

LIGHTNIN Lab & Tech Center

Get The Maximum From Your Mix



Getting The Job Done Right

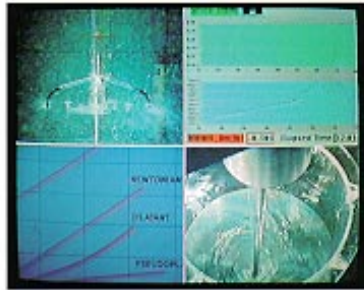
LIGHTNIN

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Maximum Technology State-Of-The-Art And Science



A unique feature of the LIGHTNIN Lab & Tech Center is its ultra-modern conference and observation facility. Overhead, six monitors display data from 18 different sources—including computerized process monitors and video cameras—strategically positioned throughout the lab. There's also a 12-foot window that provides an unobstructed view of the lab itself.



Testing is controlled via this movable computer console. The console also monitors mixing performance and calculates test results, which are immediately stored in its database for future reference.

Several data sources display and record process results including temperature, pressure, pH, torque, and time.

cover photo:

View lab operations through the conference facility's 12-foot window or on overhead video monitors.

Video, audio, and computer data from test tanks, explosion-proof room, and other lab stations are monitored and stored on one videotape in this control room.



Maximum Flexibility- Three Ways To Test For The Best

As the world's premier mixing expert, we serve a tremendous variety of industries and applications—everything from pharmaceuticals to minerals extraction operations. And the testing involved with

each of these applications is just as diverse. Flexibility is key. That's why we specifically designed the lab to accommodate a broad range of tests with three-way flexibility.



Explosion-proof Lab testing is controlled and monitored remotely through video displays, digital mixer controls, and computers.

1 We'll test your actual materials.

We'll perform a variety of scaled-down tests using your actual materials. No matter what your mixing process is—gas dispersion, slurry suspension, paperstock agitation, blending, or nearly anything else—we'll analyze it for optimal flow and shear. That's the best way to find out in



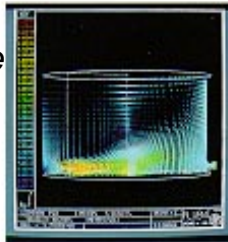
advance which impeller will maximize not only your mixing, but also the process itself. If your materials are hazardous, we'll run tests in the lab's Explosion-proof Testing Area.



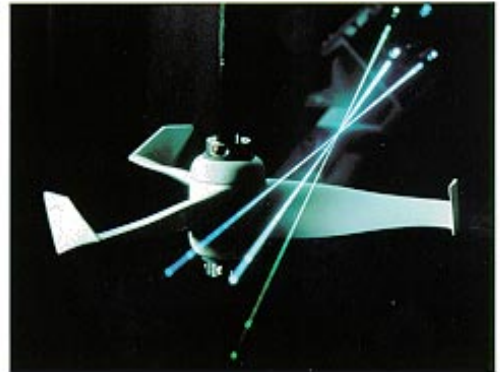
Bring your actual materials to the lab for process testing. It's the best way to maximize your mixing process.

2 We'll test an acceptable facsimile of your materials.

While actual materials testing is preferable to ensure optimum mixing performance, we realize it isn't always possible. So, at the LIGHTNIN Lab & Tech Center we offer a number of options for materials and process simulation, such as computational fluid dynamics modeling and impeller comparison analysis. We also conduct tests in water to determine mass transfer capabilities and flow/shear ratios.



The lab's computational fluid dynamics modeling program lets us analyze performance in a computer-simulated, full-scale model.



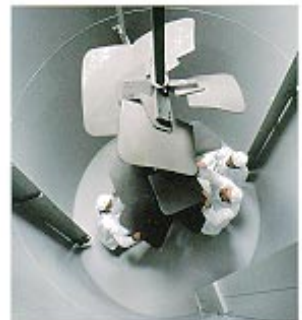
Technicians in our laser lab accurately measure impeller mixing performance as well as custom-design impellers for unique application.

