



HCM Series

Hard Coating Machines for All Size Of Labs

- Product design and the technical features may change without notice.

Yiğın Global Trade Inc.

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HCM 400

Design

Heavy duty design for mid/large size labs or stock lens manufacturing plants

IN and OUT conveyors for fast and clean operation

Interior

Separate zones (chambers) for cleaning & coating processes. Faster operation thanks to two handling robots in both chambers, less contamination.

Facility

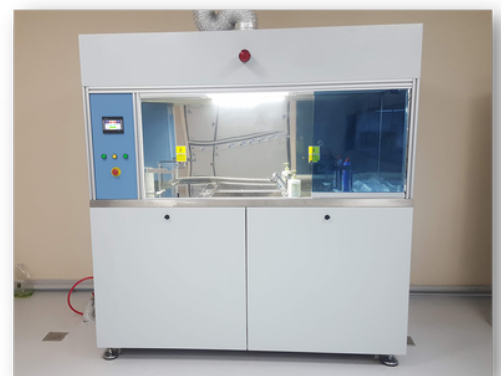
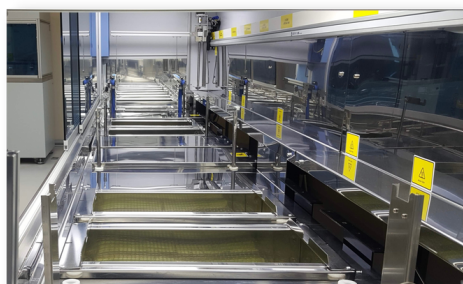
Auto refill of detergent, alcohol and varnish - no process break

Upgrading

Remote control for diagnose and upgrade. Network cable and an internet connection needed.

Interface

Two HMI Screen - Ease of Use - Operator friendly



*Optional Stripping Machine

Technical Details

MAIN FEATURES

- Chillers for the varnish +5 → +20°C
- Auto deionized water filtration system installed
- Ultrasonic stripping/cleaning: Manual load or Automatic (*optional)
- Coating chamber Air Conditioner
- Holds 28 / 32 lenses per tank
- In & Out conveyors

PRODUCTION CAPACITY

- Process Cycle Duration: 5 minutes
- 28 to 32 lenses per cycle (depending on the clip used)
- 336 to 384 lenses per hour (depending on the clip used)
- All materials from 40 to 80 mm diameter

TECHNICAL DATA

- Detachable 2 parts
- 700 x 120 x 200 cm
- ~ 2500 kg
- 25 kW / 400 V (3 phase + Neutral + Ground)
- Can be selected during the order: L2R or R2L
- CE Mark

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HCM 160

Design

Compact design for mid size labs

Interior

Single zone for cleaning and coating
(ISO6 Chamber)

Facility

Auto refill of detergent, alcohol and
varnish - no process break

Upgrading

Remote control for diagnose and
upgrade. Network cable and an
internet connection needed.

Interface

HMI Screen - Ease of Use - Operator
friendly

Technical Details

MAIN FEATURES

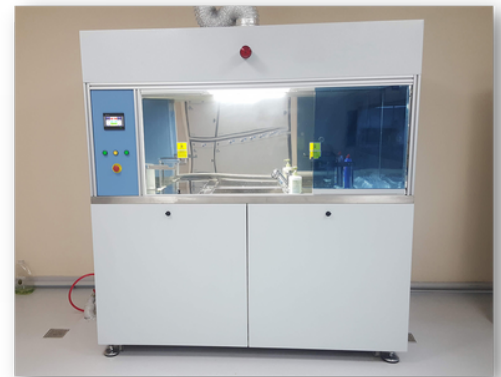
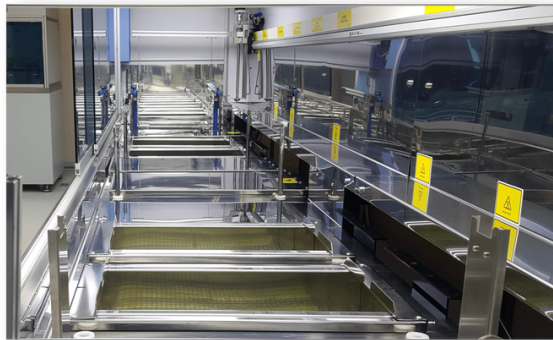
- Chillers for the varnish +5 → +20°C
- Auto deionized water filtration system installed
- Ultrasonic stripping/cleaning: Manual load or Automatic (*optional)
- Coating chamber Air Conditioner
- Holds 12 / 16 lenses per tank

