

# AP03 SERIES

## Reheat Stretch Blow Moulding Machine

| TECHNICAL SPECIFICATIONS           | STANDARD | MEDIUM & LARGE |         |         |          | EX-WIDE |          |
|------------------------------------|----------|----------------|---------|---------|----------|---------|----------|
| Type of Product                    | Bottle   | Bottle         | Bottle  | Jar     | Jar      | Bottle  | Jar      |
| Max. Volume of Product (L)         | 1.5      | 2.5            | 5       | 2.5     | 5        | 5       | 10       |
| Max. Body Diameter of Product (MM) | Φ85      | Φ135           | Φ170    | Φ135    | Φ170     | Φ170    | Φ230     |
| Inner Diameter of Product (MM)     | Φ21~Φ30  | Φ27~Φ40        | Φ30~Φ45 | Φ60~Φ80 | Φ80~Φ100 | Φ30~Φ45 | Φ80~Φ180 |
| Max. Height of Production (MM)     | 290      | 320            | 320     | 320     | 320      | 380     | 380      |
| Max. Height of Preform (MM)        | 150      | 180            | 180     | 180     | 180      | 200     | 220      |
| Wall Thickness of Preform (MM)     | 1~4.8    | 1~4.8          | 1~4.8   | 1~4.8   | 1~4.8    | 1~4.8   | 1~4.8    |

| ROTARY INFRA-RED HEATING DEVICE                       |                                     |                                     |                                           |                   |                   |                 |                 |
|-------------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------------|-------------------|-------------------|-----------------|-----------------|
| Arrangement of Infra-Red Tubes (PCS x Zones)          | 8 x 7                               | 8 x 7                               | 8 x 7                                     | 8 x 7             | 8 x 7             | 9 x 7           | 9 x 7           |
| Heating Cycle Time (Sec)                              | 90~300                              | 90~300                              | 90~300                                    | 90~300            | 90~300            | 90~300          | 90~300          |
| Average Power Consumption (KW) *                      | 6~12                                | 9~15                                | 9~15                                      | 9~15              | 9~15              | 15~20           | 15~20           |
| Normal Capacity (KW)                                  | 29                                  | 29                                  | 29                                        | 29                | 29                | 32.5            | 32.5            |
| Max. No. of Preform Holder (PCS)                      | 46                                  | 46                                  | 46                                        | 42                | 42                | 36~46           | 12~36           |
| Dimensions (L x W x H) (CM)                           | 153x142x159                         | 153x142x159                         | 153x142x159                               | 153x142x159       | 153x142x159       | 153x142x170     | 153x142x170     |
| Weight (KG)                                           | 550                                 | 600                                 | 600                                       | 600               | 600               | 650             | 650             |
| EACH PLASTIC BOTTLE BLOWER (1 Heater With):           |                                     |                                     |                                           |                   |                   |                 |                 |
|                                                       | 1/2 Blowers                         | 1/2 Blowers                         | 1/2 Blowers                               | 1 Blower          | 1 Blower          | 1 Blower        | 1 Blower        |
| Max. Span Between Opening Moulds (MM)                 | 140                                 | 230                                 | 230                                       | 230               | 230               | 250             | 250             |
| Standard Span Between Mould Cavities (MM)             | 130 ± 0.1                           | 180 ± 0.1                           |                                           | 180 ± 0.1         |                   | 230 ± 0.1       |                 |
| Mould Dimensions (W x H) (MM)                         | 290x350                             | 380x370                             | 355x370                                   | 380x370           | 355x370           | 550x420         | 380x420         |
| Standard Mould Thickness (MM)                         | 160±0.2                             | 260±0.2                             | 260±0.2                                   | 260±0.2           | 260±0.2           | 300±0.2         | 300±0.2         |
| Theoretical Production Capacity (PET Bottle) (PCS/HR) | 500 (1 Blower)<br>1,000 (2 Blowers) | 500 (1 Blower)<br>1,000 (2 Blowers) | 200~250 (1 Blower)<br>400~500 (2 Blowers) | 400~500           | 200~250           | 400~500         | 100~200         |
| No. of Mould Cavity                                   | 2                                   | 2                                   | 1                                         | 2                 | 1                 | 2               | 1               |
| Dimensions (L x W x H) (M)                            | 1.45 x 0.72 x 1.9                   | 1.75 x 0.82 x 2.1                   | 1.75 x 0.82 x 2.1                         | 1.75 x 0.82 x 2.1 | 1.75 x 0.82 x 2.1 | 2.1 x 1.1 x 2.1 | 2.1 x 1.1 x 2.1 |
| Weight (KG)                                           | 600                                 | 800                                 | 800                                       | 800               | 800               | 1500            | 1500            |

