Delivery

Our logistical service is at your disposal and will provide solutions specifically adapted to your needs, accompanying you step by step right up to delivery on-site.

Added Value

All-Inclusive Offer

Thanks to our thorough knowledge of our business, we are able to accompany, step by step, companies active in steel and metal construction, public works, transport, and energy industries throughout their whole process of growth and value-creation.

Your individual customer account will be managed in a way inclusive of all your needs; that is, each Built-Up Section is made-to-measure to meet your demand for optimum-efficiency results.

A true industrial partnership: our best technology and know-how at your disposal to give you a real advantage on the market.

In order to rationalize and secure your supply of production materials, we are able to deliver the whole range of steel products needed on your production-site (accessories, nuts and bolts, tubes, metal sections, rails and tracks...)

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Distribution Solutions

Frame Solutions

Built-Up Sections

Transport by wide-load
Railway transport
Unlimited range
Simulations set up beforehand in the workshop, if required
Surface treatment
Sections can be delivered with precambering already performed

All-Inclusive Offer

- Administrative Building for the City of Luxemburg, Rocade de Bonnevoie
  © Paczowski and Fritsch, Architects
- Transport by wide-load
- Railway transport
- Unlimited range
- Simulations set up beforehand in the workshop, if required
- Surface treatment
- Sections can be delivered with precambering already performed
Means of production

1. Cutting
   - Oxyacetylene cutting table
     - 18 meters long
     - 6 heads

2. Assembly
   - High-output machine enabling welding up to 30m in length
   - Shaft-motorized system with head-articulation for longitudinal or transversal welding
   - Stays close to the joint to be welded with an accuracy of < 1 mm

3. Welding
   - Automatic welding system
   - Submerged-arc welding system: Welding of extremely high density and compactness

4. Casing
   - Drilling unit
   - Plate-stiffener
   - Latest generation Gusset-machine
   - Finished part size from 130 x 130 to 2 500 x 2 000 mm

5. Handling
   - 30 tons Lifting capacity for lengths up to 30 meters

6. Organization & Methods
   - AutoCAD
   - ProSteel

Wide variety of BUS:
Symmetric and asymmetric, variable thickness, variable heights, precambered beams

Examples of applications:
Box girders, gantry girders, bridges, footbridges/gangways, floor joists, piles/structural columns for “mixed construction”

**Means of production**

**Manufacturing Tolerances**

<table>
<thead>
<tr>
<th>Criterion</th>
<th>Parameter</th>
<th>Tolerances</th>
<th>Criterion</th>
<th>Parameter</th>
<th>Tolerances</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Overall dimensions &lt;h:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>h ≤ 900 mm</td>
<td>± 3 mm</td>
<td>± a / 100</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>900 &lt; h ≤ 1 800 mm</td>
<td>± h / 300</td>
<td>± a / 100</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>h &gt; 1 800 mm</td>
<td>± 6 mm</td>
<td>± a / 100</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Width b1 or b2 + Δ</td>
<td>± b / 100</td>
<td>± b / 100</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Squareness</td>
<td>± b / 100</td>
<td>± b / 100</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eccentricity of WEB</td>
<td>± 5 mm</td>
<td>± 3 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Position of the web:</td>
<td>± 5 mm</td>
<td>± 3 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- in general</td>
<td>± 5 mm</td>
<td>± 3 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- parts of base plate in contact with structural supports</td>
<td>± 5 mm</td>
<td>± 3 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Squareness of flanges</td>
<td>± b / 100</td>
<td>± b / 100</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Length</td>
<td>± 0/100 mm</td>
<td>± 50 mm</td>
</tr>
</tbody>
</table>

*According the specifications the tolerances can be modified*
Means of production

1. Cutting
   - Oxyacetylene cutting table
     - 18 meters long
     - 6 heads

2. Assembly
   - High-out machine enabling welding up to 30m in length
   - Shaft-motorized system with head-articulation for longitudinal or transversal welding
   - Stays close to the joint to be welded with an accuracy of < 1 mm

