

# STI-1.6-220VR-V

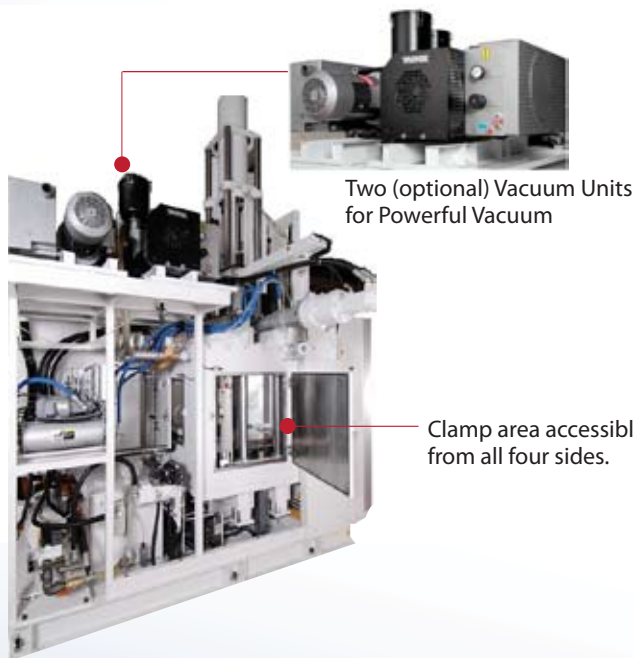
## Vacuum Injection Molding Machine

Injection press with vacuum chamber to generate vacuum condition throughout entire mold.

*Improves part quality & consistency*

Benefits:

- Greater vacuum pressure than conventional vacuum molds
- Enables simpler tooling - no vacuum channel or seals required
- No modification of existing tooling required
- Vacuum chamber insulates mold to reduce heat loss



Two (optional) Vacuum Units for Powerful Vacuum

Clamp area accessible from all four sides.

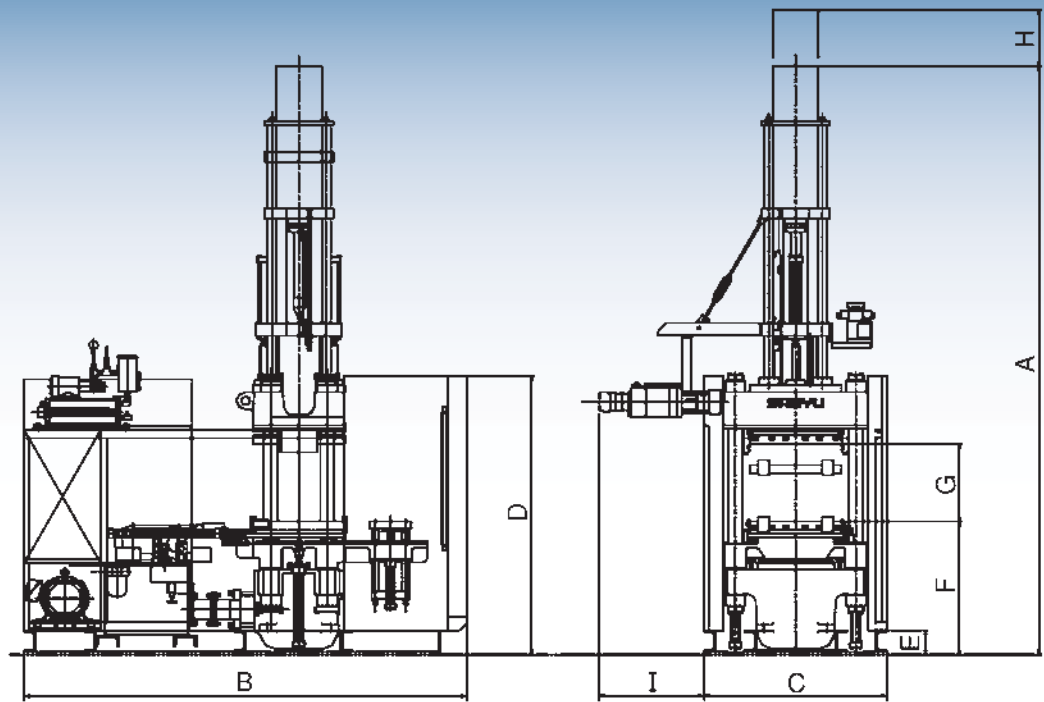
*Side view of press*

Built on VR press platform  
Excellent ergonomics  
Highly controlled injection system  
650mm x 650mm platen size  
Detailed alarms & diagnostics



## Machine Diagram:

A = 4542mm / 175.3in  
 B = 3165mm / 124.6in  
 C = 1440mm / 56.7in  
 D = 2250mm / 88.6in  
 E = 225mm / 8.9in  
 F = 1076mm / 42.4in  
 G = 700mm / 27.6in  
 H = 443mm / 17.4in  
 I = 785mm / 30.9in



## Specifications:

| Specification Item          | 220VR-V             |                     |
|-----------------------------|---------------------|---------------------|
| Clamp Pressure              | 2160kN (220ton)     | 242 US ton          |
| Clamp Ram Diameter          | 425mm               | 16.7in              |
| Platen Width                | 650mm               | 25.6in              |
| Platen Depth                | 650mm               | 25.6in              |
| Platen Heaters              | 1.2kW x 6 x 2       | 1.2kW x 6 x 2       |
| Tie Bar Internal Dimensions | 745mm               | 29.3mm              |
| Daylight                    | 700mm               | 27.6in              |
| Clamp Stroke                | 500mm               | 19.7in              |
| Minimum Mold Height         | 200mm               | 7.9in               |
| Mold Opening Force          | 73kN (7.4ton)       | 8 US ton            |
| Mold Slide Stroke           | 650mm               | 25.6in              |
| Injection Volume            | 1600cm <sup>3</sup> | 97.6in <sup>3</sup> |
| Injection Pressure          | 201MPa              | 29,152Psi           |
| Nozzle Stroke               | 450mm               | 17.7in              |
| Plunger Diameter            | 73mm                | 2.9in               |
| Extruder Screw Diameter     | 50mm                | 2in                 |
| Molding Conditions          | 80                  | 80                  |
| Vacuum Pump                 | 9kW                 | 9kW                 |
| Machine Width               | 1440mm              | 56.7in              |
| Machine Depth               | 3165mm              | 124.6in             |
| Machine Height              | 4452mm              | 175.3in             |
| Operating Height            | 1076mm              | 42.4in              |
| Machine Weight              | 10 Metric ton       | 11 US ton           |

| Standard Features             |
|-------------------------------|
| 10" Color Operation Panel     |
| Q-Series Mitsubishi PLC       |
| 1 Vacuum Pump                 |
| Mold Slide                    |
| External Ejectors             |
| Safety Panels & Light Curtain |
| Alarms & Diagnostics          |
| Platen Heaters                |
| Quick Tool Attachment         |
| Nozzle Stroke                 |
| Screw Revolution Counter      |
| Strip Break Detection         |
| Hopper Cooler                 |
| Production Counter            |
| Hydraulic Oil Cooler          |

| Options                     |
|-----------------------------|
| Mold Heaters                |
| Production Monitor System   |
| Cold Runner Regulator       |
| Air Blow Circuit            |
| Auto Mold Release Spray     |
| 2 <sup>nd</sup> Vacuum Pump |



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