

Innovative Vacuum Solutions

for Flat Panel Display



Vacuum Solutions for

DRYVAC SYSTEMS – THE LEYBOLD STANDARD for Flat Panel Display



With our DRYVAC SYSTEM platform we offer innovative solutions based on our DRYVAC dry screw pumps in combination with RUVAC WH booster pumps. These systems cover a large variety of Flat Panel Display application in the production of LCD and OLED displays.



We offer standardised ergonomics –
easy to install, easy to use.

Quality

Our product quality and knowhow ensures your sustainable success in vacuum

Performance

High capacity dry pumps and dry booster pumps are our focus

Total cost of ownership

We offer the best total cost of ownership package for your projects

Challenging Requirements

DRYVAC SYSTEM 2500



DS 2545 U / DS 2565 U

Trust a pump with experience

These systems are designed for load lock and transfer applications. Their performance and reliability is proven by a large installed base in the flat panel display market.



DS 2545 F / DS 2565 F

Dry fore-vacuum pump systems for transfer chambers, VCD (DS 2565) and process applications such as thin film encapsulation ALD and PECVD (DS 2565C-F).

DRYVAC SYSTEM 4400



DS 4465 U

Get the number one in load lock

These system is especially designed for load lock. By combining large capacity, high performance dry pump technologies we offer the fastest load lock package.



DS 4465C-F

Dry pump systems for high throughput process applications such as thin film encapsulation ALD and PECVD (DS 4465).

DRYVAC SYSTEM 7000



DS 7065C-F / DS 70120 F

Boost your process performance

Dry pump systems for maximum throughput process applications such as thin film encapsulation ALD / PECVD (DS 7065) and VCD (DS 70120).



