



**WET PRESS SOLUTIONS
MOULDS & TOOLING
PARTS, SERVICE & SUPPORT
MACHINE UPGRADES**

EXPERTISE WITH GLOBAL CAPABILITY

Columbia Wil El Mil - Setting the Standard with Superior Quality

For more than 50 years, Columbia Wil El Mil Engineering has specialised in the design, manufacture and support of wet press concrete production systems, delivering over 50 installations worldwide. Built in the UK and engineered for durability and precision, our equipment is trusted by producers seeking reliable, high-performance wet press technology, capable of delivering consistent product quality and long operating life.

WET PRESS EXPERTS SINCE 1974

By combining specialist wet press knowledge, UK manufacturing capability, global supply chain strength and comprehensive aftersales support, Columbia Wil El Mil provides customers with a long-term engineering partner focused on keeping production running efficiently, reliably and profitably.



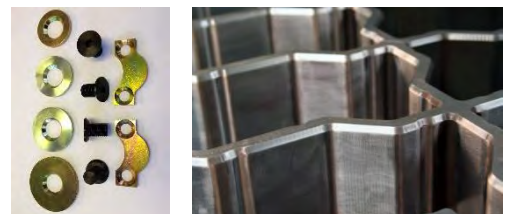
THE COLUMBIA GROUP

Today, as part of the Columbia Machine Inc., our capabilities extend far beyond wet press machinery alone. By combining Wil El Mil's specialist engineering expertise with Columbia's global manufacturing and supply network, we provide customers with industry-leading machinery, competitive pricing and dependable international supply chains.



PRODUCTS, SERVICE, SUPPORT & AFTERCARE

Beyond wet press systems and tooling, Wil El Mil provides spare parts, technical support and service for Columbia block machine installations, supported by UK stockholding for rapid response and minimal downtime. We also support plant installs, upgrades, system integration and support non-OEM machines through refurbishment, upgrades and improvements.



CONCRETE WET PRESSING

Developed in Gloucester UK the home of Wil El Mil

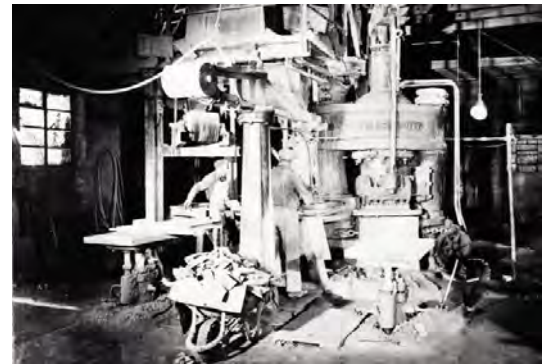
In 1890 the UK company Fielding & Platt developed the 1st machine for 'Wet-Pressing' concrete.

The British Standard for kerbs and slabs was based on the wet pressing process due to the unmatched quality of the products.

Other countries have since adopted the British Standard to guarantee the same high quality.

The wet pressing process requires a filter. Originally the only filter material was paper. Paper requires manual placing and removal so full automation was not possible. The introduction of semi-permanent filters in the 1990's made full automation possible.

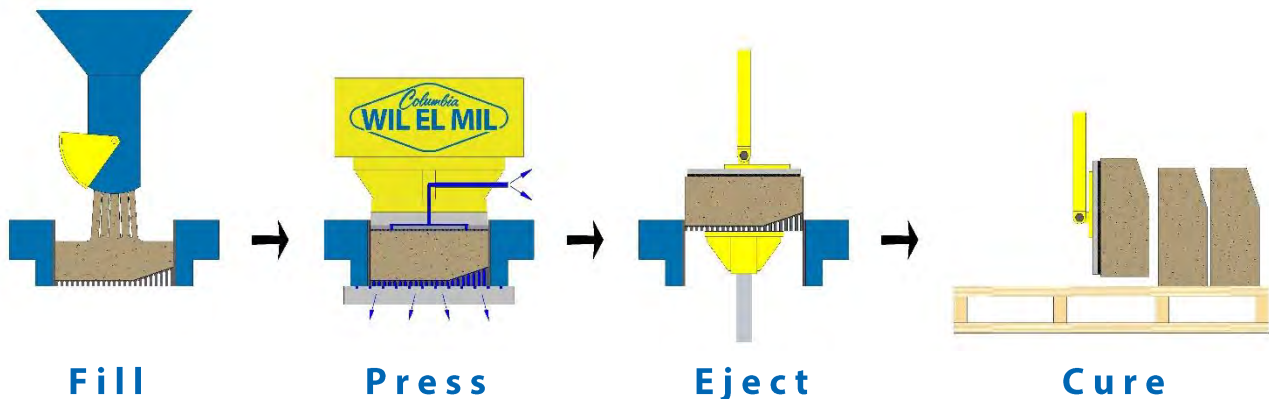
Following the closure of Fielding & Platt, Wil El Mil introduced a new generation of wet pressing equipment. Wil El Mil presses are now running successfully in many countries around the world.



