



2026 PRODUCT CATALOG

COMPLETE SOLUTIONS FOR BEVERAGE BOTTLING

Filling · processing · labeling · packing ·
line integration

APPLICATION-BASED EQUIPMENT DATA

International project coordination

Allot Tech (Suzhou) Co., Ltd.

PRIMARY WEBSITE

allotech.com

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ENGINEERED AROUND YOUR PRODUCT, CONTAINER AND OUTPUT



01

COMPLETE-LINE SCOPE

From water treatment and filling to
labeling, packing and handling

02

REFERENCE TECHNICAL DATA

Comparable model tables and
process flows support transparent
project selection

03

PROJECT CONFIRMATION

Final configuration follows beverage,
container, output, utilities and layout

Contents

A complete route from manufacturing context and project controls to equipment data, process flows and quotation inputs.

01	ALLOT TECH & HOW WE WORK	03-05	05	LABELING, PACKING & HANDLING	30-34
02	PRODUCT MAP & QUOTATION BRIEF	06-08	06	COMPLETE-LINE PROCESS FLOWS	35-40
03	FILLING EQUIPMENT	09-22	07	BUSINESS CONTACT & MR KCAL	41-42
04	PROCESSING & WATER TREATMENT	23-29			

China-Based Beverage-Equipment Project Coordination

Clarify the brief. Compare suitable manufacturing resources. Keep one international communication window.



Allot Tech (Suzhou) Co., Ltd.

阿洛特科技（苏州）有限公司

Based in Zhangjiagang, Suzhou, Allot Tech supports overseas buyers with project clarification, supplier communication, quotation preparation and project follow-through.



01

BRIEF CLARITY

Product, container, output, utilities and destination market

02

COMPARABLE OPTIONS

Equipment platforms reviewed against the same project inputs

03

INTERNATIONAL FOLLOW-THROUGH

One English-language contact from quotation through delivery support

FROM BRIEF TO DELIVERY

One International Contact. Clear Project Responsibilities.

The buyer, Allot Tech and the selected manufacturer work from one confirmed technical and commercial scope.

01**BUYER**

Defines product, container, output, site conditions, market and schedule.

02**ALLOT TECH**

Clarifies the brief, compares options, coordinates quotation and keeps communication moving.

03**SELECTED MANUFACTURER**

Confirms engineering, manufacture, testing, documentation and service scope.

PROJECT PATH

01**BRIEF****02****COMPARABLE
OPTIONS****03****TECHNICAL
CONFIRMATION****04****SIGNED SCOPE****05****BUILD &
INSPECTION**

DOCUMENTS

Specification, layout, utilities, BOM and acceptance points

EXECUTION

Production communication, inspection, shipment and site-readiness planning

SERVICE

Training and after-sales coordination within the confirmed order scope

Manufacturing Network for Project-Specific Equipment

Real workshop context and a concise four-point project check.



PROJECT CHECKPOINTS

01 ENGINEERING & MODEL

Match the equipment platform to product, container and output.

02 MATERIALS & BOM

Confirm product-contact materials, components and permitted alternatives.

03 INSPECTION & FAT

Agree test conditions, records and acceptance points.

04 DOCUMENTS & SERVICE

Confirm drawings, manuals, installation and training scope.

FILLING & PACKAGING

Water, carbonated drinks, juice / tea, glass bottles, cans and large formats

PROCESS & WATER

Mixing, CIP, sterilization, water treatment and bottle handling

LINE INTEGRATION

Labeling, coding, conveying, case packing and pallet handling

PORTFOLIO AT A GLANCE

Product Family Map

Start with the beverage and container; then confirm filling method, process preparation, downstream handling and pack format.



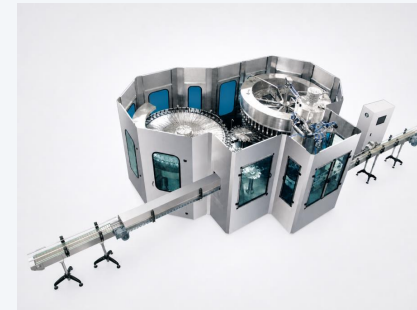
PET WATER

XGF · QGF · water treatment



CARBONATED

DXGF · QHS mixing



JUICE / TEA

RXGF · cooling / sterilizing



GLASS

BXGF beer · BRXGF juice



CANS

DGF washing · filling · sealing



LARGE FORMATS

3–15 L · 5 gallon · piston filling

PREPARE A COMPARABLE QUOTATION

Ten Inputs for a Project-Specific Equipment Scope

These inputs connect the reference model tables to an actual beverage, container, factory and delivery project.

01 Beverage type and recipe/process requirements

06 Available factory space, ceiling height, line direction, and layout drawing

02 Container material, shape, volume, neck finish, cap, and label format

07 Electrical supply, compressed air, steam, chilled water, process water, and drainage conditions

03 Target output in bottles/cans/barrels per hour and the reference container volume

08 Target market, applicable standards, documentation, and inspection requirements

04 Required treatment, mixing, filling, sterilization, labeling, coding, packing, and pallet-handling scope

09 Preferred component brands or approved-vendor requirements

05 Raw-water analysis and target product-water standard, when water treatment is required

10 Delivery destination, installation plan, operator training needs, and target schedule

Final configuration remains subject to confirmed product data, manufacturing-partner engineering review and the signed technical agreement.

Which Filling Platform Fits the Project?

Use product and container first, then review the exact model table on the following pages. Reference ranges require project confirmation.