PRODUCTION CAPACITY

- Process Cycle Duration: 5 to 6 minutes
- 12 to 16 lenses per cycle (depending on the clip used)
- 120 to 160 lenses per hour (depending on the clip used)
- All materials from 40 to 80 mm diameter

TECHNICAL DATA

- Detachable 2 parts for easy shipment
- 410 x 120 x 200 cm
- ~ 1000 kg
- 16 kW / 400 V (3 phase + Neutral + Ground)
- Can be selected during the order: L2R or R2L
- CE Mark



*Optional Stripping Machine

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HCM 80

Design

Compact design for small and mid size labs

Interior

Single zone for cleaning and coating (ISO6 Chamber)

Facility

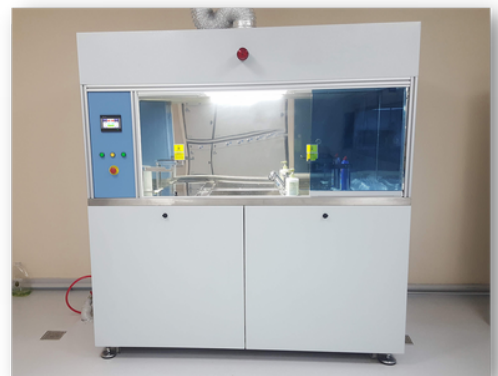
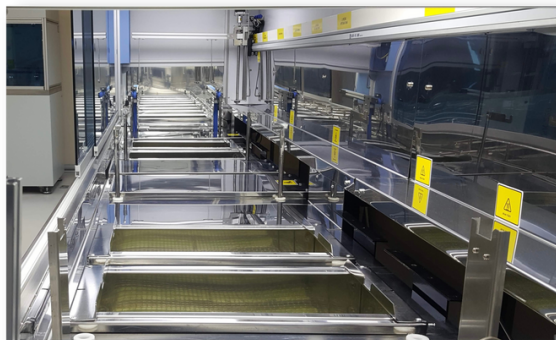
Auto refill of detergent, alcohol and varnish - no process break

Upgrading

Remote control for diagnose and upgrade. Network cable and an internet connection needed.

Interface

HMI Screen - Ease of Use - Operator friendly



*Optional Stripping Machine

Technical Details

MAIN FEATURES

- Chillers for the varnish +5 → +20°C
- Auto deionized water filtration system installed
- Ultrasonic stripping/cleaning: Manual load or Automatic (*optional)
- Coating chamber Air Conditioner
- Holds 6 / 8 lenses per tank

PRODUCTION CAPACITY

- Process Cycle Duration: 5 to 6 minutes
- 6 to 8 lenses per cycle (depending on the clip used)
- 60 to 80 lenses per hour (depending on the clip used)
- All materials from 40 to 80 mm diameter

TECHNICAL DATA

- Detachable 2 parts for easy shipment
- 350 x 120 x 200 cm
- ~ 750 kg
- 12 kW / 400 V (3 phase + Neutral + Ground)
- Can be selected during the order: L2R or R2L
- CE Mark



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HCM 60

Design

Least space occupation with compact design. Good for small labs or a back up machine.