'By kind permission of Gloucestershire Archives'



THE WET PRESSING PROCESS



- Achieves the highest quality kerbstones and slabs
- Wet-Pressed products are the 1st choice for use in harshest of environments
- Wet-Pressed products comply with the most stringent national and international standards
- No vibration, minimum noise level and high machine / mould life
- Wet-Pressed products require minimum cement usage and can be reduced further by adding fly ash
- No additives required



CONCRETE WET PRESSES

Columbia Wil El Mil Wet Presses are high-capacity hydraulic forming systems designed for the efficient production of high-quality wet pressed concrete products. Built on more than 50 years of wet press engineering expertise, the machines combine robust mechanical construction with modern hydraulic and control systems to deliver consistent product quality, long service life and dependable production performance.

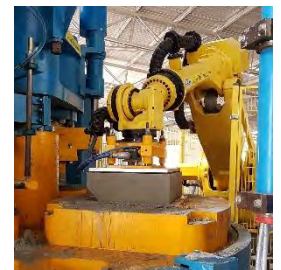
MODEL VARIANTS

- 400 Ton 3 Station Press
- 400 / 500 / 600 Ton Single Station Press
- 400 / 500 / 600 Ton 3 Column 3 Station Press
- 600 / 800 Ton Quad Single Station Press



HANDLING & AUTOMATION

- Manual take-off systems
- Semi-auto or Fully automated product handling
- Integration with curing, palletising and wider plant automation
- Configurable automation levels to suit production requirements



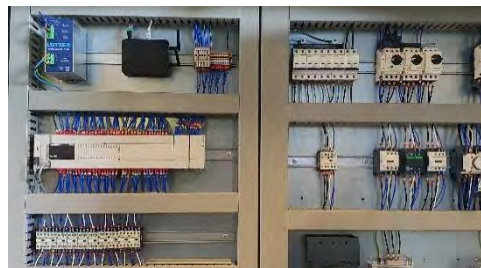
HYDRAULIC POWER UNIT

- Hydraulic / Pneumatic Systems designed and built in-house
- Self-contained Hydraulic Units away from the Press with easy floor level access



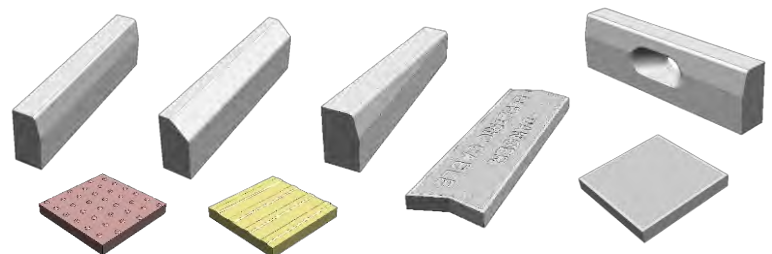
ELECTRICAL CONTROL SYSTEM

- Systems designed and built in-house
- Remote dial in support
- VFD motor control
- HMI touchscreen, intuitive setup and diagnostics



APPLICATIONS

- Kerbs, paving slabs and drainage channels
- Architectural concrete products
- Quadrants and return angles
- Specialist or bespoke concrete components
- Low to medium production volume products



ADVANTAGES

- Proven wet press engineering heritage
- Heavy-duty industrial construction
- Lower capital investment compared with multi-station presses
- Flexible tooling for specialist product manufacture
- Consistent product quality and reliable production performance



3 STATION WET PRESS

Columbia Wil El Mil 3 Station Wet Presses are available in 2 or 3 column configurations with Press power ranging from 400 to 600 Ton fitted with our ARC™ system. Complete with our concrete precision volumetric dosing PVD™ system, both the Press and PVD™ systems have manual, semi-auto or fully automatic control as standard with an intuitive HMI touchscreen for setup / monitoring. The package is completed with one of our Take off systems, with manual, high speed full auto or robot options available and can be tailored to suit the customers requirements.

