



Block Packing Machine

The packing of the 10 kg and 15 kg block from the Resting Tube is done with a combination of a Block Cutting Machine, the block packing machine and the block packing out conveyor. In this process the appropriate size cartons taped on one side with polythene bag inserted in it needs to be placed on the conveyor. The resting tube will have a circular to rectangular transition piece with a fixed cross section, once the desired weight is cut with the help of the Block Cutting Machine it gets automatically placed in the carton with the help of the Block Packing machine and the Block Packing Conveyor. The carton can then be passed through a sealer to seal the polythene bag and close the carton from the top.

- **Block Cutting**

This particular Block Cutting Unit is mounted on the rectangular mouth of Resting Tube. The Block Cutting Unit will comprise of a pneumatically actuated cylinder with a cutting edge made from Nichrome and maintained at a temperature slightly higher than the temperature of the product to ensure hassle free cutting of the product.

If procured as a set along with the Block Packing Machine, the cutting of the Block to the required length will also be controlled by the PLC used in the Block Packing Machine.

- **Block Packing Mechanism & Carton Feeding Conveyor.**

The Block comes out of the mouth of the Resting Tube & Travels into specially designed Block Packing Machine housing between two vertical walls which keeps pressed to the Block against a spring load. Once the Block travels a distance equivalent to 15 kgs, with the help of instruments provided the cutting of the Block takes place at the mouth of the Resting Tube.

During the operation of Cutting action the Diverter valve provided at the inlet of the Resting Tube gets activated to disallow the flow through the Resting Tube. The Block Packing Mechanism that is held of weight 15 kgs between two walls moves little forward during which the lined carton already will have come from the Conveyor & waiting below the Block Packing Mechanism to receive the Block.

Then the piston on the top of Block Packing Mechanism pushes the Block down while at the same time the bottom of the Block held by two halves of Plates gets opened downwards by making a way for the Block to drop into the lined Carton Box which is already waiting. When those 2 halves of bottom plate opens down it also opens out the Carton Flap from inside so that under no circumstance the Block is pushed outside the Carton Box.



