

LINE 7 FILL–FINISH

Engineering figure dossier · aseptic fill–finish line 7

Orvane Biologics · Building 4 · document OB-L7-ENG-0420 · revision C

Document control		
Role	**Name**	**Date**
Author	A. Kessler	2026-09-30
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Approver	R. Lindqvist	2026-10-05

Figures in this dossier are drawn with native Word geometry: extrusion, bevels, camera presets, materials, lighting rigs, glTF models and 3-D charts. Nothing is a screenshot except the photographs.

DEMONSTRATION DATA · NOT FOR GMP USE

OB

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Revision history

Rev	Date	Section	Change	By
A	2026-03-11	all	First issue for design review	AK
B	2026-06-02	3, 5	Gallery redrawn after FAT; tunnel cooling zone added	AK
B1	2026-06-20	6	3-D models replace photographs	MO
C	2026-09-30	1–8	Issued for qualification	AK
Rows 3–4 are a nested change set:				
CR-118	glove port 5 moved 40 mm		closed	
CR-121	RTP door interlock		open	

Rotated cells and borders

Washer	Tunnel	Filler	Capper	Inspection	Labeller
37 % OK	74 % OK	11 % OK	48 % OK	85 % OK	22 % OK

1 · Typography under test

Every paragraph on these two pages changes something a renderer has to honour: a face, a weight, a width, an OpenType feature, a script direction or a text effect. The line runs three products on a common isolator. Each changeover is validated as a single, unhurried sequence: the vial path is cleared, the stopper bowl emptied and wiped, the needle manifold exchanged as a pre-sterilised assembly, and the chamber decontaminated with vaporised hydrogen peroxide before the first glove re-enters.

Calibri — Sterile 0123456789 *Cambria — Sterile 0123456789* **Georgia — Sterile 0123456789** Garamond — Sterile 0123456789 Constantia — Sterile 0123456789 *Corbel — Sterile 0123456789* Candara — Sterile 0123456789 Segoe UI Light — Sterile 0123456789 **Segoe UI Semibold — Sterile 0123456789** ***Segoe UI Black — Sterile 0123456789***

Bahnschrift Condensed — Sterile 0123456789 Bahnschrift SemiBold SemiConden — Sterile 0123456789 Bahnschrift Light SemiCondensed — Sterile 0123456789 *Sitka Text — Sterile 0123456789* **Book Antiqua — Sterile 0123456789** Palatino Linotype — Sterile 0123456789 Century Gothic — Sterile 0123456789 *Franklin Gothic Medium — Sterile 0123456789* Rockwell — Sterile 0123456789 Tw Cen MT — Sterile 0123456789 **Gill Sans MT — Sterile 0123456789** *Bodoni MT — Sterile 0123456789* Arial Narrow — Sterile 0123456789 Consolas — Sterile 0123456789 Courier New — Sterile 0123456789 *Segoe Script — Sterile 0123456789*

SMALL CAPS STERILE FILLING ALL CAPS VIA ATTRIBUTE

e x p a n d e d 3 p t condensed −1pt raised lowered scaled 150 % scaled 66 % H_2O_2 m^3/h 10^{-6} SAL

underline 1 underline 3 underline 6 underline 4 underline 7 underline 11 underline 2 underline 9 underline 27 underline 43 ~~strike~~ ~~double strike~~ yellow highlight turquoise highlight run shading visible again.

Glow Shadow Reflection

Gradient 3-D text Gabriola ligatures and stylistic set 6: *fiffly flourish*, Qu, ct, st Old-style figures 1234567890 tabular 1111 / proportional 1111

Greek: Αποστείρωση με ατμό στους 121 °C · Cyrillic: Асептическое наполнение · Vietnamese: Đóng ống vô trùng

العربية: تعبئة معقمة في عازل مغلق — النص من اليمين إلى اليسار

עברית: מילוי אספטי בתוך מבודד

日本語：無菌充填ライン　中文：无菌灌装线 한국어: 무균 충전 라인

हिन्दी : रोगाणुरहित भराई · ไทย: การบรรจุแบบปลอดเชื้อ

Symbols: ✓☒Θ•✓

Lists

1) Wash and depyrogenate
2) Fill under unidirectional airflow
   3) Stopper inside the isolator
   4) Cap outside grade A
5) Inspect every unit

- ✓ Bullet with a Wingdings check: Wash and depyrogenate
- ✓ Bullet with a Wingdings check: Fill under unidirectional airflow
- ✓ Bullet with a Wingdings check: Stopper inside the isolator

Equations

$$F_0 = \int_0^{t} 10^{\frac{T(\tau) - 121.1}{z}} d\tau$$

$$SAL = N_0 \cdot 10^{-\frac{F_0}{D_{121}}} \; and \; k = A\, e^{-\frac{E_a}{RT}}$$

Lethality is integrated over the measured cold-spot

[1] Cold spot located by heat-penetration mapping, three runs, twelve probes.

