IAC is Vertically Integrated for Maximum Performance

IAC is the Designer, Engineer and OEM Equipment Supplier for a large percentage of the Frac Sand Plant Equipment. This means IAC controls the equipment design and availability. Design, engineering, and fabrication controlled and coordinated by IAC, protecting capacity and insuring proper performance. IAC manages the EPC process by controlling our own engineering, equipment supply, and installation / start-up.

This is significant when you consider the pace of market dynamics can easily outstrip the capacity of Frac Sand equipment suppliers and support services (engineers, site / civil, foundation’s, steel, screeners, tanks, PLC controls, MCC, etc.) resulting in long and costly delays.

IAC is in a unique position to move quickly to reduce time to market and allow our clients to capitalize on emerging opportunities faster and more effectively than anyone else in the business.

Plant Optimization Concept

IAC President, Bob Carter, presents a new “Plant Optimization” concept at 2018 Frac Sand Supply and Logistics Conference and Equipment Expo.

With our core competencies in Frac Sand, we are committed to the business of developing state-of-the-art Frac Sand Plants. For additional background and information on IAC, please take a moment to view our Frac Sand videos:

- Aerial view of one of our newest plants
- IAC’s Frac Sand Plant capabilities
- Read IAC’s Press Releases

IAC’s new Plant Optimization team helps your team operate at capacity. Traditionally, management and owners of frac sand plants viewed optimization as achieving or exceeding the original design “name plate” capacity of a plant. They continually push the plants beyond the physical capability of the plant “control points” to reach a design name plate capacity.

IAC becomes Frac Sand industry leader as EPC Contract Provider

IAC has recently Designed and Built (3) 3.0 MTPY Wet and Dry Plants, (1) 1.5 MTPY Dry Plant, and (2) Resin Coating Plants in just the last 12 months. Two (2) of the 3.0 MTPY plants were constructed in 8 months, the 3rd plant will produce sand in 7 months build time.

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This has resulted in extended downtime, premature equipment failure, employee frustration and poor financial results. IAC introduced the concept of optimizing a plant performance at every point in time based on the various control points of a plant.

View the full press release here

Engineering Silica out of General Industry

OSHAs respirable crystalline silica (RCS) rule for general industry came to be on June 23rd 2018. The new standards adopt a permissible exposure limit (PEL) of 50 micrograms of RCS per cubic meter of air, as an 8 hour time weighted average. This is impacting a wide range of industries from the silica manufactures to its users such as foundries, brick, and glass. The provisions of the standard require employers to develop a written exposure plan, implement best practice housekeeping tasks, and engineering controls to reduce the exposure to your employees. Unlike the Construction rule, General industry doesn't have a table to refer you to develop these steps. IAC recently has helped a brick manufacturer to capture silica dust generate in their hot zones such as the dryer, mixers, and packaging areas. IAC also has a wide range of central vacuums to reduce the man hours for these steps. IAC recently has helped a brick company with an unexpected outage. The previous 2 outages were a result of frozen sprinklers.

Since the Group 1 Mixer IAC baghouse was installed less than a year ago, the IAC team pulled the spare parts list and made sure all components were readily available. These included filter bags & cages, new bulkhead fittings, gaskets, sensors, explosion vents, tube-sheet, blowpipes and hopper access doors.

IAC had an emergency technical advisor and two IAC Blue Crew technicians on-site to evaluate the damages on day one. Once the doors were safe to open, IAC experts found all filter bags disintegrated, the cages charred, and the tube-sheet partially warped. IAC Blue Crew removed all cages and the baghouse went through a wash down and the sprinkler system was checked.

IAC’s field service Project Manager, John Jenkins, arrived on day 3 to supervise the removal and installation of all bags and cages in the Group 2 baghouse. Once the sprinkler system was checked again, the Group 2 baghouse was operable.

The IAC Blue Crew then welded a ¼” metal plate to cover over the 2 rows where the fire had warped the tube-sheet. This solution allowed the mixer to continue to produce product and the baghouse to operate utilizing the salvageable sections of the tube-sheets. Bags and cages arrived on day 5 and the Blue Crew was able to complete the installation and the tire company was operational. The ¼” plates will be removed in December when the 10 new sections of tube-sheet are scheduled to be installed.

Upcoming Events

4th Annual Frac Sand Industry Update
February 6, 2019 | Houston, TX

North American Frac Sand Exhibition & Conference
February 26-27, 2019 | Houston, TX

IEEE-IAS/PCA Cement Conference
April 28-May 2, 2019 | St. Louis, MO

Frac Sand Supply & Logistics Conference
September 4-6, 2019 | San Antonio, TX

www.iac-intl.com

IAC responds rapidly to tire manufacturer

On October 23rd, at 3:14am, IAC Sales Engineer, Steve Klein, received a phone call from one of his accounts. The tire manufacturer had a fire in their Group 1 Mixer baghouse. Early indication was all parts were destroyed and they needed a crew on-site to evaluate the damage and provide quick solutions. In addition, water from the unit’s sprinkler system was broadcast into the Group 2 Mixer baghouse damaging all 316 filter bags. This was the 3rd instance this year where IAC was able to rapidly pull together resources to help the company with an unexpected outage. The previous 2 outages were a result of frozen sprinklers.

IAC has grown rapidly in 2018 hiring nearly 70 new employees with more hires planned for 2019. As a result, IAC has had to increase office space and in early November took over the second floor of the Brill Eye Center Building at 5820 Lamar Avenue in Mission, Kansas.

IAC featured in the December Issue of Global Cement Magazine

Luis Castano, IAC’s Applications Engineer, contributes his expertise in the article “Understanding centrifugal fans for maximum dedusting performance.”

“Fans are the unruly teenagers of the cement plant. They often do what they shouldn’t and don’t do what they should. If we can understand why they behave as they do, they can be helped to fit better into their surroundings and maximize their output.” Read the full article starting on page 20 of the December Issue of Global Cement Magazine.

U.S. Silica praises IAC’s Combination Duel Feed Rotary Frac Sand Dryer/Cooler

“U.S. Silica’s $8 million investment in the site includes new equipment. New, state-of-the-art sand dryer technology installed at the site about doubles the production output from 50 tn/hr to 120 tn/hr.” Read the full article here

Customer Testimonials

Eric Huggins – IAC Sales Manager

Providing system training for our customers is a great way to solidify our relationships and build partnerships.

From a recent training seminar customer

John did a great job with the training and trouble shooting. I highly recommend this training.