



DY PlastTech

PRODUCT CATALOGUE · 2026

INTEGRATED PLASTIC PACKAGING SYSTEMS

ONE PARTNER. THE WHOLE LINE.

Machinery, moulds and end-of-line automation brought together around the product you need to make.



01 · CONCEPT

Define the product.

02 · PRODUCTION

Make it with precision.

03 · PACKAGING

Prepare for dispatch.

FROM CONCEPT
TO WAREHOUSE.

GUANGDONG · CHINA
DYPLASTTECH.COM

BUILT AT THE SOURCE

CHINA CAPABILITY. INTERNATIONAL CLARITY.

DY PlastTech connects strong Chinese manufacturing with the documentation, communication and accountability global buyers expect.

OUR ROLE

We shape the requirement, identify and inspect the right manufacturing source, coordinate trials, and manage the commercial path from proposal through shipment.

Our base in Guangdong keeps technical decisions close to the factories. Our international-trade discipline keeps every decision clear to the buyer.

DEFINE → SOURCE → VALIDATE → DELIVER

VL

Veronica Liao
FOUNDER & DIRECTOR

International trade experience spanning cross-border sourcing, logistics and commercial execution.

CHINA-BASED · BUYER-FACING

7	FACTORY STAGES COVERED	13+	YEARS TRADE EXPERIENCE
24 h	PROPOSAL RESPONSE TARGET	1	ACCOUNTABLE PROJECT PARTNER

Quality starts before the order.

Manufacturing partners are assessed at source, with equipment, trials and documentation reviewed before recommendation.

WHAT WE MAKE · WHO WE SERVE

BUILT AROUND YOUR PRODUCT.

We configure each system from the finished pack backwards: product geometry, material, output, handling and dispatch format.

01

PET preforms

High-cavitation injection systems, tooling, cooling and protected packing.

INJECTION · MOULDS · PACKING

02

PET bottles

Automatic blowing, inspection, transfer, packing and palletising.

BLOWING · HANDLING · DISPATCH

03

Caps & closures

Tooling for water, beverage, edible-oil and large-format containers.

MOULDS · SYSTEMS · FORMATS

04

Thin-wall packaging

Container and lid cells engineered for balanced high-volume output.

CONTAINERS · LIDS · CYCLE

05

End-of-line

Bagging, case handling, sealing, strapping and robotic palletising.

CASES · STRAPPING · ROBOTS

06

Return logistics

Foldable metal cages and warehouse handling built around the load.

CAGES · LOADS · WAREHOUSE

Industries served

Product-led systems across everyday and industrial packaging.

WATER & BEVERAGES

EDIBLE OIL

FOOD & DAIRY

PERSONAL CARE

HOME CARE

INDUSTRIAL PACKAGING

FROM PREFORM TO PALLET.

Carton preparation moves towards the production cell; filled cartons return through protected sealing, strapping and pallet-ready dispatch.

01

Carton blank feed

Flat blanks enter the preparation lane.

02

Carton erector

Cartons are opened, squared and prepared.

03

Liner insertion

A clean poly liner protects every carton.

04

Box staging area

Prepared cartons wait in packing sequence.



09

Robotic palletising

Finished cartons become stable pallet loads.

08

Carton strapping

Protective straps secure every sealed case.

07

Case sealing

The carton is closed and tape sealed.

THE PRODUCTION CORE

PREFORM INJECTION MOULDING SYSTEM

Integrated material conditioning, moulding and automated handling configured around the required preform.

MATERIAL
PREPARATION

PREFORM
MOULDING

AUTOMATED
HANDLING



06

Inner bag closing

The poly liner is sealed before the case is closed.

05

Manual packing handoff

Filled cartons enter the lower packing lane.

PREFORM IN. PALLET-READY.

A continuous PET bottle line that forms, transfers, packs and palletises with one clear material flow.

SYSTEM VIEW

BOTTLE PRODUCTION & PACKING

**01**

Preform cage & feed

Loose PET preforms enter from a compact metal cage and elevator.

02

Blow moulding

Preforms are heated and formed into finished PET bottles.

03

Bottle packing

Upright bottles become neat, protected single-layer packs.

04

Robotic palletising

Finished packs are stacked into stable pallet loads.

THE PRODUCTION CORE

FULLY AUTOMATIC PET BLOW MOULDING

Consistent bottle forming with controlled transfer from loose preforms to dispatch-ready packs.