DEMONSTRATION

profile[1]

The line runs three products on a common isolator. Each changeover is validated as a single, unhurried sequence: the vial path is cleared, the stopper bowl emptied and wiped, the needle manifold exchanged as a pre-sterilised assembly, and the chamber decontaminated with vaporised hydrogen peroxide before the first glove re-enters. The line runs three products on a common isolator. Each changeover is validated as a single, unhurried sequence: the vial path is cleared, the stopper bowl emptied and wiped, the needle manifold exchanged as a pre-sterilised assembly, and the chamber decontaminated with vaporised hydrogen peroxide before the first glove re-enters. [2i]

2 · Why three-dimensional figures

Engineering documents increasingly carry depth: extruded block diagrams, isometric layouts and imported models. The line runs three products on a common isolator. Each changeover is validated as a single, unhurried sequence: the vial path is cleared, the stopper bowl emptied and wiped, the needle manifold exchanged as a pre-sterilised assembly, and the chamber decontaminated with vaporised hydrogen peroxide before the first glove re-enters. The line runs three products on a common isolator. Each changeover is validated as a single, unhurried sequence: the vial path is cleared, the stopper bowl emptied and wiped, the needle manifold exchanged as a pre-sterilised assembly, and the chamber decontaminated with vaporised hydrogen peroxide before the first glove re-enters.

> *“A figure that only looks right in one program is a figure nobody can sign.”*

The line runs three products on a common isolator. Each changeover is validated as a single, unhurried sequence: the vial path is cleared, the stopper bowl emptied and wiped, the needle manifold exchanged as a pre-sterilised assembly, and the chamber decontaminated with vaporised hydrogen peroxide before the first glove re-enters. The line runs three products on a common isolator. Each changeover is validated as a single, unhurried sequence: the vial path is cleared, the stopper bowl emptied and wiped, the needle manifold exchanged as a pre-sterilised assembly, and the chamber decontaminated with vaporised hydrogen peroxide before the first glove re-enters. The line runs three products on a common isolator. Each changeover is validated as a single, unhurried sequence: the vial path is cleared, the stopper bowl emptied and wiped, the needle manifold exchanged as a pre-sterilised assembly, and the chamber decontaminated with vaporised hydrogen peroxide before the first glove re-enters.

[2] Changeover times are medians over the last forty campaigns.

DEMONSTRATION

Continued in the three-column section that follows on the same page.

Process narrative in three unequal columns

The line runs three products on a common isolator. Each changeover is validated as a single, unhurried sequence: the vial path is cleared, the stopper bowl emptied and wiped, the needle manifold exchanged as a pre-sterilised assembly, and the chamber decontaminated with vaporised hydrogen peroxide before the first glove re-enters.

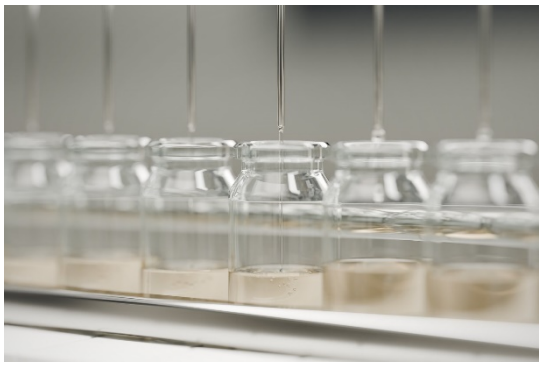


Figure 1 — Needle manifold dosing into 10R vials

The line runs three products on a common isolator. Each changeover is validated as a single, unhurried sequence: the vial path is cleared, the stopper bowl emptied and wiped, the needle manifold exchanged as a pre-sterilised assembly, and the chamber decontaminated with vaporised hydrogen peroxide before the first glove re-enters.

