## I45 Frame

### Technical Specifications

#### 72/96/130 – 70mm

<table>
<thead>
<tr>
<th>Injection Unit Specifications</th>
<th>English</th>
<th>Metric</th>
</tr>
</thead>
<tbody>
<tr>
<td>Injection Capacity, Max GPPS*</td>
<td>oz A 72</td>
<td>B 96</td>
</tr>
<tr>
<td>Theoretical Disp</td>
<td>in³ A 134.1</td>
<td>B 178.6</td>
</tr>
<tr>
<td>Injection Performance</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Max Pressure @ Rate</td>
<td>30,000 psi @ 18.4 in³/sec</td>
<td>23,200 psi @ 24.5 in³/sec</td>
</tr>
<tr>
<td>Max Rate @ Pressure</td>
<td>48.5 in³/sec @ 15,000 psi</td>
<td>64.6 in³/sec @ 11,440 psi</td>
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<tr>
<td>Max Injection Speed</td>
<td>in/sec A 14.75</td>
<td>B 14.75</td>
</tr>
<tr>
<td>Max Pack Pressure</td>
<td>psi A 30,000</td>
<td>B 23,200</td>
</tr>
<tr>
<td>Max Pull Back Force</td>
<td>lbf A 25,000</td>
<td>B 25,000</td>
</tr>
<tr>
<td>Plunger Stroke</td>
<td>in A 40.75</td>
<td>B 40.75</td>
</tr>
<tr>
<td>Plunger Diameter</td>
<td>in A 2.04</td>
<td>B 2.36</td>
</tr>
</tbody>
</table>

| Extruder L/d Ratio - 70mm | 30 |
| Extruder RPM - Low Torque | rpm A 265 |
| Extruder RPM - High Torque | rpm A 265 |

| Barrel Heat | - |
| No. of Pyrometers (barrel/nozzle) | 10/1 |
| Total Heat Capacity | kw A 65.26 |
| Sled Pull in Force | ton A 4.1 | tonf 3.7 |

### Clamp Specifications

| Tonnage | ton A 750 | tonf 680 |
| Maximum Daylight | in A 78.74 | mm 2,000 |
| Max/Min Mold Height | in A 39.75/15.75 | mm 1000/400 |
| Max Mold Weight | lb A 26,700 | kg 12,100 |
| Max Clamp Stroke | in A 39.37 | mm 1000 |
| Euromap Dry Cycle Time | sec A <3.8 |
| Platen Size | in A 57.1 x 60.0 | mm 1,450 x 1,525 |
| Tie Bar Spacing | in A 40.16 x 40.16 | mm 1020 x 1020 |
| Tie Rod Diameter | in A 7.09 | mm 180 |
| Ejector Stroke | in A 9.84 | mm 250 |
| Max Ejector Force** | ton A 16.9 | tonf 15.3 |
| Max Eject Speed** | in/sec A 8.9 | mm/sec 225 |

### Machine Specifications***

| Length, see note | in A 458.1 | mm 11,637 |
| Width | in A 109.0 | mm 2,768 |
| Height | in A 105.1 | mm 2,671 |
| Centerline Height | in A 58.0 | mm 1,474 |
| Shipping Weight (machine) | lb A 70,000/31,000/101,000 | kg 31,751/14,061/45,813 |

### Electrical Specifications***

| Input Power Source | 460 VAC ± 10% 3 Ph 60 Hz Std. |
| Power Supply Capacity | kVA A 190 |

### Machine Requirements

| Water | 6 gpm @ 50 psi |
| Air | 80 psi @ 20 cfm |

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*Note: Other capacities available. Please Consult Factory.
**Note: Higher eject force and speed available. Please Consult Factory.
***Note: All machine dimensions and specifications are subject to change. Values are for reference only.
# Technical Specifications

