



Manesty
an IWKA company

ALTMlab⁰¹

ALTMlab⁰²

advanced laboratory and production scale coating systems



ALTMlab

MTM-tec
CONTROL SYSTEM TECHNOLOGY

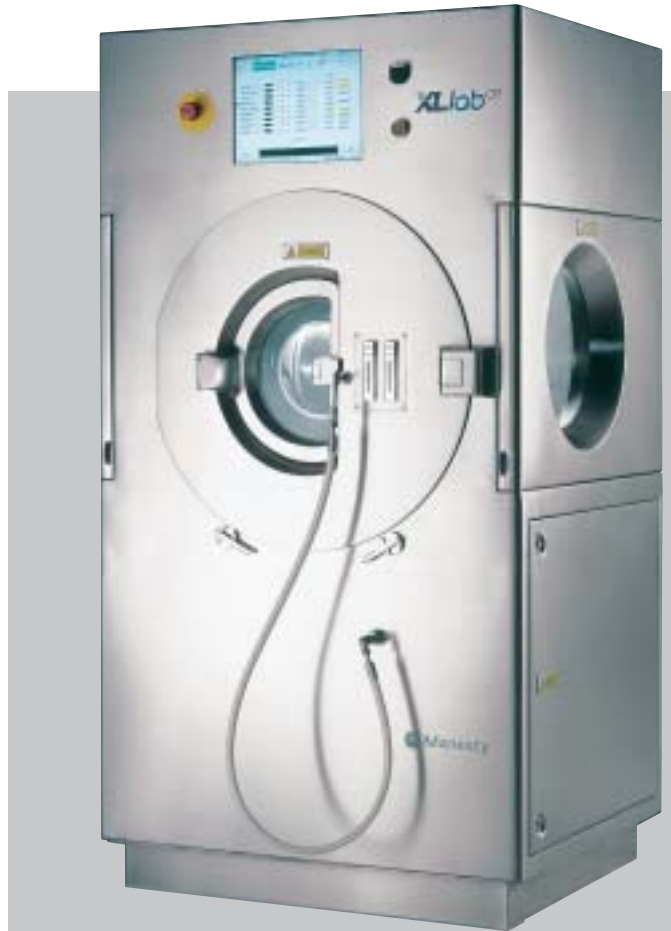
Sophisticated solutions for tablet coating

Manesty's long established position as the leading supplier of tablet coating equipment is based on a thorough understanding of the needs of our customers. This has been reflected in the development of equipment for both research and development as well as large scale production.

The new range of Manesty **XL^{lab}** coaters assist in making the transition between laboratory and production. The versatility of the systems provided with the **XL^{lab}⁰¹** and **XL^{lab}⁰²** make research simpler, whilst boosting confidence in scale up to production.

The **XL^{lab}⁰¹** has become the industry standard for laboratory coating. With the introduction of the **XL^{lab}⁰²**, Manesty extend this flexibility to the production environment.

Both coaters in the **XL^{lab}** range capture the control and process power of today's most advanced production scale coating equipment. Compact sizes and interchangeable drum technology enable coating of pellets to large tablets with the full spectra of spray media. Products developed on the **XL^{lab}⁰¹** can be easily scaled up to Manesty's **XL^{Cota}** or **Premier[™]** coating systems. The **XL^{lab}⁰²** is sized to offer interchangeable drum technology into production scale equipment.



The combination of dedicated air handling, suspension delivery systems and excellent mixing provided by the interchangeable mixing baffles leads to a fast, efficient and consistently high-quality coating process.



XL^{Cota} 350 coating system

Premier[™] 500 coating system



investing in continuous improvement

improved efficiency, quality and process times

meeting customers needs



The **XLTMLab** range incorporating **M-tecTM** control system technology brings the latest production scale design, air handling, control and spray technology to your laboratory or pilot scale coating

The XL[™]lab coaters are supplied as a complete package ready to coat your product

large batch range

XL[™]lab⁰¹

For batches from 0.5 litres to 24 litres, the XL[™]lab⁰¹ provides precise control over an efficient process.