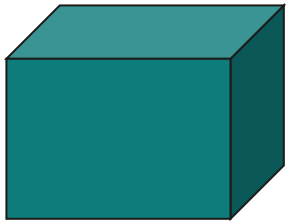
The middle column is 118 pt wide. The line runs three products on a common isolator. Each changeover is validated as a single, unhurried sequence: the vial path is cleared, the stopper bowl emptied and wiped, the needle manifold exchanged as a pre-sterilised assembly, and the chamber decontaminated with vaporised hydrogen peroxide before the first glove re-enters. The line runs three products on a common isolator. Each changeover is validated as a single, unhurried sequence: the vial path is cleared, the stopper bowl emptied and wiped, the needle manifold exchanged as a pre-sterilised assembly, and the chamber decontaminated with vaporised hydrogen peroxide before the first glove re-enters.

The narrow right column is 102 pt wide. The line runs three products on a common isolator. Each changeover is validated as a single, unhurried sequence: the vial path is cleared, the stopper bowl emptied and wiped, the needle manifold exchanged as a pre-sterilised assembly, and the chamber decontaminated with vaporised hydrogen peroxide before the first glove re-enters. The line runs three products on a common isolator. Each changeover is validated as a single, unhurried sequence: the vial path is cleared, the stopper bowl emptied and wiped, the needle manifold exchanged as a pre-sterilised assembly, and the chamber decontaminated with vaporised hydrogen peroxide before the first glove re-enters.

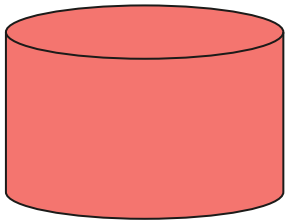
DEMONSTRATION

3 · Extrusion gallery

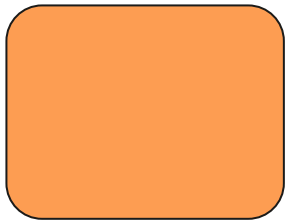
Twelve native shapes; each label names the camera, material, lighting rig and bevel that Word stores.



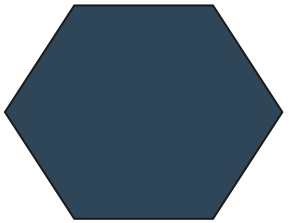
cube preset shape



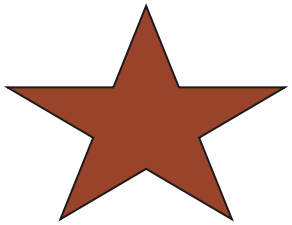
can preset shape



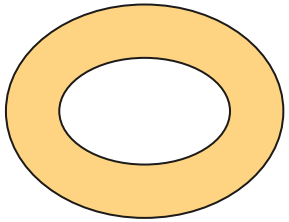
isometric right-up · metal · contrasting light · depth 22



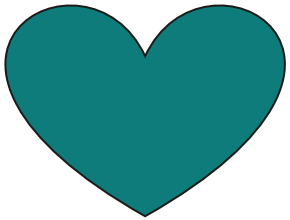
contrasting left-facing · plastic · freezing light · circle bevel · depth 18



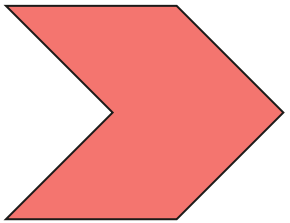
oblique top · warm matte · glow light · depth 14



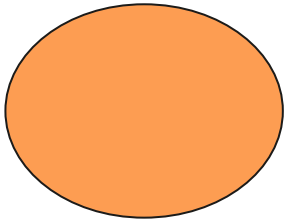
free rotation 40/20, fov 45 · clear · sunrise light · soft round bevel · depth 18



heroic extreme right-facing · dark edge · bright room light · slope bevel · depth 16



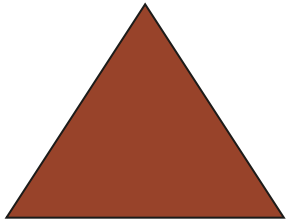
free rotation −30/15 · wireframe · contrasting light · depth 14



