



Box Coater 1200-DLX

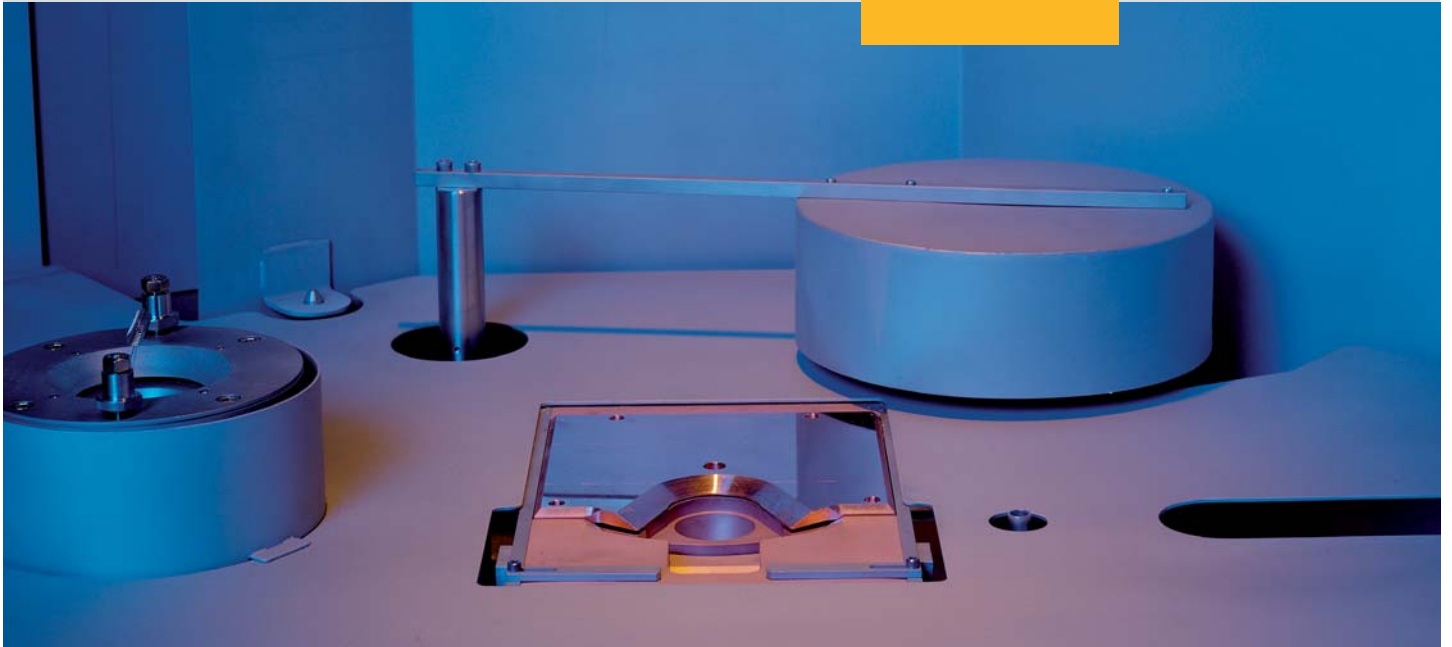
Unequaled flexibility & efficiency



Consistent sophisticated AR coatings in unprecedented process times,
high productivity and the lowest cost per lens, high coating quality.

satisloh[®]

Consistent, uniform AR coatings,
highest stock lens productivity,
fast technology.



1200-DLX high volume vacuum box coater

The 1200-DLX represents the evolution of the well known 1200-DLF. Thanks to newly developed coating processes, it provides consistent, sophisticated AR coatings in unprecedented short process times.

Satisloh specializes in providing turn-key solutions, including all auxiliary equipment, such as ultrasonic cleaning systems and dip coating lacquering systems. All are supported with comprehensive training and service programs with 8 service sites on 4 continents.

Application

The 1200-DLX box coater deposits anti-reflective (AR) and / or mirror coatings on organic and mineral glass lenses via thermal evaporation process (PVD). It offers multiple process applications. The new 1200-DLX is built for unprecedented throughput requirements in Rx-Lab and stock lens production.

Process

Developing innovative coating processes for your success is our goal, so Satisloh engineered a new process generation, only and exclusively available for the 1200-DLX, that increase the productivity up to 50%^(*).

Satisloh is experienced in the full process chain and offers a wide range of proven and easy to setup AR and mirror processes dedicated to lens material and coating quality requirements. Because of machine configuration and consumables knowledge, lens quality is uniform within a batch and from batch to batch.

1200-DLX processes:

- Ioncote κ+ X ^(**)
- Ioncote κ X
- Performance X
- Multiquartz X
- Spectraflex X

In all processes the ion gun is used as an innovative layer, to enhance adhesion of coatings with substrates, and also during the deposition with a more precise parameter set.

