

● INJECTION PRESS RANGE: 450-650 TON ●

*Digital AC SERVO Robot Series*

# SAIL-1400-4

# SAIL-1400S-4



## COMMON SPECIFICATIONS

| Power Source                              | Air Pressure     | Drive          | Posture (air cylinder) | Recommended Max Load | Posture Torque @ 70 PSI    | Control Types |
|-------------------------------------------|------------------|----------------|------------------------|----------------------|----------------------------|---------------|
| 200-220 VAC $\pm$ 10%<br>3 Phase, 50/60Hz | 70 psi (.48 MPa) | AC Servo Motor | 90°                    | 22 lbs (10 kg)       | 43.52 ft-lbs<br>(59.0 N·m) | STEC-NC2c     |

## GENERAL SPECIFICATIONS

| Model        | Stroke              |                     |                     |                     | Electric Consumption (kVA) | Max Power Consumption (kW) | Main Body Weight     | Air Consumption                |
|--------------|---------------------|---------------------|---------------------|---------------------|----------------------------|----------------------------|----------------------|--------------------------------|
|              | (P) Vertical        | (R) Vertical        | Crosswise           | Traverse            |                            |                            |                      |                                |
| SAIL-1400-4  | 55.11"<br>(1400 mm) | N/A                 | 46.45"<br>(1180 mm) | 86.61"<br>(2200 mm) | 2.9                        | 1.7                        | 1008 lbs<br>(457 kg) | 0.118 ft³<br>(9.62 NI / Cycle) |
| SAIL-1400S-4 | 55.11"<br>(1400 mm) | 57.08"<br>(1450 mm) | 39.76"<br>(1010 mm) | 86.61"<br>(2200 mm) | 4.5                        | 2.7                        | 1105 lbs<br>(501 kg) | 0.118 ft³<br>(9.62 NI / Cycle) |

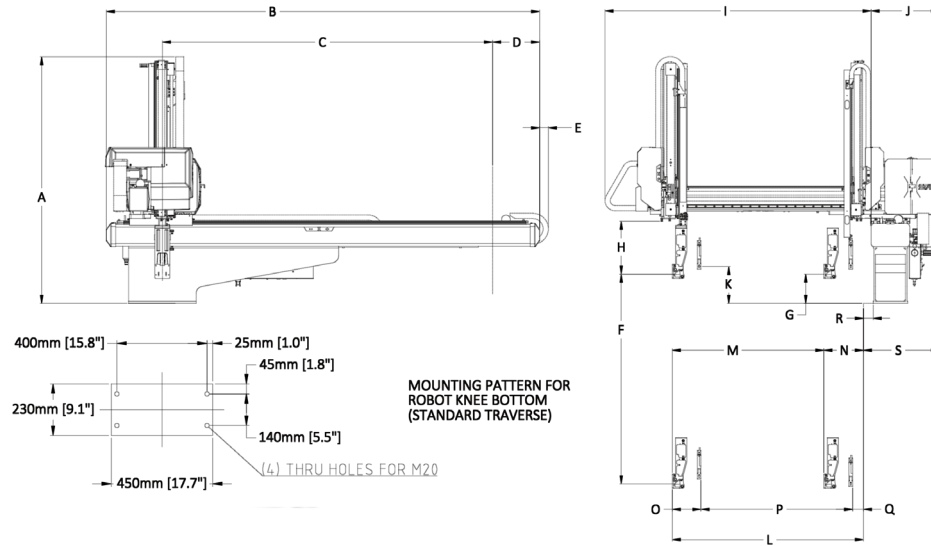
## STANDARD FEATURE

|                                           |
|-------------------------------------------|
| Vacuum Generator with Part Present Sensor |
| Part Grip Circuit                         |
| Sprue Grip Circuit                        |
| USB Port                                  |
| Ethernet Port                             |
| Sample and Chuck Change Positons          |
| Product Packaging (256 each axis)         |
| CNC Step Programming                      |
| SD Memory Card                            |
| CPC® and AMP® Connections at the Head     |
| Active Vibration Control                  |
| IMM Mounting Weldment                     |
| Multi- Level Password Protection          |
| Position, Speed and Timer Adjust in Auto  |
| Alarm History                             |
| Grease Pocket LM Bearings                 |