## I49 Frame

<table>
<thead>
<tr>
<th>74/98/135/195 – 120mm</th>
<th>English</th>
<th>Metric</th>
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<tbody>
<tr>
<td><strong>Injection Unit Specifications</strong></td>
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</tr>
<tr>
<td>Injection Capacity, Max GPPS*</td>
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<td>A</td>
</tr>
<tr>
<td>74</td>
<td>74</td>
<td>98</td>
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<td><strong>Theoretical Disp</strong></td>
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<td>133.2</td>
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<tr>
<td>Max Pressure @ Rate</td>
<td>psi</td>
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<tr>
<td></td>
<td>@ 41 in³/sec</td>
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<td>@ 56 in³/sec</td>
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<td>@ 672 cm³/sec</td>
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<td>@ 917 cm³/sec</td>
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<td>@ 1,196 cm³/sec</td>
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<td>Extruder L/d Ratio - 120mm*</td>
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<tr>
<td>Extruider RPM - Low Torque</td>
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</tr>
<tr>
<td>Extruider RPM - High Torque</td>
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<tr>
<td><strong>Barrel Heat</strong></td>
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<tr>
<td>No. of Pyrometers (barrel/nozzle)</td>
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<tr>
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<tr>
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<tr>
<td>Tonnage</td>
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<tr>
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</tr>
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<tr>
<td>Max/Min Mold Height</td>
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<tr>
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<td></td>
<td>mm</td>
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<td>Centerline Height</td>
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<td>mm</td>
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<td>kg</td>
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<td><strong>Machine Requirements</strong></td>
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<td>Water</td>
<td>6 gpm @ 80 psi</td>
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<td>Air</td>
<td>80 psi @ 20 cfm</td>
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*Note: Other capacities available. Please Consult Factory.
**Note: Higher eject force and speed available. Please Consult Factory.
***Note: All machine dimensions and specifications are subject to change. Values are for reference only.
<table>
<thead>
<tr>
<th>Parameter</th>
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<td><strong>Injection Unit Specifications</strong></td>
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<td>Extruder L/d Ratio - 120mm*</td>
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<td>Extruder RPM - Low Torque rpm</td>
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<td><strong>Clamp Specifications</strong></td>
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<td>Maximum Daylight in</td>
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<tr>
<td>Max/Min Mold Height in</td>
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<tr>
<td>Max Mold Weight lb</td>
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<td>Max Clamp Stroke in</td>
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<tr>
<td>Euromap Dry Cycle Time sec</td>
<td>&lt;3.8</td>
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<td>Platen Size in</td>
<td>57.1 * 60.0</td>
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<tr>
<td>Tie Bar Spacing in</td>
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<td>Tie Rod Diameter in</td>
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<td>Ejector Stroke in</td>
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<td>Max Ejector Force (hyd std)**</td>
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<tr>
<td>Max Eject Speed**</td>
<td>in/sec</td>
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<tr>
<td>Machine Specifications***</td>
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<td>Shipping Weight (machine) lb</td>
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<td>Shipping Weight (power unit) lb</td>
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<td><strong>Electrical Specifications</strong>*</td>
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<td>Power Supply Capacity kVA</td>
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<td>Water</td>
<td>15 gpm @ 85 F</td>
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<tr>
<td>Air</td>
<td>80 psi @ 20 cfm</td>
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</table>

*Note: 7/16mm 30:1 L/d extruder also available (consult factory)
**Note: Higher eject force and speed available (consult factory)
***Note: All machine dimensions and specifications are subject to change. Values are for reference only.
Feed throat dimensions can change based on injection frame. Consult factory for specific details.
HOLE DESCRIPTION

"A"  1.00-8 UNC-2B, 1.88" DP (132) PLACES EACH PLATEN

"B" Ø27.0 THRU (12) HOLES

"C" Ø27.0 THRU (1) HOLE

CORRESPONDING HOLES IN K/O Ø.811" THRU

"D" Ø52.4 THRU (16) HOLES

CORRESPONDING HOLES IN K/O Ø.811" THRU

Die Space

Platen Area