

## rs5000-S1 Polymer Prep Station

The **rs5000-S1** Polymer Prep Station is an affordable drive system designed for sample prep using all RSI mixers, single screw extruders and/or twin screw attachments.

- 4 zones of temperature control (maximum of 6)
- 1 melt temperature indicator (maximum of 2)
- 1 RPM readout (additional auxiliary drive readout available)
- 1 pressure indicator (maximum of 2)
- User defined maximum pressure and torque alarm cutoff

### SYSTEM ARCHITECTURE



The **rs5000-s1** Polymer Prep Station design incorporates a familiar HMI for ease of use built into a convenient swivel control pod. Industry standard interface will accept most competitor's mixers and extruders.



### TEMPERATURE CONTROL

The **rs5000-s1** Polymer Prep Station utilizes Eurotherm 3216 PID controllers which provide unprecedented control for process temperature. Independent air cooling channels ( up to 4 zones ) ensure excellent controls.

### SPEED CONTROL

The **rs5000-S1** Polymer Prep Station incorporates state of the art AC drive technology with 1024PPR encoder closed loop control to ensure optimum speed control. Optional stop/start and speed control available for auxiliary attachments.

### DRIVE TORQUE MEASUREMENT

The **rs5000-S1** Polymer Prep Station motor drive provides a representative indication of the torque required to process material. An excellent indication of energy generated by the process can be monitored in units of 0-100% on the torque display.

### PRESSURE INDICATION

The **rs5000-S1** Polymer Prep Station utilizes a Eurotherm 32h8i pressure indicator including user defined alarm settings; compatible with all standard range pressure transducers.

### TECHNICAL SPECIFICATIONS

#### rs5000-S1

Power: 230 VAC, 3 phase 30 amp  
 Drive: 5.0hp  
 Torque Range: 0-200Nm represented as 0-100%  
 Speed: 0-200RPM max  
 Temp Range: 0-500 C – Type J thermocouple

#### rs7500-S1

Power: 230 VAC, 3 phase 30 amp  
 Drive: 7.5hp  
 Torque Range: 0-400Nm represented as 0-100%  
 Speed: 0-150RPM max  
 Temp Range: 0-500 C – Type J thermocouple