PREFORM FEEDING

INLINE TRANSFER

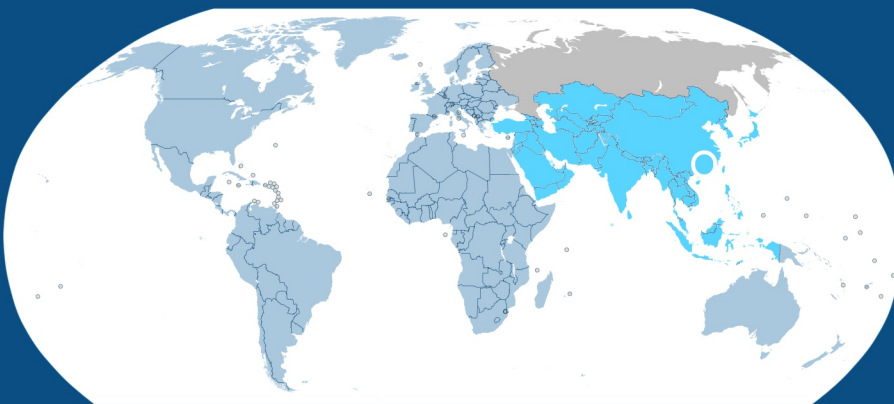
PACK & PALLET

FACTORY-SIDE IN CHINA · BUYER-SIDE ACROSS MARKETS

BUILT AT THE SOURCE. CONFIGURED FOR YOUR MARKET.

From Guangdong, we coordinate specification, inspection, export documentation and commissioning support for packaging projects across Asia and international delivery markets.

REGIONAL PROJECT FOOTPRINT



SOURCE HUB

Guangdong, China

Factory access, trials and release control.

PROJECT MARKETS

India · Thailand · China

Projects represented in this catalogue.

PROGRAMME REACH

Asia · Middle East

Multi-market machinery and tooling support.

One operating model: source close to manufacturing, configure around the destination, and keep one accountable project channel through delivery.

01 · SOURCE CONTROL

Close to manufacturing

Factory capability, trial runs and documentation are checked where the equipment is built.

INSPECTION · VALIDATION · SIGN-OFF

02 · LOCAL FIT

Configured for site reality

Power, output, product format, utilities and operating conditions shape the final system.

SPECIFICATION · COMPLIANCE · USABILITY

03 · DELIVERY SUPPORT

One route to start-up

Trade terms, export documents, freight coordination, remote commissioning and spares remain connected.

FOB · CIF · DDP · COMMISSIONING

DELIVERED PROJECTS

SIX CASE STUDIES.

Six delivered projects spanning machinery, moulds and end-of-line automation, each configured around the customer's product and production needs.

01

PREFORM SYSTEM

96-cavity preform system

Matched injection, take-out and post-mould cooling with an 8.5-second cycle.

OUTPUT · 10 TONNES/DAY

02

INJECTION MOULDING

Thin-wall container cell

Four machines and eight matched moulds balance container and lid production.

CONFIGURATION · 4 MACHINES · 8 MOULDS

03

PET BLOWING

12-cavity PET blowing

Variable-pitch forming with controlled preform feed and inline discharge.

SPEED · 25,000 BOTTLES/HOUR AT 500 ML

04

END-OF-LINE

Preform packaging

Six automated stations prepare and finish cartons, with manual loading between the two lanes.

LINE RATE · 4 CARTONS/MIN

05

END-OF-LINE

Bottle packaging

Leak testing, format recipes and protected single-layer bottle packs.

CAPACITY · UP TO 10,000 BOTTLES/HOUR

06

TOOLING

48 mm closure mould

A needle-valve closure tool engineered for 5 L and 10 L jar applications.

OUTPUT · 125,000 PIECES / 24 H

Customer identities remain confidential. System and product renders are illustrative; configurations are project-specific.

400 TONNE · 96 CAVITIES · 8.5-SECOND CYCLE

BUILT AROUND THE CYCLE.

A matched PET preform cell combining high-rate injection, side-entry take-out and three-stage post-mould cooling for 10 tonnes of daily output.

DELIVERED PROJECT

01 · PRODUCTION SYSTEM



Integrated preform production cell
INJECTION · TAKE-OUT · COOLING

02 · PRODUCT



PET preform
9.6 g · 26/22 neck

03 · PROJECT GEOGRAPHY



India SOUTH ASIA

PROJECT LOGIC

Matched to the production target

PRODUCTION BRIEF

Produce 9.6 g PET preforms at 10 tonnes per day while holding an 8.5-second cycle.

ENGINEERING

Specify the 400-tonne machine, 96-cavity mould, PET plasticising, take-out and cooling as one cell.

