

## Energy Saving Compact Single phase Injection Moulding Machine (PATENT applied)

Injection moulding is a process of producing solid plastic products like caps, buttons, spoon, socket, others. Process involves filling the cavity of closed mould with hot melted material under pressure, allow it to cool and then eject the solid part formed.

Vertical Injection moulding model DS 40 offers wide scope of applications while requiring minimum resource and maintenance. The machine model developed keeping in mind requirement of Micro Industry development, Training and Skill development activities.

<b>Model</b>	DS 40
<b>Shot Weight</b>	40 grams
<b>Production output</b>	3-5 shots per minute (multiply by No. of mould cavities)
<b>Video</b>	<a href="https://youtu.be/TzxJoZmMTxU">https://youtu.be/TzxJoZmMTxU</a>

### Ideal for Set ups in:

- Training in Engineering Colleges / Institutes and Polytechnics
- Skill Development & Incubation centers
- Industrial Training Centers (ITI) & Self Help groups
- For master batch / pigments colour chip moulding and testing
- Testing Labs (ASTM / ISO specimen moulding) and prototyping centers
- Micro / Rural Industry development & Employment generation projects
- New Start Ups / Entrepreneurship development / Make In Own COUNTRY Drives

### Salient Features

Screw type	- Single Phase Power
Fully Automatic	- Auto/Semi/Manual cycle option
Substantial power savings	- consumes ~ 3 to 3.5 units / hour
Simple operations	- User friendly, No Skill labor required
Mould size	- max 10x10 inches - Toggle clamping
Control panel	- Digital (PLC) / Analog

Process all general and engineering thermoplastics like LDPE, HDPE, Polypropylene, ABS, HIPS, EVA, Nylon, Polyacetal and others

### Advantages:

Offer Business opportunity, Promotes Small Industry Development in country  
Production of small plastic components with low resource requirements  
Aids Self Employment and Poverty Eradication programs  
Suitable to be installed in Non-Industrial zones and Rural areas  
Least Maintenance cost & Power consumption (in its range of machines)  
Offers output of 3-6 LAKH PIECES / MONTH or even more (varies with product & mould cavities)  
Upgrade existing HAND MOUDLERS to automation, efficiency and higher income slab  
Price in accordance with Government schemes for New Start-Ups, MSME Industry Development

### Applications

Products that can be made: Caps and Closures, plugs, buckles, automotive components, Medical disposable, devices parts, dental products, household products, plastic buttons, lids, containers, electrical & Electronics parts, industrial components, toys, small parts of appliances / equipment's and many others.

**DS 40** Single Phase Injection Moulding Machine Model is  
Winner of **STAR SOP AWARDS 2017** FROM SIES PACKAGING INSTITUTE

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(PATENT Pending)



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