PET WATER



PET CARBONATED



PET JUICE / TEA



GLASS BEER



GLASS JUICE / TEA



POP-TOP CAN

Application	Container	Family	Reference output	Container basis
Pure / mineral water	PET / plastic	XGF	6,000–42,000 BPH	500 ml basis; 500–2,000 ml; H170–320; Dia.50–115 mm
Carbonated drink	PET / plastic	DXGF	4,000–28,000 BPH	500 ml basis; 500–2,000 ml; H170–320; Dia.50–115 mm
Juice / tea	PET / plastic	RXGF	4,000–32,000 BPH	500 ml basis; 500–2,000 ml; H170–320; Dia.50–105 mm
Beer	Glass bottle	BXGF	3,000–28,000 BPH	500 ml basis; 330–750 ml; H170–190; Dia.50–93 mm
Juice / tea	Glass bottle	BRXGF	3,000–28,000 BPH	500 ml basis; 330–1,000 ml; H170–190; Dia.50–93 mm
Aerated drink	Pop-top can	DGF	30–750 can/min	500 ml basis; H70–180; Dia.52–74 mm; D202–401D reference notation

3–15 L / 3–10 L WATER

Rotary and linear filling references for large-format water containers

PISTON FILLER

≤3,600 bottles/hour · 200–1,000 ml · 10 heads

18.9 L / 5-GALLON QGF

60–800 b/h reference range · Dia.270 × 490 mm

XGF - PLATFORM OVERVIEW

XGF Pure / Mineral Water Overview

PET/plastic bottled-water washing-filling-capping 3-in-1 monoblock

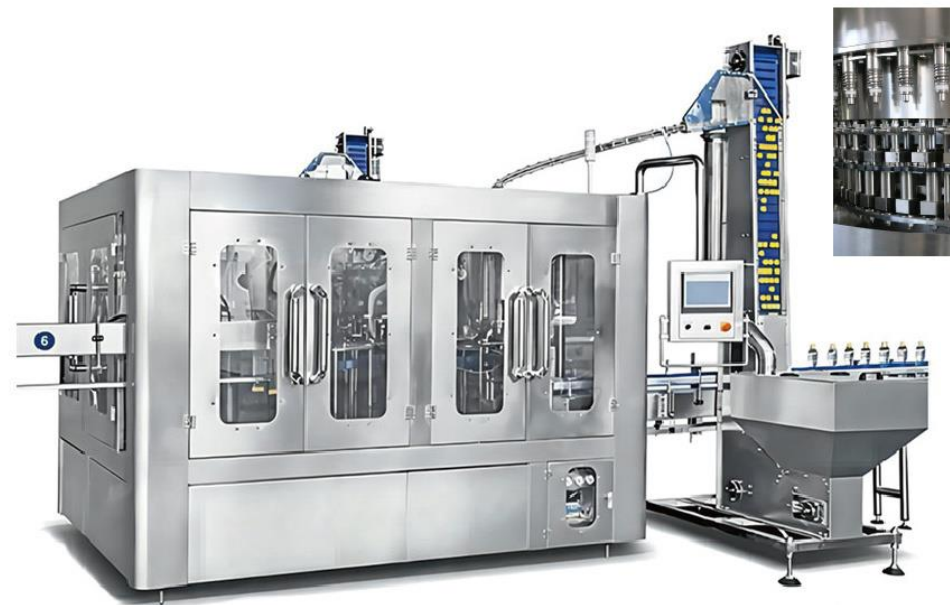
APPLICATION & FUNCTION

Combines bottle washing, filling, and capping in one automated machine.

Design information includes normal-pressure filling, adjustment for different bottle formats, OMRON PLC control, air-conveyor bottle infeed, adjustable bottle outfeed, inverter coordination, and photoelectric status detection.

KEY PLATFORM FEATURES

- 01 **Normal-pressure filling**
- 02 **OMRON PLC control**
- 03 **Air-conveyor bottle infeed**
- 04 **Photoelectric status detection**



COMPLETE LINE CONFIGURATION

MODEL FAMILY

XGF

REFERENCE OUTPUT

XGF14-12-5 · 6000 BPH

REFERENCE CONTAINER

**500ml · H170-320mm; Dia.50-115mm;
500-2000ml**

Reference specifications require project-specific confirmation.

XGF - MODEL RANGE

XGF Model Specifications

reference values are shown without normalization. Confirm product, container, output, utilities and interfaces before model selection.

Model	Capacity	Machine size	Weight	Power
XGF14-12-5	6000 BPH	L2360-W1770-H2700mm	2800Kg	2.42Kw
XGF16-16-5	8000 BPH	L2760-W2060-H2700mm	3800Kg	3.12Kw
XGF24-24-8	13000 BPH	L2800-W2230-H2700mm	4800Kg	3.92Kw
XGF32-32-8	16000 BPH	L4215-W2960-H2700mm	5800Kg	4.92Kw
XGF40-40-12	18000 BPH	L4360-W3300-H2700mm	6800Kg	7.30Kw
XGF50-50-15	24000 BPH	L5900-W4123-H2700mm	8600Kg	7.87Kw
XGF60-60-15	30000 BPH	L5770-W5288-H2700mm	10800Kg	11.00Kw
XGF72-72-18	36000 BPH	L6540-W4900-H2700mm	12800Kg	11.40Kw
XGF80-80-18	42000 BPH	L7800xW6380xH2700mm	15000Kg	15.37Kw

RATING BASIS / CONTAINER RANGE

500ml • H170-320mm; Dia.50-115mm; 500-2000ml

Reference specifications require project-specific confirmation.

DXGF - PLATFORM OVERVIEW

DXGF Carbonated Drink Overview

PET carbonated-drink isobaric washing-filling-capping 3-in-1 monoblock

APPLICATION & FUNCTION

Integrates washing, filling, and capping for PET carbonated beverages.

Design information includes bottle-neck handling, stainless-steel contact parts, spring-type liquid-level sensing, cylinder-driven valve control, constant-torque magnetic capping, cap feeding/lifting, and overload protection.