DS 7050C-F

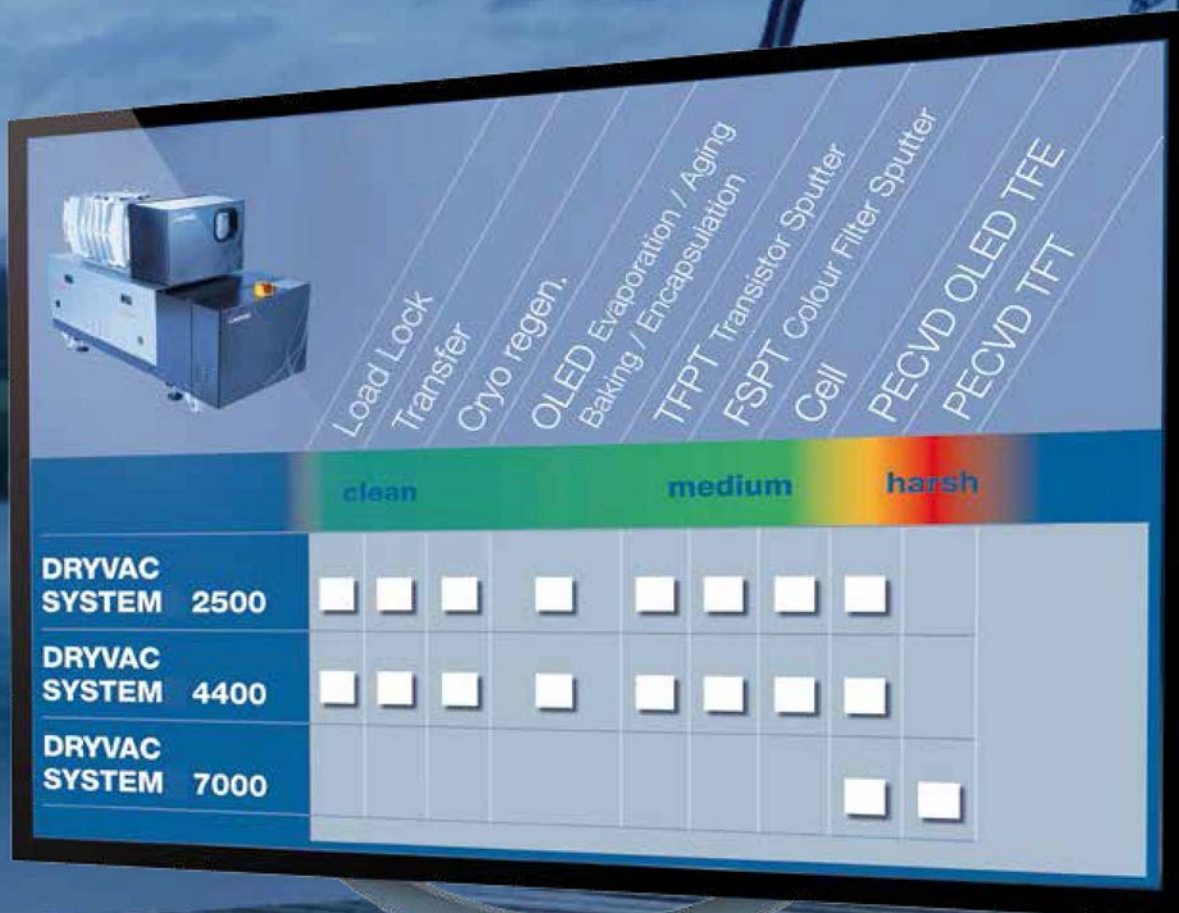
The new generation of PECVD

PECVD processes are key in the manufacturing of thin film transistors. The share of PECVD pumps in the Display production processes is high and these processes are considered to be harsh. Leybold now qualified a new generation of temperaturecontrolled PECVD processes pumps which offer maximum throughput giving you the benefit of ONE SET LESS per chamber.

No matter what the display market future holds ...

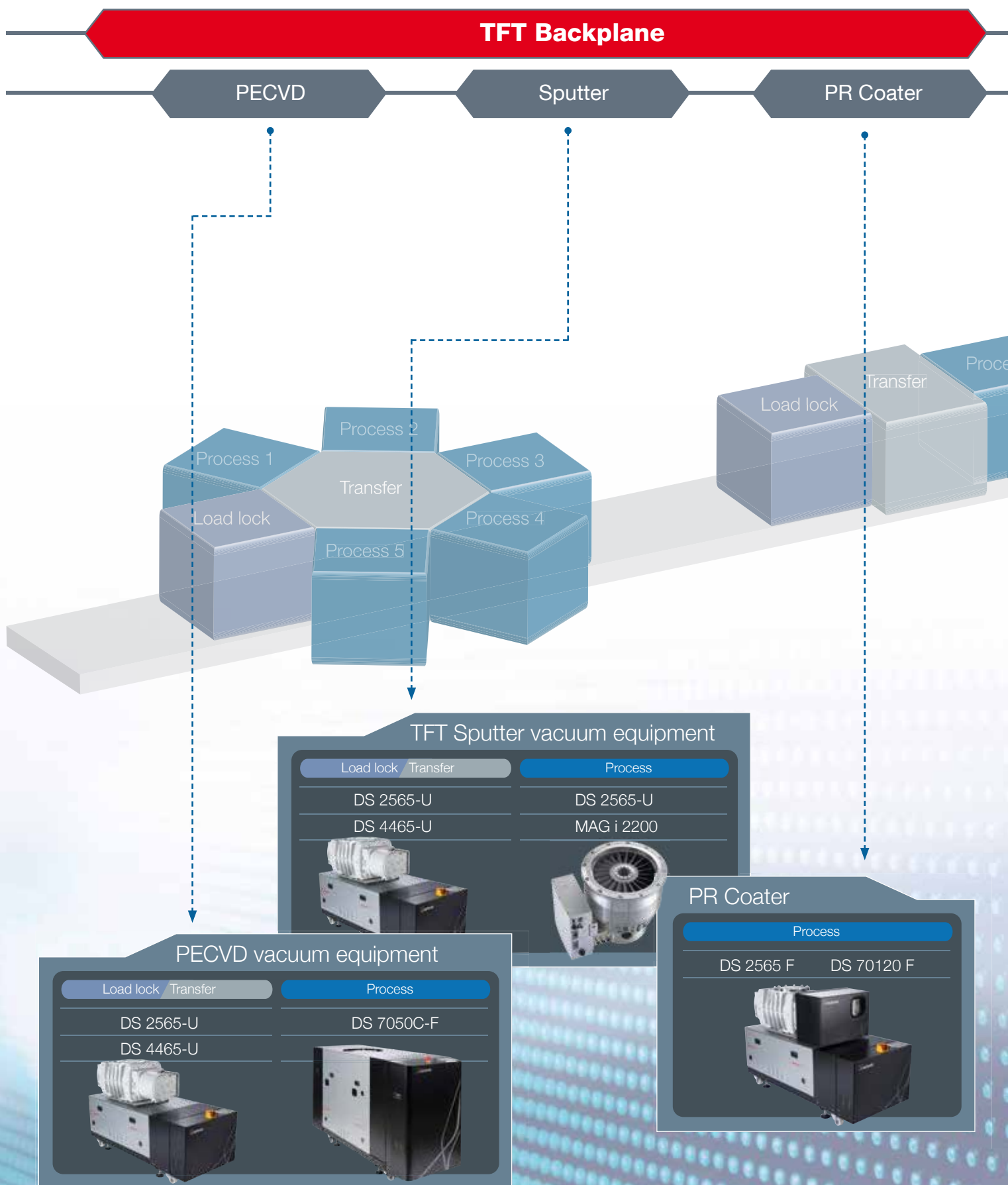
... you can rest assured that we will face all upcoming market challenges, always continue to be a key enabler in display manufacturing processes.