3. Welding
   - Automatic welding system
   - Submerged-arc welding system: Welding of extremely high density and compactness

4. Casing
   - Drilling unit
   - Plate-stiffener
   - Latest generation Gusset-machine
   - Finished part size from 130 x 130 mm to 2,500 x 2,000 mm

5. Handling
   - 30 tons Lifting capacity for lengths up to 30 meters

6. Organization & Methods
   - AutoCAD
   - ProSteel

Welded Built-Up Sections (BUS)

Wide variety of BUS:
- Symmetric and asymmetric, variable thickness, variable heights, precambered beams

Examples of applications:
- Box girders, gantry girders, bridges, footbridges/gangways, floor joists, piles/structural columns for "mixed construction"
Means of production

1. Cutting
   - Oxyacetylene cutting table
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   - High-output machine enabling welding up to 30 m in length
   - Shaft-motorized system with head-articulation for longitudinal or transversal welding
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4. Casing
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   - Latest generation Gussit-machine
   - Finished part size from 130 x 130 mm to 2 500 x 2 000 mm

5. Handling
   - 30 tons Lifting capacity for lengths up to 30 meters

6. Organization & Methods
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   - ProSteel

Non-Destructive Testing

- "Sweating" test as per EN 473
- Magnetic crack detection as per EN 12090
- Ultrasonic testing as per EN 10160, EN 1713, EN 1714
- Or third-party inspection

Accredited welding qualification

- Welding coordination complying with EN ISO 14731
- EN ISO 9001
- Connectors in compliance with EN ISO 14555
- Welding operators in compliance with EN 287-1 / EN 1418 / EN 1090-2
- Official certification as per DIN 18800-7 currently in progress

Plates and Sheet Metal

- Steel grade S235 / S275 / S355 as well as other higher gradations
- Complete traceability
- Management by certificate bar-coding 3.1, 2.2 as per EN 10025
- Surface quality according to with EN 10163-2

Manufacturing Tolerances

<table>
<thead>
<tr>
<th>Criterion Parameter</th>
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<th>Tolerances*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall dimensions</td>
<td>h ≤ 900 mm</td>
<td>h = ± 5 mm</td>
<td>h &gt; 1800 mm</td>
</tr>
<tr>
<td>Squareness at support level</td>
<td>Verticality of the web adjacent to the supports</td>
<td>h &gt; 1800 mm</td>
<td>h = ± 3 mm</td>
</tr>
<tr>
<td></td>
<td>Distance in terms of external or internal dimensions</td>
<td></td>
<td>900 mm ≤ h ≤ 1800 mm</td>
</tr>
<tr>
<td></td>
<td>b ≤ 900 mm</td>
<td>b = ± 3 mm</td>
<td>b ≥ 1800 mm</td>
</tr>
<tr>
<td></td>
<td>b = ± b / 300</td>
<td>900 mm ≤ b ≤ 1800 mm</td>
<td>b = ± b / 300</td>
</tr>
<tr>
<td></td>
<td>b ≥ 1800 mm</td>
<td>b = ± 3 mm</td>
<td>900 mm ≤ b ≤ 1800 mm</td>
</tr>
<tr>
<td></td>
<td>b ≥ 1800 mm</td>
<td>b = ± 3 mm</td>
<td>b = ± b / 400</td>
</tr>
<tr>
<td>Squareness</td>
<td>- in general</td>
<td>30 mm ≤ d ≤ 180 mm</td>
<td>d = ± d / 100</td>
</tr>
<tr>
<td></td>
<td>- parts of base plate in contact with structural supports</td>
<td>d = ± d / 300</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- in general</td>
<td>Squareness of flanges</td>
<td>30 mm ≤ b ≤ 180 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- parts of base plate in contact with structural supports</td>
<td>b = ± b / 150</td>
</tr>
<tr>
<td>Flatness of flanges</td>
<td>- in general</td>
<td>30 mm ≤ b ≤ 180 mm</td>
<td>b = ± b / 150</td>
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<tr>
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<td>Δ = ± 0/100 mm</td>
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