# Machinery Limited

Specialists in Paint Finishing Equipment



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## **Unitech Machinery**

Unitech Machinery, where innovation meets excellence. Our state-of-the-art manufacturing facilities enable us to deliver cutting-edge surface finishing solutions tailored to every industry.

At the heart of our success lies our exceptional workforce, comprising highly skilled and experienced professionals. With over 50 years of expertise in these fields, Unitech Machinery has been a trusted name, continuously evolving and integrating renowned UK manufacturers into our business.

Partner with us for unparalleled quality and service, as we take your projects to new heights of perfection. Your vision is our mission, and we are committed to transforming ideas into reality with precision and finesse. Experience the future of surface finishing with Unitech Machinery.







Proudly based in Burntwood, we take full ownership of our production process, manufacturing all our booths right here in the UK at our state-of-the-art factory. Our commitment to quality is unwavering, ensuring that every piece of equipment is meticulously crafted to meet the highest standards.

With a focus on durability, our booths are built to withstand even the most demanding environments, delivering unparalleled performance and reliability. We take immense pride in knowing that our equipment plays a pivotal role in optimizing productivity for our valued clients.

## **Bringing your project to life**

At Unitech Machinery, our unwavering commitment to excellence shines through in both the exceptional quality of our products and our unparalleled expertise in the industry. With over five decades of experience, we stand as a trusted market leader, offering our esteemed customers the peace of mind that comes with working alongside a true industry pioneer.

No project is too large or too complex for Unitech. Whether it involves a comprehensive powder coating system or a straightforward box oven, our approach remains steadfast and uncompromising. Leveraging our extensive engineering experience, we consistently deliver innovative, state-of-the-art solutions to a diverse range of market sectors, including Automotive OEM, Commercial Vehicles, Manufacturing, and Aerospace.

Emphasising a consultative approach, we take the time to understand your unique requirements, offering expert advice on design, specification functionality, and aligning with your current and future process needs. From the initial planning and meticulous CAD/3D design to the flawless execution during manufacturing and installation, our team of specialists remains dedicated to supporting your project through every stage, ensuring its successful completion.

Partner with Unitech Machinery and let us elevate your business with tailor-made solutions that redefine industry standards and drive your success to new heights.

## Solution led design



At Unitech Machinery, we offer both standard and fully bespoke spray booth solutions. Our experienced designers, engineers and installation teams can build a spray booth to meet your exact requirements.

All spray booths are manufactured in the UK at our own factory. Our equipment is always high quality, robust and designed to last in the busiest of environments. We take great pride in providing equipment that delivers high performance and reliability.



## Innovation in the palm of your hand

As part of our bespoke solution, our in house software design team can provide you with the full control over your processes that you need. This innovative and adaptable control system offers features to help you optimise efficiency throughout your processes.

#### Some of these features include:

- Manual Pressure correction 5 stages.
- Air Flow management enhancing energy efficiencies.
- Input and extract Filter condition monitoring and warning systems.
- Temperature and humidity control and monitoring.
- Conveyorized/automated line integration based on client processes.
- Maintenance & Running hours warning systems.
- Mist clearance indicators for the safety of operatives.
- Fault monitoring and warning indicators.
- Monitoring energy efficiency.
- Programmable settings, based around your processes.
- Data recording, assisting process auditing and monitoring.
- Fire and warning systems compatible for shut down in the event of an incident.



#### We give you full control over your processes

## Efficiency & Economy at your fingertips

#### Efficiency without compromise...

Programmable to meet the needs of your processes, Unitech offer operatives the ability to set airflows and temperatures within the booth to ensure the booth is used in the most efficient way. Our in house software team, work with our clients to combine productivity with efficiency, throughout your individual processes.

To minimise running costs without compromising productivity Unitech provide a number of energy saving solutions.

#### These include:

With energy costs and carbon footprint being at the forefront of people's minds Unitech offer a variety of energy saving options to help reduce energy costs. Programmable to meet the needs of your processes, our in-house software team, work with our clients to combine productivity with efficiency, throughout your individual processes, ensuring the highest possible levels of efficiency, without impacting on productivity or the safety of your workforce. In partnership with our clients, we target times where spray operations have stopped, but with the booth still running. These times, such as masking up, are where inefficiency is at its highest. We target these times with standby modes, increasing efficiency where it makes the most impact.

When heat is required within a product, our panels comprise of two steel sheets sandwiching a nominal 50mm thickness of insulation material. Not only does this offer great energy efficiency and strength but achieves EN 13501-1 Euroclass A2-s1, fire safety classification, giving 30-minute fire safety as required by British standards.





## **Efficiency without compromise**

Lighting accounts for nearly 5% of global CO2 emissions. A global switch to energy efficient LEDs could save over 1.4 billion tons of CO2 from being emitted into the planet's atmosphere and avoid the construction of 1250 power stations. Replacing outdated fluorescent lighting to modern LED options can provide as much as 75% energy savings.

For larger scale projects, this innovative service allows us to demonstrate the design of the booth, from product entry doors through to extraction units and ducting.

## Walk into the light....

• All Unitech spraybooth's are fitted with energy saving LED lighting systems giving improved illuminance whist offering a much longer life, estimated to be as high as 10 times longer than conventional fluorescent tubes.

• PIR Lighting with adjustable settings can be controlled by your interactive touchscreen, to dim and switch off automatically, based upon client settings.

• Our LED lighting can be designed and positioned to meet the needs of your product and process to maximise the benefits LEDs offer.





Just one LED bulb can reduce greenhouse gas emissions by almost half a ton.

### **Project Management** *from start to finish*

From first contact through to commissioning and training, Unitech ensure we have a team of people to help bring your facility to life. Utilising our years of experience across all sectors, we will create a specification to match our needs.

Supporting that specification, Unitech can produce detailed drawings to show the specified facility within the area it will be constructed. If needed, to help visualise your booth, our team can bring the booth to you via our 3D modelling service.

For larger scale projects, this innovative service allows us to demonstrate the design of the booth, from product entry doors through to extraction units and ducting.



Once your facility goes into design and manufacture, a dedicated project manager will work with you to ensure a successful and smooth installation.

#### This support will include functions such as:

- Ensure direct communication.
- Coordinate other civil works and service providers are in place.
- Arrange for direct delivery with our own fleet of vehicles.
- Ensure the Installation is undertaken in accordance with H&S Guidelines.
- Coordinate commissioning, training, and hand over.
- Support as your business begins production in your new facility.

CLICK HERE to see our interactive 3D design

## **Designed for you,** *engineered to last*

Our range of Automotive Spray Booths are built to accommodate almost all building types and are designed specifically for the challenges of a busy bodyshop.

With your choice of airflow and extraction types, we offer cost-effective, high-quality spray booth ovens that your business can rely on.

Designed to operate with, or without extractions pits, our Automotive Spay Booths are economical to run, helping to reduce your ever rising energy costs.

Working in partnership with our customers our consultative approach and attention to detail allows us to evaluate all key factors, ranging from paint application and the correct positioning of the booth through to the airflow best suited to the building and application.



Our aim is to help grow your business and maximise your capital investment, both now and in the future.

## **Industrial Paint Solutions**

At Unitech Machinery, we design, manufacture, and install a vast range of industrial spray booths and ancillary equipment. From simple preparation rooms to large spray booths for commercial aircraft parts, we can provide a purpose built solution to suit your exact need.

#### Our full range comprises:

- Dry filter extraction units.
- Dry filter spray booths and rooms (open fronted and enclosed).
- Water wash spray booths, closed and open fronted, with rear water curtain pumped and pumpless.
- Enclosed underfloor extraction systems.
- Large industrial dry filter spray booths.
- Booths for aircraft, railway carriages and other large equipment.
- Downdraft spray booths for aircraft railway carriages and construction equipment.
- Waste water treatment facilities.





Talk to us about spreading the cost of your investment

## **Commercial Paint Solutions**

Due to the wide variety of needs within the commercial painting industry, Unitech Machinery partner with the client to understand both the needs of the paint, the product, the process and the clients' long-term plans. With a proven track record and the experienced gained over 50 years, Unitech design, manufacture and install, complete paint facilities engineered to offer high quality products built to last in the most demanding of environments.

Supporting our customers, we provide a number of services, ranging from an inhouse design team, experienced at offering fully bespoke solutions, through to dedicated project management throughout the installation programme.

In combination with our in house service department and customer support team, we offer a comprehensive warranty, giving our customers full confidence in our proven ability to deliver paint solutions of the highest quality.



### Within the demanding and evolving commercial painting industry, we offer bespoke specifications including:

- Any Size SprayBooth/Oven.
- Airflow rates suitable for booth dimensions and budget.
- Pit Extraction, Side Skirt Extraction or Rear Chest Extraction.
- High & Low-level LED Lighting solutions.
- Engineered to suit your paint finishing processes.
- Design to meet any restraints your building may have, helping to utilise all available space and minimise the impact on valuable floorspace.

## Stand alone or conveyorised lines?

With rising energy costs having a direct impact on production costs, we work with our clients to ensure our bespoke solutions are tailor made to minimise energy consumption, helping to minimise both commercial cost but also helping us all to minimise our carbon footprint. In addition, our Unitech Commercial Spray Booths have the ability to recognise when paint spraying operations are not taking place, and switch to an energy saving recirculation mode. These periods include loading & unloading or during the masking up process allow savings of up to 90% during these times.

Within the commercial vehicle sector, it is sometimes necessary for operators to work at high levels. To ensure operator safety, fixed pneumatic lift systems can be installed, helping clients to help meet all health & safety guidelines. The lift system is controlled by the operator using controls located at the front of the platform. The platform travels on a guide rail system fixed securely to the booth structure allowing the operator to safely reach high risk areas. The platform allows the operator to move vertically and horizontally around the product, and in combination with fall arrest systems ensures the safety of the operator.





Minimise your running costs without comprimising productivity

## **Designed around your business**

Our water wash spray booths use the latest technology to eliminate paint from the air (as well as dust and fumes) – enabling you to maintain a thoroughly safe and clean working environment. They provide an efficient air scrubbing system, using both pumped and pumpless methods of operation. The water scrubbing action effectively removes particulate matter from the airstream, whilst banks of eliminators remove excess moisture prior to discharge into the atmosphere.

Similar to a dry filter spray booth, a standard water wash spray booth uses water instead of exhaust dry filters to efficiently catch any overspray. The spray is collected and trapped in a curtain of moving water, which is then flushed into a collection tank below – allowing waste to be easily removed on a continual basis.

They are ideal for powder coating and spray painting applications – widely used in the automotive, aerospace and marine industries.



### Within the demanding and evolving commercial painting industry, we offer bespoke specifications including:

- Standard or bespoke sizes built to your specifications.
- High-grade, stainless steel construction.
- Fully welded, stainless steel tank.
- High-volume capture efficiency.
- Circulating water to form a constantly flushed system.
- Highly efficient spray nozzles to improve scrubbing action.
- Complies with current health and safety legislation.
- Low-cost maintenance.
- Installation services available upon request.

## **Specialist solutions**

At Unitech Machinery, we design, manufacture and install specialist equipment such as powder coating ovens and paint curing ovens. We take great pride in supporting the paint and surface finishing industries – both at home and overseas. We understand the specifications for your oven will be completely unique, therefore we have a range of highquality powder coating ovens for sale, suitable for every application.

Our ovens are designed to improve the strength and durability of a material by accelerating and causing a chemical reaction to the paint. It's able to achieve this by raising the temperature of a product to a specific limit. For example, when used in powder coating, the powdered molecules heat to a point where they bond with each other and are able to fully coat the surface.



We understand that each client has unique requirements

## **UK manufactured**

Our industrial ovens are supplied to many industry sectors – notably aerospace and automotive industries, as well as composite manufacturing and plastic production facilities.

All of our ovens are built and sold to the same high standards, using a range of materials dependent upon the required temperature necessary for the process. They are designed to run continuously for many hours. Control systems offer a range of options for data logging and acquisition.

Our UK manufactured Heat Treatment ovens can be used for a variety of products such as many ferrous and nonferrous metals, composites, plastics and carbon fibre. Unitech ovens offer a wide range of temperatures, meeting the needs of a variety of processes and can be powered by gas, electricity, steam or fuel oil.



High temperature ovens designed to offer safe, reliable and efficient solutions in any environment

## Bespoke solutions for any process

In any business and any market, automated and conveyorized systems are a vital tool to improve productivity and limit human intervention. We work with our clients to design tailormade solutions designed to meet the most demanding processes.



Our inhouse design team have years of experience, coupled with experience across all sectors, to help create a process suitable for the safe and cost-effective production of your products.

From the very beginning we will work with you to a develop a design that meets your business objectives. Whether it is for improved safety, increased production or an investment to reduce production costs, we will support you to create a solution to meet the demands of your business.

We will develop a design that meets your specific business objectives

## Creating a safe & productive workplace

Automating your paint facility can help your business in countless ways.

#### These benefits include:

- Lowered operating costs.
- Improved worker safety.
- Reduced factory lead times.
- Faster Return on investment.
- Ability to be more competitive.
- Increased production output.
- Consistent and improved part production and quality.

- Smaller environmental footprint.
- Better planning.
- Reduced need for outsourcing.
- Optimal utilisation of floor space.
- Easy integration.
- Increased productivity and efficiency.
- Increased system versatility.



Safety without compromise

## **Protecting your workforce**

Our paint kitchens and mix rooms compliant the large range of spray booths we offer. They are manufactured in various sizes and are a standard requirement for storing and mixing paint materials. This includes thinning and blending paints prior to application, along with post application gun cleaning.

These self supporting structures are engineered to support air tight environments, which have industry leading lighting and ventilation systems. Each room is built with priorities on strength and safety. We ensure that each paint mixing room complies with all HSE regulations and guidelines.

All mixing rooms require constant ventilation to provide worker safety. We incorporate ventilation systems that pull air into the enclosure, to protect operators from breathing harmful vapours. We can offer the option of heating and external siting if required.



- By using a paint mixing room, you will limit your exposure to paint fumes and toxic compounds. The more exposure – the greater you are at risk of developing respiratory issues.
- Paint mixing rooms also help increase productivity. They allow for efficient, organised and controlled areas to work in.
- Having all of your supplies and equipment stored in a single, dedicated room helps reduce clutter around your facility.
- Helping to ensure all H&S Regulations are adhered to.
- Offering a Safe working environment for operatives.
- Fully temperature and ventilation controlled if required.



## **Always there for you**

Our dedicated, highly skilled department are on hand to help ensure booths of all makes are both compliant and help ensure productivity targets are met. We stock a large range of spares and filter media, in order for us to support a wide variety of plant and equipment. Our after sales team can offer extended warranties on new equipment and will provide you with all the necessary certification requirements including, LEV testing, fully accredited gas servicing and install, temperature calibration, mist clearance testing and many other services.

The team is capable of rapid response to any issue, ensuring minimised downtime and maximised production.

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- Service & Maintenance.
- Parts and Spares.
- Breakdowns.
- Remedials & Repairs.
- Relocation Services.
- LEV & Certification Services.



### Services to help support your business growth

With over 50 years of experience, Unitech can help refurbish, repair and relocate Spray Booth facilities. In an everchanging environment, we can help you stay efficient and productive.

#### These services include

- Ducting.
- Refurbishments.
- Relocations.
- Energy saving making equipment more efficient.



## **Engineering for a greener future**



Recognised globally as an innovator in all aspects of the vehicle exteriors, our client supports OEM manufacturers create state-of-the-art vehicles across the world.

To support our clients, drive towards reducing their environmental impact, without negatively impacting on production Unitech were tasked with finding ways to help them to become more efficient. Getting involved at this initial concept stage, Unitech, in partnership with our client, devised a solution to recycle wasted hot air from their compressors.

This air, heated as a byproduct of onsite compressors, was previously exhausted to atmosphere via ducts in the roof. Through both consultation and collaboration, an innovative concept to recycle this once, wasted energy was developed. Using experience gained over 50 years, Unitech designed, manufactured and installed this bespoke solution. We are currently working with the client to monitor and record the energy saving results.

#### "Through our partnership with Unitech, we anticipate to be saving around £500,000 per year..."

## What savings could you be making...

CLICK HERE to register interest

## Commercial & Industrial manufacturing



Unitech have proudly worked with one of the world's leading providers of Industrial and heavy commercial vehicle manufactures. As a trusted supplier we provided full paint facilities across multiple sites in the UK. With the uncompromising need to be manufacturing 24/7 our client relied on us to provide facilities that were not only robust enough to withstand the requirements of their products and processes, but also reliable when working in the harshest of environments.

With our years of experience supplying full paint facilities our client relied on us to provide innovative solutions to meet the needs of their growing portfolio of products and the changing needs of their surface coating materials.

When working with such large and heavy machinery, Unitech worked across all sites, providing remedial and repair work, minimising downtime, and ensuring production targets were met. To supplement this, Unitech provide service and maintenance for all equipment, offering continuity of service and standards.

World class toughness, with a finish to match

### **Automated Paint Facility**



Our client, specialising in industrial and automotive coatings appointed us to provide a full paint facility, comprising of Spray Booth Ovens, Preparation Booths, Ionising Enclosure, box and tunnel. Through our consultative approach Unitech identified that a complex but efficient conveyor system would best meet the needs of the client.

The solution, not only maximised efficiency through use of our conveyorised design, but it also allowed for a faster and more cost-effective use of energy. This reduction in energy consumption, allowed our client to see an overall fall in their manufacturing carbon footprint. This complex solution-based design allowed a difficult, and at times, slow process, to become more simplistic, more efficient and more suited to the current and future needs of our client.

Automaton designed to meet the most challenging processes

## Automation - combining productivity and quality





The plant was designed and built for our West Midlands based customer, a well-respected specialist coating company with many years of trading in Automotive and decorative coating work for a global brand.

The facility incorporating cleaning areas, paint application, flash off and curing zones. It has been designed and manufactured in our Burntwood premises.

A sophisticated control system operates the plant with energy efficient, variable speed motor drives, modulating burner systems and LED lighting.

Operator interface is provided by a large HMI giving access to plant status, alarms, warnings etc.

Our engineers built, wired and commissioned the plant including additional jobs such as cutting and sealing the clients roof for the ductwork routes.

## **Aerospace Paint Facility**

Working with our customer, we designed and developed a full paint finishing facility, incorporating an overhead conveyor system. Our bespoke design was based on providing a solution that increased production capability without compromising the quality that is required within a highly regulated industry.

This facility covered all aspects of paint finishing, including Paint Kitchens and Spray booths, through to polishing and stoving. In partnership with our client, we provided technical solutions that allowed for greater energy efficiency, playing an important role in reducing the carbon footprint.



#### **Products:**

- Overhead Conveyor systems.
- Spraybooths.
- Polishing booth.
- Ultrasonic degreasing system.
- Box oven.
- Tunnel oven.
- Shot Blast Facility.
- Paint kitchen.

## UK designed and manufactured solutions across the globe

## **Turnkey Design and Build**

The plant was designed and manufactured at our Staffordshire factory to provide a new facility to apply decorative and protective coatings to our client's huge range of interior aircraft cabin components installed in first and business class environments.

The facility caters for the entire process of paint and powder coating from start to finish, from cleaning and blasting to coating and polishing, a total solution.

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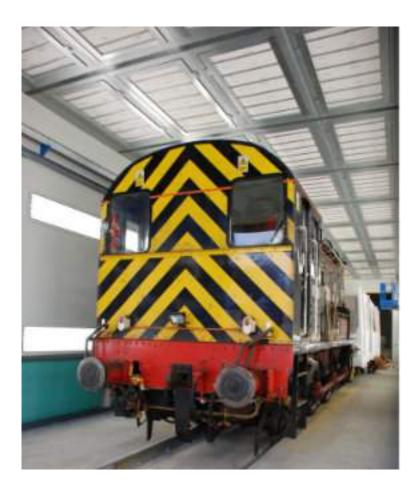
We travelled over to the site to view the factory build and meet with engineers along with some local contractors. During the manufacture period we assembled the site team, arranged shipping and organised local labour. The manufacturing, installation and commissioning was carried out on time and to the client's approval culminating in training and successful buy-off of the facility. The success of the project was the result of a great deal of effort and team work, with the site team being in the Philippines it was doubly important to ensure everything went smoothly so it was very rewarding for the client's engineering manager to state

'I just wanted to say thank you to you and your team – you've delivered a fantastic facility and the professionalism shown by everyone was an example to all.'

## **New Rail Paint Facility**

Following the success of numerous refurbishment projects, the client decided to invest in a new facility to supplement the existing booths already on site. As with many clients, the outline of the project was to maximise production alongside improving the overall processes energy efficiencies. With a range of processes being used within the facility, it was important to ensure both airflows and temperature rises were suitable across these paint processes.

As with all manufacturers, worker safety was paramount, especially in such a demanding environment. So to solve this, Unitech provided safe working platforms for operators to use. These "Wallman" systems allowed for workers to work at the required heights both safely and efficiently. These platforms are able to be moved along the booths, as well as up and down, gave operators the freedom to complete spraying activities to the standard required.



#### **Products:**

- Overhead Conveyor System.
- Spray Booth and combined Stoving oven's.
- Airflows and temperature rise designed to maximise throughput.
- Capability of curing paint finishes at 80°C.
- Flash off system to enhance drying of water-based coatings.
- Data Logging and Temperature uniformity.

## Reliable and efficient productivity...



### **Rail Finishing Solutions**

Unitech were contracted to consult on both the booth specification and the processes at the initial planning stage. Working at this early stage allowed us to ensure all aspects of the paint finishing processes were designed into the processes. Doing this in the early design stage, ensured that the processes and the booth specification were designed in such a way to offer efficiencies in both production time and the associated costs.

The installation features LED lighting throughout, variable speed drives on motors, modulating gas burners and pneumatic lifts to give safe access to all areas of the booth.

The booth itself is 30.0m long comfortably enclosing a rail carriage. The equipment was designed and manufactured in our Staffordshire factory including the sophisticated controls and software Systems, making complex processes easy to manage.

The project has fulfilled all the required criteria, saving energy, reducing cycle times, in a simple to operate and intuitive package booth.

## **Powder Coating Facility**

#### **Products:**

- Conveyor system.
- Pre-Treatment System.
- Dry Off.

- Paint Mixing Room.
- Oven Automated Powder Oven.
- Curing Oven.

We recently completed a project for our client, a Yorkshire based family run business dating back to 1927 being a leader in the field of innovative sign solutions.

The facility is a complete powder coating plant designed to fit in to an existing building and able to coat items up to 3000mm long. The system is designed to provide a fully automatic process with rapid colour change ability.



## Automotive solutions...

#### **Products:**

- Preparation Booth.
- Spray Booth Oven.
- Paint Mixing Room.
- Stoving oven.