## OPTION LIST

|                                                      |
|------------------------------------------------------|
| Additional Vacuum Generator with Part Present Sensor |
| Additional Part Grip                                 |
| Nipper on Chuck                                      |
| Rotation 90°, 180° 2-Position, 180° 3-Position       |
| Shuttle on Tool                                      |
| Mold Spray                                           |
| Air Blow                                             |
| 1-3 Color Alarm Light                                |
| Special Paint                                        |
| Free Packaging                                       |
| Central Lube                                         |
| Quick Chuck Change                                   |
| Servo Posture Wrist                                  |
| Servo Posture Rotate                                 |

## OVERALL DIMENSIONS



|   |                                            | SAII-1400-4      | SAII-1400S-4     |
|---|--------------------------------------------|------------------|------------------|
| A | Overall Height                             | 64.84" (1647mm)  | 64.84" (1647mm)  |
| B | Overall Width                              | 113.62" (2886mm) | 113.62" (2886mm) |
| C | Traverse Stroke                            | 86.61" (2200mm)  | 86.61" (2200mm)  |
| D | Overhang, Release Side                     | 12.32" (313mm)   | 12.32" (313mm)   |
| E | Cable Guide Overhang                       | 2.32" (59mm)     | 2.32" (59mm)     |
| F | (P) Vertical Stroke                        | 55.11" (1400mm)  | 55.11" (1400mm)  |
| G | (P) Vertical Standby                       | 7.72" (196mm)    | 7.72" (196mm)    |
| H | Bottom of Crosswise to Chuck Mount Postion | 13.94" (354mm)   | 13.94" (354mm)   |
| I | Mold Mounting Face - Crosswise Arm End     | 69.80" (1773mm)  | 69.80" (1773mm)  |
| J | Mold Mounting Face - Box End               | 17.95" (456mm)   | 17.95" (456mm)   |
| K | (R) Vertical Standby                       | -                | 9.69" (246mm)    |
| L | (P) Crosswise Reach Max.                   | 50.11" (1273mm)  | 50.11" (1273mm)  |
| M | (P) Crosswise Stroke Max.                  | 46.45" (1180mm)  | 39.76" (1010mm)  |
| N | (P) Crosswise Standby Min.                 | 3.66" (93mm)     | 10.35" (263mm)   |
| O | (P) Proximity Min.                         | -                | 7.52" (191mm)    |
| P | (R) Crosswise Stroke Max.                  | -                | 39.76" (1010mm)  |
| Q | (R) Crosswise Standby Min.                 | -                | 2.83" (72mm)     |
| R | Base Offset                                | 2.56" (65mm)     | 2.56" (65mm)     |
| S | Box End - Crosswise Arm End                | 19.96" (507mm)   | 19.96" (507mm)   |

All stated here is subject to change without notice.



## STAR AUTOMATION, INC

### Wisconsin (HQ)

N90 W14401 Commerce Drive  
Menomonee Falls, WI 53051  
Phone: 262-253-3550  
Fax: 262-253-3559  
Email: kscheife@starautomation.com

### California

18141 Beach Blvd. Unit 195  
Huntington Beach, CA 92648  
Phone: 714-375-2400  
Fax: 714-375-2446  
Email: ryamasaki@starautomation.com

### Georgia

5555 Oakbrook Parkway Suite 320  
Norcross, GA 30093  
Phone: 770-582-9350  
Fax: 770-582-9351  
Email: chebert@starautomation.com

### Indiana

5625 Vogel Road Unit B  
Evansville, IN 47715  
Phone: 812-475-9947  
Fax: 812-475-9949  
Email: sberry@starautomation.com

### Michigan

17197 North Laurel Park Dr. Suite 125  
Livonia, MI 48152  
Phone: 734-462-9522  
Fax: 734-462-9527  
Email: tsukuda@starautomation.com

### Rhode Island

860A Waterman Avenue  
E Providence, RI 02914  
Phone: 401-434-0617  
Fax: 401-434-0627  
Email: sales@starautomation.com

### Tennessee

Sales Phone: 678-428-4202  
Service Phone: 615-796-5670  
Email: chebert@starautomation.com

### Star Seiki Mexico S.A. De C.V.

Blvd Bernardo Quintana #7001  
Torre II Oficina 1004 Colonia Centro Sur,  
Queretaro, CP. 76090 Mexico  
Phone: +52-442-199-5180  
Email: knomura@starseikimexico.com