Interior

Single zone for cleaning and coating (ISO6 Chamber)

Facility

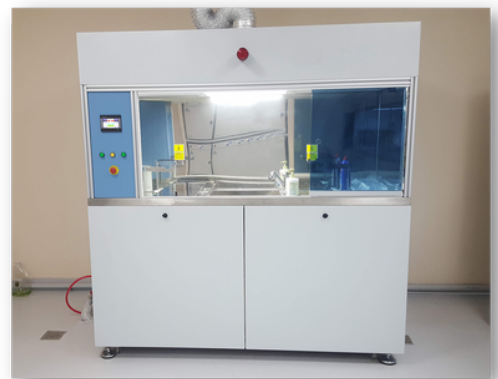
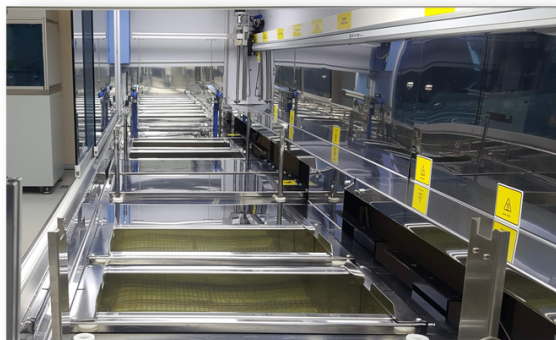
Auto refill of detergent, alcohol and varnish - no process break

Upgrading

Remote control for diagnose and upgrade. Network cable and an internet connection needed.

Interface

HMI Screen - Ease of Use - Operator friendly



*Optional Stripping Machine

Technical Details

MAIN FEATURES

- Chillers for the varnish +5 → +20°C
- Auto deionized water filtration system installed
- Ultrasonic stripping/cleaning: Manual load or Automatic (*optional)
- Coating chamber Air Conditioner
- Holds 6 lenses per tank

PRODUCTION CAPACITY

- Process Cycle Duration: 5 to 6 minutes
- 6 lenses per cycle (depending on the clip used)
- Maximum 60 lenses per hour (depending on the clip used)
- All materials from 40 to 80 mm diameter

TECHNICAL DATA

- One piece compact size
- 320 x 120 x 200 cm
- ~ 750 kg
- 10 kW / 400 V (3 phase + Neutral + Ground)
- Can be selected during the order: L2R or R2L
- CE Mark

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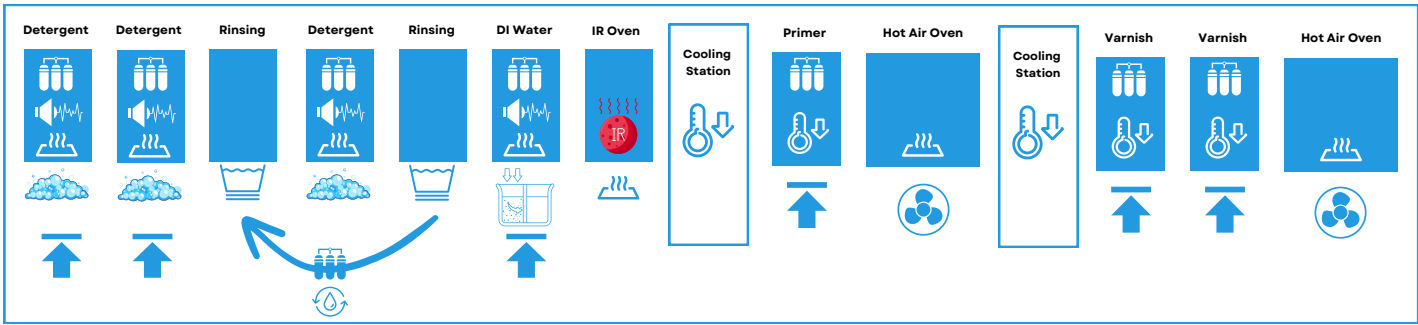
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FEATURES & NOTES

Common features are stated below. Kindly find the unique properties of each machine, in the brochures.

