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## TECHNICAL SPECIFICATIONS

**Equipment Name : SHELL KNOCKOUT MACHINE**

**Model No: :- PKO**

**Application:** After metal casting the ceramic shells are to be broken away to reveal the castings. This breaking of the shell is termed as 'Knock out'.

**Description :** The knock-out is done by a pneumatic hammer, provided with a variable position carriage for clamping IC poured trees. The whole is mounted within a heavy steel frame.

### **Specifications and Salient Features:**

- Knockout : By pneumatically actuated hammer.
- Clamping : Poured IC Shell is clamped and held in place by the pneumatically actuated tool.
- Clamping pressure : 100Kgs.
- Clamping stroke : 150mm.
- Shell size : A max shell size of 300mm dia X 450mm ht. can be clamped.
- Tools : A cone anvil of amphitheatre design & appropriate hammer head is provided for securely clamping & hammering the job.
- M O C : M S.
- Air : Compressed air at 35 cfm. at 5 - 6 Kg / sq cm is required for the hammer.
- Operation : The shell is to be manually placed and clamped between the stationary jaw and the moving hammer tool. The air supply to the hammer is started. The high frequency vibrations generated will break and dislodge the shell from the castings. The job is then de-clamped manually.
- Shell waste : A trolley mounted bin is provided for collection of the broken shell waste.
- Controls : Ergonomically placed control valves are provided to operate the machine. Provided with switches, pneumatic valves & pressure gauge it allows for easy and accurate control of the process.
- Shell waste : A trolley mounted bin is provided for collection of the broken shell waste.

# *Incastt* Machines

Mfrs: Investment Casting Foundry Machines.

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Pics are of m/c with acoustic enclosure.

