Introduction to 2-component technology
Bolt-on injection units for CX and EX series machines
Your fast track to multi-component technology – professional and carefully coordinated

Multi-component injection molding delivers attractive color and material combinations—as well as added functionality—in a single-cycle process. Fewer process steps and high quality keep unit costs down, improve profit margins and give you a competitive advantage.

2-component technology has a huge range of applications:
- Functional integration through different material combinations
- Eliminates assembly steps
- High bonding quality

Injection molding machine EX 160-750 with vertical bolt-on injection unit SP380 and lateral bolt-on injection unit SP380.

Functional haptics: 2C systems produce non-slip handlebar grips in a one-step process

Key features of power tool handles are a firm grip and brilliant looks, which can be achieved with multi-component technology, including insertion technology upon request.

2-component technology makes it profitable to mass produce disposable razors in eye-catching designs.
Your successful introduction to 2-component technology

KraussMaffei’s modular bolt-on injection units are a sure and cost-effective way to add an extra plasticizing unit and make more use of an injection molding machine you already have. Your bolt-on injection unit can be customized to suit your production projects and your existing molds.

Positioning options
- V position – second injection unit mounted vertically on the fixed mold platen
- L position – ancillary injection unit mounted horizontally on the non-operator side

Drive concept
- Hydraulic with separate drive unit
- All-electric for extreme precision and lower emissions to the production environment

Flexibility and mobility
- Steplessly adjustable in the machines’ longitudinal axis
- Steplessly adjustable height
- Simple mold changing, because the bolt-on unit can be moved completely out of the clamp zone
- Wide choice of plasticizing units based on our range of standard screws
- Separate control technology for complete process control and optimal settings
- Large choice of add-ons for non-standard processes or special requirements

More options on request
- Injection unit sizes up to SP4300
- Different configurations, such as Z position or parallel position

A wide choice of variant configurations for KraussMaffei hydraulic and all-electric bolt-on injection units

<table>
<thead>
<tr>
<th>Injection unit</th>
<th>Screw Ø</th>
<th>Stroke volume cm³</th>
<th>Model CX</th>
<th>EX</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP 55</td>
<td>15 / 18 / 20 / 22</td>
<td>14 – 30</td>
<td>L / V</td>
<td>L</td>
</tr>
<tr>
<td>SP 180</td>
<td>25 / 28 / 30 / 35</td>
<td>59 – 115</td>
<td>L / V</td>
<td>L</td>
</tr>
<tr>
<td>SP 380</td>
<td>30 / 35 / 40 / 45</td>
<td>113 – 254</td>
<td>L / V</td>
<td>L</td>
</tr>
<tr>
<td>SP 750</td>
<td>40 / 45 / 50 / 55</td>
<td>251 – 475</td>
<td>L</td>
<td>L</td>
</tr>
</tbody>
</table>

Having the bolt-on unit at right angles to the injection molding machine [L] is a good solution for most applications. The independent bolt-on units are simply docked onto the injection molding machines. The all-electric version meets demand for extreme shot weight consistency for high-precision applications.
Easy introduction
Bolt-on injection units for CX and EX series machines

Bolt-on injection units are a quick and easy, low-cost way to expand into 2-component molding. KraussMaffei supplies custom bolt-on units configured from our extensive, modular portfolio. Our bolt-on units can be docked onto any machine, irrespective of tonnage, manufacturer, type or drive system.

KraussMaffei bolt-on technology features at a glance:
- Autonomous bolt-on injection units make upgrades easy
- Complete control of the process thanks to separate control system and energy supply
- Hydraulic and all-electric variants available
- Plasticizing unit configured to suit your individual applications
- Adjustable mechanical systems for easy adaptation to injection molding machines and molds
- Defined interfaces for electrical and mechanical systems
- Expandable concepts thanks to modular engineering and special control options for high-spec applications