JAG PROCESS PLANTS AUTOMATION ROBOTICS

Pharma Storage System Solutions

A one-stop storage solution.

For a safe and plentiful supply of pharmaceutical acetone.

A JAG reference.

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Storing pharmaceutical acetone.
A complete solution for increasing demands.

JAG and the Swiss pharmaceutical company Ferring International Center S.A have been in contact for some time. Looking to expand their acetone storage system in Switzerland, Ferring International Center S.A asked us to complete a preliminary project. Once we had successfully delivered it, they requested an offer.

Ferring Group
Ferring Group is a research-driven, specialist biopharmaceutical company committed to helping people build healthy families and live better lives. As a global leader in reproductive medicine and maternal health, as well as in gastroenterology and urology, Ferring Group is represented in over 60 countries.

Acetone
Acetone mixes very easily with water and many organic solvents. This property means it is often used at various stages of pharmaceutical manufacturing. The ATEX guidelines must always be strictly observed during both manufacturing and storage, as acetone forms highly flammable vapour-air mixtures.

The task
A five-person project team from JAG Jakob Ltd. was tasked with expanding the existing capacity to store pharmaceutical acetone safely and make it available in increasing quantities. As the centrepiece of our complete solution, we designed an acetone storage tank to be installed in a secure underground area, as well as all the components. One of the challenges was to minimize the impact on the existing storage concept when setting up the new installations, and to keep a production line in service without any QA impacts requiring revalidation.

Work started early one summer‘s day in 2023. We carried out all installation work in the open air according to a tight schedule, with minimal interruption to ongoing operations.

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A tank full of benefits.

Convincing in terms of compliance, capacity and safety.

JAG Jakob Ltd. designed a double-walled, single-chamber storage tank in stainless steel, which was installed in an outdoor pit equipped with a retention basin and a concrete cradle. To fill the tank, the trucks have an unloading station which is connected to the automated management system. Most importantly, the tank allows Ferring International Center S.A to store 20,000 litres of pharmaceutical acetone, doubling its previous capacity.

The piping and components were prefabricated in the workshop, then installed and electrically connected to the control systems.

Services provided by JAG

In addition to tank construction, component prefabrication and excavation, JAG was responsible for:

» Project management
» Planning and engineering
» Prefabrication of piping and components
» Installation electrical connection work
» Commissioning
» Qualification
» Maintenance

Client satisfaction guaranteed

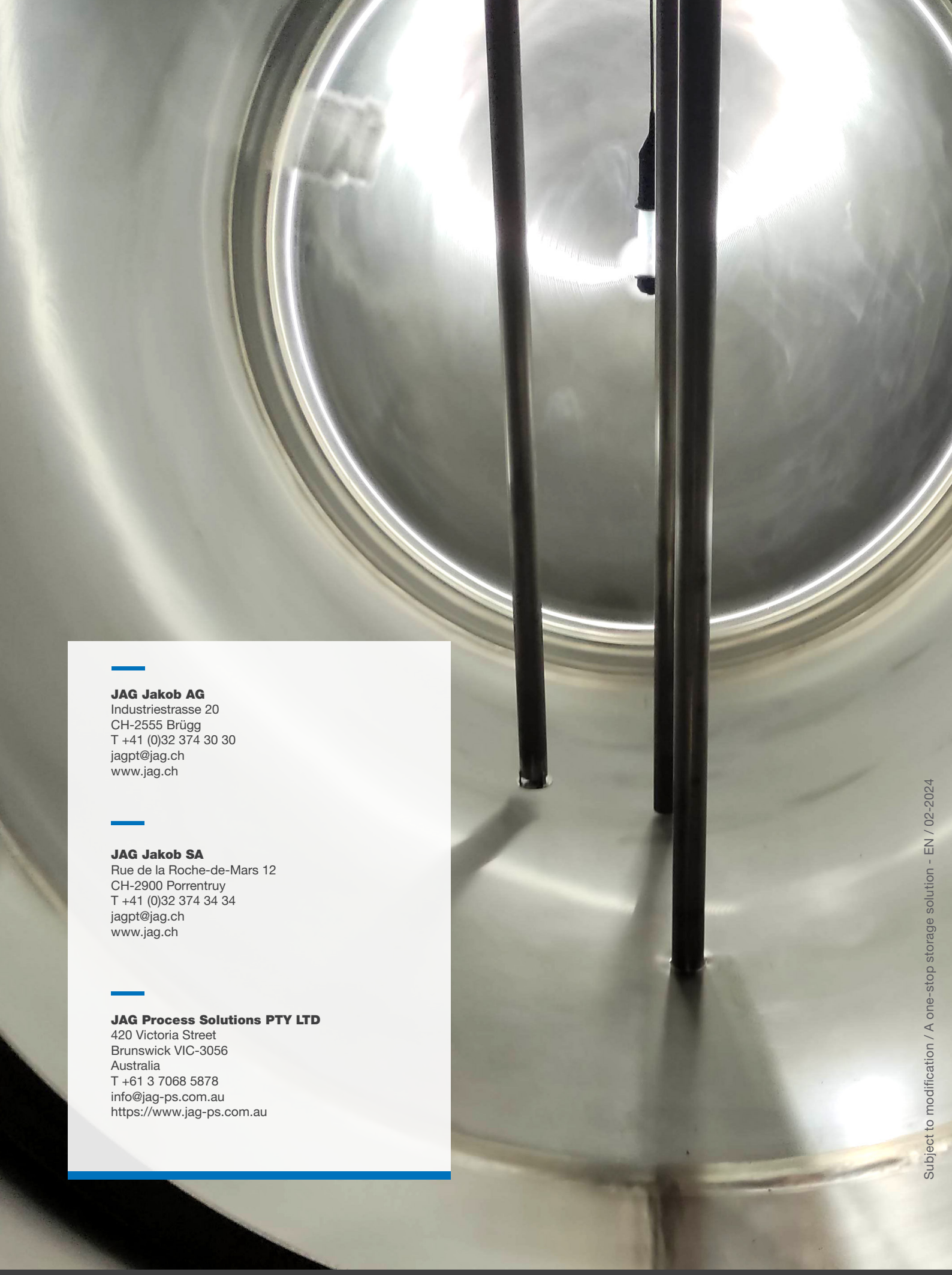
» **One-stop-Shop**
JAG Jakob Ltd. coordinated all the stakeholders and activities. The client was kept informed of the project status at all times and very much appreciated having a single point of contact.

» **Maximum safety**
Because fire and explosion are the main hazards when handling acetone, all necessary personal and environmental protection measures were carefully prepared and implemented during installation, commissioning and qualification. System leaks can be detected at any time and quickly fixed.

» **Full compliance**
All components have been carefully defined in accordance with the ATEX installation directives and standards, and include all the necessary features for GMP conformity.

» **Increased capacity**
The storage solution developed by JAG ensures a high stock level of pharmaceutical acetone, an important factor in helping to sustain the Swiss production site.

» **Increased productivity**
By prefabricating the components in the workshop, JAG Jakob Ltd. was able to stay within the specified narrow downtime window.



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