

Fabrication Services



IPEX

by aliaxis

Custom Fabrication & Off-Site
Manufacturing Solutions for
Thermoplastic & Metallic Piping Systems





A Legacy of Innovation in Thermoplastic Fabrication Built on Decades of Expertise

With more than 30 years of experience in thermoplastics, IPEX is a trusted name across North America for engineered piping systems and custom fabrication. As one of North America's largest manufacturers in the space, we combine the scale of a national network with the precision of specialized fabrication facilities.

We anchor our operations through purpose-built fabrication shops equipped to handle everything from high-volume production runs to one-of-a-kind custom builds. With robust VDC capabilities, we keep up with the technological evolution in the industry to deliver smarter and future-ready solutions." Backed by a team of expert fabricators, engineers, and technical specialists, we bring a level of consistency, accuracy, and collaboration that sets us miles ahead of the competition.

IPEX approaches every project with focus and intent, ensuring every one of your components performs beyond expectations.

Capacity You Can Count On

Dedicated fabrication facilities support your complex building needs across a wide spectrum of industrial sectors. Your pipes and other products are fabricated using advanced equipment in controlled environments to ensure clean, consistent results.

Experienced fabricators and expert engineers guide every step of the process. IPEX integrates design expertise, proven methodologies, and quality control to reduce delays and eliminate any uncertainty. This way, you can expect fewer site challenges – and better long-term value.

From initial consultation to final delivery, we provide the tools and talent to get the job done right.

Engineering Support that Makes a Difference



Over 30 years of experience with thermoplastic system layout & fabrication



Dedicated in-house engineering & fabrication specialists



Virtual Design & Construction (VDC) support enabling a seamless end-to-end fabrication workflow



Component and assembly modeling in various file formats for visualization and integration



Early-stage collaboration to reduce rework & improve install efficiency



Technical expertise across all major thermoplastic systems

Fabrication That Solves Complex Challenges

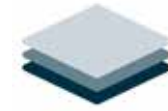
IPEX provides full-service fabrication of engineered assemblies for even the most demanding, complex environments. Our experts build each system with attention to pressure ratings, chemical compatibility, spatial requirements, and ease of installation.

Our fabrication capabilities include custom assemblies, double-containment systems with integrated leak detection, custom valve enclosures for single or grouped valves, and large-scale headers to match complicated flow conditions and project layouts.

We support a wide range of materials, including PVC, CPVC, polypropylene, polyethylene, and PVDF. For projects requiring metallic systems, we offer carbon steel, stainless steel, and select high-performance alloys. IPEX experts review every project in-house to deliver consistent, installation-ready results.

IPEX virtual design and construction team provides early stage coordination with engineers and contractors to ensure accurate as built models for approval which translates to high quality and precise products delivered and ready to install.

Designed to Integrate Seamlessly



Multi-Material Capabilities

Thermoplastics, metals, and hybrids built to spec with system compatibility in mind



Platform Compatibility

Custom solutions delivered with outputs in client-required formats, including Revit, 2D/3D CAD, and spool drawings



Buildable Designs

Every solution is evaluated for site feasibility, installation practicality, and layout clarity



