The InterSelect In-Line and modular selective soldering systems are designed to meet the needs of lean manufacturing in combination with flexibility and very high throughput at minimal cost.

**This concept covers three basic modules:**

**Selective soldering module, Fluxing module and Preheat module**

The IS-I-460S and IS-I-700S are completely automated „In-line“ and „modular“ versions from InterSelect Germany which can handle boards up to 460x460mm (18” x 18”) and 700x700mm (27,6” x 27,6”). It has a SMEMA pass-through conveyor that features automatic conveyor width adjustment. The IS-I-460S and IS-I-700S combine very high throughput with precise process controls. The soldering unit is equipped with our inert hot nitrogen atmosphere for better soldering results and to assist the prevention of oxidation. Each solder pot comes with this inert atmosphere feature. The X, Y and Z axis moving solder pot system is installed in many machines and has proven its reliability. Also these machines are equipped with a unique top side designed preheating system, controlled by a pyrometer. All process parameters are ready for data transfer.

**The best machine in its class, with unique features**

**Unique Features**

<table>
<thead>
<tr>
<th>Feature</th>
<th>IS-I-460S</th>
<th>IS-I-700S</th>
</tr>
</thead>
<tbody>
<tr>
<td>The large soldering area can handle almost every board</td>
<td>460 x 460 mm</td>
<td>700 x 700 mm</td>
</tr>
<tr>
<td>Smallest footprints in its class</td>
<td>IS-I-460S: just 1,1 m²</td>
<td>IS-I-700S: just 1,8 m²</td>
</tr>
<tr>
<td>Large adjustable, energy-efficient top and bottom preheaters</td>
<td>IS-I-460S: adjustable 1,5 to 6 kW</td>
<td>IS-I-700S: adjustable 1,5 to 7,5 kW</td>
</tr>
</tbody>
</table>

**Optional Features**

- Automatic laser wave height control and correction
- Laser pyrometer control with profiling
- Multi wave for extremely fast cycle times
- Create soldering program while the machine is running with the optional IS Photoscan offline programming software

**Standard Features**

- Integrated PC with Windows 7 features the user-friendly software
- Network-compatable remote maintenance
- Multi wave for solder joints with close components
- Mini wave for extremely fast cycle times
- Laser pyrometer control with profiling
- Create soldering program while the machine is running with the optional IS Photoscan offline programming software

The IS-I-460FM and IS-I-700FM are fluxing modules which can be set in line with the corresponding selective modules. While one board is soldered in the soldering module another board is fluxed in the fluxing module, so through put can be highly increased. Of course the fluxing modules also can be used as stand-alone fluxer.

The IS-I-460FM and IS-I-700FM are preheat modules which can be set in line with the corresponding selective modules. While one board is soldered in the soldering module another board is preheated in the preheat module, so through put can be highly increased. Of course the preheating modules also can be used as stand-alone preheater.

**Variant 1: IS-I-460S or IS-I-700S as individual soldering module:** low throughput requirements or during introduction phase of a new product.

**Variant 2: two IS-I-460S or IS-I-700S soldering modules:** high throughput requirements. Reduction of cycle time parallel processing with two boards in one time.

**Variant 3: fluxing module, preheat module and a IS-I-460S or IS-I-700S soldering module:** for high mass assemblies or longer preheat cycles.

**Variant 4: fluxing module, preheat module and two IS-I-460S or IS-I-700S soldering modules:** for high mass assemblies and high throughput requirements.