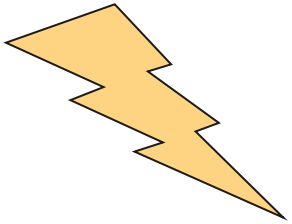
front · powder · sunrise light · circle bevel



off-axis 1 left · metal · two-point light · art deco bevel · depth 14



oblique bottom-left · soft edge · bright room light · angle bevel · depth 18

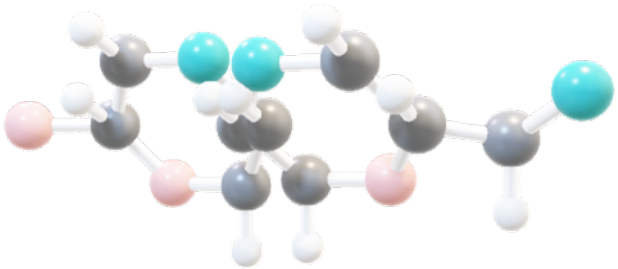


perspective above · soft metal · sunset light · divot bevel · depth 12

4 · Models, WordArt and SmartArt



glTF model · 10R vial, glass + crimp + flip-off cap · rx 12 ry 28



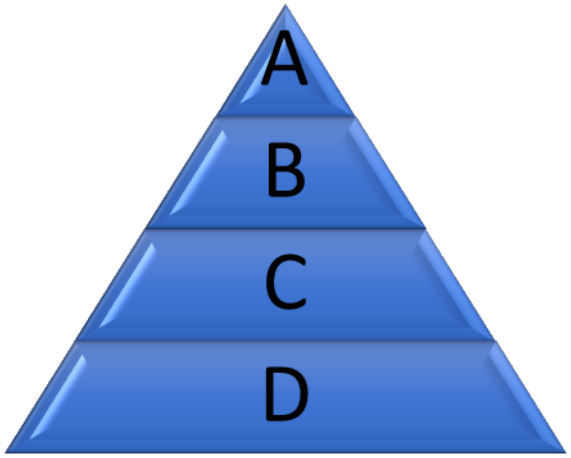
glTF model · invented bicyclic scaffold · rx 35 ry −25

Arched 3-D WordArt

Rotated & glowing



SmartArt cycle · 3-D quick style 7



SmartArt pyramid · cleanroom grades · 3-D quick style 2



picture · perspective right · circle bevel · reflection · glow

5 · Charts in depth

Four native Word charts, each placed in a cell of a 2 × 2 table. Rotation, elevation, perspective, bar shapes and explosion are all set on the chart, not drawn.

