

PRODUCT SELECTION DOCUMENT

# Peristaltic Pump Filling Machine

## Engineering Datasheet

For overseas buyers, plant engineers and project teams evaluating a standalone machine or an integrated filling, capping and labeling line.

|              |                                                                 |         |      |
|--------------|-----------------------------------------------------------------|---------|------|
| Manufacturer | Guangdong New Zhen Xiang Smart Equipment Co., Ltd.<br>(ZXSMART) | Founded | 1998 |
|--------------|-----------------------------------------------------------------|---------|------|

### Configuration range

Published values are configuration references from ZXSMART product parameter records. Final values depend on the actual product, container, closure, label, target output and factory utilities.

#### Semi-automatic Single-Head Peristaltic Pump Filling Machine

|                 |                                                                                                |               |                                                                   |
|-----------------|------------------------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------|
| Filling Range   | 50-500 mL                                                                                      | Filling Heads | 1                                                                 |
| Speed           | 5-10 Bottles/Min                                                                               | Accuracy      | ±1%                                                               |
| Method          | Peristaltic / magnetic pump filling                                                            | Anti-drip     | Yes                                                               |
| Anti-foam       | Yes                                                                                            | Quick Clean   | Yes                                                               |
| Suitable Liquid | Low-viscosity clean liquids such as perfume, essential oil, reagent and pharmaceutical liquids | Bottle Type   | Cream jars, personal care bottles, beverage bottles               |
| Mouth Range     | 15-100mm                                                                                       | Capacity      | 50-500 mL                                                         |
| Automation      | Semi-automatic                                                                                 | Industry      | Food & beverage, daily chemical & personal care, alcohol products |
| Machine         | 304 stainless steel                                                                            | Contact       | 316 stainless steel, PTFE                                         |
| Voltage         | 380V                                                                                           | Power         | 1.2 kW                                                            |

**6-Head Peristaltic Pump Filling Machine**

|                 |                                                            |                      |                                                      |
|-----------------|------------------------------------------------------------|----------------------|------------------------------------------------------|
| Filling Range   | 10-1000 mL                                                 | Filling Heads        | 6                                                    |
| Speed           | 20-40 Bottles/Min                                          | Accuracy             | ±1%                                                  |
| Method          | Peristaltic pump filling                                   | Suitable Tube        | Silicone or PharMed tubing                           |
| Pump Head       | YZ15 / YZ25                                                | Tube Change          | Quick and clean product-path change                  |
| Suitable Liquid | Low-viscosity liquids, reagents and pharmaceutical liquids | Bottle Type          | Small glass or plastic bottles; confirm with samples |
| Capacity        | 10-1000 mL, depending on selected tubing                   | Product Contact Path | Replaceable pump tubing                              |
| Automation      | Fully automatic                                            | Voltage              | AC 220V, 50Hz                                        |
| Power           | 600W                                                       | Size                 | 1200 × 1350 × 1800 mm                                |
| Customization   | Yes                                                        |                      |                                                      |

**8-Head Peristaltic Pump Filling Machine**

|                 |                                                            |                      |                                                      |
|-----------------|------------------------------------------------------------|----------------------|------------------------------------------------------|
| Filling Range   | 10-1000 mL                                                 | Filling Heads        | 8                                                    |
| Speed           | 30-60 Bottles/Min                                          | Accuracy             | ±1%                                                  |
| Method          | Peristaltic pump filling                                   | Suitable Tube        | Silicone or PharMed tubing                           |
| Pump Head       | YZ15 / YZ25                                                | Tube Change          | Quick and clean product-path change                  |
| Suitable Liquid | Low-viscosity liquids, reagents and pharmaceutical liquids | Bottle Type          | Small glass or plastic bottles; confirm with samples |
| Capacity        | 10-1000 mL, depending on selected tubing                   | Product Contact Path | Replaceable pump tubing                              |
| Automation      | Fully automatic                                            | Voltage              | AC 220V, 50Hz                                        |
| Power           | 800W                                                       | Size                 | 1500 × 1350 × 1800 mm                                |
| Customization   | Yes                                                        |                      |                                                      |

**Information required for final selection**

|         |                                                                                   |           |                                                                               |
|---------|-----------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------|
| Product | Name, viscosity or flow behavior, temperature, foaming tendency and corrosiveness | Container | Bottle or jar drawings, dimensions, material, neck finish and sample quantity |
|---------|-----------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------|

|                 |                                                                                           |            |                                                                                                  |
|-----------------|-------------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------------|
| Closure / label | Cap or pump sample, torque requirement, label drawing, roll direction and coding content  | Output     | Target bottles per minute, filling volume range, shift pattern and upstream/downstream equipment |
| Factory         | Power supply, compressed-air conditions, available footprint and preferred line direction | Acceptance | Agreed test product, speed target, inspection points and handover documents                      |

## Factory acceptance and handover

ZXSMART can run the agreed bottle, cap, label and product samples before shipment. The acceptance scope should record the test material, operating settings, speed basis, changeover method, cleaning method and agreed inspection points. Remote review is available before dispatch.

## Confirmed service support

|                      |                                   |                       |                                                                   |
|----------------------|-----------------------------------|-----------------------|-------------------------------------------------------------------|
| Warranty             | 1 year                            | Online response       | Within 2 hours                                                    |
| Remote commissioning | Available                         | Overseas installation | Available; engineer visa and travel are covered by ZXSMART        |
| Common spare parts   | Normally dispatched within 7 days | Documentation         | English manual, electrical diagram and pneumatic diagram provided |
| PLC backup           | Provided                          | Training              | Operation training provided                                       |
| Lifecycle parts      | Continued supply available        |                       |                                                                   |