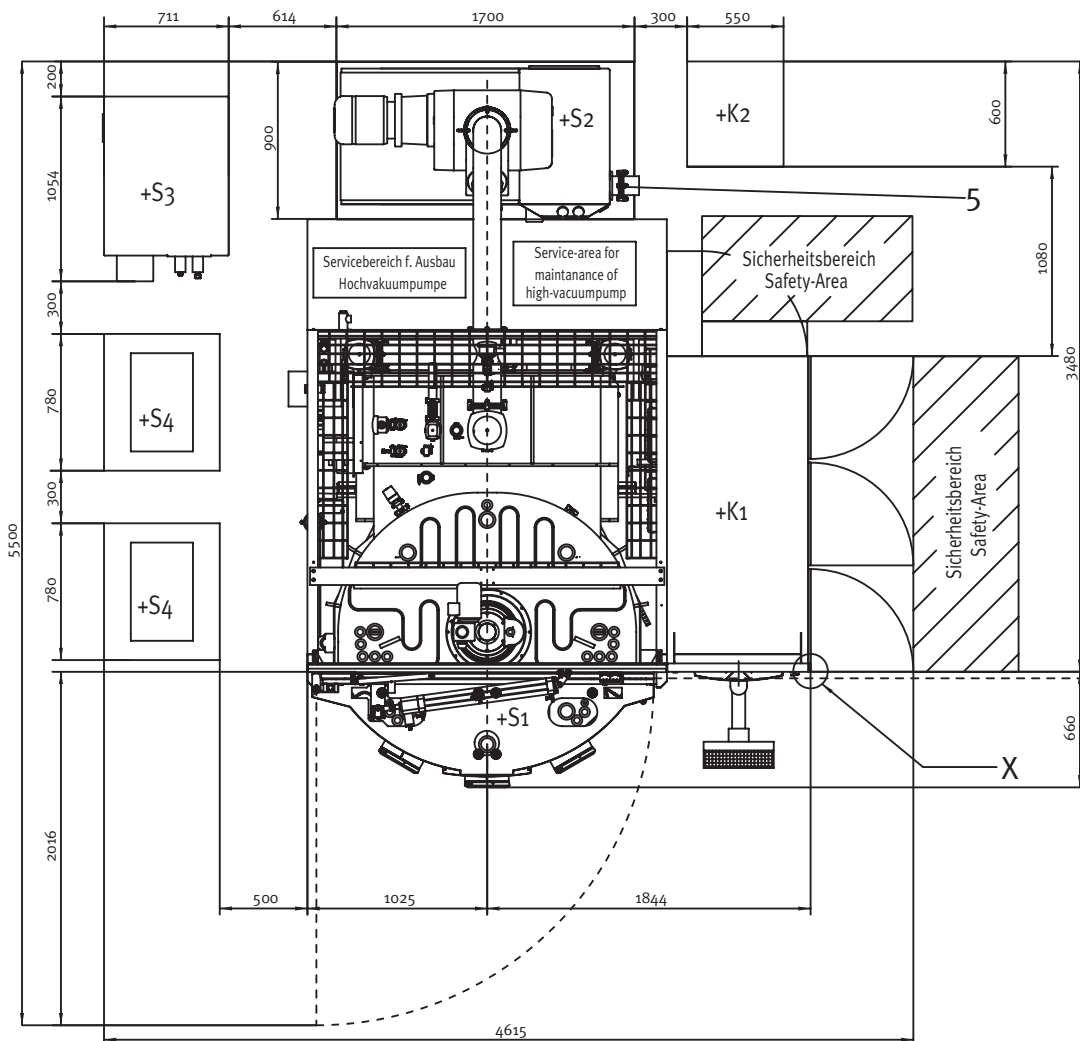


High productivity combined with ultimate precision

The largest of our standard-sized systems is the SYRUSpro 1510 series. It offers APSpro technology and optical monitoring, is ideal for 24-hour-a-day mass production and also suitable for clean room use. This machine is optimized for all precision optics applications from flat to extremely cured substrates. A short pumping time and a high deposition rate help to reduce production costs.

OPTICS



LEYBOLD OPTICS

Technical Features **SYRUSpro 1510**

SYRUSpro 1510 – High productivity combined with ultimate precision

Technical Data

Process Chamber

Inside diameter 1,550 mm

Process Control

Automatic process control system

SYproCS

Auxiliary SPS for external I/O

integration of RGA, etc. option

Pump Set

Pre-vacuum pump

Roots pump set

High vacuum pump

Diffusion pump

optional cryopump

Meissner trap

Polycold PFC

optional LN2 baffle

Pump down time (to 1×10^{-5} mbar)

approx. < 6 min* / -- min*

clean chamber / process conditions

Substrate Carrier

Calotte diameter

1,400 mm

Capacity (typical):

Substrate dia. 65 mm

264 pcs.

Substrate dia. 70 mm

210 pcs.

Substrate dia. 75 mm

198 pcs.

Planetary carrier (regular size)

6 x Ø up to 460 mm

option
depending on substrate- /
carrier sizes

Capacity (typical):

Substrate dia. 60 mm

6 x 36 pcs.

Substrate Treatment

Substrate Heating

up to 300 °C

higher temperature on request

Back side heater

33 kW

for calotte

Front side heater

up to 18 kW

option

PIAD Source

Plasma source

APS

option

PVD Sources

Electron beam evap. HPE 6

up to 10 kW

depending on crucible type

Electron beam evap. HPE 10

up to 10 kW

option

Thermal evaporator

4 kW

option

Other sources (e.g. PECVD)

on request

option

Layer Monitoring

Physical monitoring

Quartz crystal thickness monitoring

XMS / six-fold sensor

up to five different channels

Optical monitoring

Optical thickness monitoring

OMS 5000 UV-VIS-NIR

option

Site Requirements

Water

Consumption

hot / cold

110 l/min @ 20 °C

minimum

Pressure

4.5 bar

minimum

Compressed air

7 to 9 bar

102 to 129 psi

Electrical connection

Voltage

3 x 400 V

± 10 %

Frequency

50 / 60 Hz

Power

100 kW

minimum

Required floor space (approx.)

25.9 m²

incl. safety-, service- and
operation area

Floor load/weight (approx.)

8,000 kg

* pump set with roots pump set, diffusion pump and Meissner trap

All details are subject to technical changes.

LEYBOLD OPTICS GmbH
Siemensstrasse 88
63755 Alzenau, Germany
Phone: +49 6023 500 - 0
Fax: +49 6023 500 - 150
e-mail: info@leyboldoptics.com
www.leyboldoptics.com



LEYBOLD OPTICS