KEY PLATFORM FEATURES

- 01 **Bottle-neck handling**
- 02 **Spring-type liquid-level sensing**
- 03 **Magnetic constant-torque capping**
- 04 **Overload protection**



COMPLETE LINE CONFIGURATION

MODEL FAMILY

DXGF

REFERENCE OUTPUT

DXGF14-12-5 · 4000 BPH

REFERENCE CONTAINER

**500ml · H170-320mm; Dia.50-115mm;
500-2000ml**

Reference specifications require project-specific confirmation.

DXGF - MODEL RANGE

DXGF Model Specifications

reference values are shown without normalization. Confirm product, container, output, utilities and interfaces before model selection.

Model	Capacity	Machine size	Weight	Power
DXGF14-12-5	4000 BPH	L2360-W1770-H2700mm	2800Kg	2.42Kw
DXGF16-16-5	5000 BPH	L2760-W2060-H2700mm	3800Kg	3.12Kw
DXGF24-24-8	8000 BPH	L2800-W2230-H2700mm	4800Kg	3.92Kw
DXGF32-32-8	10000 BPH	L4215-W2960-H2700mm	5800Kg	4.92Kw
DXGF40-40-12	13000 BPH	L4360-W3300-H2700mm	6800Kg	7.30Kw
DXGF50-50-12	18000 BPH	L5900-W4123-H2700mm	8600Kg	7.87Kw
DXGF60-60-15	21000 BPH	L5770-W5288-H2700mm	10800Kg	11.00Kw
DXGF72-72-18	28000 BPH	L6540-W4900-H2700mm	12800Kg	11.40Kw

RATING BASIS / CONTAINER RANGE

500ml • H170-320mm; Dia.50-115mm; 500-2000ml

Reference specifications require project-specific confirmation.

RXGF - PLATFORM OVERVIEW

RXGF Juice / Tea Overview

PET/plastic bottled juice and tea washing-filling-capping 3-in-1 monoblock

APPLICATION & FUNCTION

Combines bottle washing, filling, and capping in one automated machine.

The published information lists PET/plastic-bottle juice, tea, mineral water, and pure water as applications and states bottle-part adjustment, OMRON PLC control, air-conveyor infeed, adjustable outfeed, inverter coordination, and photoelectric status detection.

KEY PLATFORM FEATURES

- 01 Juice / tea / water applications
- 02 OMRON PLC control
- 03 Air-conveyor bottle infeed
- 04 Inverter-coordinated operation



COMPLETE LINE CONFIGURATION

MODEL FAMILY

RXGF

REFERENCE OUTPUT

RXGF14-12-5 · 4000 BPH

REFERENCE CONTAINER

**500ml · H170-320mm; Dia.50-105mm;
500-2000ml**

Reference specifications require project-specific confirmation.

RXGF - MODEL RANGE

RXGF Model Specifications

reference values are shown without normalization. Confirm product, container, output, utilities and interfaces before model selection.

Model	Capacity	Machine size	Weight	Power
RXGF14-12-5	4000 BPH	L2360-W1770-H2700mm	2800Kg	2.42Kw
RXGF16-16-5	6000 BPH	L2760-W2060-H2700mm	3800Kg	3.12Kw
RXGF24-24-8	10000 BPH	L2800-W2230-H2700mm	4800Kg	3.92Kw
RXGF32-32-8	12000 BPH	L4215-W2960-H2700mm	5800Kg	4.92Kw
RXGF40-40-12	15000 BPH	L4360-W3300-H2700mm	6800Kg	7.30Kw
RXGF50-50-12	20000 BPH	L5900-W4123-H2700mm	8600Kg	8.42Kw
RXGF60-60-15	24000 BPH	L5770-W5288-H2700mm	10800Kg	11.40Kw
RXGF72-72-18	32000 BPH	L6540-W4900-H2700mm	12800Kg	11.92Kw

RATING BASIS / CONTAINER RANGE

500ml • H170-320mm; Dia.50-105mm; 500-2000ml

Reference specifications require project-specific confirmation.

BXGF - PLATFORM OVERVIEW

BXGF Glass-Bottle Beer Overview

Glass-bottle beer filling and crown-capping line

APPLICATION & FUNCTION

Used for filling and sealing glass bottles with crown-type closures for beer production.

Design highlights include scientific design, appearance, convenient operation and maintenance, and a high degree of automation.

KEY PLATFORM FEATURES

- 01 **Crown-type closures**
- 02 **Scientific design**
- 03 **Convenient operation and maintenance**
- 04 **High degree of automation**



COMPLETE LINE CONFIGURATION

MODEL FAMILY

BXGF

REFERENCE OUTPUT

BXGF14-12-5 · 3000 BPH

REFERENCE CONTAINER

500ml · H170-190mm; Dia.50-93mm;
330-750ml

Reference specifications require project-specific confirmation.

BXGF - MODEL RANGE

BXGF Model Specifications

reference values are shown without normalization. Confirm product, container, output, utilities and interfaces before model selection.

Model	Capacity	Machine size	Weight	Power
BXGF14-12-5	3000 BPH	L2360-W1770-H2700mm	3000Kg	2.42Kw
BXGF16-16-5	6000 BPH	L2760-W2060-H2700mm	3800Kg	3.12Kw
BXGF24-24-8	8000 BPH	L2800-W2230-H2700mm	4800Kg	3.92Kw
BXGF32-32-8	10000 BPH	L4215-W2960-H2700mm	5800Kg	4.92Kw
BXGF40-40-12	15000 BPH	L4360-W3300-H2700mm	6800Kg	7.30Kw
BXGF50-50-15	18000 BPH	L5900-W4123-H2700mm	8600Kg	7.87Kw
BXGF60-60-15	23000 BPH	L5770-W5288-H2700mm	10800Kg	11.00Kw
BXGF72-72-18	28000 BPH	L6540-W4900-H2700mm	12800Kg	11.40Kw

RATING BASIS / CONTAINER RANGE

500ml • H170-190mm; Dia.50-93mm; 330-750ml

Reference specifications require project-specific confirmation.