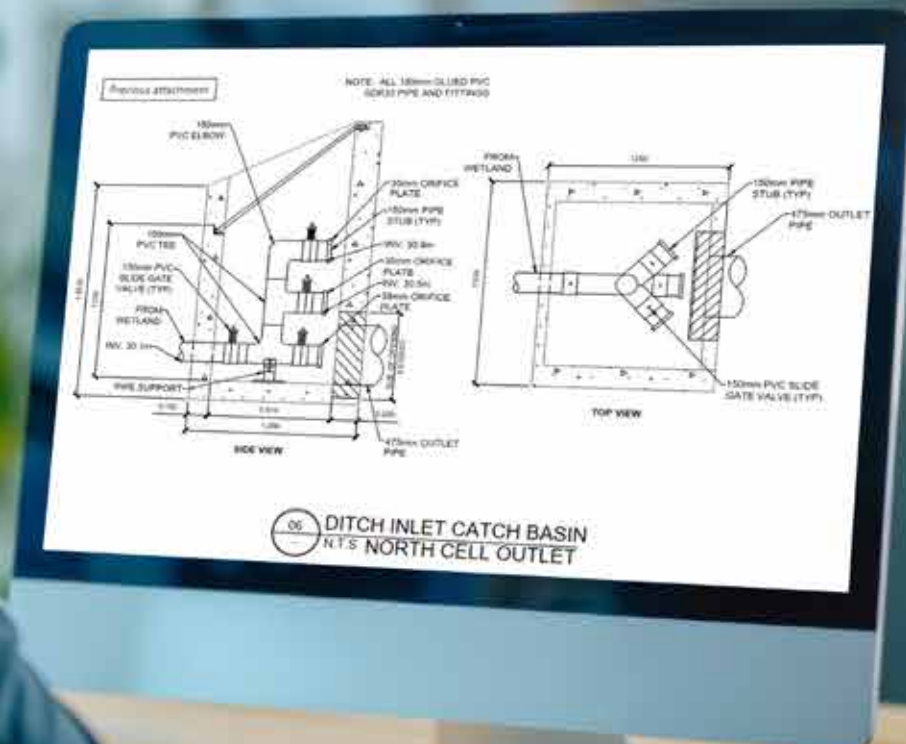
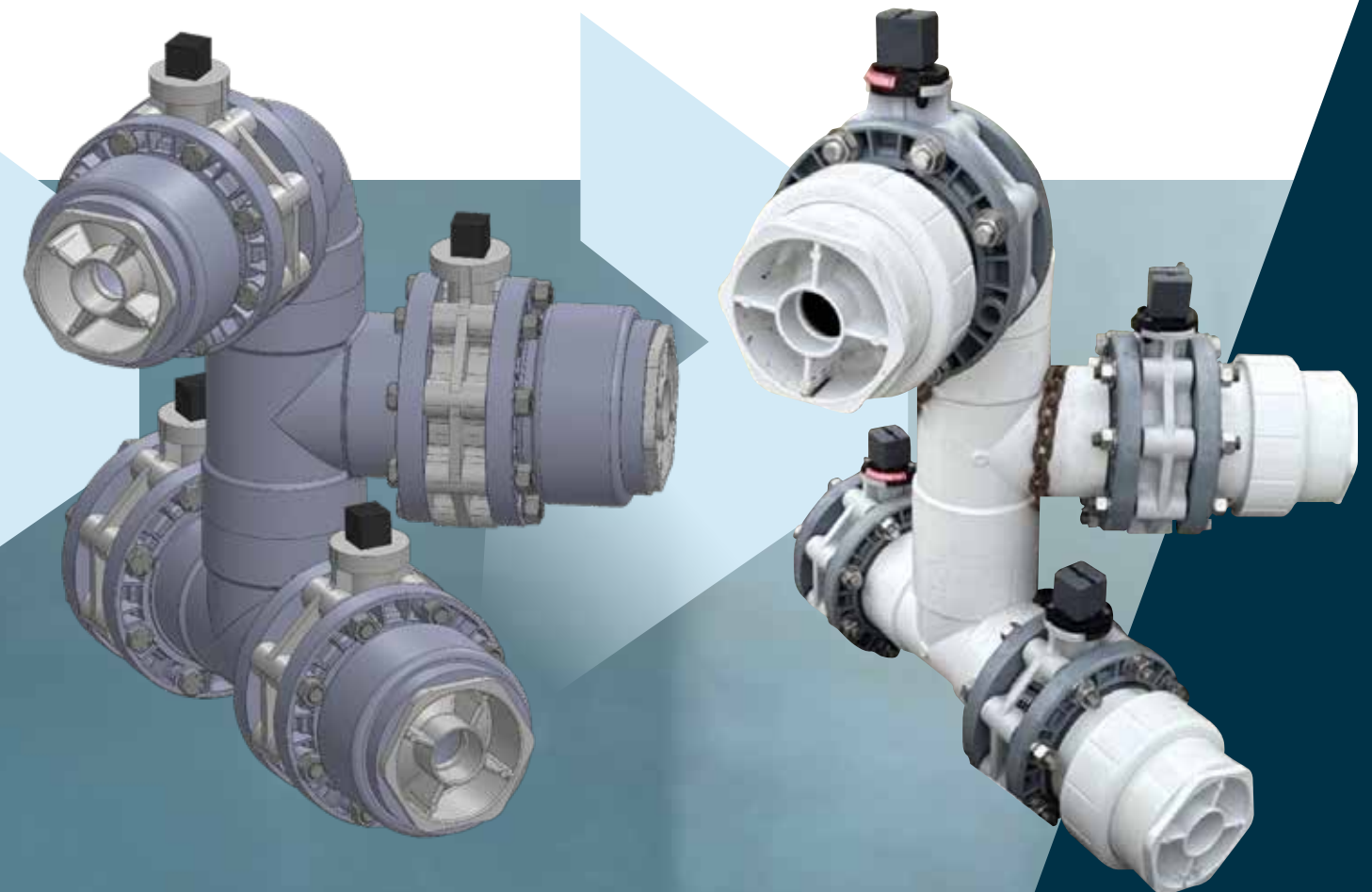
VDC-Ready