MODEL - 400 Ton 3 Station Press

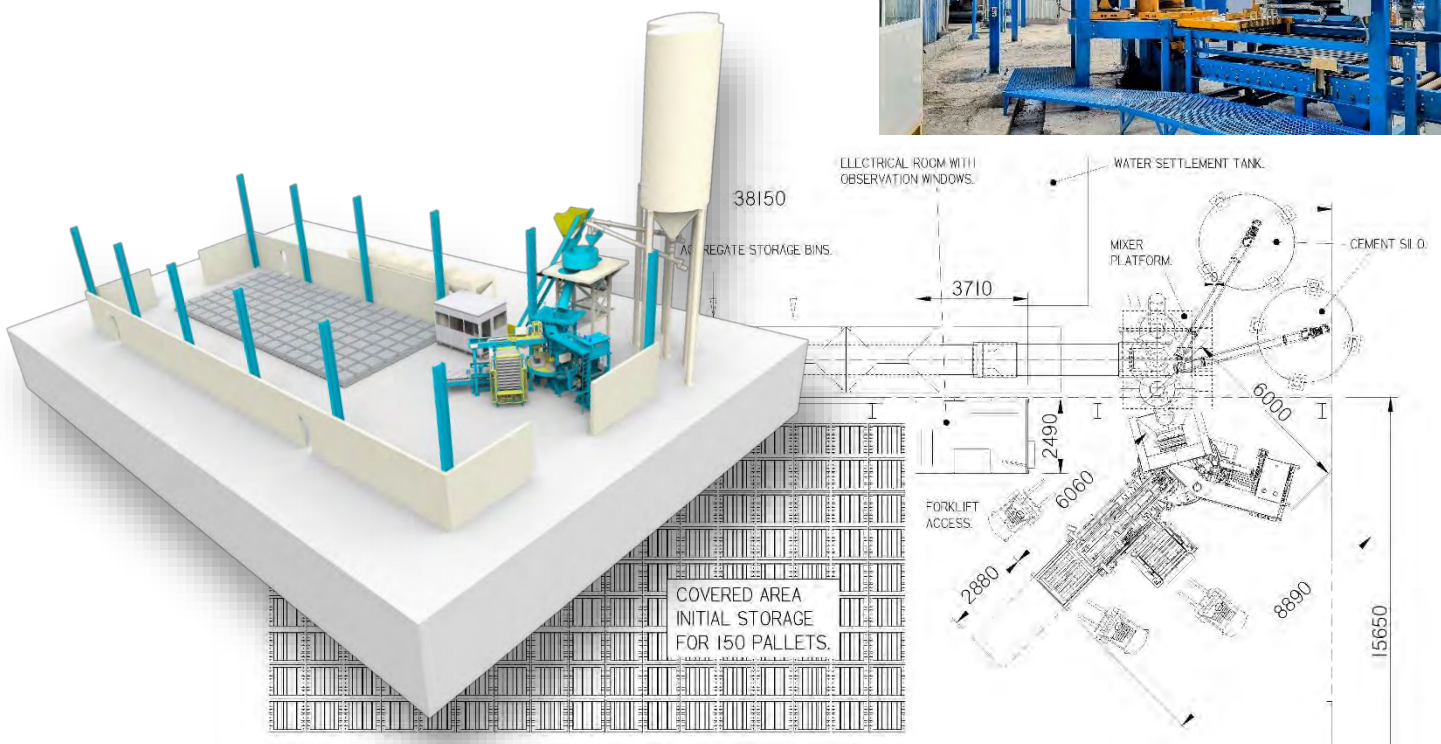
- Press Power 400 Ton / 4MN
- Maximum Main Ram Stroke 200mm
- Main Ram Working Stroke 100mm
- Maximum Product Dimensions

Single Pressing	Duplex Slabs	Duplex Kerbs
1000mm Long	500mm Long	1000mm Long
600mm Wide	500mm Wide	255mm Wide
240mm Deep	120mm Deep	150mm Deep

