



CONVERTIBLE
CLEANROOM



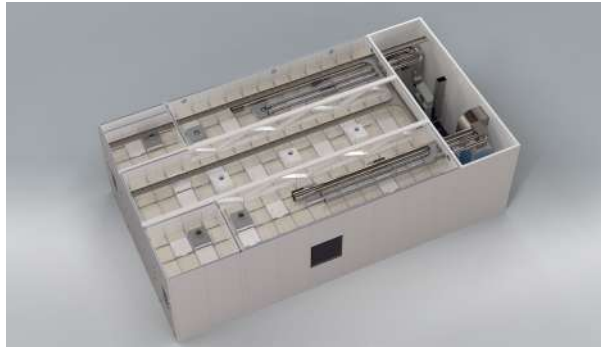
PPG
CLEANROOM
by CLESTRA



PPG

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PPG Cleanroom is part of Clestra Hauserman Group, with headquarters in Strasbourg and with over 1000 dedicated employees, specialised in engineering, life science, biotechnology, architecture, and environmental sustainability.

Cleanroom provider for over 35 years with 1000+ projects successfully delivered worldwide and a global supplier of prefabricated modular turnkey cleanroom solutions.

NAYA ADVANTAGES



ON-SITE ASSEMBLY



FLEXIBLE RE-USAGE
OF SPACE



RISK MANAGEMENT



ON - BUDGET
& ON - TIME



RAPID
MANUFACTURING
& INSTALLATION



ENERGY-EFFICIENT



SCALABLE



GLOBAL SHIPMENT
OPTIONS



WASTE REDUCTION

“WE DESIGN, BUILD AND DELIVER YOUR CLEANROOM IN JUST WEEKS!”

Modular, prefabricated cleanrooms are already changing the industry for the better by advancing the key factors that are vital for good performance and high-quality end-result.

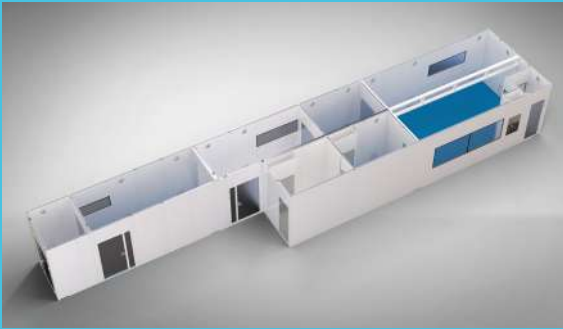
The high demand for cleanrooms across worldwide industries has posed a pressing need to simplify the entire process of designing, building, installing, and validation of cleanrooms.



At PPG Cleanrooms we have created and developed the NAYA Modular Cleanroom, our prefabricated turnkey cleanroom solution that is flexible, mobile and scalable for any cleanroom need.

NAYA Cleanrooms can be designed and produced in just weeks, allowing for significant productivity gains.

NAYA DESIGN



The innovative design of NAYA Cleanrooms allows for enhanced technological usage and flexible re-usage of space.

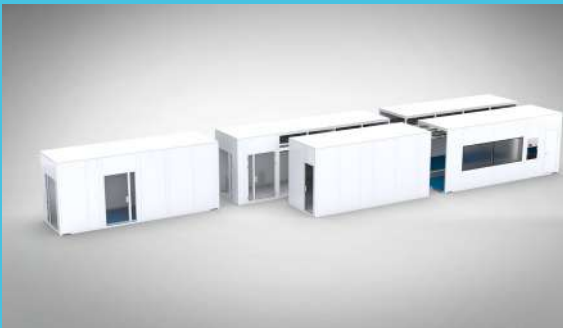
It can easily adapt to any change caused by internal or external factors while maintaining efficiency in responding to current needs.

NAYA is designed as a self-contained, modular unit that integrates all mechanical and architectural requirements of a standard cleanroom within its structure.

It is specifically conceived for easy installation in a variety of environments.



Fully compliant with international GMP requirements, NAYA can easily reach levels up to Grades D, C or B, according to EU GMP.



During each NAYA design, PPG identifies the Critical Parameters relevant for the process, such as humidity, temperature, differential pressure, airflow, particulate levels, data integrity and data precision.

PPG works with the client to identify all specific process-related demands that determine the blueprint of the facility and integrates those into the design of NAYA.

CONCEPT SOLUTION & STANDARD MODULES

Our Concept Solution provides project-based processing cleanroom clusters for a variety of applications such as mAbs, cell and gene therapies, vaccines, etc. They are designed for larger scale areas and infrastructures, as ballroom or unit operation structures.

This approach is excellent for start-up investments since it allows the facility to be easily scaled up to modify or upgrade the cleanroom area for new projects or classification requirements.



Our Standard Modules come in a variety of sizes, each one with bidirectional and unidirectional flow options. They are fully designed and available in eight weeks.

These modules are recommended for cell therapy, laboratory purposes and aseptic filling.



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NAYA COMPONENTS

We manufacture our own MultiWall Partition System which is integrated in our NAYA Cleanrooms: solid, glass and door panels.

