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DESCRIPTION

This unit is designed to introduce the students in different aspect of solids behaviour, unit operations as size reduction, mixing, transport, discharge, weighing, etc.

The unit consists on a bench on which are mounted several experiment elements: ball mill, shaker and sieves, V-blender, ejector, cyclone, rotary cylinder, balance, etc.

Operations object of study and the elements used for it:

- Size reduction: Ball mill with various sizes of balls.
- Analysis of grain measure by sieve: vibratory sieve and other sieves.
- Solids blending: V-Blender.
- Solids conveyor: Pneumatic conveyor.
- Solids separation: Cyclone.
- Solids storage: Rotary cylinder.
- Solids unloading: Hoppers and collecting tray.
- Solids properties: Graduated test tube.
- Solids weighing: Balance (scale).



ISO:9001-2000 Certificate of Approval. Reg. No. E204034



European Union Certificate



Certificates ISO 14001: 2004 and ECO-Management and Audit Scheme (environmental management)



Worlddidac Quality Charter Certificate Worlddidac Member

EXERCISES AND PRACTICAL POSSIBILITIES

Some Practical Possibilities of the Unit:

- 1.- Sieving techniques.
 - 2.- To determine the angle of repose.
 - 3.- Study of size reduction.
 - 4.- Classification study according to the size.
 - 5.- To determine bulk solids parameters of density.
 - 6.- To use the hopper to measure solids discharge rates and relate to initial load and hopper exit orifice size.
 - 7.- Cyclone operation. Solids separation.
 - 8.- Pneumatic conveying.
 - 9.- To observe the comminution of granular solids processed through a ball mill.
 - 10.- Study of solids mixing.
 - 11.- Study of the solids properties.
 - 12.- Solids weighing: Balance.
 - 13.- Study of the apparent density.
- Other possible practices:
- 14.- Mixer operation.
 - 15.- Sieves operation.

REQUIRED SERVICES

-Electrical supply: single-phase, 220V./50Hz or 110V./60Hz.

RECOMMENDED ACCESSORIES

-Suitable solids : sand, salts, sugar, colour chalks, etc.
-Stop Clock.

DIMENSIONS & WEIGHTS

-Dimensions: 1020 x 850 x 1700 mm. approx.

-Weight : 200 Kg. approx.

* Specifications subject to change without previous notice, due to the convenience of improvements of the product.



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REPRESENTATIVE: