Pre- and Post-Analytic Specimen Sorting
ROBOTIC SPECIMEN PROCESSING

AutoSorter 1200 and AutoSorter 2000 are multi-function instruments for specimen sorting, with the flexibility, productivity and reliability to meet the demands of large commercial labs. Optimized for throughput and flexibility, the AutoSorter 1200 processes up to 1,200 specimens/hour for rack-based pre-analytic sorting and post-analytic sorting/archiving. The AutoSorter 2000 processes up to 2,000 specimens/hour for bulk-handled specimens.

Over 100 years in robotics and automation, including over 20 years of experience in solving clinical laboratory automation needs went into the design of these systems, yielding a high-throughput, labor-saving process improvement tool for your lab.

FLEXIBILITY

• Accepts common tube sizes in mixed batches
• User-configurable, easily adapts to changing sort requirements
• Defined sort groups can be recalled for use
• Multiple sort deck configurations for standalone or connected installations
• Efficient use of drawers/racks based on sort group size

PRODUCTIVITY

• Large deck provides extended walk-away times
• Loading/unloading through drawer access allows continuous operation
• Special handling functions allow prioritized processing

RELIABILITY

• The AutoSorter™ product line, featuring a high-speed robot, has performed for over 20 years in some of the highest volume commercial labs in the United States.
• The proven Motoman® robot provides high uptime with minimal maintenance and long life.
• Global service and support network including 24-hour hotline provides prompt technical assistance.

Improved Lab Operations

• Flexibility to process multiple specimen configurations
• High sorting accuracy/specimen traceability
• Robust design and industrial components provide high system uptime and reliability
• Free your staff from non-value-added specimen processing tasks

DECK LAYOUTS

**STANDALONE**
- Drawer loaded/unloaded

**TRACK CONNECTED**
- Configure as loader or output sorter

**BULK SORTER**
- Hopper input/bulk output

**AUTOSORTER 1200**

• High-speed sorting instrument for pre- and post-analytic specimen processing
• Operates as “standalone” sorter or as one in a series of processing stations in a conveyorized line
• Configurable deck features drawers and/or flow-through conveyors to feed specimens into sorter and to present racks for sort targets
  - Standard drawers can accommodate various instrument-specific or generic racks and trays.  
  - Ten drawers hold up to 1,860 tubes, higher capacity availability with flow-through conveyor rack handling
  - Racks can be changed as necessary based on specimen mix, conversion to use of new instrument, etc.
• Puck-based, modular specimen transportation solution can be configured to meet lab requirements

**AUTOSORTER 2000**

• Utilizing the AutoSorter 1200 platform, the AutoSorter 2000 addresses common requirements for high-volume commercial labs, such as bulk loading, various container types and data connectivity. It has the ability to maintain frozen specimens in a -20°C environment during the sorting process.

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>AutoSorter</th>
<th>1200</th>
<th>2000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height [mm]</td>
<td>369</td>
<td>380</td>
</tr>
<tr>
<td>Width [mm]</td>
<td>2,040</td>
<td>2,052</td>
</tr>
<tr>
<td>Depth [mm]</td>
<td>889</td>
<td>915</td>
</tr>
<tr>
<td>Weight [lbs]</td>
<td>2,000</td>
<td>2,500</td>
</tr>
<tr>
<td>Throughput [tubes/hr]</td>
<td>1,200</td>
<td>2,000</td>
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</tbody>
</table>

**UTILITY REQUIREMENTS**

<table>
<thead>
<tr>
<th>Pneumatic</th>
<th>1 SCFM at 80 PSI</th>
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<tbody>
<tr>
<td>Electrical</td>
<td>208 VAC, 3-phase, 20 Amps</td>
</tr>
</tbody>
</table>

**Mixed formats**: Yes

**Tube diameter [mm]**: 10-16

**Tube height [mm]**: 75-100

**SPECIMEN FORMATS**

- Specimen Formats
- Tube format
- Mixed formats
- Yes
Yaskawa is the leading global manufacturer of industrial robots, low and medium voltage variable frequency drives, servo systems and machine controllers. Our standard products, as well as tailor-made solutions, are well known and have a high reputation for outstanding quality and reliability.