3 We'll run full-scale performance tests for you-on- or off-site.

If your application demands it, LIGHTNIN provides scale-up mechanical testing capabilities in our 600,000-gallon tanks. Or, if necessary, we'll come to your location for full-scale testing to determine the best configuration for your process.



We can perform full-scale testing in this 50-foot tank.



Maximum Results- Videotaped For Your Convenience

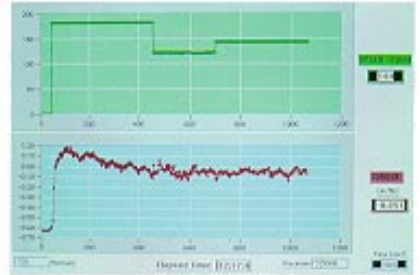
Mixing researchers the world over agree: when analyzing mixing processes, quantitative information alone is not enough. To make the most of any mixing application, researchers must also be able to observe and make recommendations based on what they *see*. That's one reason we provide you with a unique time-synchronized videotape of your actual



testing. There's no need to worry about missing valuable information during your visit—it's all captured on the video. And it's ready for you to take with you when you leave the lab. The tape combines real-time data, power consumption, visible tank conditions, computerized process results, and recommendations.



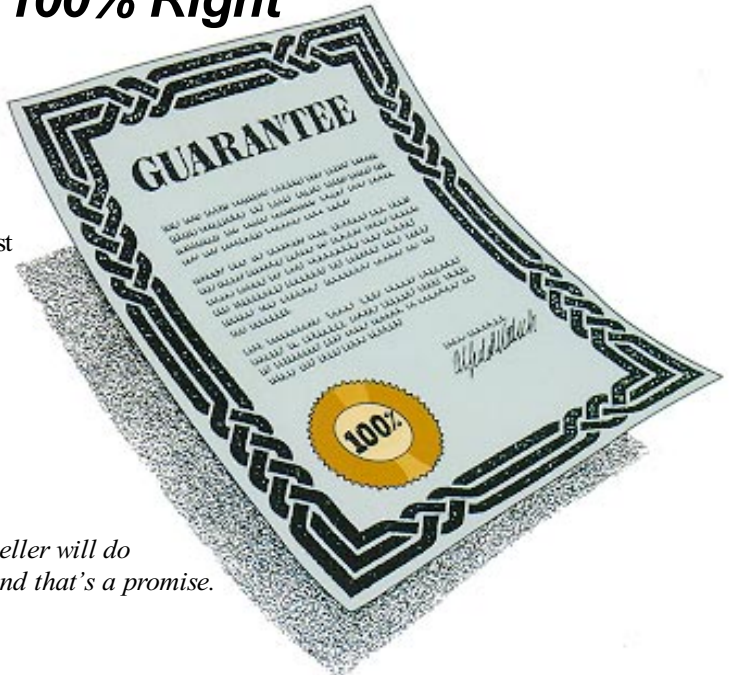
The videotape is a valuable tool to inform others back at your office about test results.




Video shows tank conditions from a variety of angles for optimum viewing and evaluation. It also includes real-time process results in graph form.

Maximum Promise- We'll Get it Done 100% Right

As always, with LIGHTNIN, you're assured total satisfaction. That means your LIGHTNIN mixer will do what we say it will. Period. No other mixer manufacturer offers this promise. And one way we keep it is by encouraging customers like you to bring your toughest mixing challenges to our lab. This way, we can guarantee that you get the max from your mix—from day one.



Your LIGHTNIN impeller will do what we say it will—and that's a promise.