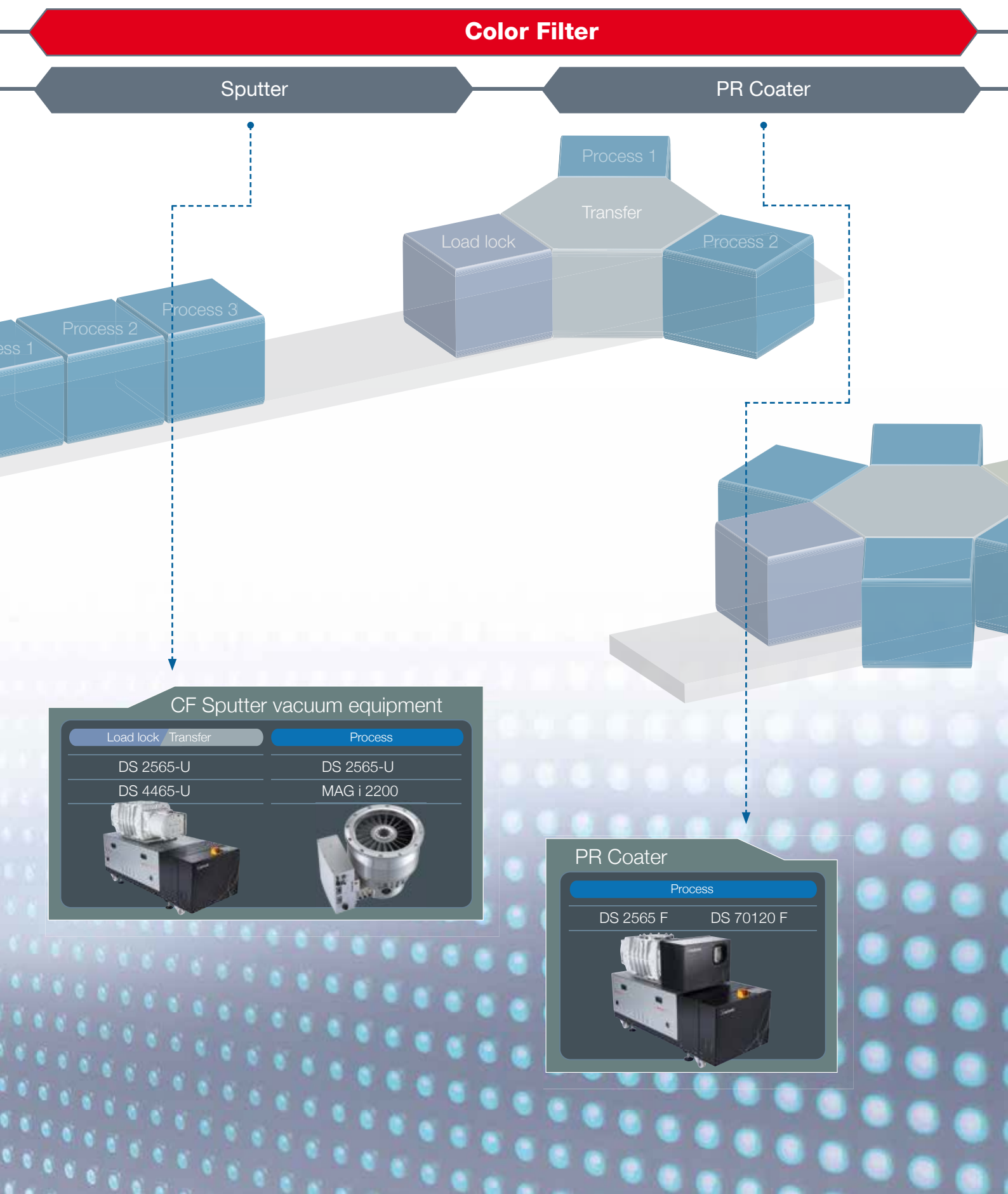


Leybold offers a broad line of vacuum pumps and accessories, enabling the selection of optimum pump systems for flat panel display applications.