BRXGF - PLATFORM OVERVIEW

BRXGF Glass-Bottle Juice Overview

Glass-bottle hot-fill juice/tea washing-filling-capping monoblock

APPLICATION & FUNCTION

Integrates washing, filling, and capping for glass-bottle hot-filled juice and tea.

Design information includes automated operation by OMRON PLC, transducer-controlled speed coordination, bottle-infeed adjustment, photoelectric monitoring, convenient operation, and high automation.

KEY PLATFORM FEATURES

- 01 **OMRON PLC automation**
- 02 **Transducer speed coordination**
- 03 **Bottle-infeed adjustment**
- 04 **Photoelectric monitoring**



COMPLETE LINE CONFIGURATION

MODEL FAMILY

BRXGF

REFERENCE OUTPUT

**BRXGF14-12-5 · 3000
BPH**

REFERENCE CONTAINER

**500ml · H170-190mm; Dia.50-93mm;
330-1000ml**

Reference specifications require project-specific confirmation.

BRXGF - MODEL RANGE

BRXGF Model Specifications

reference values are shown without normalization. Confirm product, container, output, utilities and interfaces before model selection.

Model	Capacity	Machine size	Weight	Power
BRXGF14-12-5	3000 BPH	L2360-W1770-H2700mm	2800Kg	2.42Kw
BRXGF16-16-5	6000 BPH	L2760-W2060-H2700mm	3800Kg	3.12Kw
BRXGF24-24-8	8000 BPH	L2800-W2230-H2700mm	4800Kg	3.92Kw
BRXGF32-32-8	10000 BPH	L4215-W2960-H2700mm	5800Kg	4.92Kw
BRXGF40-40-12	15000 BPH	L4360-W3300-H2700mm	6800Kg	7.30Kw
BRXGF50-50-12	18000 BPH	L5900-W4123-H2700mm	8600Kg	8.42Kw
BRXGF60-60-15	23000 BPH	L5770-W5288-H2700mm	10800Kg	11.40Kw
BRXGF72-72-18	28000 BPH	L6540-W4900-H2700mm	12800Kg	11.92Kw

RATING BASIS / CONTAINER RANGE

500ml • H170-190mm; Dia.50-93mm; 330-1000ml

Reference specifications require project-specific confirmation.

DGF • MODEL RANGE

Pop-Top Can Carbonated Drink Production Line

For washing, filling, and sealing tinplate, aluminum, or plastic cans. Design information includes empty-can depalletizing, automatic can turnover, washing, filling, and sealing as an integrated high-capacity line for carbonated canned beverages.



COMPLETE LINE CONFIGURATION

Model	Capacity	Machine size	Weight	Power
DGF15-1	30-50can/min	L2000-W1800-H2200mm	2300Kg	2.20Kw
DGF18-4	100-130can/min	L2800-W2060-H2200mm	2800Kg	4.00Kw
DGF24-6	250-350can/min	L3830-W1750-H2200mm	3300Kg	7.50Kw
DGF36-6	450-550can/min	L4250-W2245-H2200mm	3800Kg	4.92Kw
DGF44-8	550-650can/min	L4250-W2250-H2200mm	4300Kg	7.30Kw
DGF55-8	650-750can/min	L4400-W2600-H2200mm	4800Kg	7.87Kw

RATING BASIS / CONTAINER RANGE

500ml • H70-180mm; D202-401D; Dia.52-74mm

The published values include very high can speeds and D202-401D notation; confirm both during project review.

LARGE CONTAINERS - EQUIPMENT RANGE

Large-Format & Piston Filling Solutions

Three solutions cover 3-15 L rotary, 3-10 L linear and automatic piston filling. Rotary and linear output requires project-specific confirmation.



3-15L Bottle Water Filling 3-in-1 Machine (Rotary)

Large-format washing, filling and capping configuration; final output and interfaces are confirmed for the project.



3-10L Bottle Water Filling 3-in-1 Machine (Linear)

Large-format washing, filling and capping configuration; final output and interfaces are confirmed for the project.



Full-Automatic Piston Filling Machine

Automatic piston filler for larger-dose water and paste materials, with servo-driven pistons and stainless product-contact parts.

Pouring heads: 10 heads
Production speed: ≤3600 bottles/hour
Pouring volume: 200ml-1000ml
Measure precision: +/-1%
Contour size: 2000mmx1000mmx2200mm
Machine weight: 850kg

QGF - PLATFORM OVERVIEW

QGF 5-Gallon Overview

18.9 L / 5-gallon barrel washing-filling-capping production line

APPLICATION & FUNCTION

Integrates barrel washing, filling, and sealing.

Design information includes repeated washing / sterilizing by liquid washing and bleaching, automatic cap sealing, water-spray cap sterilization, optional bottle feeding / washing / sterilizing / filling / capping / counting / discharge functions, and combined mechanical, electrical, and pneumatic control.

KEY LINE COMPONENTS

- 01 **Leakage Checker**
- 02 **Full-auto Outside Brusher**
- 03 **Full-auto Inside Brusher**
- 04 **Full-auto Lid Remover**



COMPLETE LINE CONFIGURATION

MODEL FAMILY

QGF

REFERENCE OUTPUT

QGF-100 · 60-100 b/h

REFERENCE CONTAINER

18.9 L · Dia.270x490 mm

QGF-600, QGF-900, and QGF-1200 all show 800 b/h; verify during project confirmation.

QGF - MODEL RANGE

QGF Model Specifications

reference values are shown without normalization. Confirm product, container, output, utilities and interfaces before model selection.