- Maximum - Typical Production Rates

Single Pressing	Duplex Pressing
320 - 260 Slabs / hour	640 - 520 Slabs / hour
180 - 140 Kerbs / hour	360 - 280 Kerbs / hour

- Production pallets 150 steel or wood
- Electrical Supply 400V (±10%), 3Ph, N, E, 50Hz
- Total Installed power: 46 kw (58KVA)
- Compressed Air 1.7m³/min. @ 7 bar
- Press Weight 24,000kg (excludes Take off)
- Dimensions W6m x L8.9m x H4.1m



SINGLE STATION WET PRESS

Columbia Wil El Mil Single Station Wet Presses are available in frame or 4 column configurations with Press power ranging from 400 to 800 Ton fitted with our ARC™ system. Complete with our concrete precision volumetric dosing PVD™ system, both the Press and PVD™ systems have manual, semi-auto or fully automatic control as standard with an intuitive HMI touchscreen for setup / monitoring. The package is completed with one of our Take off systems, with manual, high speed Full auto or robot options available and can be tailored to suit the customers requirements.

MODEL - 400 Ton Single Station Press

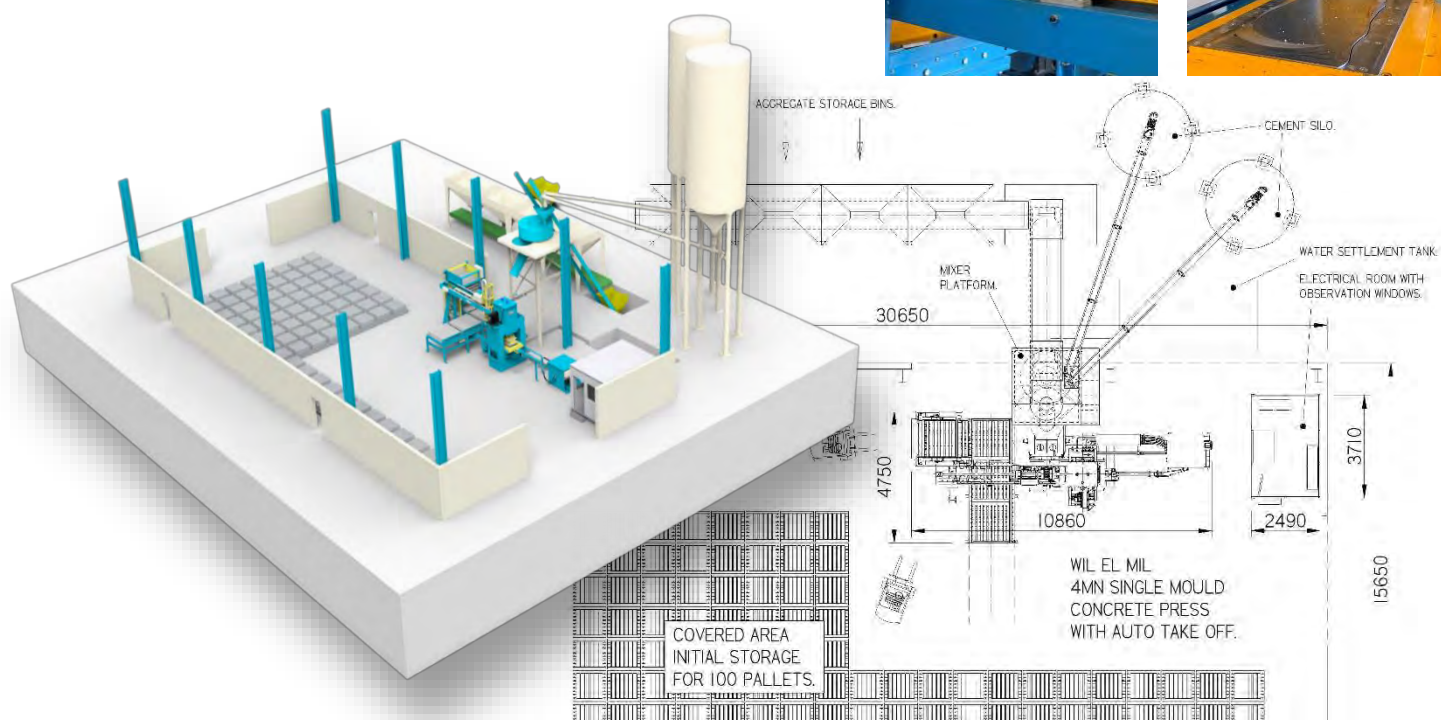
- Press Power 400 Ton / 4MN
- Maximum Main Ram Stroke 200mm
- Main Ram Working Stroke 100mm
- Maximum Product Dimensions