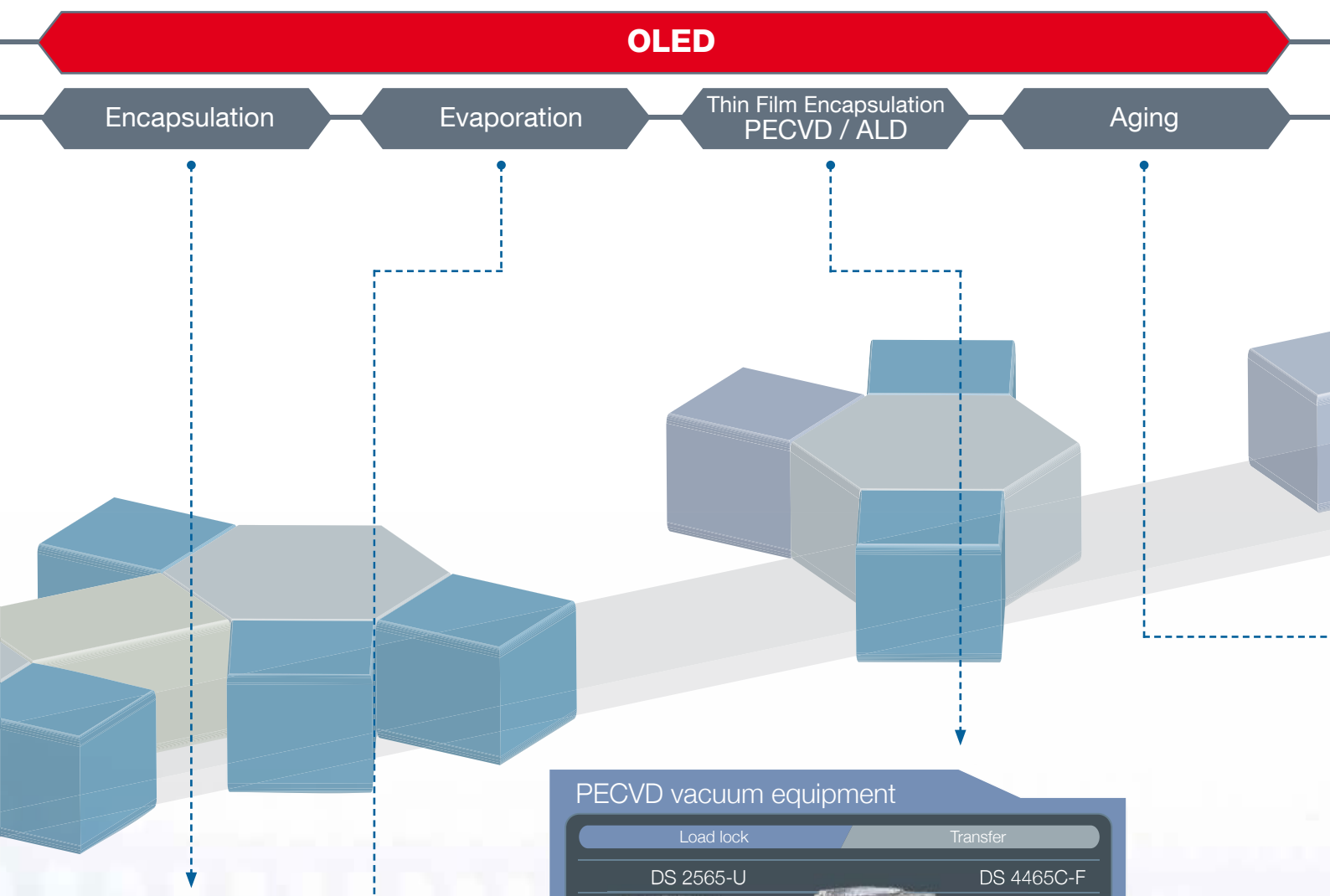
Innovative Vacuum



Solutions for Flat Panel Display



Production Processes



Encapsulation vacuum equipment

Load lock

DS 2565-U



Transfer

DS 4465-U



PECVD vacuum equipment

Load lock

DS 2565-U



Transfer

DS 4465C-F

DS 7065C-F



Evaporation vacuum equipment

Load lock

DS 2565-U



Transfer

DS 4465-U



Aging vacuum equipment

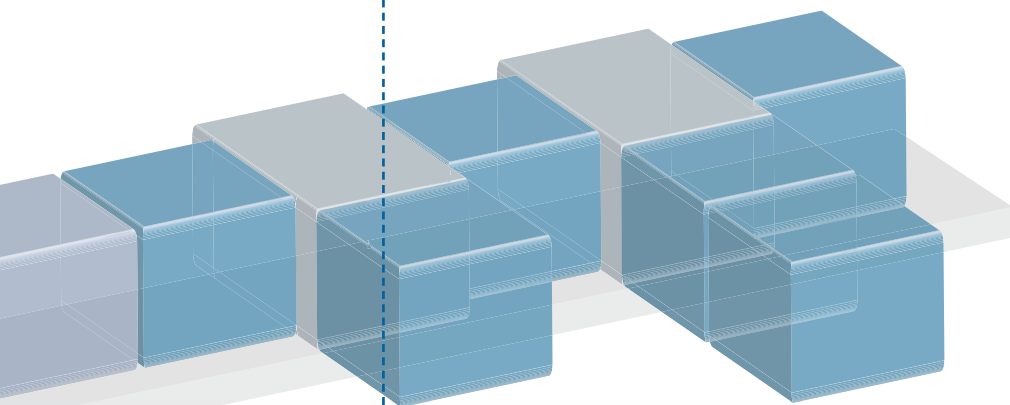
Load lock

DS 2565-U



Cell

Lamination



Lamination vacuum equipment

Process

DS 2565-U

DS 4465-U



Transfer

DS 4465-U





Flat panel displays for TVs,

Numerous production steps under vacuum conditions require vacuum systems with highest reliability, quality and optimized cost of ownership.

Efficient solutions

The Leybold team of vacuum specialists developed pumping simulation and designing programs to provide the optimized vacuum solution for your project and processes. Continuous improvement drives our innovation program in order to enhance pumping performance and minimize utility costs.

For choosing the optimal pump design, parameter such as demanding engineering requirements, safety aspects, reliability, capital investments and cost of ownership need to be taken into account.

Vacuum systems are designed and qualified generally in close cooperation with the manufacturers of coating systems, drawing on the experience gained from long-term relationship and cooperation with leading customers.

Leybold convinces with technological leadership offering products which provide clean vacuum, high quality and excellent performance. Our consultancy expertise in analyzing operating costs based on our products allows us to clearly show financial and technological advantages over competitive solutions.