Parameter	QGF-100	QGF-240	QGF-300	QGF-450	QGF-600	QGF-900	QGF-1200
Heads	1	2	3	4	8	8	8
Volume	18.9 L	18.9 L	18.9 L	18.9 L	18.9 L	18.9 L	18.9 L
Barrel size	Dia.270x490 mm	Dia.270x490 mm	Dia.270x490 mm	Dia.270x490 mm	Dia.270x490 mm	Dia.270x490 mm	Dia.270x490 mm
Capacity	60-100 b/h	100-240 b/h	250-300 b/h	400 b/h	800 b/h	800 b/h	800 b/h
Gas pressure	0.4-0.6 MPa	0.4-0.6 MPa	0.4-0.6 MPa	0.4-0.6 MPa	0.6 MPa	0.6 MPa	0.6 MPa
Gas use	0.37 m3/min	0.37 m3/min	0.6 m3/min	0.8 m3/min	1 m3/min	1.5 m3/min	1.8 m3/min
Motor power	1.38 kW	1.75 kW	3.8 kW	3.8 kW	7.5 kW	9.75 kW	13.5 kW
Voltage	380V/50HZ	380V/50HZ	380V/50HZ	380V/50HZ	380V/50HZ	380V/50HZ	380V/50HZ
Weight	680 kg	800 kg	1500 kg	2100 kg	3000 kg	3500 kg	4500 kg

RATING BASIS / CONTAINER RANGE

18.9 L • Dia.270x490 mm • 380V/50HZ

QGF-600, QGF-900, and QGF-1200 all show 800 b/h; verify during project confirmation.

Process, Cleaning & Line-Support Modules

Selectable equipment groups are configured around the product, container and project; a project does not necessarily require every module shown.

01 WATER PREPARATION



Water Treatment System Whole Set
Reverse Osmosis Unit
Series Hollow Fibre Super-Filter

02 BEVERAGE PREPARATION & SANITATION



QHS Series Mixing Machine
Automatic / Semi-Automatic CIP
WP cooling / sterilization
Named water-bath and bottle-inverting sterilizers

03 BOTTLE HANDLING & SURFACE PREPARATION



LP Series Bottle Unscrambler
Bottle Dryer Machine

Detailed technical specifications follow on the next pages.

PROCESSING MODULE

WP Cooling / Sterilization and Named Sterilizers

For tea and fruit-juice drinks after hot filling and capping.



APPLICATION & FUNCTION

For tea and fruit-juice drinks after hot filling and capping. The filled bottles are inverted 90 degrees automatically to sterilize the cap/head and then returned upright. Design information includes imported transmission chain, no-bottle control, frequency-conversion control, adjustable conveying speed, SUS304 material, steam-heated water box, electromagnetic steam-valve control, and hot-water reuse.

NAMED STERILIZING EQUIPMENT

- Water Bath Type Filtration Sterilization Cooling Machine
- Bottle-Inverting Sterilizer

Parameter	WP-1	WP-2
Production	80-150 bottles/min	250-400 bottles/min
Sterilization	<100 C	<100 C
Conveyor speed	110-553 mm/min	200-1000 mm/min
Circulating water	15 m3/h	25 m3/h
Steam pressure	0.4 MPa	0.4 MPa
Dimensions	1200x1914x1700 mm	1400x2900x1700 mm

QHS SERIES - MODEL SPECIFICATIONS

QHS Mixing and Specifications

For mixing and preparing carbonated water; Design information includes programmable PLC control and CIP cleaning.



QHS SERIES MIXING MACHINE

Model	Capacity	Gas content	Power	Dimensions	Weight
QHS-1500A	1000-1500 L/hr	1.5-2.5	1.1 kW	900x700x2000 mm	500 kg
QHS-3500A	2000-3500 L/hr	1.5-2.5	1.5-2.5 kW	1100x900x2100 mm	650 kg
QHS-3000	2000-3000 L/hr	>3.0	3.7 kW	1600x1200x2100 mm	1200 kg
QHS-5000	4000-6000 L/hr	>3.0	5.2 kW	2000x1500x2200 mm	1800 kg
QHS-7000	8000-9000 L/hr	>3.5	8.5 kW	3200x2100x2500 mm	2800 kg
QHS-10000	10000-12000 L/hr	>3.5	11 kW	3800x2200x2750 mm	4800 kg
QHS-15000	12000-16000 L/hr	>3.5	15 kW	4300x2200x2550 mm	6500 kg

OPERATING CONDITIONS - GROUP A

QHS-1500A | QHS-3500A | QHS-3000 | QHS-5000

Mix ratio: 1: 3-1:6 | inlet temperature: 0-5 C

Water dehydration: Deoxidized by CO2

Pre-carbonation / syrup pressure: 0.05-0.08 MPa

Storage pressure: 0.2-0.5 MPa

OPERATING CONDITIONS - GROUP B

QHS-7000 | QHS-10000 | QHS-15000

Mix ratio: 1: 3-1:6 | inlet temperature: 0-4 C

Water dehydration: Deoxidized by vacuum system

Pre-carbonation / syrup pressure: pre-carbonation tank-0.08---0.06; syrup tank 0.15-0.08Mpa

Storage pressure: 0.2-0.5 MPa

PROCESSING MODULE

Automatic CIP Systems

Design information includes CIP as removing visible contamination, insoluble matter, and microbial contamination before sterilization in food, pharmaceutical, and health-standard production.



APPLICATION & FUNCTION

Design information includes CIP as removing visible contamination, insoluble matter, and microbial contamination before sterilization in food, pharmaceutical, and health-standard production. Configurable caustic, acid, and hot-water procedures; may reduce cleaning time and water use compared with manual cleaning; results depend on the validated process and operating conditions; liquid-level control and overflow protection; PLC/HMI process monitoring.