XL[™]lab⁰²

For batches from 8 litres up to 75 litres the XL[™]lab⁰² covers larger laboratory work through to small-scale production.

air handling system

A wide variety of air handling options are available for use with the XL[™]lab coaters. For the XL[™]lab⁰¹ this includes the option of a mobile combined inlet/exhaust unit making the entire system portable.

Other options may include dehumidification, rehumidification or HEPA filtration. Exhaust fan/filter units can be supplied with standard or safe-change filters and dust collection systems, rendering the XL[™]lab range as versatile as the other Manesty ranges of coater.

pellets and tablets

Simply by fitting the correct drum, the XL[™]lab coaters can coat a range of substrate types, maximising the return on your investment.

premium performance in a flexible machine

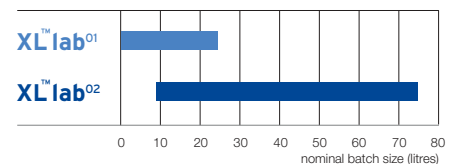
The same performance, control and quality available on Manesty Premier[™] and XL[™]Cota systems is now available on a smaller scale

The XL[™]lab is delivered with a coating drum of your choice, but choose from a range of standard and bespoke drums. Changing between drums is simple and fast using a quick release system.

The graph illustrates the total capacity ranges of both XL[™]lab coaters across a range of drum sizes.



XL[™]Lab coaters total capacity ranges



uniform coating

high quality air handling

modular system

greater versatility



XL[™]lab⁰²

The **XL[™]lab⁰²** extends the range of Manesty's interchangeable drum coaters to a full 75-litre capacity. This enables the flexibility of interchangeable drum technology to be utilised in pilot or small-scale production roles.

Finished to the same exacting standard as other Manesty coaters, the **XL[™]lab⁰²** is capable of coating with aqueous or organic solvent based suspensions as well as sugar. In common with all Manesty coaters, pneumatic seals are used to render the coater safe when coating hazardous products.



The **XL[™]lab** coaters are of a fully welded construction. Highly polished interiors with excellent access via front and side doors enable rapid and effective cleaning and inspection.

A dedicated hoist can be employed to replace drums. When not in use, drums may be stored on the bespoke drum stand. The stand also stores the bespoke exhaust plenums supplied with each drum.

solution delivery system

Manesty's proven spray system provides the most efficient delivery of a full range of coating media to the substrate. The **XL[™]lab⁰¹** has an integrated pump system capable of both film and sugar coating, whilst the **XL[™]lab⁰²** utilises the same pumping systems found in the **XL[™]Cota** and **Premier[™]** ranges.

aqueous and organic solvent film coating

A peristaltic pumping system precisely delivers coating media to the air atomising spray guns. Installed in many of the world's leading production and research facilities, the Manesty spray gun design offers a precise and repeatable process.



sugar

Sugar dosing on the **XL[™]lab** range provides an equally efficient process to film coating, making the **XL[™]lab** coaters particularly flexible.

 simpler operation

 flexible control

 easily upgradeable
 to full automation

M-tec™ integrated control system technology

In common with all Manesty coaters, **XL™lab** coaters come complete with the latest **M-tec™** control system technology. This provides complete control over the coating process including air handling and spray systems.

By using exactly the same control system, customers can gain full confidence that work carried out in laboratory or pilot-scale **XL™lab** coaters will transfer to larger-scale production.



M-tec™ control system technology is extremely user friendly. Because the system has been designed to focus on functionality, **M-tec™** is simple to operate both in setting up the initial control system and customising the programme to incorporate future requirements. Manesty process and software engineers are always available to offer assistance with any operational aspect.