Whether you are an end-user of our products or an OEM – vacuum technology is either system integrated or needs to be maintained in your installed base. We also offer customized service solutions and contracts to meet your specific needs.

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Full line vacuum solutions

Vacuum and pressure gauges

Reliable monitoring and control for all vacuum processes.



Helium leak detectors

Designed for the requirements of industrial series production. Well-proven and easy to use in production and quality control programs.



Turbomolecular pumps

TURBOVAC line with mechanical rotor suspension, TURBOVAC MAG line with magnetic rotor suspension and the TUBOVAC i series with hybrid rotor suspension.



Refrigerator cryo pumps

Hydrocarbon-free high-vacuum generation with highest water-vapor pumping capability, long maintenance intervals, installation in any orientation.



Flange systems

Small flanges from DN 10 to DN 50
Clamped flanges from DN 63 to DN 630
CF flanges from DN 16 to DN 250



We are the leading supplier for vacuum products. For 165 years, customers all over the world rely on our experience and expertise as partner in vacuum technology.

All products must pass an extended qualification program with strict toll gates before they are released into the market. For all serial products we have a continuous improvement program in place.

- Worldwide service network - we are where you need us
- On-site support by our field service team
- 24 hours / 7 days a week
- Exchange program with back-up pool management
- Customized service contracts
- Remote service
- Extended warranty program
- Genuine spare parts

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