the feed ration in the feeder tube until feeding time to present identical quantity of feed for each bird

Agro BB control pan together with feeder control fill feeder loop at the end of each feeding to ensure feed availability for next time the feeder runs.

Elevated feeder pipe gives enough freedom of movement for the birds

High capacity auger provide fast and even feed distribution in every pan in circuit or straight line

Winching also makes it easy cleaning between flocks

Easy cleaning of system after every flock.

Feeder pan easy to assemble and disassemble for perfect cleaning.

The pan is made of first quality plastic UV-stabilized, resistant to all cleaning and disinfection material.





## Breeder rearing feeder



### Agro BR breeder rearing feeding system

A uniform flock and all hens of the flock reaching laying maturity at same time is the main aim of broiler breeder rearing house. This can be achieved if birds have sufficient feed space and all pans filled simultaneously and birds receive same amount of feed

Agro BR feeder pan can be used from day old to 20 weeks, the special 3 feed windows proved a high level of feed during the first days. Day old chicks get into and out the pan easy and get enough access to feed providing good start of the flock and perfect uniformity

A 360 flooding mechanism ensures a high feed level in the pan for day-old chicks  
14 arm grill ( or 10 ) create individual feeding space, anti-spill wings divide the inner pan in separate feed compartment this give birds equal feed amount/chance (avoiding selective eating)

By lowering the entire circuit / straight line to the floor the pan is put in litter, the Low pan offer day-old chicks easy access to the feed and easy move in and out of the pan, this gives birds excellent start and perfect uniformity

The central bottom pan cone with inner/outer pan shape reduce the amount of the feed in the pan and this allows same quantity, simultaneously in all pans all over the house. This allow to distribute small amount of feed in whole house from first day of feed restriction.

After feed restriction feeder circuit / lines are winched up the feed windows in the pans close automatically and the feed enters in the bottom of the inner pan



Integrated volume reducer allow dispensing small feed amount in each pan so all pans can be filled quickly.

The adjustable ring with 8 setting regulate the desired amount of feed per pan to balance the eating speed of the birds during growing period this is ideal for obtaining perfect uniformity.

Pan is for 12 - 14 birds.

High capacity auger provide fast and even feed distribution on every pan in circuit or straight line.

Elevated feeder pipe gives enough freedom of movement for the birds

Agro BR control pan together with feeder control fill feeder loop at the end of each feeding to ensure feed availability for each time the feeder runs.

Easy cleaning of system after every flock. Feeder pan easy to assemble and disassemble for perfect cleaning.

The pan is made of first quality plastic UV-stabilized, resistant to all cleaning and disinfection material.