SYSTEM FORMS & FEATURES

- Automatic CIP
- Semi-Automatic CIP
- Flexible, general
- Economic and efficient
- Safe and reliable
- Mature PLC control system

LP Bottle Unscrambler

Orders disordered polyester bottles, positions them upright by rotary-disc action, and transfers them to the next process by air conveying; Design information includes PLC control, frequency control for capacity adjustment, and screening for non-standard bottles.



APPLICATION & FUNCTION

PLC control · frequency-controlled capacity adjustment · screening for non-standard bottles

Parameter	LP-16	LP-18	LP-21
Work pos.	16	18	18
Capacity	8000-10000 b/h	12000-15000 b/h	18000-20000 b/h
Gas Source Pressure	0.7 Mpa	0.7 Mpa	0.7 Mpa
Gas use	0.5 m3min	0.5 m3min	0.5 m3min
Bottle range	350-1200ml; Dia.50-Dia.90	350-1200ml; H=150-290	350-1200ml; H=150-290
Main Motor Power	2.2 kW	3.0 kW	5.5 kW
Fan Power	2.2 kW	2.2 kW	2.2 kW
Dimension	Dia.2056xDia.2150 mm	Dia.2650x2290 mm	Dia.2800x2400 mm
Weight	3500 kg	4200 kg	4200 kg

PROCESSING MODULE

Complete Water-Treatment System

A project-specific treatment train may include pretreatment and reverse osmosis. Final process design and treated-water target are determined from the raw-water analysis and project requirements. Printed pretreatment stages are mechanical filtration, activated-carbon filtration, sodium-ion exchange, and precision filtration. Design information includes an RO membrane system with membrane washing.



APPLICATION & FUNCTION

A project-specific treatment train may include pretreatment and reverse osmosis. Final process design and treated-water target are determined from the raw-water analysis and project requirements. Printed pretreatment stages are mechanical filtration, activated-carbon filtration, sodium-ion exchange, and precision filtration. Design information includes an RO membrane system with membrane washing.

ANNOTATED LINE COMPONENTS

- Raw Water
- JDL Model multi-medium filter
- CHT Activated carbon filter
- SNJ Sodium-ion exchanger
- Reverse Osmosis Device
- Ozonizer
- UV sterilization
- Oxidization Tower

Reverse-Osmosis Unit and Filtration Options

Reverse osmosis, hollow-fibre ultrafiltration and bottle drying are retained as three separate equipment categories.



Reverse Osmosis Unit

Reverse-osmosis equipment reference. Final membrane, pump, control and water-quality scope is confirmed from the raw-water analysis and project specification.



02 Series Hollow Fibre Super-Filter

Ultrafiltration for mineralized water and spring water, discharging impurities through different-diameter hollow-fiber filtration membranes; hollow-fiber polysulfones are stated as commonly used.

03 Bottle Dryer Machine

After filling, a vortex pump produces strong turbulent air concentrated into an air-knife line to blow/drip-dry water from the bottle surface.

From Label to Pallet: End-of-Line Equipment Path

A practical way to understand the downstream equipment categories before reviewing the detailed pages and technical parameters.

01 LABEL APPLICATION



SXH sleeve labeling
Label bonding
Rotary OPP hot-melt glue labeling

EQUIPMENT GROUP

02 CODING



Laser Printer

EQUIPMENT GROUP

03 CONVEYING & BUFFERING



Conveyor System
Buffer table
Conveying belt

EQUIPMENT GROUP

04 SECONDARY PACKAGING



Hot-shrink film
Piece / half-tray / drop-down case packing

EQUIPMENT GROUP

05 PALLET HANDLING



Palletizer / Stacker Crane
Depalletizer / Automatic Unloading Machine

EQUIPMENT GROUP

Final end-of-line configuration depends on the confirmed container, label and pack format; use the following pages for the detailed equipment information.

LINE DECORATION - EQUIPMENT RANGE

Sleeve Labeling, Conveyors, and Laser Coding

Three complete equipment views are shown above the full laser-parameter table.



01 SXH Sleeve Labeling Machine



02 Laser Printer



03 Conveyor System

Laser parameter	Reference value	Laser parameter	Reference value
Wavelength	10.6um / 9.3um (optional)	Marking range	70x70MM; 110x110MM (optional)
Laser	CO2 metal sealed laser	Data input	Keyboard, USB/serial data communication, etc.
Laser power	10W / 30W	Interfaces	Ethernet, USB, RS232/multiple RS232/IO
Cooling	Air cooling	Speed	0-150 m/min
Line width	0.02MM	Protection	Main optical path fully sealed
Depth	0.04MM (depending on material)	Environment	5-45 C; humidity <=95%; no condensation
Control	Computer software; optional handheld programmer	Voltage	AC220V 50HZ
Marking content	Chinese, English, numbers, graphics, serial numbers, production date, barcodes, etc.	Power	1000W

PROCESSING - EQUIPMENT GROUPS

Label Bonding and Hot-Shrink-Film Packaging

Full-size label-bonding and hot-shrink-film machine views are paired with their parameter tables.



01 Label Bonding Machine

Parameter	Reference value
Max. Label Width	100mm
Label Length	10mm-250mm
Bottle Height	10mm-125mm
Reel Inner Diameter	75mm
Reel Outer Diameter	300mm
Labeling Speed	2500-4200pcs./mIN.
Machine Dimensions	2400X1650X1540mm (LxWxH)
Power Required	100 or 220VAC,50/60HZ,1Phase
Power Consumption	200VAC +/-5% 50HZ 168KW



02 Hot Shrink Film Package Machine

Parameter	Reference value
Packing Specification	2x3, 3x3, 3x4, 3x5, 3x6, 4x5, 4x6
Suitable Bottle Shape	250ml, 500ml, 1000ml, 1500ml bottles
Height of Conveying Belt	800+50mm
Packing form	Sealing; opening mouth two sides; automatically connecting with the production line; collect the cover film; sealing and shrinking.
Power	Power:(max):About30KW.
Working pressure	0.6Mpa

SECONDARY PACKING · EQUIPMENT RANGE

Four Packing Configurations

Four packing systems cover piece-type case packing, half-tray shrink wrapping, drop-down case packing and hot-shrink-film packaging.

