Many laboratories need to increase productivity and reduce turn-around-time in metals analyses. Milestone's ETHOS microwave digestion systems are available in many configurations, to match the needs of various industries and labs. The choice of the best rotor and inserts is pivotal to simplifying your journey from sample to analysis and is reliant on the sample type, sample amount, productivity and limit of quantification for the elements of interest.

### SK-15 TYPICAL APPLICATIONS

- Agriculture
- Beverage
- Cannabis
- Ceramics
- Chemicals
- Clinical
- Consumer products
- Geochemistry
- Metals
- Petrochemical
- Officials
- Pharmaceutical
- Pigments
- Polymers
- Food & Feed
- Environmental

### MAXI-24 HP TYPICAL APPLICATIONS

- Agriculture
- Beverage
- Cannabis
- Clinical
- Environmental
- Food & Feed
- Officials
- Pharmaceutical

### MAXI-44 TYPICAL APPLICATIONS

- Agriculture
- Beverage
- Food & Feed
- Environmental
- Officials

* Additional applications can be evaluated with the Milestone Application Team*
## THREE OPTIONS TO MATCH EVERY NEED

<table>
<thead>
<tr>
<th>ROTORS</th>
<th>MAIN FEATURES</th>
<th>TYPICAL WORKING CONDITIONS &amp; SAMPLES</th>
</tr>
</thead>
</table>
| **SK-15**    | Number of vessels: up to 15  
Vessel volume: 100 mL  
Vessel material: PTFE/TFM  
Temperature control:  
• easyTEMP, direct contactless temperature control in all vessels | Suggested volume: 5-10 mL  
Sample amount: up to 1 g  
|               |                                                                                  | Large sample amount  
High Temperature & Pressure capabilities  
Highly reactive sample  
Medium productivity |
| **MAXI-24 HP** | Number of vessels: up to 24  
Vessel volume: 80 mL  
Vessel material: PTFE/TFM  
Temperature control:  
• easyTEMP, direct contactless temperature control in all vessels | Suggested volume: 5-10 mL  
Sample amount: up to 0.75 g  
|               |                                                                                  | Medium to large sample amount  
Moderate to High Temperature & Pressure capabilities  
Moderate to high reactive sample  
High productivity |
| **MAXI-44**  | Number of vessels: up to 44  
Vessel volume: 100 mL  
Vessel material: PTFE/TFM  
Temperature control:  
• easyTEMP, direct contactless temperature control in all vessels | Suggested volume: 5-10 mL  
Sample amount: up to 0.3 g  
|               |                                                                                  | Medium sample amount  
Low to Moderate Temperature & Pressure capabilities  
Low to moderate reactive sample  
High productivity |

* Additional rotors are also available. Previous rotors can also be used with the latest ETHOS platform.
Often times, labs need to achieve very low detection limits for specific applications or samples, where external source of contamination must be carefully controlled. The SK-15 rotor combined with inserts is a great solution as it reduces surface contact with the vessel, minimizes acid volume and allows the use of different vessel materials such as quartz or glass.

<table>
<thead>
<tr>
<th>TYPICAL WORKING CONDITIONS &amp; SAMPLES</th>
<th>PTFE</th>
<th>QUARTZ</th>
<th>3-POSITION INSERTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Volume</td>
<td>40 mL</td>
<td>40 mL</td>
<td>6 mL</td>
</tr>
<tr>
<td>Suggested Volume</td>
<td>3-5 mL</td>
<td>3-5 mL</td>
<td>1-3 mL</td>
</tr>
<tr>
<td>Sample Amount</td>
<td><img src="image1.png" alt="Large" /></td>
<td><img src="image2.png" alt="Large" /></td>
<td><img src="image3.png" alt="Small" /></td>
</tr>
<tr>
<td>Working Conditions (T&amp;P)</td>
<td>High</td>
<td>High</td>
<td>High</td>
</tr>
<tr>
<td>Sample Reactivity</td>
<td>High</td>
<td>High</td>
<td>Low</td>
</tr>
<tr>
<td>Typical applications</td>
<td><img src="image4.png" alt="Geochemistry" /> <img src="image5.png" alt="Metals" /> <img src="image6.png" alt="Research" /> <img src="image7.png" alt="Polymers" /> <img src="image8.png" alt="Petrochem." /> <img src="image9.png" alt="Food &amp; Feed" /> <img src="image10.png" alt="Research" /> <img src="image11.png" alt="Clinical" /> <img src="image12.png" alt="Food &amp; Feed" /> <img src="image13.png" alt="Research" /></td>
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</tbody>
</table>

### ADDITIONAL ETHOS PLATFORM CAPABILITIES

The flexibility of the ETHOS platform allows for further enhancement to your lab’s efficiency with a comprehensive choice of dedicated accessories.

- Microwave solvent extraction of organic pollutants from environmental matrices (fastEX-24 rotor)
- Determination of total fat in food samples (SR-15 rotor)
- Evaporation and concentration of acid or solvent with MMR-15 rotor (Microwave Modular Rotor).