



Press Start to Scale.

1,000+ parisons. 200+ balloons. Near-zero labor.

The Swiss-engineered BW-TEC 2711 Autonecker and 2774 Balloon Former automate two of the most labor-intensive steps in catheter balloon manufacturing. Individually or together, they reduce operator time, increase daily output, and scale production without growing headcount.



BW-TEC 2711 Autonecker



BW-TEC 2774 Auto Balloon Former

BW-TEC

2711 Autonecker



Technical Specifications

Raw Tube

Diameter: 0.7 - 7mm
Length: ~220 - 550mm

Tray Volume:

ø 2 mm: ~3000 pcs
ø 4 mm: ~800 pcs
ø 6 mm: ~350 pcs

Volume Output Drawer: >
100 pcs (depending on size)

Process Parameters

Die Diameter:
0.4 - 5.2mm

Cycle time:
typically 30 - 70s (depending
on process and tube)

Process temperature:
20–200°C (68–392°F)

Air pressure: 6–8 bar
(87–116 psi)

Linear guides and servo
drive 3Nm > max. pull force
1500N

Max. linear movement:
455mm

Linear travel speed:
1–500mm/s

Sensor measurement for
reproducible parison length

Handling

User-friendly interface

BW-TEC HMI on touchscreen

PLC controller and PC for
HMI and data management,
network compatible

General

Dimensions (L x B x H): 1770
x 720 x 1550mm

Weight: 234kg

Power: Options for
110V/230V

The 2711 Autonecker prepares up to 1,000 parisons per shift—fully automated and hands-free. With a 3,000-tray magazine, vision-guided alignment, and PC-based recipe control, it eliminates labor bottlenecks and ensures repeatable, validated necking every time.

Key Features:

- 120 parisons/hour – or ~1,000 per 9-hour shift
- Large 3,000-tray capacity — built to accommodate a range of extrusion and tubing sizes.
- Vision alignment – ensures precise, repeatable parison length
- Fully automated – loads, clamps, necks, and transfers hands-free
- Touchscreen recipes – fast changeovers and consistent runs

Press Step & Scale



Scan to see the
2711 in action

BW-TEC

2774 Auto Balloon Former

start.
away.
e up.



Technical Specifications:

Balloon diameter:
Ø 4–34 mm

Balloon length: 2–110 mm

Vertical Rapid Heating Block

Up to 200 balloons per magazine (tube size dependent)

Process temperatures:
20–250 °C (68–482 °F)

Cooling with chiller
(included)

Process time: 1–3 min (for a typical PTCA Balloon)

Process pressure: 0–50 bar
(0–725 psi)

Low pressure system: 6–8 bar
(87–116 psi)

Linear stretching way: up
750 mm, down 400 mm

Servo motors

User interface with BW-TEC
HMI

PLC Controller and PC for
HMI and data management,
network compatible

Dimensions (L x W x H): 1050
x 720* x 2240* mm

*incl. screen ~1050 x 1150 x
2240 mm

Weight without chiller:
315* kg

*incl. chiller 355 kg

Power: Options for
110V/230V

Form over 200 catheter balloons per shift with validated consistency and no operator oversight. The 2774's servo-driven heat, stretch, and pressure controls create a tightly repeatable process, while automatic unloading and recipe-driven changeovers maximize uptime.

Key Features:

- **200+ balloons per shift** – fully automated, high-throughput performance
- **Magazine-fed loading** – enables extended, hands-off production
- **Automatic unloading** – finished balloons collected with zero stoppage
- **Precision control** – servo-driven pressurizing, heating, and servo-driven axial stretching.
- **Wide size range** – forms balloons Ø 4–34 mm, lengths 2–110 mm
- **Simple operation** – touch-screen PC with recipe management
- **Easy integration** – network-ready for database and MES connections



Scan to see the
2774 in action:

Engineered Excellence

At Machine Solutions, we help the world's leading medical device manufacturers bring better products to market faster, smarter, and more reliably. The BW-TEC 2711 Autonecker and 2774 Auto Balloon Former reflect the strength of our mission: combining Swiss precision with scalable automation to solve real production challenges.



Precision

Every BW-TEC system is engineered for validated, repeatable performance—down to the micron. Servo-driven control and vision-guided alignment ensure every cycle meets exacting standards.



Process

We simplify the complex. From fully automated necking and forming to database-ready recipe management, our systems make high-throughput manufacturing effortless to integrate and easy to scale.



People

Behind every solution is a team. From our global service network to our application labs and engineering experts, we partner with you to solve problems, shorten timelines, and deliver results that last.

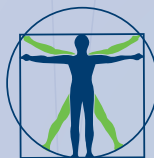
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