**01**

**Piece Type
Automatic Case
Packer**

**02**

**Half Tray Case
Packer with Shrink
Wrapper**

**03**

**Drop Down Case
Packer**

**04**

**Hot Shrink Film
Package Machine**

Blow Molding, Palletizing, and Depalletizing

Blow molding, palletizing and depalletizing are separated so the complete equipment groups remain visible.



Blow Molding Machine

Bottle-forming equipment for the referenced container range. Final mold, resin, output and utility scope are confirmed for the project.

- Semi-auto blow molding machine (one main machine and one oven)
- Semi-auto blow molding machine (one main machine and two oven)
- Automatic blow molding machine
- 5gallon blow-molding machine



01 Palletizer/Stacker Crane

02 Depalletizers/Automatic Unloading Machine

PROJECT-TYPE SELECTION

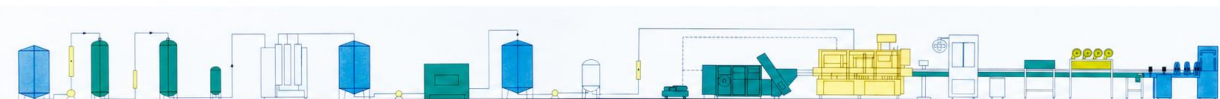
Five Complete-Line Architectures at a Glance

Equipment chains are separated by beverage type and enlarged on P.36-40 with every English process step.

01

MINERAL WATER

21 steps - P.36



02

PURE WATER

19 steps + 2 branches - P.37



03

CARBONATED DRINK

25 steps - P.38



04

FRUIT JUICE & TEA

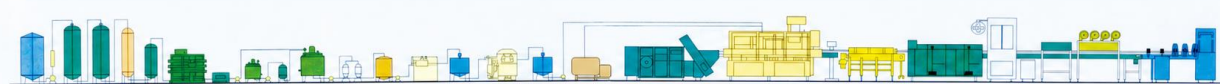
31 steps - P.39



05

TEA

28 steps - P.40

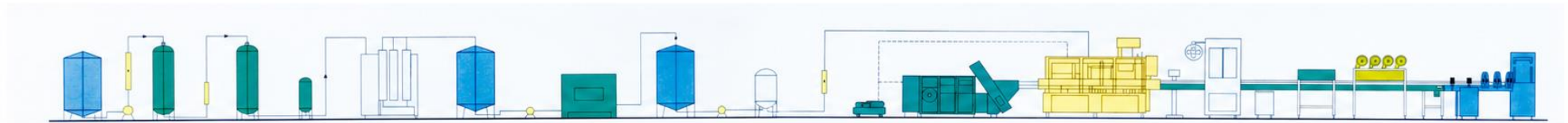


Use this overview to compare line architectures, then see P.36-40 for the enlarged equipment chain and complete English process sequence.

COMPLETE-LINE EQUIPMENT CHAIN

Mineral Water Production Line & Technique

The equipment chain provides a complete-line reference; the enlarged English sequence lists every process step for project discussion.



PHASE 1

- 01 Raw water tank
- 02 Pump
- 03 Multi-medium filter
- 04 Active carbon filter
- 05 Precision filter
- 06 Hollow fiber filter

PHASE 2

- 07 Storage tank
- 08 Pump
- 09 Ultra violet sterilizer
- 10 Storage tank + ozone generator
- 11 Pump
- 12 Terminal filter

PHASE 3

- 13 Air compressor
- 14 Auto blower
- 15 Normal pressure 3-in-1 unit
- 16 Spray-code machine
- 17 Automatic labeling machine
- 18 Steam generator

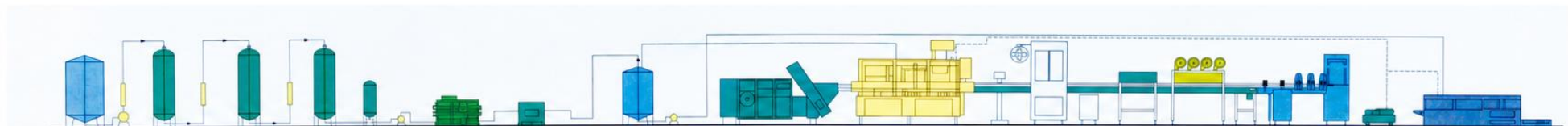
PHASE 4

- 19 Heat shrinking machine
- 20 Blow drying machine
- 21 Automatic shrink packing machine

COMPLETE-LINE EQUIPMENT CHAIN

Pure Water Production Line & Technique

The equipment chain provides a complete-line reference; the enlarged English sequence lists every process step for project discussion.



PHASE 1

- 01 Raw water tank
- 02 Pump
- 03 Multi-medium filter
- 04 Active carbon filter
- 05 Sodium ion exchanger

PHASE 2

- 06 Precision filter
- 07 Pump
- 08 Reverse osmosis device
- 09 Ultra violet sterilizer
- 10 Storage tank + ozone generator

PHASE 3

- 11 Pump
- 12 Auto blower
- 13 Normal pressure 3-in-1 unit
- 14 Spray-code machine
- 15 Automatic labeling machine

PHASE 4

- 16 Steam generator
- 17 Heat shrinking machine
- 18 Blow drying machine
- 19 Automatic shrink packing machine

INDEPENDENT LINKED BRANCHES

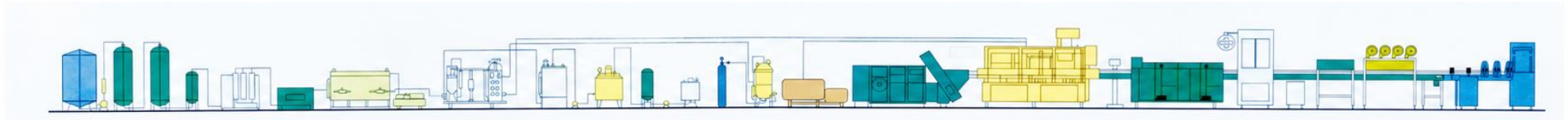
BRANCH A - Air compressor

BRANCH B - 3-5 gallons barreled production line

COMPLETE-LINE EQUIPMENT CHAIN

Carbonated Drink Production Line & Technique

The equipment chain provides a complete-line reference; the enlarged English sequence lists every process step for project discussion.



