

## **A DEVICE FOR CONTINUOUS SEPARATION OF FISH BONE AND MEAT**

The device is useful for separation of fish bone and meat from different varieties of fish. Separation of meat from bone obtained by using the device is consistent and is obtained in a continuous manner. The separated meat which is free from bone, will have application in preparation of several fish meat based food products. The device is therefore useful for continuous separation of fish bone and meat. Basic principle involved is to compress the whole dressed fish between the moving belt and a rotating perforated drum, so that the soft flesh of the fish is squeezed/pushed inside the perforated drum through the perforations provided on the periphery and the perforations are drilled through the thickness of the rotating drum. A moving conveyor belt is supported by a set of rollers namely: a drive roller (perforated drum) and a driven roller. The moving conveyor belt is used for carrying the dressed fish to the compression zone. The moving conveyor belt wraps part/half of the drums perimeter, leaving the other half free for fish intake and discharge the waste. The belt is powered by a geared electric motor and has provision for varying the speed of the drum surface providing the necessary compression. The perforated drum allows the meat to pass through and block the bones, scales and skin.

### Technical specifications

• Capacity of Grinder	:	25~30 kg/h
• Motor Horsepower	:	1.0 HP (3 motors)
• Supply voltage	:	230 VAC/1 Ph/50 Hz
• Material of the device	:	Stainless Steel
• Weight of the machine	:	80 kg (Aprox.)
• Floor space needed	:	1.0 * 1.0 Sq. M
• Height of the machine	:	1.0 M

### PROJECT REQUIREMENT (an estimate) :

Land (Approx. in Sq. Metres)	300
Building (Approx. in Sq. Metres)	200
Plant & Machinery (Approx. Rs. in '000)	1200
Total Project cost (Approx. Rs. in '000)	2500

### CAPACITY :

Suggested capacity of the fabrication unit: **25 machines per annum**  
Average production cost/ unit: **Rs. 1.13 Lakhs**

For Technology and Technical assistance please contact

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