

# Industrial Scale Bioreactors & Fermentors



Whether you're designing a system from the ground up or duplicating and expanding an existing system, we have the expertise to build your next system to your exact specifications.

Our industrial scale sterilizable-in-place bioreactors and fermentors are ideal for larger volumes from 500 to 50,000 litres. We can also design a super skid to your unique needs—then fabricate the equipment right on your site to ensure it integrates with your existing manufacturing site. All of our equipment goes through rigorous validation and project planning procedures to make sure you receive the finest quality for consistent results.

Open frame units come pre-mounted and pre-wired for easy installation and maintenance. Both industrial scale models come with patented HTPG4™ and/or Rushton impellers to maximize thermal and oxygen transfer and minimize shear force. The intuitive and user-friendly Neptune™ control system complies with cGAMP Revision 4, 21 CFR Part 11 and S88 standards (batch module). Software package options are available for process optimization/fermentation research or production.

We thoroughly test each unit and provide material and component traceability with 100% endoscopic control of welds. We also provide a detailed and comprehensive documentation package to support validation.





## Site Fabrication and Field Service

We'll bring the highest skill levels and latest technology right to your site. Our team of experienced field specialists can fabricate any size equipment and manage the entire project with our own heavy-duty construction equipment. We'll coordinate our project with your contractors so your existing plant operations and other construction programs can continue without any delay or interruption.

## Control Retrofits and Vessel Upgrades

Improve your throughput and increase your efficiency with advanced controller and vessel upgrades from DCI-Biolafitte. From University to cGMP validated systems, our experts will assess your automation, vessel, and skid needs—then recommend ways you can improve your equipment performance regardless of the original manufacturer.

Our eight-step process begins with an initial system review, where we determine available options for updating your control systems. We also modify, refinish, or repair vessels to adapt to your changing workflow. We can construct new skids, rejuvenate your existing skid, or convert a skid to a mobile design for changing research and development needs. Systems are typically reconditioned at our facility for full access to machining equipment and always tested before final installation to ensure peak performance.

