Allrounders Polymers, glass, paper or natural materials such as leather, vulcanized rubber or wood: the CO₂ lasers of the StarShape series provide an extensive range for micro material processing: free contour shaping, text or surface structuring.

Versatile and Rapid
The wide spectrum of laser powers together with excellent beam quality and scanner deflection head technology allows numerous different kinds of material processing: drilling, cutting, scribing, structuring or engraving – all in one system: the StarShape C/P. High processing speeds can be achieved due to the fast scanner heads and high laser power of up to 250W. Even most complex on-the-fly applications can be realized in short processing times with excellent quality (optional software upgrade).

Flexible Programming
The StarShape C/P is programmed with the user-friendly graphic interface of the high-performance StarFlex software. Contours and beam parameters can be defined most rapidly. The laser control is based on PC architecture with CAN bus technology and provides all standard interfaces to network connections under Windows 2007.

Gas Supply Unnecessary
All StarShape C/P lasers work with a sealed-off CO₂ laser source and do not require any external gas supply. Maintenance is hereby reduced to a minimum. We supply the StarShape C/P laser optimized to your individual requirements: as standard module for machine integration or as stand-alone work station. We will be glad to demonstrate the wide range of processing possibilities of the StarShape C/P and test it with your applications. Just ask us!

We are Rofin – your partner in laser technology.
## Specifications

### Laser System

<table>
<thead>
<tr>
<th></th>
<th>SSH 100 C/P</th>
<th>SSH 150 C/P</th>
<th>SSH 250 C/P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>CO₂ laser, sealed-off slab, no gas supply</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Beam quality</td>
<td>W</td>
<td>K &gt; 0.8</td>
<td></td>
</tr>
<tr>
<td>Pulse length</td>
<td>μs</td>
<td>2 – 400</td>
<td></td>
</tr>
<tr>
<td>Pulse frequency</td>
<td>kHz</td>
<td>0 – 100</td>
<td></td>
</tr>
<tr>
<td>Wavelengths</td>
<td>μm</td>
<td>9.3, 10.25, 10.6</td>
<td>9.3, 10.6, 9.3, 10.25, 10.6</td>
</tr>
<tr>
<td>Nominal output</td>
<td>W</td>
<td>95, 100, 125, 130, 175, 185, 200, 250</td>
<td></td>
</tr>
</tbody>
</table>

### Processing unit

- **Deflector unit**: Galvanometer deflector system
- **Optics**: f-theta lenses & lens system for 3 axes
- **Processing area (2 axes)**: mm² 70 x 70 up to 340 x 340
- **Processing area (3 axes)**: mm² 100 x 100 up to 1250 x 1250

### Control unit

- **Interfaces**: PC with Windows 7 & ROFIN control unit (CCU)
  - Host coupling, digital I/O

### Software

- **User interface**: StarFLEX
- **CAD system**: VLM with CAD Extension
- **Operating system**: Windows 7
- **Languages**: All commands and menus available in different languages
- **Options**: On-the-fly processing for C and P series, axes for P series

### Utilities

- **Electrical**: 230V 1Ph/N/PE 50/60Hz
- **Cooling**: Water cooling
- **Cooling capacity**: kW > 2.4 > 3.8 > 5.0
- **Water flow**: l/h > 4 > 6 > 6
- **Temp. operating range**: °C at 19 to 25

### Dimensions/Weight

- **Laser head with deflector unit**: Width mm 245.5
- **Length**: mm 2-axes version: 1567 & 3-axes version: 1903
- **Height**: mm 312.5
- **Weight of processing unit**: kg 90, 115, 115
- **Supply cabinet C-Series**: mm (L x W x H) 610 x 645 x 990
- **Supply cabinet P-Series**: mm (L x W x H) 810 x 810 x 1900