



AUTOMATED FEEDING MACHINE

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Product Description

Penerangan Produk

Automated feeding machine was invented to feed poultry livestock automatically. This machine feeds livestock with food and water twice a day, morning and evening. The quantity of food and water is controlled by programmable logic controller (PLC) system. The food quantity is measured using food wheel and then it will be blow and spread using the blower fan. Meanwhile, using solenoid valve, water is allowed to flow through a modified PVC piping system at certain quantity and time. Based on PLC hardware setup and programs, the machine's routine works efficiently and provides accuracy at the output quantity and time.

Eco- Friendly Aspect

Aspek Mesra Alam Sekitar

- Elimination of waste of pellets being spread (reduce flies at redundant pellet)
- Elimination of stagnant water potential for mosquito breeding place.

Problem & Causes

Masalah & Punca

- High cost to hire manpower
- Unhealthy life livestock
- The waste of food and water
- Limited pellet distribution area
- High cost feeding machine (only food operation)

Application & Market Potential

Aplikasi & Potensi Pasaran

We are confident on the machine marketability because of its capability to solve many problems in livestock industry. This machine solves the main problems which are to reduce the cost of manpower, yet increase the livestock healthy by feeding clean water. Based on its low development cost (below RM4K), the *Automatic Feeding Machine* also can be commercialized for the small poultry industries or even to an individual usage.

Furthermore, this project is universal and marketable which it can also be used for pets industry. Pet's owner enjoy their leisure time without worrying about their pets meal.

Originality & Novelty

Keaslian & Novelti

From observation on problems in livestock industry, we invented a machine that capable to supply food and water to the poultry livestock systematically and automatically. This is the first machine that capable to solve all the problems stated before. The machine offers advantages in small size and low cost, yet can be used for individual or private sector, and also can be expended to companies.

