



Process Description

The AQU-RACY® dosing unit was developed by Aquafil Engineering to meet the high requirements of the Bonazzi Group. All factories of the group are working with AQU-RACY® for dosing of chips to different applications. Since the successful launch in Bonazzi Group production, Aquafil Engineering has sold the AQU-RACY® dosing unit all over the world.

The AQU-RACY® dosing unit can be used in general for all kind of granules. Most of the customers are using the dosing unit for Masterbatch chips (color, antistatic, GF, TiO₂).

Advantages

Aquafil Engineering dosing unit (AQU-RACY®) has the following process features:

- Gravimetric dosing, chips dimension not as critical as in volumetric dosing
- Gas tight dosing unit, required for operation under nitrogen blanking
- Standard material for product contact and housing is stainless steel
- No moving or rotating parts - no maintenance required, no danger of screw break or jamming
- Simple control system with touch screen
- Data transfer to other process section with interface connection (optional)

General features using a masterbatch system:

- Only basic polymer has to be stored and conveyed, product modifications are made at the single spinning extruder by adding the master chips
- High production flexibility, product changes can be made at once
- Larger variety of products can be produced in a simple way
- Low waste while changing the product, easy to drain, easy to clean
- Small quantities of special products may be produced
- Environmental friendly compared to other colorations methods