Single Pressing	Duplex Slabs	Duplex Kerbs
1000mm Long	500mm Long	1000mm Long
600mm Wide	500mm Wide	255mm Wide
240mm Deep	120mm Deep	150mm Deep

- Maximum - Typical Production Rates

Single Pressing	Duplex Pressing
140 - 110 Slabs / hour	280 - 220 Slabs / hour
100 - 80 Kerbs / hour	200 - 160 Kerbs / hour

- Production pallets 100 steel or wood
- Electrical Supply 400V (±10%), 3Ph, N, E, 50Hz
- Total Installed power: 25 kw (31KVA)
- Compressed Air 1.7m³/min. @ 7 bar
- Press Weight 17,000kg (excludes Take off)
- Dimensions W5.1m x L10.9m x H4.8m

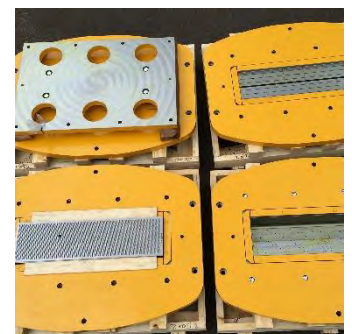


MOULDS & TOOLING

Columbia Wil El Mil design and manufacture precision moulds and tooling systems for wet press and block machine applications. With extensive experience in concrete product tooling, our engineering team develop robust, precision tooling solutions, designed to deliver consistent product quality, long service life and reliable production performance in the highly demanding environment of precast manufacturing.

WET PRESS TOOLING COMPONENTS

- Main Ram Crossheads – Heavy duty machined fabrication transmitting pressing force to the die carrier / die head
- Die Carriers – Heavy duty machined fabrication designed to suit the product range and mount the die head assembly
- Die Block – Precision machined pressing plate, together with the die plate and head plate form the die head assembly
- Die Plates – Precision machined tough steel alloy pressing plate
- Head Plates – Upper pressing plate that is suitable for paper or semi-permanent filters
- T-Bars – Mounted to the head plate to quickly change filters during production to maintain product quality
- Mould Boxes (mother mould) – Heavy-duty machined mould frame carefully designed contain pressing force and suit required product range by fitting internal side / end spacers
- Liners – Replaceable hardened wear plate designed to resist the abrasive nature of a concrete mix, made reversible to extend life and maintain accuracy
- Mould Formers – Precision machined pressing plate in the bottom of the mould cavity defining the final product profile
- Perforated Plates – Specifically used with the traditional paper filter and give the trademark wet press pimple finish
- Vacuum Plates – Mounted to the Vacuum Trolley to transfer pressed products after ejection from the mould



BESPOKE MOULD TOOLING

- Replacement mould boxes / tooling for non-OEM presses designed using our proven strengthened design techniques to outperform original equipment
- Bespoke design mould tooling for special product production based on customer / architect drawings

MOULD REFURBISHMENT & REPAIR

- Inspection and refurbishment of existing mould tooling, replacement of liners and worn / damaged tooling parts
- Re-machining of critical tooling surfaces
- Refurbishment of moulds for block machines across multiple OEM platforms
- Tooling upgrades to improve durability and production performance
- Reverse engineering and reproduction of legacy parts



Why choose Columbia Wil El Mil

- Turnkey plant solutions in conjunction with the global Columbia Machine network
- Market leading Wet Press engineering expertise
- Our equipment is designed for strength, simplicity and reliability
- Components selected for long service life and reduced maintenance downtime
- Hydraulic systems designed for extended pump and valve life
- Equipment engineered for demanding climates
- Accessible ease of maintenance by design, floor-level service points
- Modern HMI touchscreen for intuitive setup and diagnostics

