



PAINTLINE Compact for small to medium size substrates

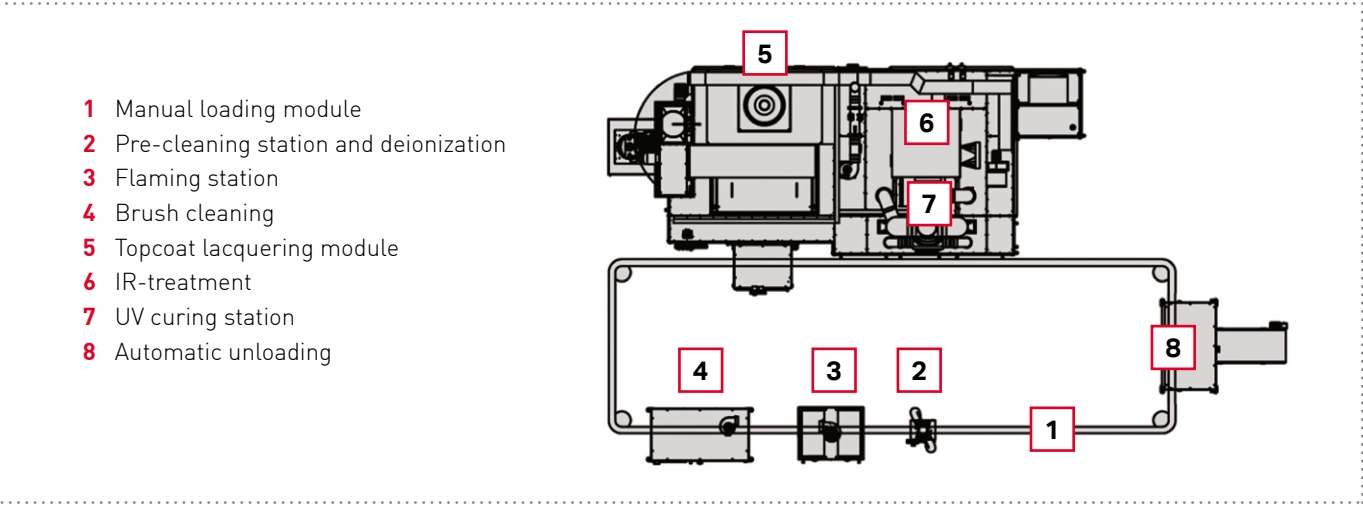
PAINTLINE Compact

THE "LITTLE SISTER" FOR SMALL TO MEDIUM SIZE SUBSTRATES
The SINGULUS TECHNOLOGIES PAINTLINE Compact has a significantly reduced footprint while still offering the most critical process steps for painting of 3-dimensional substrates. It is the right choice for companies with slightly less variety of part dimensions and lacquering materials to be applied.

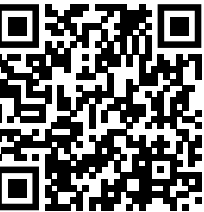
The PAINTLINE Compact version is also adjustable in terms of module placement to meet your company's specific needs.

PAINLINE Compact
Technical Data

Uptime	90 %
Yield	95 % (depending on paint and substrate shape)
Max. substrate dimensions (mm)	Ø 120 / h 250
Load weight per substrate	Up to 0.5 kg
Cycle time	6 s / carrier
Throughput	Up to 10,800 substrates/h
Length of installation	~ 8 m
Width of installation	~ 6 m
Height of installation	~ 3 m
Other layouts on request	



Your direct contact:
www.singulus.com



Headquarters

SINGULUS TECHNOLOGIES AG
Hanauer Landstrasse 103
63796 Kahl, Germany
Tel. +49 6188 440-0
Fax +49 6188 440-1130
sales@singulus.de

Subsidiaries

China
SINGULUS TECHNOLOGIES (SHANGHAI) Co. Ltd.
Room B412-413
No. 1400 Jiangchang Road
Jingan District, Shanghai
Zip Code: 200072
Tel. +86 21 61073997
sales@singulus.cn

SINGULUS TECHNOLOGIES Guangzhou Office
Room 539, 5F Block B
Nanlong Commercial Center
Dalong No.31 Shilian Road, Panyu
Guangzhou 511450
Tel. +86 13822138376
sales@singulus.cn

France
SINGULUS TECHNOLOGIES FRANCE S.A.R.L.
Tel. +33 3 8931 1129
laurent.ferrer@singulus.fr

North America
SINGULUS TECHNOLOGIES INC.
Tel. +1 860 683 8000
sales@singulus.com

South America
SINGULUS TECHNOLOGIES LATIN AMERICA LTDA.
Tel. +55 1121 6524-10
sales@singulus.com.br

Southeast Asia
SINGULUS TECHNOLOGIES ASIA PACIFIC PTE LTD.
Tel. +65 67411912
sales@singulus.com.sg

Taipei Office
SINGULUS TECHNOLOGIES TAIWAN LTD.
Tel. +886 2 8692 6996
sales@singulus.com.tw



SINGULUS TECHNOLOGIES - Thin-Film Coating and Surface Treatment

SINGULUS TECHNOLOGIES develops and assembles innovative machines and systems for efficient thin-film coating and surface treatment processes, which are used worldwide in the Photovoltaics, Semiconductor, Medical Technology, Packaging, Glass & Automotive as well as Battery & Hydrogen markets.

