

MOLDED FIBER EGG PACKAGING · AN INTRODUCTION FOR U.S. EGG PRODUCERS, GRADERS & PACKERS

MADE FROM PAPER. MADE FOR EGGS.

Pulp egg trays and retail egg cartons from the company that holds about 60% of Korea's total pulp mold egg packaging market — founded in 1978, grown alongside our customers ever since, and now looking for U.S. partners to build the next chapter with.



1978

FOUNDED IN
Seoul, Korea

≈60%

MARKET SHARE
Korea's Pulp Mold Egg Pkg

78,000 m² 100%

PLANT LAND
Across 3 Operating Sites

RECYCLED FIBER
Circular Egg Line Feedstock

02 / 08 — THE COMPANY

Forty-Eight Years of Fiber, Form & Innovation

PN Greentec (Pungnyun Greentec Co., LTD) began in 1978 as a boxmaker in a country that had no pulp-molding industry at that time. We grew by analyzing the direction of the egg-packaging market and partnering closely with our customers. Today we hold about 60% of Korea's total pulp mold egg packaging market, and we look forward to building long-term U.S. partnerships.

>450,000,000

EGG TRAYS MANUFACTURED & SOLD / YEAR



>150,000,000

EGG CARTONS MANUFACTURED & SOLD / YEAR



Cheonan Main Industrial Complex:

54,800 m² site dedicated to automated egg tray and thermoformed retail carton lines.

LARGEST PULP MOLD MANUFACTURING FACILITY IN KOREA

MILESTONES IN PULP MOLD INNOVATION (1978 — 2026)

1978 • MAR

Pungnyun Enterprise Founded: Began in Seoul as a packaging boxmaker — pioneering the national molded fiber sector.

1995 • OCT

Ansan Plant Constructed: Entered pulp molding, pioneering sustainable molded fiber technology nationwide.

1999 • OCT

First Recycled Egg Tray Produced: Converted post-consumer paper streams into high-strength packaging, centering eggs as our core focus.

2002 • FEB

Retail Egg-Carton Series (10/15/20 Count): Developed retail-ready consumer packs, setting new standards for retail presentation and cushioning.

2017 • OCT

Cheonan Plant Acquisition: Scaled massive automated production lines; established our primary center for retail egg-carton manufacturing.

2026 • MAY

Next-Gen Wet-Type Line & SRF Boiler: Commissioned high-speed line dried by clean recovered energy steam loop with zero fossil fuel.

"We work with diligence and humility to alleviate customers' inconveniences and meet their needs, aiming to become a genuine global partner."

— YOO YI-SANG, CEO, PN GREENTEC

03 / 08 — CAPABILITIES & FACILITIES

Vertical Integration, Scale & Proprietary Machinery

What separates us from conventional suppliers is our end-to-end engineering capability. **We design, develop, and build our own automated production machinery** — including proprietary forming stations, high-tonnage hydraulic presses, automated transfers, and continuous multi-zone drying tunnels. In Korea, this machine and mold manufacturing integration is unmatched.

IN-HOUSE MACHINE DEVELOPMENT & CUSTOM EQUIPMENT ENGINEERING

Because we build the machinery ourselves, line configurations, cycle speeds, and mold cavity geometries can be customized and recalibrated rapidly without relying on third-party equipment vendors.

SITE & REGION	ROLE & FOCUS	SITE AREA	BUILDING	PRODUCTS MANUFACTURED
Cheonan Chungcheongnam-do	MAIN INDUSTRIAL PLANT High-volume automated lines	54,800 m²	8,560 m ²	Pulp egg trays, thermoformed retail egg cartons (Wet & Dry lines), SRF steam boiler facility
Gimje Jeollabuk-do	SECONDARY PLANT Regional production hub	18,480 m²	7,590 m ²	Pulp egg trays, industrial pulp cushioning, fruit trays & specialty packaging
Ansan Gyeonggi-do	HEAD OFFICE · R&D Engineering & Tooling Center	Shared Complex	4,953 m ²	Corporate R&D Center — Mold and Machine Engineering, CNC Tooling Design & Testing

WET-TYPE MANUFACTURING · HOT-AIR TUNNEL

Formed products are dried in a continuous multi-stage hot-air tunnel. Yields thick shock-absorbing walls and deep structural ribs for exceptional drop-and-stack cushioning at high industrial volume.

Raw Materials: 100% Recycled Corrugated Fiber (OCC) + Recycled Newsprint (ONP).

DRY-TYPE THERMOFORMING · HEATED PRECISION DIES

Transferred between heated precision dies and cured under high hydraulic pressure. Produces a tight, ultra-smooth, low-dust surface with exact wall thickness for premium retail shelves.

Raw Materials: Bleached Recycled Paper + Clean Pre-Consumer Dry Broke.



In-House Machine & Tooling Center:

CNC machining centers where automated production machinery, forming molds, and precision dies are custom built.