Support & Service

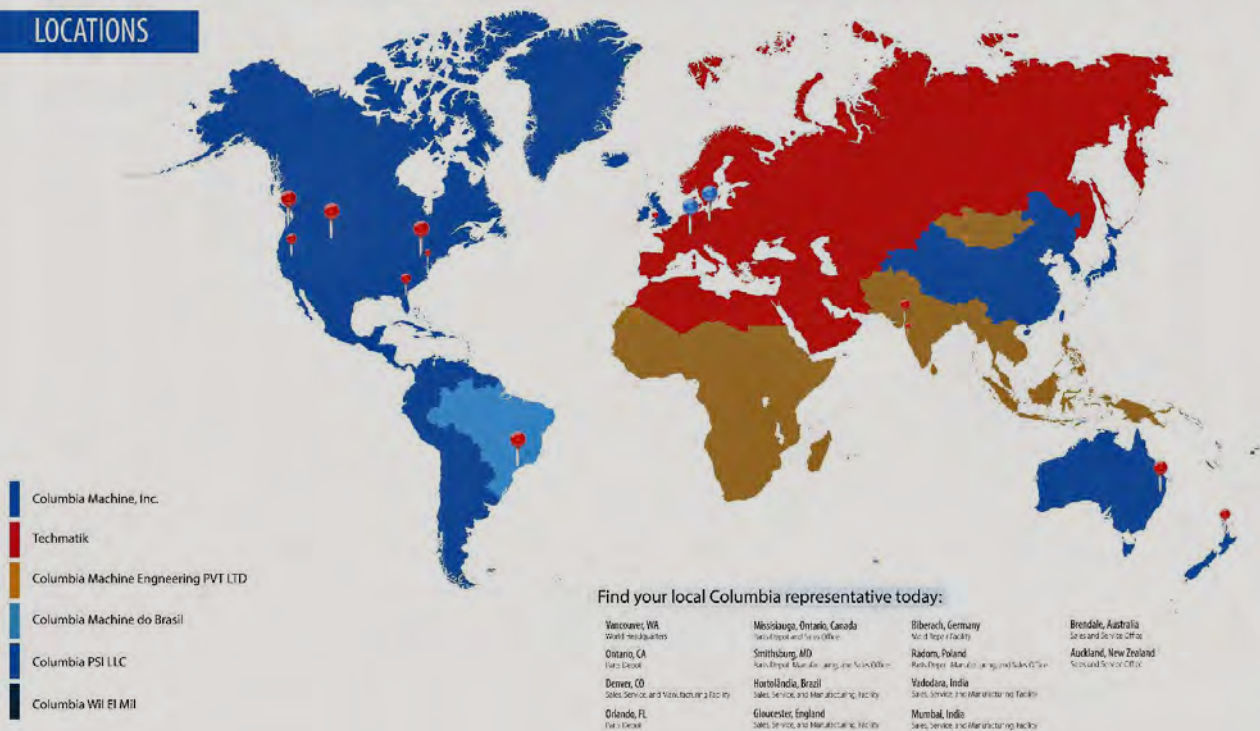
- Initial project evaluation and production guidance
- Equipment selection based on product range and required output
- Advice on ancillary plant and material handling equipment / systems
- 3D CAD plant layout drawings including batching and mixing systems
- Press foundation and installation guidance
- Installation, commissioning and operator training
- Full documentation and unrestricted software
- Global ongoing lifetime in-house telephone and remote access technical support
- Machine upgrades, repairs and rebuild programmes
- Extensive stockholding of spare parts



50 Years of Engineering Excellence

Innovation | Integrity | Training | Collaboration

LOCATIONS



Find your local Columbia representative today:

- Waco, WA
World Headquarters
- Mississauga, Ontario, Canada
Sales Support and Service Office
- Biberach, Germany
M&I Rego Factory
- Brendale, Australia
Sales and Service Office
- Ontario, CA
Tech Desk
- Smithsburg, MD
Sales, Service, Repair, and Manufacturing Facility
- Racow, Poland
Production, Maintenance and Repair
- Auckland, New Zealand
Technical Service Office
- Denver, CO
Sales, Service and Manufacturing Facility
- Hanball, India, Brazil
Sales, Service and Manufacturing Facility
- Yadadri, India
Sales, Service and Manufacturing Facility
- Orlando, FL
Tech Desk
- Gloucester, England
Sales, Service and Manufacturing Facility
- Mumbai, India
Sales, Service and Manufacturing Facility