




AGRICULTURE AND FOOD DEVELOPMENT AUTHORITY

The Irish Agriculture and Food Development Authority

Meal Bins

- Flat and Corrugated – 12mm or 25mm
- Pipes - one inlet pipe and one or two venting pipes or split bin- 2 inlet pipes and 2 venting pipes
- Bridging control
 - Vibrating motor - too much leads to packing
 - Fan - air cannon
 - Magnetic pulse
 - Bar with chains attached to auger/expensive



Not used for
in-parlour
feeding

Meal Bin in Kildalton with air cannon
bridging control, unloading auger and one
inlet pipe and two venting pipes

Bins and Flexi-augers

- Flexi - auger diameters
 - 55mm poultry,
 - 75mm pigs/dairy,
 - 90mm high output/beet pulp nuts
- One flexi-auger can have one 90° and one 45° bend
- The bin must be at least 1.5m beyond the nearest meal trough (front or rear)

Flexi-augers

- Minimum bend radii
 - 45⁰ and 0.75m radius
 - 90⁰ and 1.5m radius
- Options for bringing it into the parlour
 - Two separate lines are better than one
 - less wear and tear
 - less electrical work
 - less noise/more efficient/flexible

Bins and Augers

- Release some meal 5 minutes after filling to help prevent bridging - nuts may be warm
- Slides to shut off parlour hoppers
- First and last - which fills first?
- Bin angles
 - 60 deg. - nuts
 - 65-70 deg. coarse ration
 - 70 deg. full fat soya
- Warm nuts will bridge - molasses sticks them together

Big high level bins

- Hexagonal with 5' flat sides 2.5 tonnes per ft. ht.
- 12' across the flat and 13' across the diagonals
- 30' high
- Mc Keown's, Bailleboro
- Price ?

Molasses

- 3000 diet feeders (in 2000) - 40% use molasses – according to industry sources
- Brochure and information pack available from Premier Molasses, Harbour Rd, Foynes, Co. Limerick - contact person - Eamonn Byrne, 069 65311 or www.indigo.ie/premiermolasses/
- Every 5°C drop in temp. doubles viscosity
- 156 gals/tonne - 73% DM - s.g 1.4 (range 1.35-1.45)
- Premier gets it at 78-80% DM
- Storage and filling systems
 - pump - tank on/near ground
 - gravity flow - over top or in unloading door in diet feeder
 - gravity flow into loader bucket is messy
 - purpose built tank c/w stand and proper valve
 - 100mm or 125mm pipe and valve for gravity flow system