This way we provide robust, high quality solutions in our modular cleanrooms, which are consistent with our traditional cleanroom systems.

All elements are specifically conceived for modular cleanrooms, with fully flush connections, thus offering seamless modern appearance and functionality.



With the added value of our MultiWall system we can easily integrate all essential utilities' infrastructure into NAYA's panels.

These include air returns, power outlets, light switches, network cables, gas-based utilities (oxygen, nitrogen, etc.), compressed air, purified water or potentially any other specific use requirement a client may have.

NAYA APPLICATIONS



**BIOSAFETY
LABORATORIES**



**ASEPTIC FILL
/ FINISH**



**BACTERIAL &
VIRAL VACCINE**



**ORAL SOLID
DOSAGE FORMS**

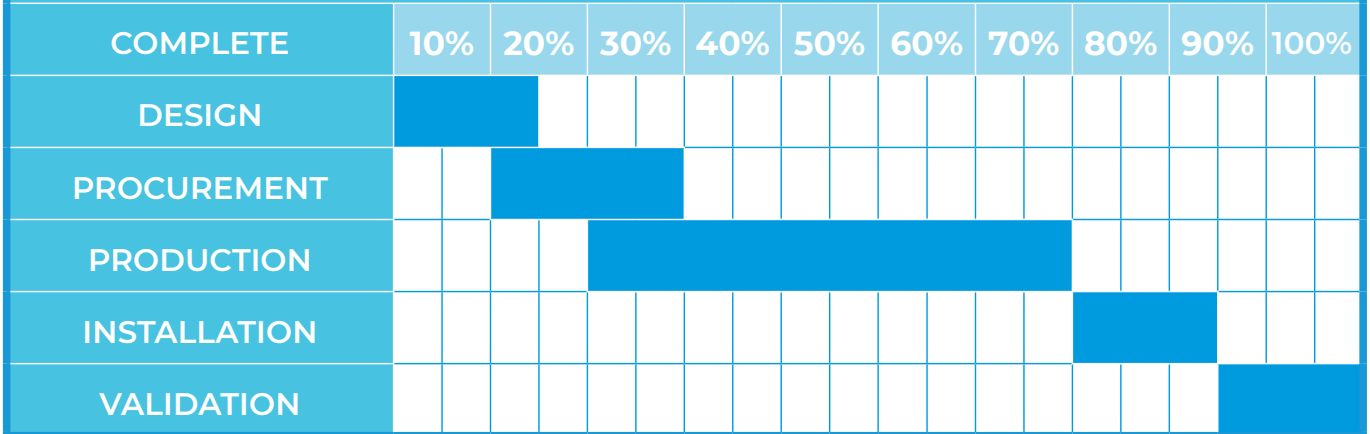


**MONOCLONAL
ANTIBODY**

NAYA TURNKEY PROJECT TIMETABLE

- PREDICTABLE PROJECT PLAN
- MINIMUM WASTE ON SITE
- TURNKEY SOLUTION
- FIXED BUDGET

NAYA MODULES PROJECT PROGRESS



BREAKDOWN OF WORK LOCATION

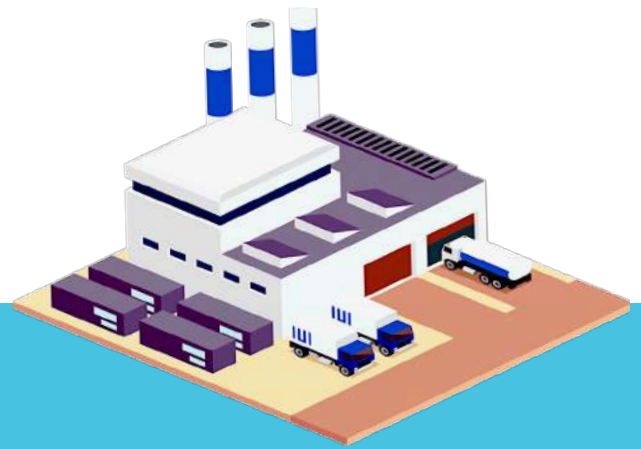


NAYA TRANSPORTATION & INSTALLATION

Each component of our modular cleanrooms is packaged almost complete, with only minimal installation required on-site.

Once manufactured, we package and load the modules and we transport them directly to site.

All sections can be fitted with Air Caster technology, enabling the modules to be easily moved and positioned, ready for final on-site assembly.



OFFICES & PRODUCTION FACILITIES



- PPG | CLESTRA OFFICES
- PPG | CLESTRA FACTORIES

TOTAL: OVER 100.000m2 OF PRODUCTION AEREA



NAYA QUALITY ASSURANCE AND COMMISSIONING

Prior to delivery, we test every component of NAYA with a Factory Acceptance Test and after delivery with a Site Acceptance Test.

Our competent and dedicated Validation team provides a complete on-site qualification and commissioning of the cleanrooms, using our software for paperless validation process.



NAYA is a fully commissioned system. Qualification time and related costs are significantly reduced, leading to a maximised value of the product patent life.





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