

# IDA-XP

Pharmaceutical  
coating



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FILM COATING  
AND SUGAR / SUGARFREE  
COATING INSTALLATION  
THE HIGHEST QUALITY  
STANDARD IN DESIGN  
AND CONSTRUCTION  
FOR YOUR  
PHARMACEUTICAL  
PRODUCTS

**Dumoulin**



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# IDA-XP

AQUEOUS FILM  
COATING  
ORGANIC FILM  
COATING  
SUGAR AND  
SUGARFREE COATING

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AQUEOUS FILM COATING  
ORGANIC FILM COATING  
SUGAR AND SUGARFREE COATING

Machine type	15 XP	30 XP	100 XP	150 XP	250 XP	380 XP	500 XP	1000 XP
Useful volume (liters)	24	45	134	200	330	500	670	1350
Batch size (kg)	7-15	15-30	50-100	75-150	125-250	190-380	250-500	500-1000

## PRODUCTS RANGE

IDA-XP unit is specially designed for coating of compressed tablets, granules, gums.

- It can also be used for film coating of vegetables, flowers and cereal seeds.
- According to your needs, products will be covered with aqueous film coating, organic film coating, sugar or sugarfree coating, or any combination of these.



## PAN DESIGN

IDA-XP unit is designed and built according to cGMP rules

- Full stainless steel construction
- Complete partition between process zone and technical zone
- Round corners and angles, no dead zones
- Perfect tightness of process zone with inflatable seals on doors and window
- Overhanging drum – no mechanical part in process zone

IDA-XP unit offers the best quality coating

- Perforated drum for efficient ventilation
- Shallow bed depth for smooth handling of tablets and maximum exposure to coating
- Adjustable and removable mixing baffles to fit all kinds of tablets
- Optional thermal insulation of the process area

IDA-XP unit is easy to inspect and service

- Possibility to install embedded or semi embedded
- Large lateral access doors on both side



## SPRAYING SYSTEMS

A IDA-XP unit can be used for any kind of coating.

### Aqueous film coating

- Anti-bearding air spray guns
- Low pressure peristaltic pump
- Optional multi-head pump
- Optional spraybar with no hose inside drum – air and liquid networks inside spraybar body



### Organic film coating

- Airless sprayguns
- High pressure pneumatic pump

### Sugar or sugarless syrup coating

- Air or airless sprayguns
- Medium pressure pump

### Ergonomic spraybar

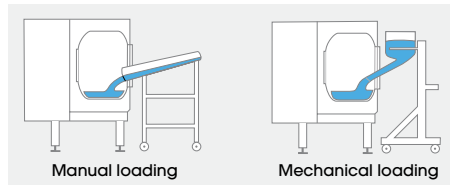
- Sprayguns position adjustment from outside, machine closed, no tool required
- Pneumatic opening and extraction for easy maintenance

A wide range of options and ancillary equipment are available such as solution tanks, individual gun flow regulation, detection of nozzle blockage.

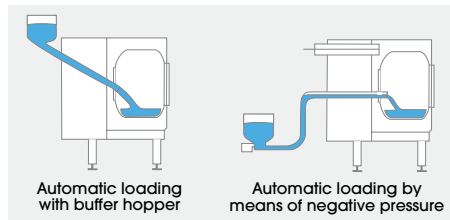
## LOADING SYSTEM

Several possibilities according to layout, production and hygiene requirements

### Loading from front



### Loading from rear



## UNLOADING SYSTEM

- Automatic unloading by reverse rotation of the drum through built-in scoops.
- Flow adjustment for gentle unloading of fragile tablets.
- Optional complete containment of unloading.

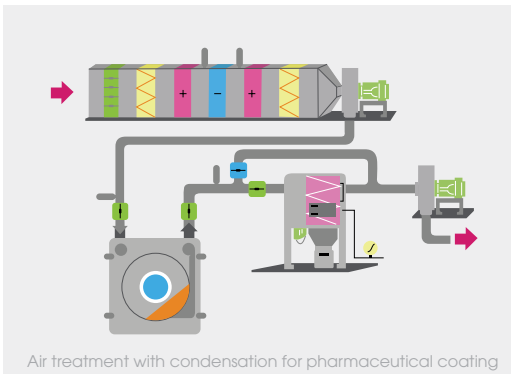
## AIR TREATMENT GROUP

### Process Air

- Air handling unit with cooling coils, heating coils, humidifier section
- Several filtration stages
- Airflow, temperature and humidity control
- Perfect repeatability
- Ventilation on top of products bed
- Exhaust underneath products bed through drum perforations with large open surface
- Exhaust hood with pneumatic tightening on drum and automatic lifting for easy inspection.

### Exhaust air

- Negative pressure inside pan is ensured by outlet flowrate regulation
- Dedusting unit with automatic cleaning of the filters
- Optional HEPA filter



Air treatment with condensation for pharmaceutical coating

## CLEANING IN PLACE (CIP)

### CIP skid

with one or several tanks  
pressure pump  
recirculation or use of fresh water  
detergent injection in line

### CIP network

Inside the drum  
Outside the drum  
In the air exhaust hood

**IDA-XP unit** design ensures a very efficient cleaning  
Water networks equipped with rotative sprayballs  
Water-tight pan body allowing to immerse the drum  
Round corners and angles, no dead zones  
Fast drying with the air handling unit

## CONTROL SYSTEM

### IDA PROG6

Fully automated system allowing to customize all machine parameters

- Automatic coating cycle according to user-friendly recipe building module  
Loading, unloading, cleaning integrated in automatic cycle or run semi-manual  
Overview screens for installation status  
Possibility to network with other machines
- Supervisory Control and Data Acquisition (SCADA)  
Batch data recording and displaying  
Historical trends and fault reports
- 21 CFR part 11 compliant

## QUALIFICATION AND VALIDATION

### Cover all aspects

- equipment
- process
- cleaning
- software

### Documented validation steps, each of them being approved by customer

- General validation plan
- Proposed design versus customer specifications
- Test plan (IQ-OQ-PQ)
- Test performance (IQ-OQ-PQ)
- Final review of test results

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