The company's core competencies include various processes of coating technology (PVD sputtering, PECVD, evaporation), surface treatment as well as wet-chemical and thermal production processes.

SINGULUS TECHNOLOGIES sees sustainability as an opportunity to position itself with innovative products. In the focus are environmental awareness, efficient use of resources and avoidance of unnecessary CO₂ pollution.

SINGULUS TECHNOLOGIES attaches great importance to responsible and sustainable corporate governance.



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PAINTLINE

Inline Painting of
3-dimensional Parts for
Multiple Applications



The Cover-it-all Painting System for Various Substrate Dimensions

PAINTLINE

The SINGULUS TECHNOLOGIES PAINTLINE is a highly automated integrated system for high throughput demands of painted 3-dimensional parts. All relevant process steps from cleaning to curing are included. It offers the possibility to adjust the configuration to your company's facility needs. Its versatile loading mechanism allows for a broad range of part dimensions allowing for flexibility within production for new and modified parts. Ecological aspects are well considered in the design of reusable stainless steel filters, paint collection and low material waste. The PAINTLINE carries state-of-the-art modules and controls known from surface refinement SINGULUS TECHNOLOGIES equipment, such as DECOLINE II or POLYCOATER.



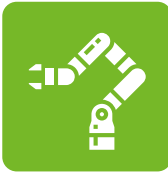
Cost
Effective



Reliable
Process



Sustainable
Process



Universal
Loading



UV Drying



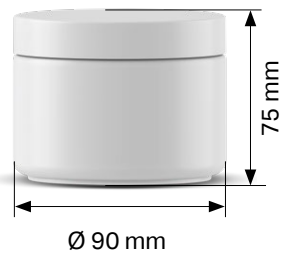
3 substrates per carrier
1,540 substrates/h



9 substrates per carrier
4,620 substrates/h



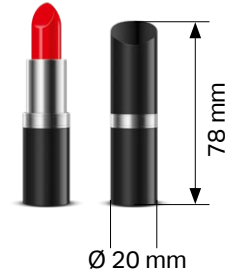
18 substrates per carrier
9,250 substrates/h



4 substrates per carrier
2,050 substrates/h



6 substrates per carrier
3,080 substrates/h



18 substrates per carrier
9,250 substrates/h

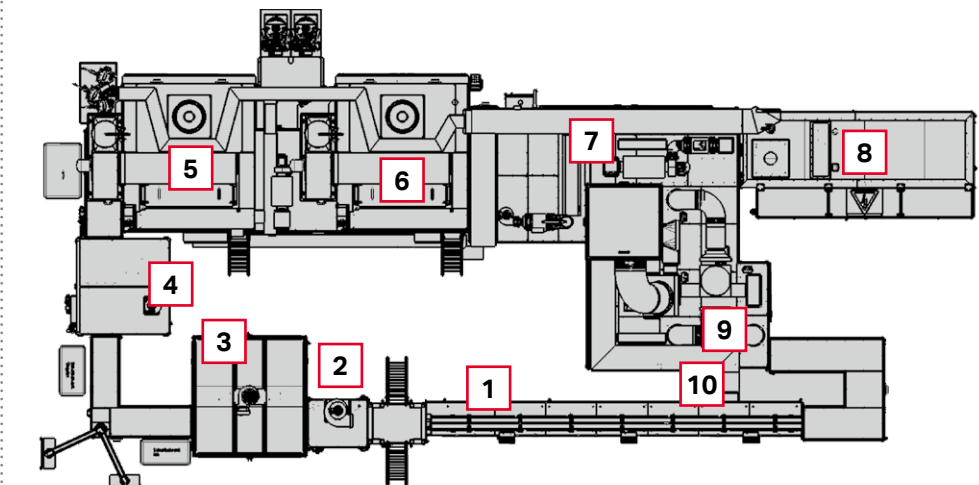


SYSTEM ADVANTAGES

- » Flexible thanks to double spindle carriage with rotary spindles at smaller and larger distances for parts with different dimensions
- » Suitable for high solid, waterborne and traditionally solvent based UV paint
- » Up to two robots in the painting booth for the application of different primers and top paint colors or types
- » 6-axis paint robots with independent control of the three spray guns per robot
- » Reproducible coating results thanks to storage of the settings in the PLC
- » Fast production change
- » Sustainable and low-maintenance thanks to innovative three-stage filter system and most efficient material consumption
- » Closed design of the coating booth with fresh air supply via filter ceiling with supply air hood and fan
- » Paint drying and curing with four IR radiation fields and UV units at two different positions

PAINTLINE Technical Data

Uptime	90 %
Yield	95 % (depending on paint and substrate shape)
Max. substrate dimensions (mm)	Ø 150 / h 400
Load weight per substrate	Up to 2.5 kg
Cycle time	7 s / carrier
Throughput	Up to 9,250 substrates/h
Length of installation	~ 15.5 m
Width of installation	~ 6 m
Height of installation	~ 3 m
Other layouts on request	



- 1 Manual loading module
- 2 Pre-cleaning station and deionization
- 3 Flaming station
- 4 Brush cleaning
- 5 Primer coat lacquering module
- 6 Top coat lacquering module
- 7 IR-treatment
- 8 Warm-air oven 60 °C
- 9 UV curing station
- 10 Unloading