Dedicated VDC engineering team fluent in the customer's design language, delivering optimized BIM and 3D CAD workflows for accurate design and integration



Design-Assist Approach

IPEX work closely with project teams to ensure fabrication meets intent and timeline





Engineered Double-Containment Systems

- Only North American fabricator offering double containment in thermoplastic, metallic, or hybrid combinations
- Designed to protect the environment, personnel, and property
- Fully engineered systems with integrated leak detection options
- Custom-built to meet project-specific pressure and material requirements
- Built for performance in corrosive, hazardous, or high-risk environments
- Design assistance provided by dedicated engineering team

Precision Valve Containment

- Custom-fabricated enclosures for individual valves, valve groups, or automated systems
- Tailored to site layout, access needs, and process control requirements
- Materials selected for chemical compatibility and durability
- Fabrication support for compact, multi-valve enclosures
- Designed and coordinated by in-house engineering and VDC teams



Custom Header Fabrication

- Headers built in thermoplastics or metallics, including stainless and carbon steel
- Fabricated to match flow demand, spatial constraints, and connection types
- Support for concentric, eccentric, and multi branch configurations
- Fully coordinated with project drawings and downstream connections
- Reviewed by VDC and fabrication teams for alignment, fit, and install practicality



Integrated Subassemblies

- Subassemblies modelled in 3D and verified for clearance and connectivity
- Designed in collaboration with project engineers and end users
- Evaluated for cost effectiveness, installation efficiency, and material performance
- Can be virtually placed into equipment models for fit verification
- Delivered as installation-ready systems to reduce on-site labour and rework

