### Specifications: RefleX 7105

<table>
<thead>
<tr>
<th>Weights &amp; Measures</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (complete system)</td>
<td>2040 pounds</td>
<td>927 kilograms</td>
</tr>
<tr>
<td>Weight (machine only)</td>
<td>1940 pounds</td>
<td>882 kilograms</td>
</tr>
<tr>
<td>Weight (maximum workpiece)</td>
<td>2000 pounds</td>
<td>909 kilograms</td>
</tr>
<tr>
<td>Measuring Range XYZ</td>
<td>29.5x41.6x19.7 inches</td>
<td>(750x1057x500mm)</td>
</tr>
<tr>
<td>Work Capacity XYZ</td>
<td>32.5x53.0x22.5 inches</td>
<td>(830x1347x580mm)</td>
</tr>
<tr>
<td>Shipping Weight:</td>
<td>2300 pounds</td>
<td>1045 kilograms</td>
</tr>
<tr>
<td>Minimum door opening:</td>
<td>47.5x87.5 inches</td>
<td>1210x2220 mm</td>
</tr>
</tbody>
</table>

Center of Gravity is noted on shipping crates.

### Room Air

- Nominal room air temperature: 68°F (20°C)
- Daily temperature cycle: 1.8°F (1.0°C)

Measure at mid-X, mid-Y and mid-Z. Start measurements at least 24 hours before performance tests and continue through end of tests. Measurement interval 5 minutes or less. Calculate mean temperature for each hour. Specification is permissible difference between each hourly mean and nominal temperature.

Superimposed cycle: 1.8°F (1.0°C)

Air-conditioning cycle:
- Frequency 4 cycles per hour minimum. Specification is permissible difference between each measurement and the mean for the hour in which it occurs.

Spacial temperature variation: 1.8°F (1.0°C)

No exposure to sunlight. Indirect or fluorescent lighting preferred.

Minimum of 10 air changes per hour.

Relative humidity 20-90%, non-condensing.
Specifications: RefleX 765/7105

Provide Class 100,000 or better environment (see below).

Class Limits - Particles per Cubic Foot of sizes greater than or equal to sizes shown

<table>
<thead>
<tr>
<th>Particle size in micrometers</th>
<th>Class</th>
<th>0.1</th>
<th>0.2</th>
<th>0.3</th>
<th>0.5</th>
<th>5</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>35</td>
<td>7.5</td>
<td>3</td>
<td>1</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>350</td>
<td>75</td>
<td>30</td>
<td>10</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>100</td>
<td>-</td>
<td>750</td>
<td>300</td>
<td>100</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>1000</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>1000</td>
<td></td>
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<td>100000</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>100000</td>
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</tr>
</tbody>
</table>

Nominal temperature: 68°F (20°C)

Humidity: 100 grains/lb max. (14 g/kg max.)

Pressure variation: ±3 psi (±0.2 BAR)

Temperature variation: ±7°F (±4°C)

Inlet pressure: 75-120 psig (5.2 - 8.3 BAR)

Flow: 4 SCFM - minimum (115 LPM - minimum)

Frequency 0 Hz to 6 Hz <0.001 mm

Frequency 6 Hz to 50 Hz < 0.0005 mm

Frequency > 50 Hz < 0.001 mm

Maximum Sound Pressure: 65 dB(A)
(Right side of machine)
Specifications: RefleX 765/7105

Tests are performed with Renishaw PH1 probe head, TP2-5 probe, and a 10mm stylus. Repeatability is performed with a trihedral probe.

Scale Resolution: 0.0000625mm 0.0000025"
Display Range: ±9999.999mm ±999.999999"  
Display Resolution 0.001mm 0.000001"

ANSI/ASME B89.1.12M - 1990:
Linear Displacement Accuracy (5.4.2.1):
X Axis (765) 0.005 mm 0.0002"  
Y Axis (765) 0.005 mm 0.0002"  
Z Axis (765) 0.005 mm 0.0002"  
X Axis (7105) 0.006 mm 0.00024"  
Y Axis (7105) 0.006 mm 0.00024"  
Z Axis (7105) 0.006 mm 0.00024"

Volumetric Performance (5.5.2): (Performance/Ball Bar Lg.)
0.010 mm / 400mm 0.00004" /15.8"

Repeatability (5.3.3.2):
0.004mm 0.00016"

VDI/VDE 2617 Standard:
(L = The measured length expressed in mm)
U1 4 + 3L/1000μm 0.00016 + 3μm/in  
U2 4 + 3L/1000μm 0.00016 + 3μm/in  
U3 4 + 4L/1000μm 0.00016 + 4μm/in

JIS B7440 (1967):
(L = The measured length expressed in mm)
UX 0.004 + 0.003L/1000MM ≤ 5.8 0.00016 + 3 ≤ 0.00023 μm/in  
UY(765) 0.004 + 0.003L/1000MM ≤ 5.6 0.00016 + 3 ≤ 0.00022 μm/in  
UY(7105) 0.004 + 0.003L/1000MM ≤ 6.5 0.00016 + 3 ≤ 0.00026 μm/in  
UZ 0.004 + 0.003L/1000MM ≤ 5.2 0.00016 + 3 ≤ 0.00020 μm/in  
U3(765) 0.004 + 0.004L/1000MM ≤ 7.5 0.00016 + 4 ≤ 0.00030 μm/in  
U3(7105) 0.004 + 0.004L/1000MM ≤ 8.4 0.00016 + 4 ≤ 0.00033 μm/in

* NOTE: Additional performance characteristics provided upon request.