PHASE 1

- 01 Raw water tank
- 02 Multi-medium filter
- 03 Active carbon filter
- 04 Precision filter
- 05 Hollow fiber super-filter
- 06 Ultra violet sterilizer
- 07 Water chilling unit

PHASE 2

- 08 Drink mixer
- 09 Syrup cooker
- 10 Mixing can
- 11 Syrup filter
- 12 Sugar melting boiler
- 13 CO2 steel cylinder
- 14 CO2 filter

PHASE 3

- 15 CIP rinsing machine
- 16 Auto blower + air compressor
- 17 Constant pressure 3-in-1 unit
- 18 Spray-code machine
- 19 Shower warm bottle machine
- 20 Automatic labeling machine
- 21 Steam generator

PHASE 4

- 22 Heat shrinking machine
- 23 Blow drying machine
- 24 Conveyor
- 25 Automatic shrink packing machine

COMPLETE-LINE EQUIPMENT CHAIN

Fruit Juice & Tea Production Line & Technique

The equipment chain provides a complete-line reference; the enlarged English sequence lists every process step for project discussion.



PHASE 1

- 01 Raw water tank
- 02 Multi-medium filter
- 03 Active carbon filter
- 04 Sodium ion exchanger
- 05 Precision filter
- 06 Reverse osmosis device
- 07 Ultra violet sterilizer
- 08 Sugar melting boiler

PHASE 2

- 09 Syrup filter
- 10 Mixing can (fruit-juice feed)
- 11 Double filter
- 12 Buffer tank
- 13 Homogenizer
- 14 Buffer tank
- 15 Vacuum deaerator
- 16 Screw pump

PHASE 3

- 17 Cold & hot cylinder
- 18 Ultra-high-temperature instantaneous sterilizer
- 19 Cold & hot cylinder
- 20 CIP rinsing machine
- 21 Auto blower + air compressor
- 22 Hot filling 3-in-1 unit
- 23 Spray-code machine
- 24 Inverted bottle sterilizer

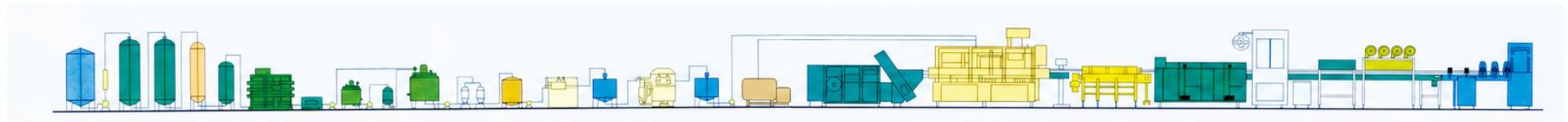
PHASE 4

- 25 Shower cooler
- 26 Automatic labeling machine
- 27 Steam generator
- 28 Heat shrinking machine
- 29 Blow drying machine
- 30 Conveyor
- 31 Automatic shrink packing machine

COMPLETE-LINE EQUIPMENT CHAIN

Tea Production Line & Technique

The equipment chain provides a complete-line reference; the enlarged English sequence lists every process step for project discussion.



PHASE 1

- 01 Raw water tank
- 02 Multi-medium filter
- 03 Active carbon filter
- 04 Sodium ion exchanger
- 05 Precision filter
- 06 Reverse osmosis device
- 07 Ultra violet sterilizer

PHASE 2

- 08 Sugar melting boiler
- 09 Syrup filter
- 10 Mixing can (tea-powder feed)
- 11 Double filter
- 12 Buffer tank
- 13 Homogenizer
- 14 Cold & hot cylinder

PHASE 3

- 15 Ultra-high-temperature instantaneous sterilizer
- 16 Cold & hot cylinder
- 17 CIP rinsing machine
- 18 Auto blower + air compressor
- 19 Hot filling 3-in-1 unit
- 20 Spray-code machine
- 21 Inverted bottle sterilizer

PHASE 4

- 22 Shower cooler
- 23 Automatic labeling machine
- 24 Steam generator
- 25 Heat shrinking machine
- 26 Blow drying machine
- 27 Conveyor
- 28 Automatic shrink packing machine



ALLOT TECH BUSINESS CONTACTS

Company details, direct sales contact and beverage-machinery websites in one place.

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Company website and direct sales
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OPEN WEBSITE →

SPECIALIST EQUIPMENT WEBSITES

waterbottlingline.com

bottledwaterfillingline.com

ALLOT TECH VIDEO CHANNELS

YouTube · @allottech

TikTok · @allottech

NAMED HUMAN CONTACT

Mr Kcal - Manufacturing Insight & Direct Communication

A public channel for factory visits, sourcing context and practical China-business communication.

A PUBLIC, TRACEABLE CREATOR IDENTITY

Mr Kcal is the named public identity behind Allot Tech communication. His work covers factory visits, sourcing communication, product videos and practical China-business context.

This public presence gives overseas buyers a traceable human contact alongside the company profile.

Explore more public work at mrkcal.com

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