Solutions in plant engineering for the biotechnology and pharmaceutical industries

W. Spoula | Solutions in plant engineering for the biotechnology and pharmaceutical industries
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Bilfinger Industrietechnik Salzburg specialises in planning, fabricating and assembling piping, systems and equipment for

- Biotechnology
- Pharma
- Fine Chemicals
- Power Engineering
- Piping Technology.
Case study 1 | piping

Project: Biotech Facility BIOLAUNCH

Object: Biotech production plant for mAb

Services provided:

- Mechanical installation of product and pure media piping
- 26,000 m piping (11,000 m hygienic piping)
- 155,000 assembly and manufacturing hours
- Assembly of the apparatus
- Fabrication and assembly of two utility skids
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**Challenge:**
- Distance to site approximately 1,000 km from headquarters/manufacturing
- Tight spaces on site
- Hygienic pipelines and design
- Fast track project

**Solution:**
- 1,500 m² high purity pipe workshop
- Daily shipment to the site in containers: 1 container on site/workshop
- → potential cost and time savings
- Maximum output over longer period: 1,000 meters a week (high purity piping only)
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**Case study 2 (systems)**

**Project:** Bioreactor PROQUBE BRC  
**Object:** “Standard” bioreactor

**Scope of services/modules:**
- Bioreactor or fermenter 15 l – 2,500 l working volume  
- Supply air group  
- Gas mixing station  
- Harvest group  
- Temperature circuit  
- Exhaust air group  
- Feeding  
- Control cabinet (EIC, Automation SPS Siemens S7 + WinCC flexible)
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<table>
<thead>
<tr>
<th>Design</th>
<th>Benefit</th>
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<tr>
<td>Modular system</td>
<td>The customer adapts the bioreactor to his/her specific needs</td>
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<td>• The modular system provides the basis for configuring the bioreactor. This involves combining basic functions in assembly groups for which preconfigured engineering modules are available.</td>
<td>Optional, alternative and individual configurations can be implemented easily.</td>
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<td>Short delivery periods</td>
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