MYLAB

LABORATORY SCALE EQUIPMENT FOR GRANULATION AND COATING

IMA ACTIVE
Solid Dose Solutions

MYLAB

MYLAB
COMPACT AND MODULAR EQUIPMENT
FOR COATING AND GRANULATION




MYLAB is laboratory scale equipment for R&D purposes, suitable for granulation or coating processes. A unique combination in terms of flexibility and configuration. It is an essential tool to select the most appropriate technology for your products. A must-have piece of equipment also for formulation and scale-up studies to easily achieve production requirements. MYLAB is compact and portable, on wheels, effortless. It consists of a Main Technical Unit (MTU) with a fully integrated air handling unit, spray system and a control panel. MYLAB design complies to the most restrictive GMP rules, highly ergonomic, and allows for very quick and easy product change. The MTU can support either a coating pan, a fluid bed processes or a high shear granulator. MYLAB is available also for high containment processes when configured with a single module and for processes based on organic solvents.

MYLAB FLUID BED MODULE

FLUID BED MODULE				
	DRYING (BASE)	GRANULATION/COATING (TOP SPRAY)	COATING (BOTTOM SPRAY)	API LIQUID LAYERING (TOP/BOTTOM SPRAY)
POWDERS	■	■	N.A.	■
GRANULES	■	■	■	■
PELLETS	■	■	■	■
TABLETS	N.A.	N.A.	N.A.	■
MINITABLETS	N.A.	■	■	■
HARD CAPSULES	N.A.	■	■	N.A.
SOFTGEL CAPSULES	N.A.	N.A.	■	N.A.

The fluid bed processor is equipped with interchangeable product bowls, one for drying or top spray processing and one for bottom spray processing.
Both product bowls are able to work batches from 3 to 6 litres. A wide selection of air distributors, spraying nozzles and filters is available for fine tuning of the process.

MYLAB FLUID BED MODULE WITH HIGH SHEAR GRANULATOR

GRANULATION

MIXING

WET MILLING

DRYING

The fluid bed module can be combined with a high shear mixer module for dry mixing and wet granulation processes.
The high shear granulator has bottom-driven impeller and side-mounted chopper, both with variable speeds. 2 interchangeable product bowls can work batches from 3 to 6 litres or from 0.5 to 2 litres.
Possible option of integrated wet milling with Imill-I.

MYLAB COATING PAN MODULE

	FILM	SUGAR	FILM POWDER LAYERING	POWDER SUGAR	DRYING
GRANULES	Solid wall drum (>0.5mm)	N.A.	N.A.	N.A.	Solid wall drum (>0.5mm)
PELLETS	Solid wall drum (>0.5mm) Wedge wire screen drum (>0.8mm)	Solid wall drum (>0.5mm)	Solid wall drum (>0.5mm)	N.A.	Solid wall drum (>0.5mm) Wedge wire screen drum (>0.8mm)
MINITABLETS	Solid wall drum Wedge wire screen drum	N.A.	N.A.	N.A.	Solid wall drum Wedge wire screen drum
TABLETS	Solid wall drum Wedge wire screen drum Perforated drum	Solid wall drum Wedge wire screen drum Perforated drum	Solid wall drum	Solid wall drum	Solid wall drum Wedge wire screen drum Perforated drum
HARD CAPSULES	Solid wall drum Wedge wire screen drum Perforated drum	N.A.	N.A.	N.A.	Solid wall drum Wedge wire screen drum Perforated drum
SOFTGEL CAPSULES	Solid wall drum Wedge wire screen drum Perforated drum	N.A.	N.A.	N.A.	Solid wall drum Wedge wire screen drum Perforated drum

The coating pan processor can be equipped with three different drum technologies:

- Solid wall drum
- Perforated drum
- Wedge wire screen drum

A smart interchangeable drum system allows you to quickly switch between the different available drums.

Perforated drum	0.5-2 liters 1.5-6 liters 2.5-10 liters
Solid wall drum	1-3 liters
Wedge wire screen drum	0.6-6 liters

