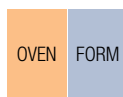


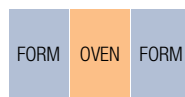
## HIGH PRODUCT DEFINITION - QUICK CHANGEOVERS



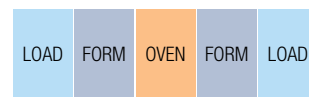
S-222



S-223



DE-423



DE-425

Shuttle systems are an excellent choice for forming large products with heavy-gauge materials, ideal for shorter runs and frequent changeovers. The Brown SP-Series adds pressure to the shuttle vacuum process giving you the ability to achieve greater product detail. In addition to the variety of standard vacuum forming processing techniques, the Brown SP is equipped with the strongest platen structures in the industry. The superior deflection rating makes it possible to run high-tonnage applications such as twin-sheet forming and in-mold trimming. The machines utilize the latest open architecture programming, non-proprietary hardware and incorporate the highest quality readily available components. The Brown SP-Series is built stronger to last longer, giving you a competitive edge in your industry.

## FEATURES

- 3D FEA Designed Platens
- Direct Drive Platens
- Closed Loop Multi-Axis Motion Control
- Machine Designed for future upgrades
- Mold Sizes – from 3' x 4' to 12' x 24'+
- Platen Speed – 10" or 12" per second
- Platen Strokes – from 15" to 100"+
- Male and Female Bayonet Platen Locking System
- Air-Bag and Guided Pressure Plate Seal System
- High Output Part Cooling System
- Ideal Oven Zoning – Ceramic Elements
- Solid State Relays Oven Control
- Oven Fire Protection – Air Jet
- Point IR Sheet Temperature Monitoring
- Aluminum Extrusion Clamp Frames
- Sheet Load and Part Unload Lift Table Systems
- Allen-Bradley PLC and PC Interface Machine Controls
- HMI Touch Screen with Intuitive Screens
- Infinite Product Recipe Storage and Recall
- Air-Conditioned Main Electrical Panel(s)

## OPTIONS

- High Tonnage Platen Strokes for Compression Molding and In-Mold Trimming
- Third Motion Platen Feature for Additional Sheet to Mold Clamping
- Motorized Bayonet Lock Adjustment System
- Optional Oven Elements – Quartz, Panel or Halogen
- Heater Control Modules (HCM) – Highest Diagnostics
- Oven Fire Protection – Teflon Oven Curtain System
- AL-90 Quick-Change Clamp Frames
- Articulating and Multi-Zoned Clamp Frames
- Full Sheet Temperature Scanning Systems
- Interior Oven Lighting and Viewing Window(s)
- Motorized Sheet Sag Tracking Oven Feature
- Servo Regulated Valving with Part Recipe Recall
- Custom Load/Unload Automation – Robotics
- Vast Process Sensing and Trending Solutions
- Quick-Change Tooling Systems
- Latest Safety Scanners with Muting Functionality
- Ancillary Integrated Equipment – MTC Units, Trimming, Granulating, etc.
- UL, CE, CSA & HSE Approvals Available
- International Voltages Available
- Bi-Lingual Labels and HMI Screens Available

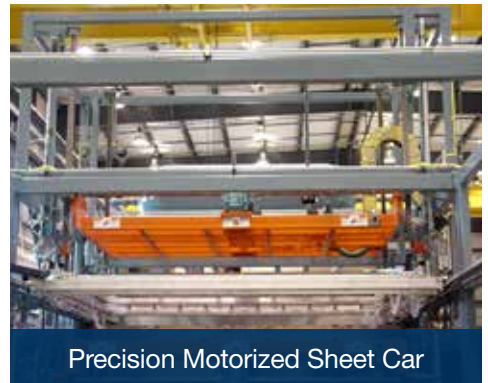
## MACHINE HIGHLIGHTS



Direct Drive Platens



Quick-Change AL-90 Clamp Frames



Precision Motorized Sheet Car



Creators of world-class machinery,  
tooling and automation systems  
**RUN WITH CONFIDENCE**