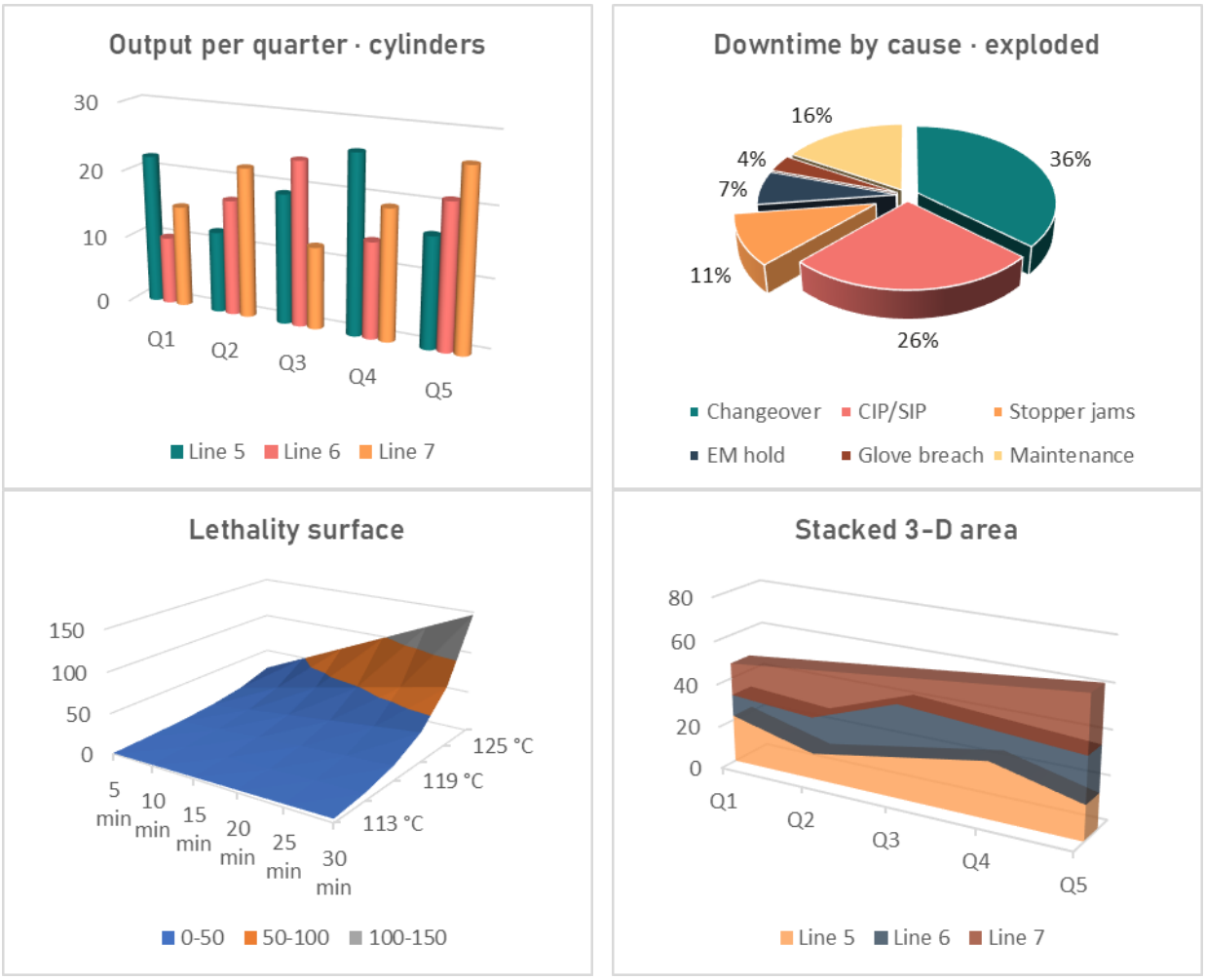


Figure 2 — Four 3-D chart types rendered natively

See the extrusion gallery on page 4

Figure numbering continues: this is figure 2

6 · Embedded objects and drawings

The quarterly workbook is embedded below as an OLE object; Word shows the first sheet as its stored picture. Line numbers count every fifth line of this section.

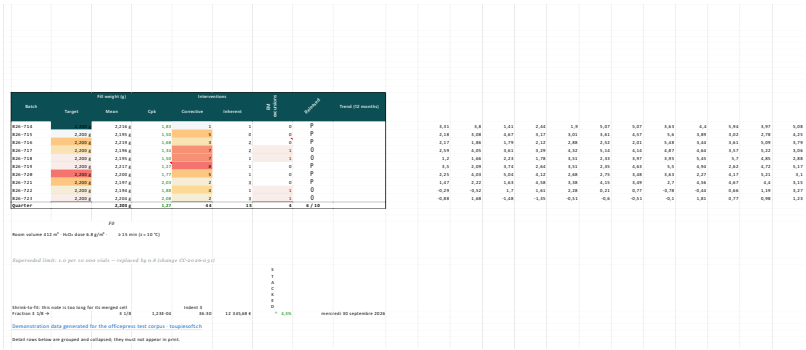


Figure 3 — Embedded Excel workbook (OLE)

A drawing canvas with extruded process steps and elbow connectors:



Two linked text boxes: the story starts in the left box and continues in the right one.

The line runs three products on a common isolator. Each changeover is validated as a single, unhurried sequence: the vial path is cleared, the stopper bowl emptied and wiped, the needle manifold exchanged as a pre-sterilised assembly, and the chamber decontaminated with vaporised hydrogen peroxide before the first glove re-enters. The line runs three products on a common isolator. Each changeover is validated as a single,

unhurried sequence: the vial path is cleared, the stopper bowl emptied and wiped, the needle manifold exchanged as a pre-sterilised assembly, and the chamber decontaminated with vaporised hydrogen peroxide before the first glove re-enters.

Visit toupiesoft.ch for the converter that produced the comparison copies of this dossier.

Index

C

cover **1**

E

extrusion 2

I

isometric 2

R

renderer 1

[i] Endnote: decontamination cycle development report OB-VHP-0112.