SELF-CLIMBING FORMWORK

With the aid of an inbuilt hydraulic device, SCF climbs step-by-step without the need for a crane, matching the pace of construction.
SCF self-climbing formwork can take up and discharge all forces up to a maximum vertical load of 150 kN per bracket. With a maximum influence width of 8.50 m per bracket, formed surfaces up to 5.50 m high or 17 m wide are now possible.

### Product advantages SCF

#### Economical

- Only one embedded climbing anchor per bracket per lift – less consumables and labor than traditional SCF systems
- Very high vertical load capacity up to 150 kN per bracket, wider platforms and higher loading weight
- Additional work decks above the formwork for continuous rebar operation and easier handling of double length vertical rebar

#### Versatile

- Compatible with all beam and frame formwork
- Upwards and higher: forming operations at heights of over 300 m are no challenge for SCF

#### Safe

- Housing at all working levels provides additional protection against falling debris and weather conditions for both workers and materials
- Fulfills all safety requirements according to EN, British and American Standard

#### Quick

- Large hydraulic stroke for faster climbing and less control effort during climbing

> Upwards and higher: forming operations at heights of over 300 m are no challenge for SCF
## Technical specifications SCF

<table>
<thead>
<tr>
<th>Product description</th>
<th>Self-climbing formwork system</th>
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<tbody>
<tr>
<td>Vertical load capacity</td>
<td>150 kN per bracket (for climbing and static)</td>
</tr>
<tr>
<td>Platform widths</td>
<td>Working platform: 3.20 m</td>
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<td></td>
<td>Pouring platform: 1.50 m</td>
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<tr>
<td>Climbing direction</td>
<td>Inclined climb tracks in all directions technically possible</td>
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<tr>
<td></td>
<td>(forward, backwards, sideways and curved)</td>
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<tr>
<td>Hydraulic</td>
<td>Simultaneous operation of up to 8 brackets per hydraulic pump</td>
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<td>completely secured and movable hydraulic pump</td>
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<tr>
<td>Wall offset</td>
<td>Passing of wall offsets up to 50 mm without extra measures,</td>
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<td></td>
<td>up to 150 mm with extra measures</td>
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<tr>
<td>Bracket spacing</td>
<td>With 4 m formwork height, up to 4.75 m (depending on wind load)</td>
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<tr>
<td>Wind speed</td>
<td>Tested up to 208 km/h</td>
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The ratio of bracket number to shuttered surface can be adapted precisely to the building's geometry. The result is shorter shuttering times. Less labor. More efficiency.
Overview of the main system components of the Self-Climbing Formwork (SCF)

- Climbing shoe
- Concreting platform, width = 1.60 m
- Formwork element carrier
- Tension and compression spindle
- Formwork height adjustment
- Retractor
- 2nd trailing platform, width = 2.25 m
- 1st trailing platform, width = 2.25 m
- Working platform beam
- Working platform, width = 3.25 m
- Support
- Climbing rail
- Climbing cone with anchor
- Bracket head
- Hydraulic climbing device
- SCF integrates with
  - MANTO®
  - PLATINUM 100
  - H 20 wall formwork

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