

Case study: Kingsway Compounding

Overview

Kingsway Compounding approached Cleanrooms Australia to design, construct and install a cleanroom in their existing facility that would maximise floor space, comply with current and future regulations, and provide external viewing of the operating process inside the cleanroom.

Cleanrooms Australia successfully met several challenges throughout the process including insufficient power supply to the premises and lack of roof space in order to successfully deliver the project on time, on budget and to the project specifications.

Background

Pharmacists George Dimaris and Karl Landers founded Kingsway Compounding in 2002 with the goal to make individualised medicine accessible to the public. Today, they are one of Australia's leading providers of individualised pharmaceuticals and health products.

The company operates from world-class laboratory rooms in Brookvale that utilise the most advanced equipment to produce pharmaceutical grade products in compliant cleanroom environments that prevent cross contamination and ensure production meets the highest quality standards.

Kingsway Compounding approached Cleanrooms Australia for advice on designing and constructing a best-practice cleanroom that would comply with current standards while also maintaining compliance with future changes to legislation.

Kingsway Compounding originally proposed turning an existing storage facility in their factory into a cleanroom, and moving their currently stored gear offsite.

The solutions

After a site inspection, Cleanrooms Australia proposed a mezzanine cleanroom in order to not disrupt the existing storage facility and maximise the use of floor space in their factory.

We also recommended that Kingsway Compounding extend the cleanroom to the rear wall in order future proof the facility and allow the business to grow for a number of years without requiring additional space.

The critical factors

During initial investigations, Cleanrooms Australia identified that there was not enough power to the existing premises to run the required cleanroom facilities. We installed a staged unit to solve this problem and ensure the cleanroom would still meet required standards while using only the available power.

Budget was also a factor and the cleanroom needed to be completed within a short timeline. Kingsway Compounding also stipulated that operations within the cleanroom needed to be externally visible to customers through aligned windows in order to provide transparency into their production methods and commitment to quality.

The process

The installation of the cleanroom presented several challenges due to the structural limitations of the factory roof and its inability to support the required weight.

That meant installation required a crane lift from street level, which was conducted on a Sunday in order to limit impact on local traffic and satisfy the strict demands of the facility's body corporate.

Due to insufficient roof space for ducting, we also had to drop the ceiling by about half a metre to free up enough space to complete the installation.

The results

Cleanrooms Australia designed and installed a compliant cleanroom that was able to operate on the limited available power and gave Kingsway Compounding the space to grow for a number of years without the need to upgrade to a larger facility.

We were also able to successfully install the cleanroom despite the structural limitations of the factory roof, and completed a ceiling drop to create the space required for the installation of the cleanroom ducting.

The mezzanine design also maximised floor space and eliminated the need to store gear off site.

Conclusion

Kingsway Compounding is one of our most satisfied customers. Their world-class labs have become a key component of their branding, and their new compliant cleanroom is vital for the company to realise its commitment to the highest quality standards.