DELIVERED SOLUTION

Parallel three-stage cooling protects the moulding cycle while side-entry handling clears each shot.

DELIVERED CONFIGURATION

Product and output specification

10 t/day
DAILY OUTPUT

PARAMETER	SPECIFICATION
Injection machine	400 tonne · 4,000 kN
Mould	96 cavities
Preform	9.6 g · 26/22 neck
Production cycle	8.5 seconds
Plasticising screw	115 mm · PET application
Part handling	Side-entry take-out
Post-mould cooling	Three stages

FOUR MACHINES · EIGHT MATCHED MOULDS

DELIVERED PROJECT

BUILT AS A FAMILY.
BALANCED AS A CELL.

A four-machine injection cell planned around eight container and lid moulds, with equipment allocated to keep the complete thin-wall product family in balance.

01 · DELIVERED PRODUCTION CELL



Thin-wall injection moulding platform
FOUR-MACHINE PRODUCTION PLAN

02 · PRODUCT FAMILY



Containers + lids
Matched family

03 · PROJECT GEOGRAPHY



Thailand SOUTH-EAST ASIA

PROJECT LOGIC

Capacity planned across the family

PRODUCTION BRIEF

Build one coordinated cell for containers and matching lids without duplicating every production asset.

ENGINEERING

Allocate eight matched moulds across four presses using the cavity demand of each container and lid format.

DELIVERED SOLUTION

A coordinated production cell that sequences the product family while keeping machine capacity balanced.

DELIVERED CONFIGURATION

Product and production specification

4 + 8
MACHINES + MOULDS

PARAMETER	SPECIFICATION
Project status	Delivered project
Injection machines	4 production presses
Total moulds	8 matched tools
Container tooling	8-cavity moulds
Lid tooling	12-cavity moulds
Product scope	Containers + matching lids
Production basis	Capacity-balanced allocation

12 CAVITIES · 25,000 BOTTLES/HOUR AT 500 ML

SPEED ENGINEERED INTO THE LINE.

A fully automatic variable-pitch PET blowing system integrating controlled preform orientation, heating, forming and inline bottle discharge.

DELIVERED PROJECT

01 · BLOWING SYSTEM



Linear variable-pitch blowing
FEED · HEAT · FORM · TRANSFER

02 · FINISHED PRODUCT



PET bottle family
Speed rated at 500 mL

03 · PROJECT GEOGRAPHY



India SOUTH ASIA

PROJECT LOGIC

Output begins with stable preform flow

PRODUCTION BRIEF

Produce 25,000 500 mL PET bottles per hour from a 12-cavity fully automatic platform.

ENGINEERING

Coordinate preform elevation, orientation, thermal conditioning, variable pitch and forming as one sequence.

DELIVERED SOLUTION

A controlled bottle stream ready for inline inspection, transfer and downstream packaging.

SYSTEM SPECIFICATION

Machine and output specification

25,000
BOTTLES/HOUR

PARAMETER	SPECIFICATION
Blowing cavities	12
Rated speed	25,000 bottles/hour at 500 mL
Machine architecture	Linear variable-pitch
Operation	Fully automatic
Preform infeed	Elevator + orientation
Heating	Controlled thermal conditioning
Discharge	Inline bottle transfer

SIX AUTOMATED STATIONS · MANUAL LOADING

DELIVERED PROJECT

ONE PROTECTED PACK.
ONE CONTINUOUS FLOW.

A connected line that erects cartons, inserts liners, closes bags, seals cases and straps each pack before robotic palletising.

01 · CONNECTED PACKAGING LINE



Carton-to-pallet automation

PREPARE · PROTECT · DISPATCH

02 · PACKED PRODUCT



Protected preform cartons

Open view + finished pack

03 · PROJECT GEOGRAPHY



China

EAST ASIA

PROJECT LOGIC

Protection built into every transfer

PRODUCTION BRIEF

Move fragile preforms from manual handoff to pallet-ready cartons at four cartons per minute.

ENGINEERING

Link carton erection, liner insertion, bag closing, case sealing, strapping and robotic palletising.

DELIVERED SOLUTION

A protected pack with controlled carton flow and two pallet positions for continuous changeover.

LINE SPECIFICATION

Packaging and output specification

4/min

CARTONS

PARAMETER	SPECIFICATION
Line rate	4 cartons/minute
Automated stations	6, with manual loading
Reference footprint	15.264 × 3.460 m
Inner protection	Clean PE liner
Carton closure	Bag closing + case sealing
Load security	Carton strapping
Pallet handling	2 pallet positions

UP TO 10,000 BOTTLES PER HOUR

INSPECT. GROUP.
PROTECT.