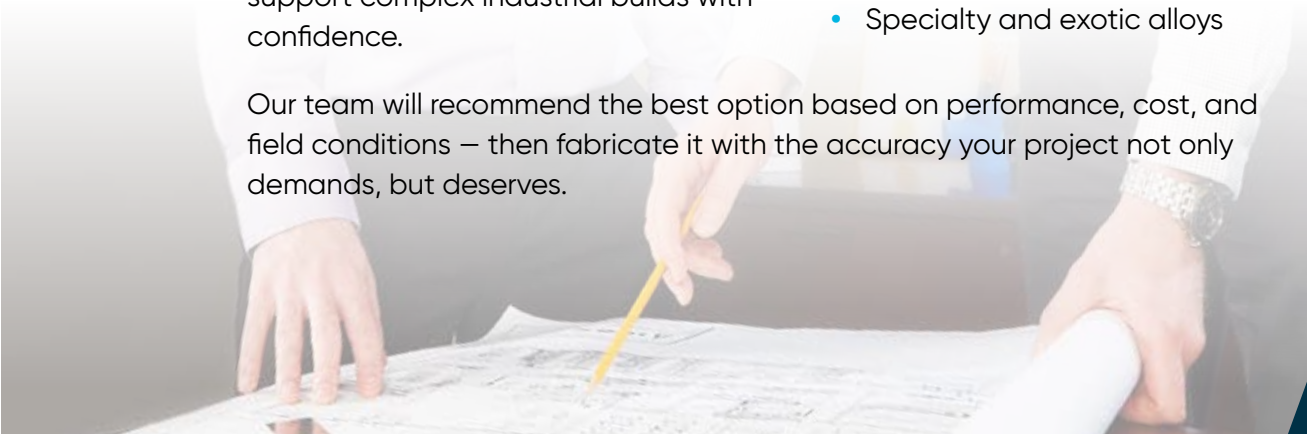
Material Expertise You Can Rely On

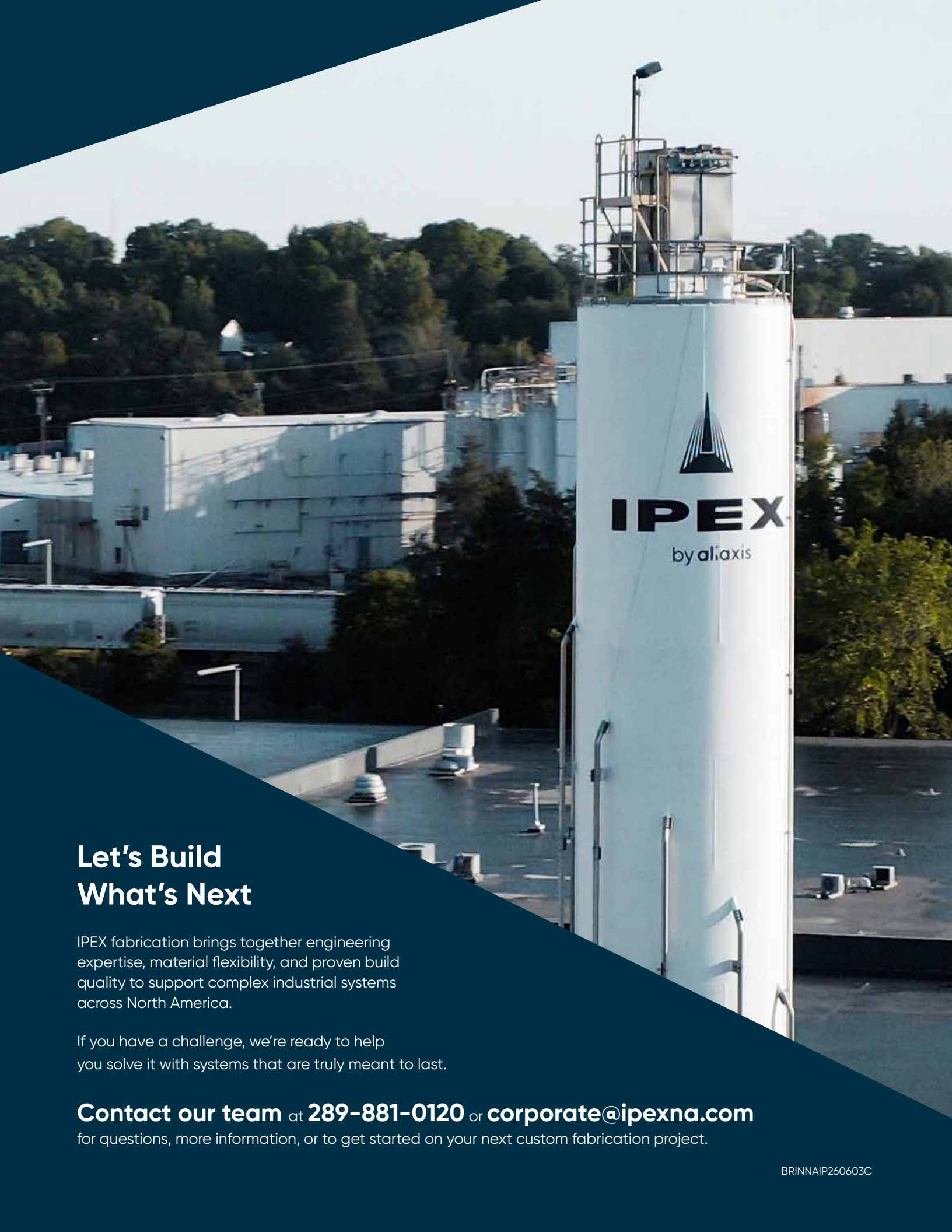
IPEX selects materials based on more than spec sheets. We evaluate every project for chemical compatibility, thermal performance, pressure demands, and long-term durability. Our fabrication teams work across a wide spectrum of materials to support complex industrial builds with confidence.

We offer fabrication expertise in:

- PVC
- CPVC
- Polypropylene (PP)
- Polyethylene (PE)
- PVDF
- Carbon steel
- Stainless steel
- Specialty and exotic alloys

Our team will recommend the best option based on performance, cost, and field conditions – then fabricate it with the accuracy your project not only demands, but deserves.





Let's Build What's Next

IPEX fabrication brings together engineering expertise, material flexibility, and proven build quality to support complex industrial systems across North America.

If you have a challenge, we're ready to help you solve it with systems that are truly meant to last.

Contact our team at 289-881-0120 or corporate@ipexna.com
for questions, more information, or to get started on your next custom fabrication project.