Cheonan SRF Boiler (2026):

Converts recovered solid fuel into drying steam, creating a zero-fossil-fuel circular energy loop.

04 / 08 — PULP EGG TRAYS (WET-TYPE)

Industrial & Farm Volume Workhorse

Wet-type, hot-air dried egg trays are what this company was built on. Commercial egg producers, graders, and hatcheries rely on our trays for consistent grammage, robust drop cushioning, and guaranteed high-volume supply through peak spring grading seasons.

FORMAT	CAPACITY	PROCESS TYPE	APPLICATION & NOTES
20-Count XL	20 Eggs	Wet · Hot-Air Dried	Extra-large cavity spacing for breeder flocks, duck eggs, and heavy farm-pack lines.
25-Count XL	25 Eggs	Wet · Hot-Air Dried	Standard bulk format for export packaging, regional distribution, and hatcheries.
30-Count Jumbo	30 Eggs	Wet · Hot-Air Dried	High-density 5x6 standard bulk tray for commercial egg grading and freight logistics.
25-Count Retail	25 Eggs	Wet · Hot-Air Dried	Retail-optimized square footprint designed for store display and bulk-buy channels.
30-Count Retail	30 Eggs	Wet · Hot-Air Dried	Universal supermarket wholesale tray with reinforced outer rim and nesting ribs.

100% BREATHABLE FIBER

Natural fiber matrix wicks condensation away from the eggshell, preventing moisture accumulation and bacterial bloom during cold chain transit.

OUTSTANDING CUSHIONING

Deep geometric cavity profiles and shock-absorbing ribbed walls absorb pallet stack weight, transport vibration, and transit drops.

STACKABLE & PRECISION DENESTING

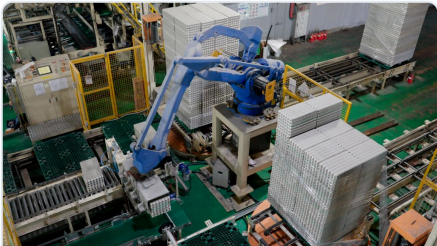
Engineered with precision taper angles and uniform rim geometry designed for consistent de-nesting and smooth feeding on high-speed grading and packing systems.



01. Formation Stage:
Pulp slurry drawn onto precision suction molds with water spray wash.



02. Drying Tunnel:
Formed trays traveling through multi-zone hot-air drying chamber.



03. Automated Packing:
High-speed robotic arm automatically stacking and palletizing.

05 / 08 — RETAIL EGG CARTONS (DRY-TYPE)

Premium Retail-Ready Packaging

Formed on our dry-press thermoforming lines, these cartons carry a refined, smooth surface — the finish specialty producers, pasture-raised egg brands, and premium supermarkets demand. Available across eight sizes with windowed or flat solid lids, headlined by the standard U.S. dozen carton with custom color and label options.

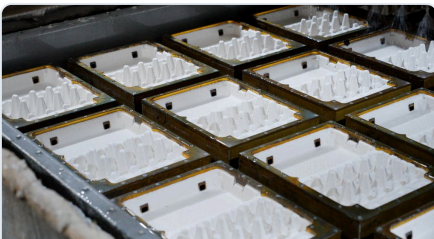
CARTON FORMAT	CONFIGURATION	FINISH & BRANDING OPTIONS
12-Count Standard Dozen	2 x 6 Grid	Smooth matte white / kraft / custom color. Windowed or flat solid lid options.
18-Count Family Pack	3 x 6 Grid	Family pack format; flush label surface for high-impact top & side branding.
2 / 4 / 6-Count Specialty	Small Counts	Ideal for organic, pasture-raised, duck, or boutique farm retail.
10-Count Retail	2 x 5 Grid	European & Asian export standard format with windowed or flat lid.
15-Count Medium Pack	3 x 5 Grid	High-density supermarket multi-pack with secure latch tabs.
20-Count Club Carton	4 x 5 Grid	Wholesale club store format with reinforced center pillars.

KEY CARTON PROPERTIES

- **Smooth Matte Finish:** Low-dust dry-press process allows for vibrant direct stamp printing and flush label adhesion.
- **Uniform Wall Thickness:** Precision heated dies eliminate weak corners and ensure crisp, reliable lid closure on automated packers.
- **Stackable & Nestable:** Optimized taper angles maximize shipping density.

PATENTED EGG CAP INSERT

Developed specifically for direct-to-consumer, mail, and e-commerce egg delivery. Snaps over the top of eggs to lock each unit in cushioned isolation, drastically lowering breakage during parcel shipment.



01. Forming Stage:
In-house CNC-machined forming molds drawing recycled pulp slurry into precision cavity geometry.



02. After Drying Stage:
Cartons exiting high-pressure heated dies with a smooth, low-dust, retail-ready finish.



03. Finished Product Range:
Precision thermoformed retail cartons & specialty poultry packaging in multiple formats and custom colors.