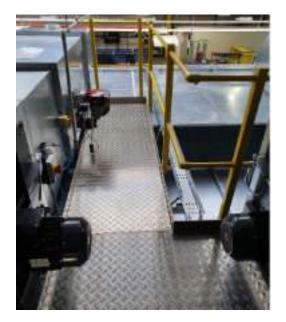
The clients customers accept nothing less than a first class paint finish on all components supplied.

The facility provides a production style process to prepare, paint and dry paint finishes in a huge array of colours.



Each zone is suitably equipped for the operation being undertaken with heating and ventilation carefully specified for optimum performance and quality.



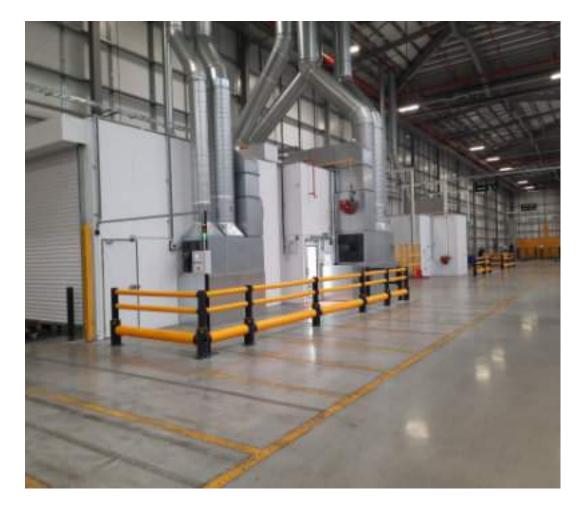


As Part of the project, we installed access walkaways to ensure that plant service and maintenance can be carried out easily and safely.

Our engineers built, wired and commissioned the plant including additional jobs such as cutting and sealing the clients roof, installing the gas, air and electrical utilities to the plant making this a full turnkey installation.

## **Performance & Productivity**

Unitech Machinery has recently completed a project for an automotive client. The large facility was designed to pre-treat, dry off, coat and cure water borne wet paint finishes on an extensive range of fabricated items. The facility comprises a washer, dry off oven, cooling zone, spray booth, heated flash off and a paint kitchen with application systems. Our sophisticated control system runs the plant providing an efficient and safe operating process. Our collaborative approach ensured our client has received a system capable of meeting all of their requirements.



#### **Features:**

- Energy efficiency.
- Temperature uniformity.
- Heated flash off to enhance. drying of water-based coatings.
- Controllable airflows.
- Bake cycle.
- Roller shutter door.

## **Embracing the future**

As an innovator in engine plant production, our market leading client understands the need for both quality and efficiency. For this reason, Unitech were appointed to design, manufacture and install a complete Robotic Plant line, capable of operating with both heavy and cumbersome products. Our bespoke design allowed us to offer a bespoke and innovative solution that not only met current need, but also allowed for production redundancy supporting growing demand. Working with the client to understand the requirements, we combined the needs of both the surface finishing products being used, but also the efficient process they are looking to achieve.

The overall design included processes such as drying by infra red cure cooling, allowing parts to be worked on within minutes of exiting the cure facility and, due to the weight and size of products, a conveyor system to move the product both efficiently and safely. This complex and demanding system allowed Unitech to deliver solutions improved efficiencies and safety within the manufacturing processes of a wide range of products.



### **Global Customers**

- JCB
- BAE Systems
- Rolls Royce
- Bentley
- Durr
- George Koch
- Maier

- Portsmouth Aviation
- Jaguar Land Rover
- Terex
- Cummins
- Magna
- Nova Alloy
- Flexitallic

- Leyland Trucks
- Collins Aerospace
- Bruderer
- Datalec
- Stormking Plastics
- ACT
- A1 Automotive





Tel: 01543 685565 www.unitechmachinery.co.uk Engineered Paint Finishing Systems