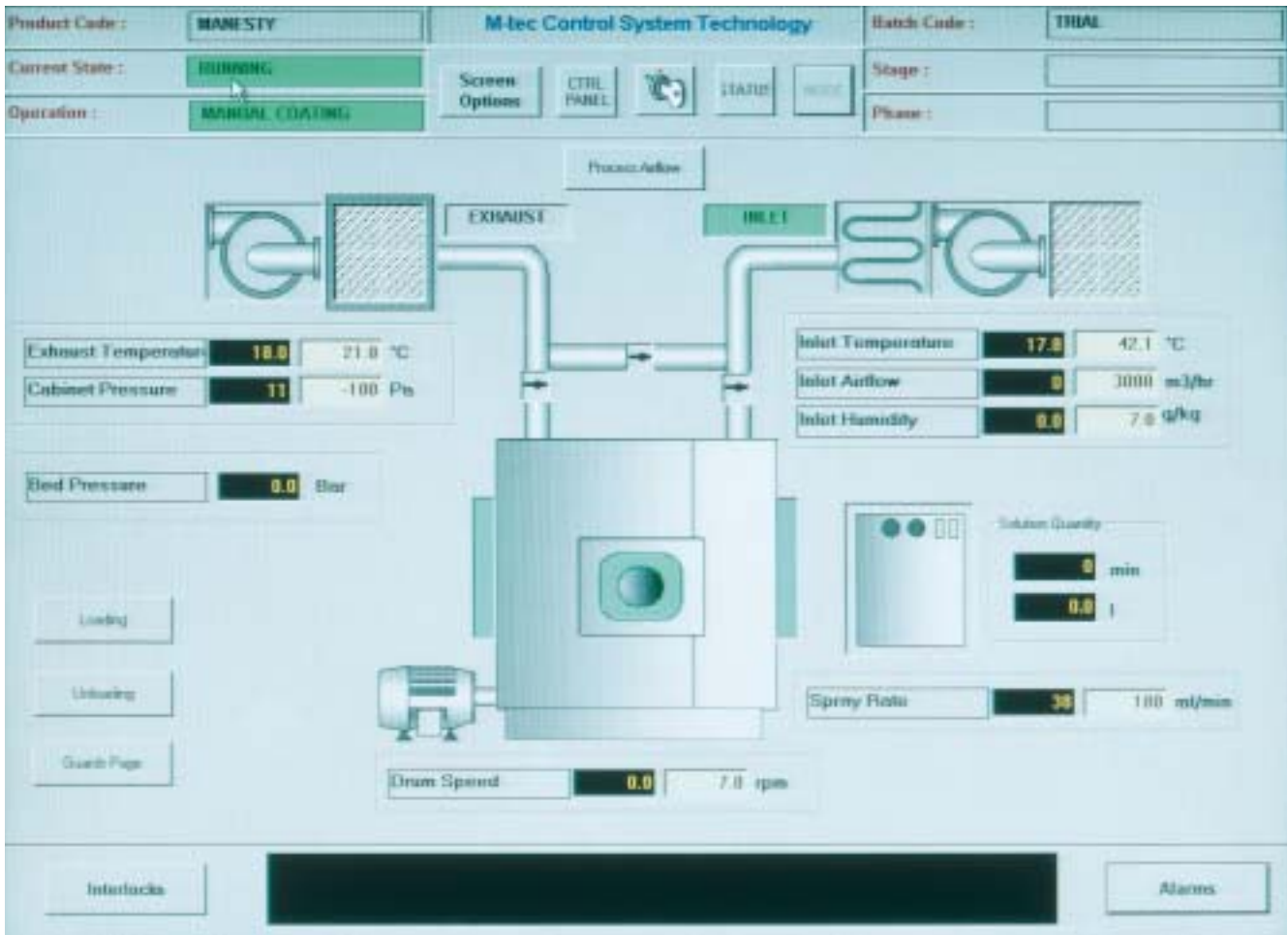
Manesty recognise that accurate reporting of data is vital in both research and production environments. To aid this a range of data acquisition and reporting options are available with **M-tec™**. In addition to these, bespoke packages can be tailored to meet exact requirements.


M-tec™
CONTROL SYSTEM TECHNOLOGY

other important features of M-tec™ supplied as standard include:

- Well presented, highly visible data
- Integral security system
- Flexible alarm management
- Variety of data acquisition packages available
- Ability to connect to customer network if required
- Enables compliance with the requirements of 21 CFR Part 11.



service support

Manesty's standards of customer service are second to none. Our ongoing support services include a number of options to help you maintain reliable, cost effective coating performance and protect the value of your investment.

- Free technical support hotline with optional 24-hour 7-day service.
- Extensive stock holding at Manesty.
- Cost effective service, maintenance and calibration contracts.
- Direct access to Manesty's team of service and process experts.
- Upgrades and refurbishments.