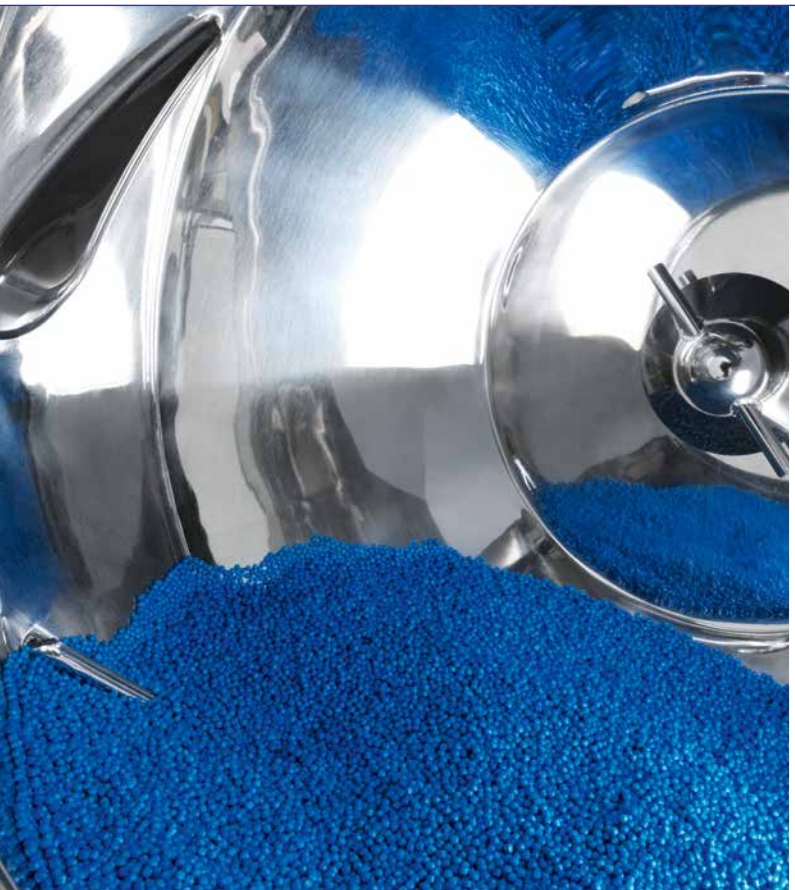
Coating pan processor in containment configuration

Perforated drum.

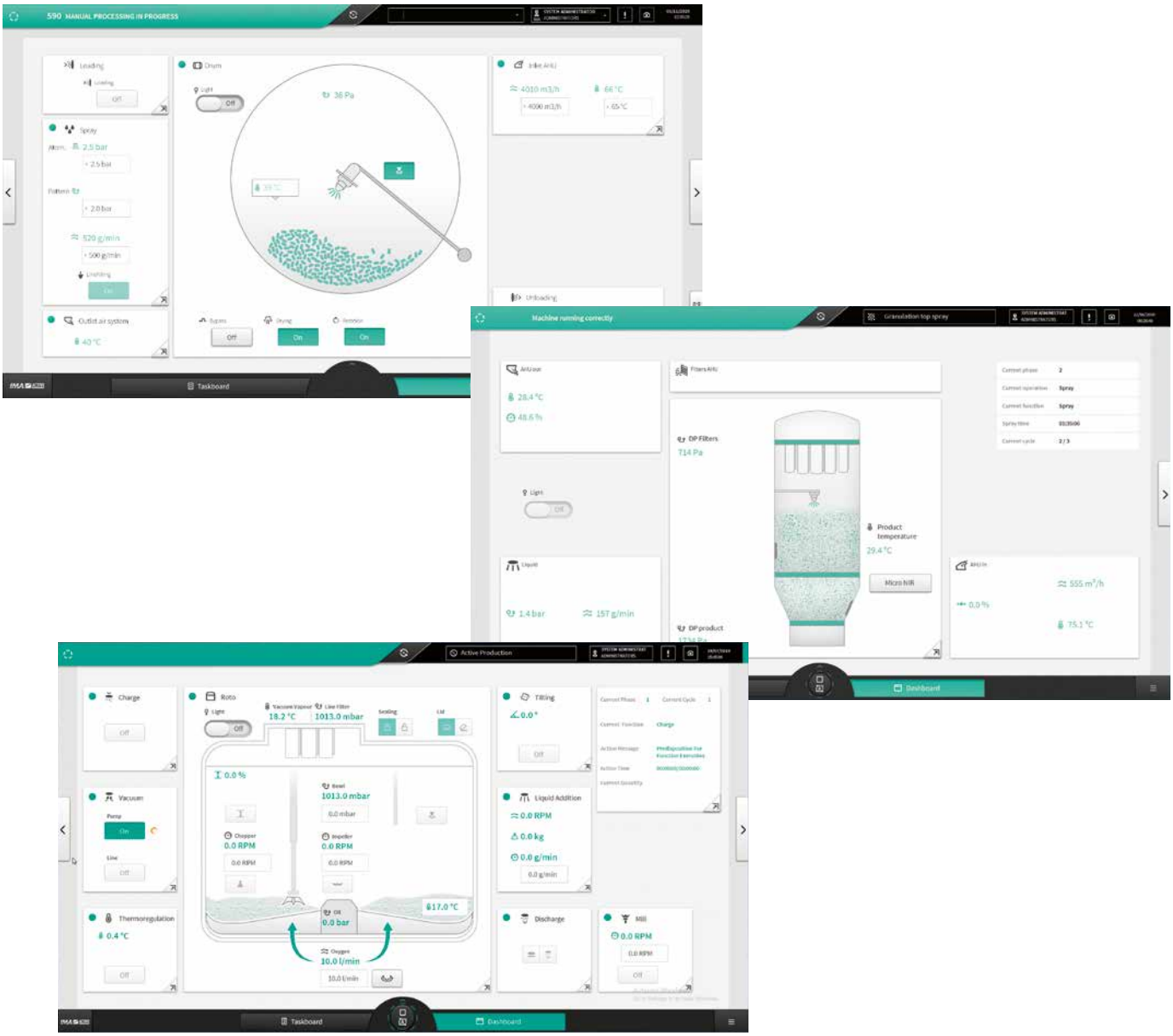
Wedge wire screen drum.