06 / 08 — DIVERSE PACKAGING SOLUTIONS

Custom Pulp Mold Portfolio & Engineering

Beyond poultry packaging, our four decades of mold engineering and forming expertise enable us to manufacture specialized molded-fiber solutions for wine shippers, industrial components, electronics, and premium agriculture.



Wine & Spirit Shippers

Engineered contoured pulp cradles designed to absorb heavy impacts and prevent bottle-to-bottle contact during parcel and pallet freight.



Industrial & Electronics

Precision molded anti-static pulp buffers for circuit boards, sanitaryware, appliances, and delicate engineered components.



Fruit Trays & Caps

Contoured pulp fruit trays paired with custom molded protective caps that cup individual apples and peaches to prevent bruising.

BESPOKE PACKAGING DEVELOPMENT

100% IN-HOUSE R&D & TOOLING

From concept to production — we bring your ideas to life.

Let us help you turn your custom design into a finished commercial product. Whether it is a completely new packaging format, unique cavity dimensions, or changes to an existing blueprint, our in-house engineering team can develop complete technical drawings, engineer 3D prototypes, machine CNC tooling, and refine your product on our lines.

HOW WE DEVELOP YOUR PACKAGING

01

Concept & Specification

A new packaging format, unique cavity dimensions, or changes to an existing blueprint.

02

CAD Blueprinting

Complete 2D/3D technical drawings from your initial concept or specification.

03

Rapid Prototype Tooling

In-house CNC cutting delivers physical test samples with industry-leading turnaround.

04

In-House Production Runs

Tooling is engineered, mounted, and validated directly on our commercial lines.

WHY OUR ENGINEERING IS DIFFERENT



We Build Our Own Machinery

Forming stations, high-tonnage hydraulic presses, automated transfers, and drying tunnels are designed and built in-house.



Certified Corporate R&D Center

In-house research center certified by the Ministry of Science & ICT — mold & machine engineering, CNC tooling design and testing.



Rapid Customization

Line configurations, cycle speeds, and mold cavity geometries are recalibrated quickly — no third-party equipment vendors.

07 / 08 — SPECIFICATIONS & ORDERING

Collaborative Partnership Roadmap

Start with a sample, not a contract. We are a new name in North America, and we would rather earn your first order than talk our way into it. Share your line parameters and packaging setup with us — we will calibrate our tooling, put test samples on your grading lines, and let the trays and cartons prove their fit.

WHAT WE NEED TO QUOTE A PROGRAM:

1. CURRENT FORMAT & GRADING LINE SETUP

Tray or carton format, cell pitch, and your grading/packing equipment model, destacker mechanism, or existing sample specs for line calibration.

2. EGG SPECIFICATIONS & DENESTING TARGETS

Target egg weight classes (Medium–Jumbo), pocket depth preferences, destacker drop clearance, and packaging line speed requirements.

3. VOLUME & SCHEDULE

Annual and peak-month quantities, preferred order patterns (Full Container Load / mixed load consolidation).

4. FINISH & BRANDING

Natural kraft, bleached white, custom colored pulp, blank surface, high-contrast direct printing, or flush adhesive label application.

HOW A PROGRAM RUNS • 6-STAGE DELIVERY ROADMAP

CONCEPT → TOOLING → PRODUCTION → DELIVERY



01. BRIEF

Share format, egg size, volume & packing line setup.

02. SAMPLE

Match inventory tooling or rapid-prototype test samples.

03. VALIDATION

Test on your grading line to validate denesting & egg fit.

04. TOOLING

Full forming molds & heated press dies engineered in-house.

05. PRODUCTION

Automated production run with optical & drop-test QA.

06. SHIPMENT

Shrink-wrapped, palletized, and delivered with export docs.

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MANUFACTURING FACILITIES & OFFICIAL ADDRESSES

SITE & FACILITY	REGION & ROLE	OFFICIAL ADDRESS
Head Office · R&D	Ansan, Gyeonggi-do (Tooling & Mold Eng.)	38, Byeolmang-ro 79beon-gil, Danwon-gu, Ansan-si, Gyeonggi-do, Republic of Korea
Egg Tray Plant	Gimje, Jeollabuk-do (Pulp Egg Trays)	55, Bonghwanggongdan 2-gil, Gimje-si, Jeollabuk-do, Republic of Korea
Main Industrial Plant	Cheonan, Chungcheongnam-do (Trays & Cartons)	586-22, Hwabok-ro, Dong-myeon, Dongnam-gu, Cheonan-si, Chungcheongnam-do, Republic of Korea

ISO 9001

Quality Management System
Certified (Ansan & Gimje)

ISO 14001

Environmental Management
System Certified (Ansan &
Gimje)

Corporate R&D

Certified In-House Research
Center
(Ministry of Science & ICT)

KIPO Patents

Product Design Patent