^(*) percentage vary according to selected process and lens holder configuration

^(**) only available together with Satisloh lacquers DT/DN1500 and DN1600

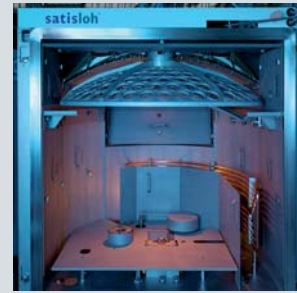
Benefits

- Consistent (uniform) AR coatings
- Highest lens productivities
- Extremely Fast technology with unprecedented low process times
- Lowest cost per lens
- Proven Satisloh AR and mirror processes quality
- Easy job and process set-up and change
- Perfect usability of machine software

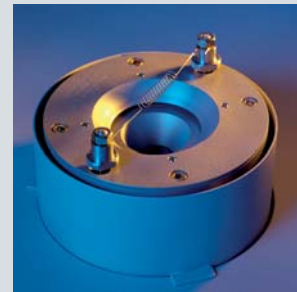
Features

- 6-sector dome, ringless full big dome or a flip-over system for double-side processing
- Ion-assisted optimized deposition
- Electron beam gun with a shutter
- Evaporation optimized by digital sweeper control
- Powerful pump system with 1 diffusion pump
- Multilanguage software available: English, Italian, German, French, Spanish, Chinese
- Reduced power consumption by more than 30% ^(*)

^(*) Considering consumption of box coater + cascade cooler.



Vacuum chamber



IG head „Mark II“[®]



Double hard disk raid 1



Touch screen control system

1200-DLX

Technical Information:

Lens Specification

- CR39
- Polycarbonate
- High index
- Acrylic
- Photo chromic
- Mineral glass up to $n = 1.9$

Diameter	No. of lenses
6 big sector dome	
Ø 51 mm	324
Ø 66 mm	198
Ø 72 mm	168
Ø 75 mm	150
Ø 80 mm	126
Flip-over	
Ø 51 mm	252
Ø 66 mm	144
Ø 72 mm	120
Ø 75 mm	108
Ø 80 mm	96
Ringless full big dome	
Ø 55 mm	329
Ø 60 mm	277
Ø 65 mm	245
Ø 67 mm	222
Ø 70 mm	209
Ø 72 mm	197
Ø 75 mm	174
Ø 80 mm	156

Electrical Requirements:

40 kVA, 3P+N+E, 400 V, 50/60 Hz

Dimensions (w x d x h):

2126 x 3700 x 2425 mm /
84 x 146 x 96 inches

Compressed Air: 6 bar

Gas Purity: Ar, O₂ min. 99.95%

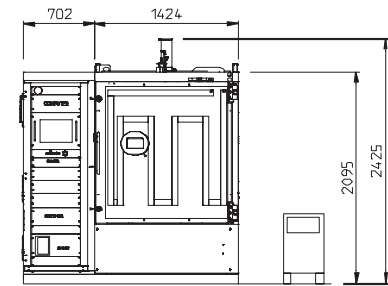
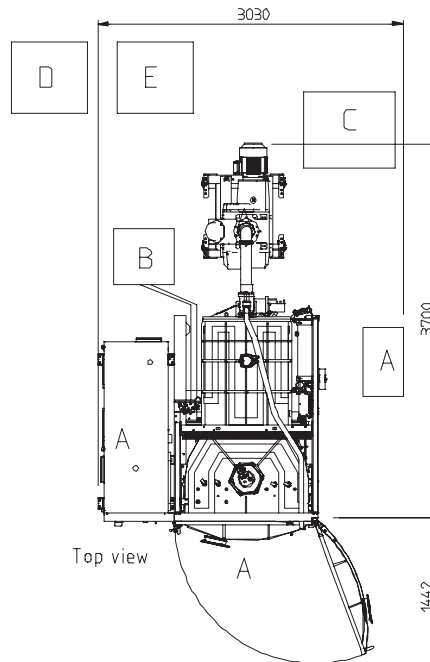
Utilities & Space

Vacuum chamber assembly and high vacuum pump set

	kg	lb
1200-DLX	2700	5960
Electrical cabinet	515	1137
Water thermo conditioner	60	133
Preliminary vacuum pump	640	1413

Optional:

CC-10-S cascade cooler	237	523
GCC-23 water chiller	230	508
Transformer for coater	310	684
Transformer for cascade cooler	310	684



A 1200-DLX box coater (including a water thermoconditioner)

B CC-10-S cascade cooler

C GCC-23 water chiller

D Transformer for box coater (for voltages other than 400 V) (750 w x 700 d x 960 h)

E Transformer for cascade cooler (for voltages other than 400 V) (750 w x 700 d x 960 h)

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