- Cleaning/Detergent/Rinsing Tanks, Primer Tank, Varnish Tanks, two steps IR Ceramic drying and hot air circulation drying tanks
- Agitation system allowing oscillation movement on the lenses for detergent, rinsing and Di water tanks.
- Automatic detergent, varnish and water refilling system with a loop filtering mechanism between tanks 3 & 5.
- Programmable lift speeds of the varnish tanks for waveless coating with desired thickness
- Sensitive dipping mechanism for successful coating results
- Two axes robot arm for a flawless manipulation of the racks
- Excellent polymerization results thanks to two chamber IR drying station
- Laminar flow fan or an air dryer depending on the climate of the setup place
- Covers over the varnish tanks and surrounded double skinned cooling system by chillers to avoid evaporation & keep the temperature -as a result viscosity- at a constant level
- Deionized distilled water filtration for the last rinse
- Chemical vapor extraction system and leak sensor for safety
- Easy programming, user friendly HMI Screen for the operators
- Water saving cycle thanks to 5th tank to 3rd tank cascade system with filters
- Minor customizations can be done upon request

MACHINE DIAGRAM



Detergent Wash	Detergent Wash	Rinsing	Detergent Wash	Rinsing	DI Water Rinsing	Drying lenses with IR Heating	Cooling Rest	Primer Coating	Curing Oven	Cooling Rest	Varnish Coating	Varnish Coating	Curing Oven
Filter Ultrasonic Heating Auto Top Up	Filter Ultrasonic Heating Auto Top Up	Filtered water from the tank 5	Filter Ultrasonic Heating Auto Top Up	Filtered water to the tank 3	Deionization Filter Ultrasonic Heating Auto Top Up	Water Resistant Ceramic Infrared	Cooling Dock	Filter Chiller Auto Top Up	Two steps heating resistance with air fan	Cooling Dock	Filter Chiller Auto Top Up	Filter Chiller Auto Top Up	Two steps heating resistance with air fan

FEATURES & NOTES

Common notes for all models:

- Training and first start after installation. (6 days)
- Once the machine is delivered and put into the right place, installation will be planned depending on the schedule of the available technician.
- Software programming, daily and preventive maintenance instructions' training and setup actions will be taken.
- One set of all needed filters for 1 month usage
- Working flow of the machine can be selected. (R2L or L2R)
- All models are equipped with laminar flow fan or drying unit.
- Appropriate number of clips included. (Listed below)
- All models have vapor extraction unit.
- User friendly HMI Screen for the ease of use
- Electrical supply:
400 Volts (3 Phases + Neutral + Ground) 50/60 Hz
Installed power: Around 16 kVA
- City or Softened water required: 400 L/h
- Optional flowmeters for detergent and water
- Optional heater for the water inlet.
- Optional camera for the live stream of coating chamber
- Crate packing for shipping nearby or overseas
- Manual in English
- 1 year warranty for the parts and labor

Quantities included to the standard purchase	HCM 60	HCM 80	HCM 165	HCM 400
16 Lens Holder Rod	30	30	30	60
Lens Holder (60 - 80 mm)	126	168	336	672
Lens Holder (50 - 60 mm)	36	48	96	192
Lens Holder (40 - 50 mm)	18	24	48	96

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COMPARISON CHART

	HCM 60	HCM 80	HCM 160	HCM 400
Good for Labs	Small	Small/Mid	Mid	Large
Chamber	1	1	1	2
Auto Refill	Detergent+Alcohol+Varnish	Detergent+Alcohol+Varnish	Detergent+Alcohol+Varnish	Detergent+Alcohol+Varnish
Remote Control	✓	✓	✓	✓
HMI Screen	✓	✓	✓	✓
In / Out Conveyor	○	○	○	✓
Water Saving	✓	✓	✓	✓
Filtration for deionized water	✓	✓	✓	✓
US Stripping and Cleaning	○	○	○	○
A/C	✓	✓	✓	✓
Tank Capacity (Lenses)	6	6/8	12/16	28/32
Lenses per hour	60	60 to 80	120 to 160	336 to 384
Lens Types	All (40 - 80 mm)	All (40 - 80 mm)	All (40 - 80 mm)	All (40 - 80 mm)
Electric Consumption	10 kW	12 kW	16 kW	25 kW
Weight	~ 750 kg	~ 750 kg	~ 1000 kg	~ 2500 kg
Dimensions (wxdxh)	320 x 120 x 200 cm	350 x 120 x 200 cm	410 x 120 x 200 cm	700 x 120 x 200 cm

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