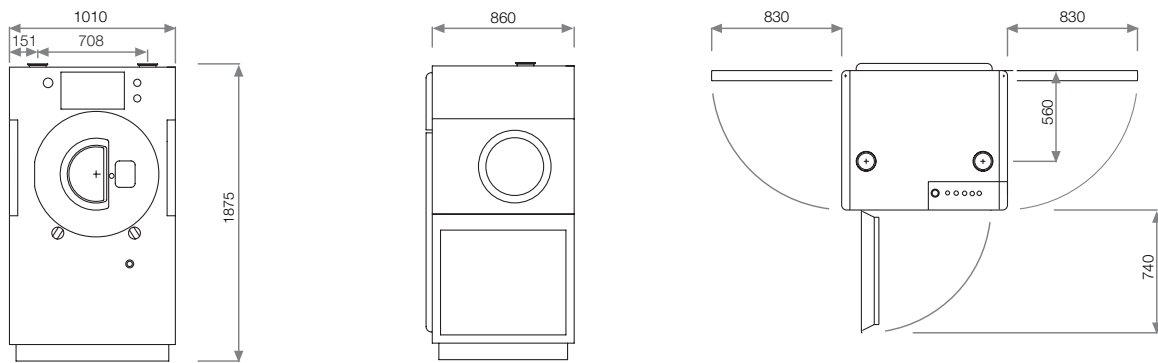
process information

Manesty has a dedicated Process Group whose staff have worked within the pharmaceutical industry and understand the demands placed on materials and equipment. Our process area is fitted with the latest Manesty equipment and is available for customers to use for trials, thus giving our customers the peace of mind of knowing that they are purchasing the right equipment to meet their individual needs.

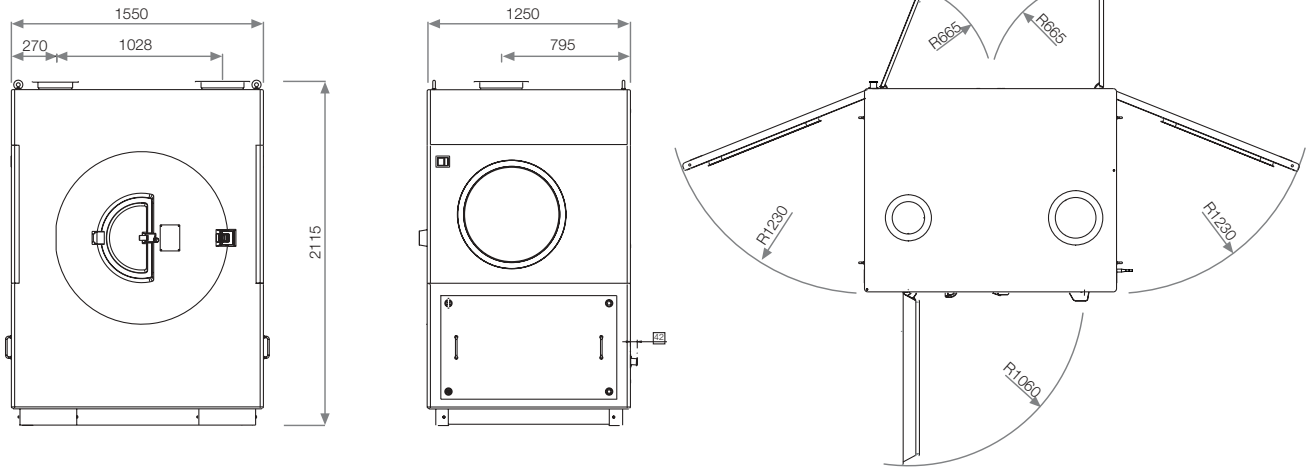
validation

Validation provides the crucial documentary evidence that your Manesty coating system accurately meets the standards required by the pharmaceutical industry. When it comes to validation, Manesty have a highly experienced team of specialist engineers who are totally independent. Their role is to provide validation, regulatory compliance and calibration services.

XL^{lab}01



XL^{lab}02



Manesty... experienced to meet your challenges

Manesty have been at the forefront of tablet coating technology for over thirty years. Our position as a leading manufacturer of tablet coating equipment is founded on a commitment to excellence in everything we do. This applies as much to our standards of service as to the exceptional quality of our products.

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