A controlled route from blown bottle to single-layer polybag pack, integrating leak testing, automatic reject and recipe-based format changeover.

DELIVERED PROJECT

01 · AUTOMATIC PACKING SYSTEM



Inline bottle inspection and packing

TEST · GROUP · POLYBAG

02 · PACKED PRODUCT



Upright bottle pack

Polybag packed

03 · PROJECT GEOGRAPHY



Asia

REGIONAL DEPLOYMENT

PROJECT LOGIC

Quality control before protection

PRODUCTION BRIEF

Pack multiple empty-bottle formats at up to 10,000 bottles per hour without unstable stacking.

ENGINEERING

Combine flexible-chain transfer, inline leak testing, automatic reject and recipe-controlled grouping.

DELIVERED SOLUTION

Only verified bottles enter a stable single-layer polybag pack ready for pallet handling.

LINE SPECIFICATION

Product and output specification

10,000

BOTTLES/HOUR

PARAMETER	SPECIFICATION
Inspection + packing	Up to 10,000 bottles/hour
Bottle range	100 mL - 4 L
Transfer conveyor	8.5 m flexible chain
Quality control	Inline leak testing
Reject handling	Automatic
Changeover	Recipe-controlled
Final pack	Single-layer polybag

48 MM CLOSURE · 125,000 PIECES / 24 H

DELIVERED PROJECT

BUILT FOR THE SEAL.
ENGINEERED FOR REPETITION.

A 16-cavity closure mould developed around thread function, tamper evidence, sealing performance and repeatable output for large-format jars.

01 · PRODUCTION MOULD



16-cavity closure mould
NEEDLE-VALVE HOT RUNNER

02 · MOULDED PRODUCT



48 mm closure
5 L + 10 L jars

03 · PROJECT GEOGRAPHY



IndiaSOUTH ASIA

PROJECT LOGIC

The seal defines the tool

PRODUCTION BRIEF

Produce 48 mm tamper-evident closures for 5 L and 10 L jars at 125,000 pieces per 24 hours of operation.

ENGINEERING

Develop thread, sealing surface and tamper geometry together with the 16-cavity needle-valve system.

DELIVERED SOLUTION

Repeatable closure geometry with core, cavity and slide materials selected by wear function.

TOOL SPECIFICATION

Product and output specification

125,000
PIECES / 24 H

PARAMETER	SPECIFICATION
Mould cavities	16
Daily output	125,000 pieces / 24 h
Closure diameter	48 mm
Application	5 L + 10 L jars
Mould envelope	750 × 850 × 535 mm
Hot runner	Needle-valve
Functional scope	Thread + seal + tamper band

ONE ACCOUNTABLE PROJECT PARTNER

FROM SOURCE TO START-UP.

DY PlastTech connects factory access, engineering judgement and commercial clarity so the complete production system arrives as one coherent project.

MANUFACTURING SOURCE

**Qualified factories
and specialist tooling**


 DY

YOUR PRODUCTION OUTCOME

**A matched, start-up-ready
manufacturing system**

ONE PROJECT CHANNEL

01 · ENGINEER

Build the right system

Product, output and local operating conditions are translated into one matched machine, mould, utility and handling architecture.

ONE BRIEF · ONE ACCOUNTABLE
CONFIGURATION

02 · CONTROL

Stay close to the source

Factory capability, drawings, materials, trials and release criteria are reviewed close to manufacturing in Guangdong.

FACTORY-SIDE ACCESS · VERIFIED
BEFORE RELEASE

03 · DELIVER

Protect implementation

Commercial scope, freight, installation and post-sale actions are managed through one clear English-language project channel.

OWNERSHIP FROM PROPOSAL
THROUGH RESOLUTION

Factory access
GUANGDONG BASED

Clear coordination
ENGLISH PROJECT LEAD

System integration
MULTI-VENDOR SCOPE

Post-sale ownership
ACTION TO RESOLUTION

Tell us what you need to make.

PRODUCT · TARGET OUTPUT · DESTINATION MARKET



DY PlastTech

PRODUCT CATALOGUE · 2026

START THE CONVERSATION

LET'S BUILD.

Send the product, target output and destination market. We will translate them into a practical system configuration and commercial path.

01 · PRODUCT

What are you making?

02 · TARGET OUTPUT

How much, and how fast?

03 · DESTINATION

Where will it operate?

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FROM CONCEPT TO WAREHOUSE.

One project channel for machinery, moulds, automation and the decisions that connect them.

DY PLASTTECH CO., LTD.
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