| AIR SUPPLY REQUIREMENTS (TO BE PREPARED BY USERS)   |         |         |         |         |         |         |         |
|-----------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|
| Working Air Pressure (Mpa)                          | 0.8~1.0 | 0.8~1.0 | 0.8~1.0 | 0.8~1.0 | 0.8~1.0 | 0.8~1.0 | 0.8~1.0 |
| Blowing Air Pressure (Mpa)                          | 1~2.5   | 1~2.5   | 1~2.5   | 1~1.5   | 1~1.5   | 1~1.5   | 1~1.5   |
| Volume of Low Air Compressor (M <sup>3</sup> /MIN)  | 0.8     | 1       | 1       | 1       | 1       | 1.5     | 1.5     |
| Volume of High Air Compressor (M <sup>3</sup> /MIN) | 1.2     | 1.2     | 1.2     | 1.5     | 2.5     | 3       | 3.5     |

| COOLING WATER SUPPLY REQUIREMENTS (TO BE PREPARED BY USERS) |          |          |          |          |          |          |          |
|-------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|
| Cooling Temperature (°C)                                    | 9~12     | 9~12     | 9~12     | 9~12     | 9~12     | 9~12     | 9~12     |
| Cooling Capacity (KCAL/HR)                                  | 9,500    | 9,500    | 9,500    | 9,500    | 9,500    | 14,700   | 14,700   |
| Volume of Cooling Water (M <sup>3</sup> /HR)                | 4.08     | 4.08     | 4.08     | 4.08     | 4.08     | 6.9      | 6.9      |
| Pressure of Cooling Water (MPA)                             | 0.15~0.4 | 0.15~0.4 | 0.15~0.4 | 0.15~0.4 | 0.15~0.4 | 0.15~0.4 | 0.15~0.4 |

(V6 - 1003)

### Notes:

- Specifications are subjected to change without prior notice due to constant research and development.
  - For specific machine requirements, special order is required.
- \* Average power consumption depends on resin grade & bottle/ jar wall thickness.



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# AP03 SERIES

## Reheat Stretch Blow Moulding Machine

THE SOURCE OF PROFESSIONAL PLASTIC PACKAGING MACHINERY

# AP03 SERIES Operation Flow



## STEP 2

### Preform Heating

Tailor-made heating lamps built inside the extremely flexible heating zones are ideal for wide-range of preform heating needs.



## STEP 3

### Bottle Stretching & Blowing

Innovative toggle mould clamping system allows the AP03 model to stand with blowing air pressure up to 25 bars still delivering bottles / jars with almost invisible parting line.



## STEP 1

### Preform Feeding

Manual feeding into the rotary infra-red heating device.



## STEP 4

### Bottle Ejection

Manual ejection from the blowing device.

## APPLICATIONS

Mineral & Distilled Water  
Baby Feeding Bottle  
Carbonated Drink  
Food & Candy  
Sauce & Juice  
Sport Bottle  
Detergent  
Pharmacy  
Edible Oil  
Cosmetic  
Liquor  
Toy



## MATERIALS

PET, PP, PC, PMMA, PS, MS,  
SAN, PLA, PCTG, PE, PA, etc.



# AP03 SERIES Reheat Stretch Blow Moulding Machine

## ENERGY SAVING

Minimize Energy Consumption  
Optimize Heating Temperature

## AFFORDABLE INVESTMENT

Minimum Maintenance Cost  
Low Initial Machine Investment  
Ideal for Product Development

## HIGH FLEXIBILITY

Simple Operation  
Wide-Range of Product Design

## HIGH PERFORMANCE

Efficient Heat Penetration  
Effective Mould Closing & Opening Design

## RELIABLE COMPONENTS

Japanese & German Components  
Stainless Steel Air Storage Tanks

## TECHNICAL SUPPORT

Utilizing our Experience and Expertise to  
Provide Turn-Key Project including:  
In-house Training for Operators  
Comprehensive Machine Manual  
Bottle & Preform Design Suggestion  
Project Consultation & Operations Set-up  
Professional Preform / Mould Quality Control  
On-Time After Sales Service & Technical Support