Solid wall drum.

Solid wall drum baffles.



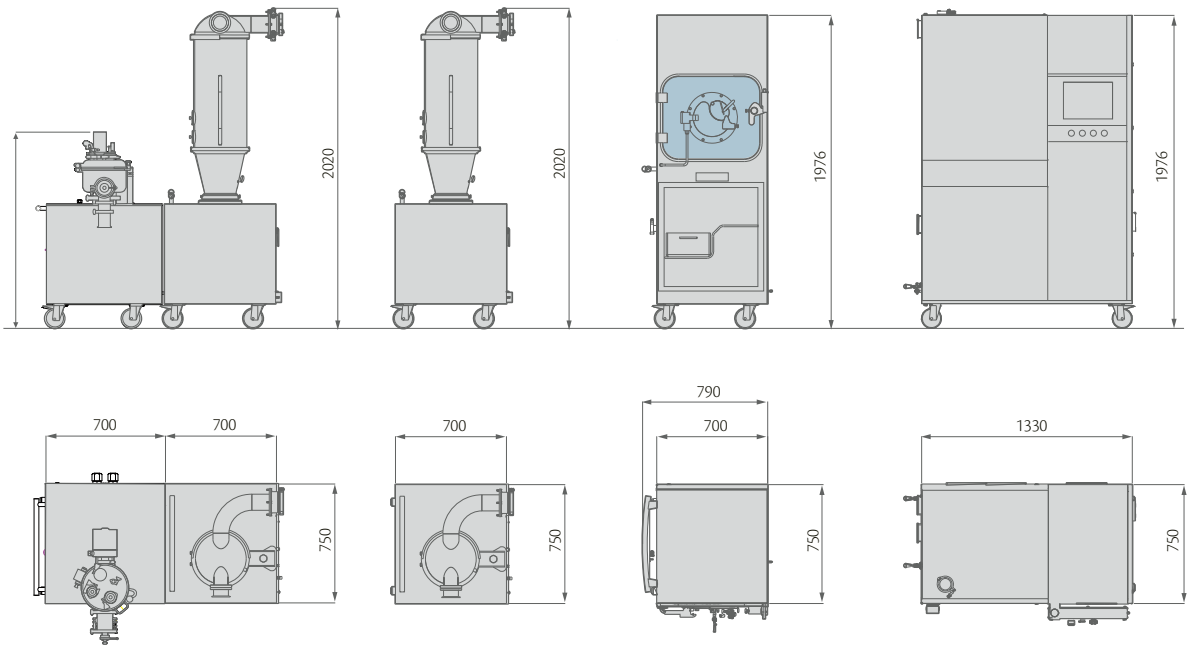
MYLAB



CONTROL SYSTEM

MAX, the latest generation of IMA HMI, has been created paying maximum attention to User Experience and based on Visual Design to enhance User Interaction.
MAX ensures prompt responsiveness, enhanced predictability and easy learning. Automatic recipes, reports and audit trails reports for processing or cleaning can be edited and managed to ensure maximum efficiency and consistent results in compliance with current directives and guidelines (ANSI/ISA-88, FDA CFR21 part 11, GAMP ®, MHRA GMP Data Integrity). MAX allows MYLAB to be run either in manual or automatic mode, and easily achieve process end-point. In addition, it can work with PAT instruments to enhance the QbD approach.

TECHNICAL DATA



MTU	
Air flow (Nm³/h)	50 - 300
Air temperature (°C)	20 - 90

FLUID BED MODULE	
Top Spray working capacity (litres)	3 - 6
Interchangeable bowl (litres)	1-3
Bottom spray working capacity (litres)	3 - 6
Air flow (Nm³/h)	50-300
Max air temperature (°C)	90

FLUID BED MODULE WITH HIGH SHEAR GRANULATOR	
HSG working capacity (litres)	0.5-2
Interchangeable bowl (litres)	3-6

COATING PAN MODULE		
	Min/max capacity (liters)	Pan diameter (mm)
Perforated drum	1.5-6	460
Optional perforated drum	0.5-2 2.5-10	420 490
Solid wall drum	1-3	455
Wedge wire screen drum	0.6-6	460
Weight (kg)	935	

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August 2023 - 990MYL2002

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