Introducing the Ultimate Customer Service

At LIGHTNIN, customer satisfaction is more than just a goal. It's a promise. • One of the ways we keep it is by providing you with the ultimate customer service: process and mechanical testing at no charge in the new LIGHTNIN Lab & Tech Center. • Located in our worldwide headquarters in Rochester, New York, this 20,000-square-foot facility gives you access to the most advanced research and development technology in the industry. • Our highly skilled application engineers and research technicians work closely

with you to determine exactly which mixer configuration is best suited to your needs. They test your actual materials using the most sophisticated, accurate techniques and equipment. This way, they can solve virtually any mixing challenge while maximizing productivity and minimizing energy outlay. • Combine this with our scale-up testing capabilities and you can be confident you'll receive proper process performance-without costly modifications in the future. • The new LIGHTNIN Lab & Tech Center is a logical extension of our decades of experience in the industry. And it's one more example of our ongoing commitment to the most important part of our business-you.

Contact the LIGHTNIN Experts

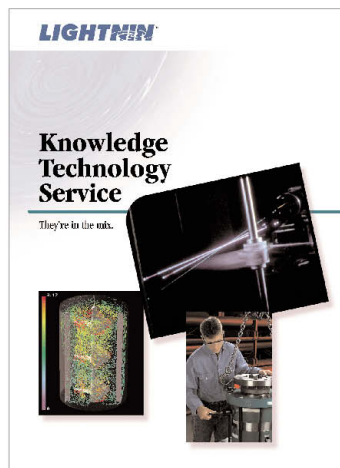
Learn more about other high-performance mixers from LIGHTNIN.

Visit our website at www.spxprocessequipment.com.

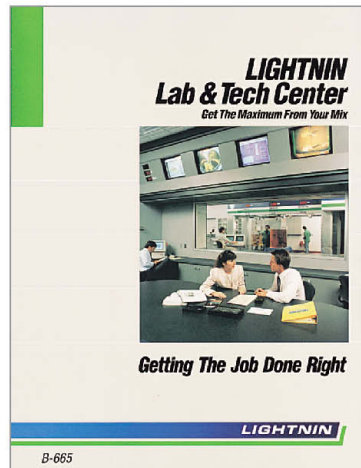
Or call 1-888-MIX-BEST (U.S. and Canada), or +1(585) 436-5550 (Worldwide).



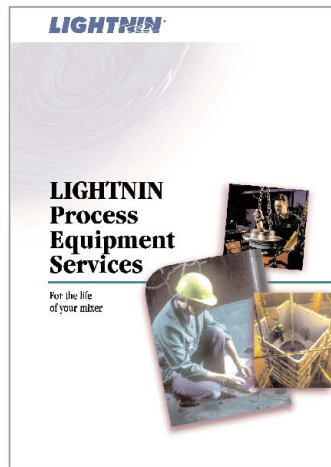
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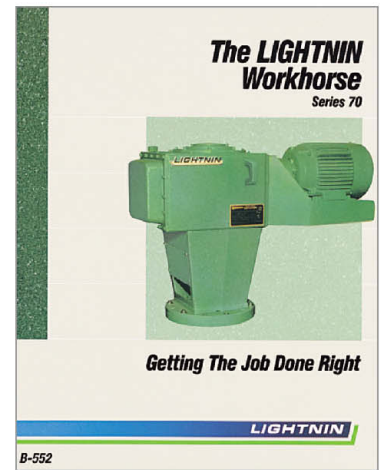
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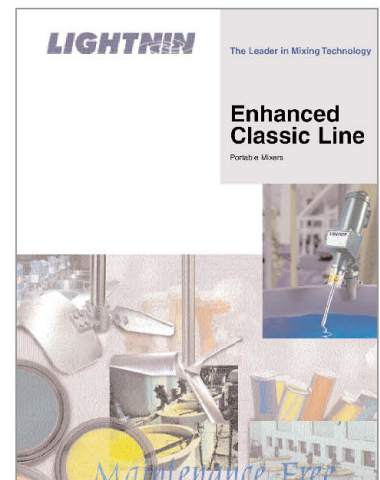
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LIGHTNIN
An SPX Process Equipment Operation

*When it comes to mixing
We never stop*

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