



JINMAI PLASTIC

CUSTOMIZED PACKAGING SOLUTIONS

2026 BUYER RESOURCE

Corrugated Plastic Divider Box Design & Quotation Checklist

A practical worksheet for measuring products, selecting a divider structure, preparing a quotation request and validating a physical sample.

FOR

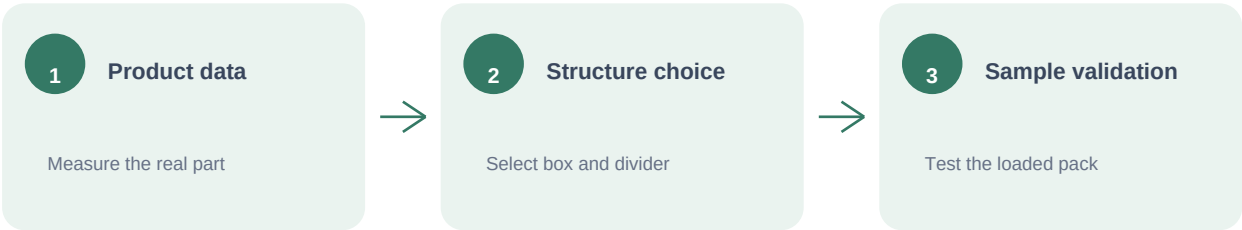
Purchasing teams | Packaging engineers | Industrial users

Jinmai Plastic | Guangdong, China | www.jinmaiplastic.com

WORKSHEET 01

How to Use This Checklist

Complete the worksheets before requesting a sample or quotation. Use maximum product dimensions and describe the real handling route.



Minimum information to collect

Product	Packing target	Handling
Maximum L x W x H Weight per piece Protrusions and contact limits	Quantity per box Rows, columns and layers Inner and outer size limits	Loaded weight Stacking height Cart, conveyor, pallet and return route

Three approval rules

01	Approve a drawing Confirm dimensions, flute direction, joints, accessories and print locations.
02	Approve a loaded sample Use real or representative products to check fit, removal, contact and movement.
03	Approve the test method Define stacking, handling, cleaning and reuse conditions together with acceptance criteria.

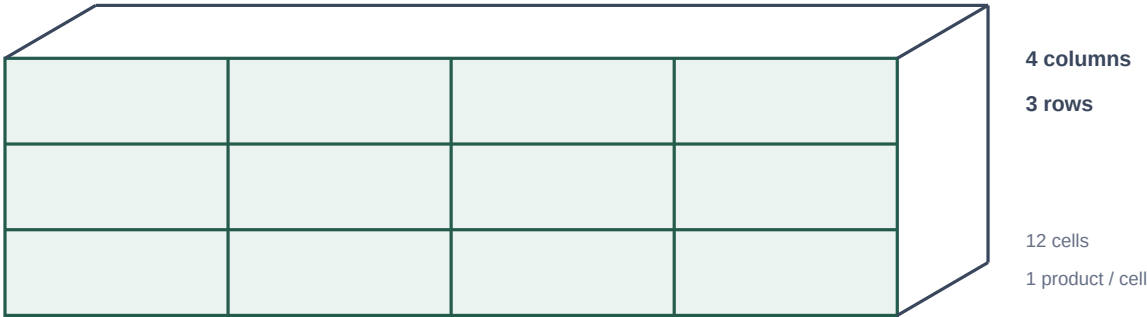
Important: This document is a design brief, not a performance guarantee. Final specifications should be confirmed with an approved drawing, physical sample and application test.

WORKSHEET 02

Choose the Divider Structure

Select the structure according to the full logistics process, including loading labor, cleaning, product changeover, storage and empty return.

Structure	Best suited to	Main benefit	Check before approval
Fixed grid	One stable product in a high-frequency closed loop	Fast loading and consistent cells	Empty return volume and repair method
Removable grid	Cleaning, insert replacement or related products	Flexible maintenance and changeover	Insert movement and component control
Foldable box + grid	Export or return routes with limited empty storage	Lower empty packing volume	Setup labor, joints and lost components
Multi-layer system	Small or low-profile products	Uses vertical space	Loading sequence and layer removal



Structure selection record

Question	Buyer input
Will the box always hold the same product?	
Must the insert be removable for cleaning?	
Is empty return volume a cost driver?	
Are several vertical layers required?	

WORKSHEET 03

Measure the Product and Cell

The finished cell must account for product tolerances, protrusions, safe contact areas, handling clearance, divider thickness and slot geometry.



Handling clearance

Measure in loading orientation

- 1. Maximum length, width and height
- 2. Protrusions, caps, handles and tolerances
- 3. Safe and restricted contact surfaces
- 4. Operator access and glove clearance
- 5. Divider thickness and slot geometry

Measurement	Maximum value	Notes / tolerance
Product length	_____ mm	_____
Product width	_____ mm	_____
Product height	_____ mm	_____
Product weight	_____ kg	_____
Required cell L x W x D	_____ mm	_____

Contact and handling notes

Check	Buyer input
Surfaces the divider may touch	_____
Surfaces that must remain free	_____
Loading method and glove use	_____
Required liner or cushioning	_____

WORKSHEET 04

Define the Box Layout

Record both product fit and logistics constraints. The inner size controls loading; the outer size controls shelves, carts, conveyors, pallets and freight.

Layout item	Required value	Verification note
Rows x columns	_____ x _____	_____
Number of layers	_____	_____
Quantity per box	_____	_____
Box inner L x W x H	_____ mm	_____
Maximum outer L x W x H	_____ mm	_____
Total loaded weight	_____ kg	_____
Stacking quantity / time	_____	_____

Handling route

☐ Hand carry	☐ Cart	☐ Conveyor	☐ Pallet
☐ Warehouse storage	☐ Factory turnover	☐ Export shipment	☐ Empty return

Pallet, rack and conveyor constraints

Constraint	Required value or description
Pallet size and box pattern	_____
Shelf or rack opening	_____
Conveyor width and transfer points	_____
Forklift, cart or tote interface	_____

WORKSHEET 05

Specify Material and Functions

Do not select thickness alone. Review thickness, GSM, flute direction, box structure, total load, cleaning and functional material requirements together.

Requirement	Selection	Notes / test method
PP material function	☐ Standard ☐ Anti-static ☐ Dissipative ☐ Conductive	_____
Sheet thickness	_____ mm	_____
GSM	_____ g/m2	_____
Flute direction	☐ Mark on drawing	_____
Color	_____	_____
Cleaning	☐ Wipe ☐ Wash ☐ Other	Chemical / temperature: _____

Accessories and identification

☐ Lid	☐ Handles	☐ Velcro	☐ Edge binding
☐ Label holder	☐ Barcode	☐ Printing	☐ Color coding

ESD application note

For electronics packaging, state the required anti-static, dissipative or conductive property and the applicable test method. ESD performance must be confirmed separately from box strength, divider fit and loaded stacking.

Required electrical property	Specified range / method
Surface resistance or other property	_____
Test standard / customer specification	_____

WORKSHEET 06

Quotation Input Checklist

Send the same scope to every supplier. Attach product drawings, current packaging photos and any size or test restrictions.

☐ 01. Product name and application	☐ 02. Maximum product L x W x H
☐ 03. Weight per product	☐ 04. Quantity per box
☐ 05. Product placement direction	☐ 06. Required cell L x W x D
☐ 07. Box inner size	☐ 08. Maximum outer size
☐ 09. Total loaded weight	☐ 10. Rows, columns and layers
☐ 11. Divider structure preference	☐ 12. Fixed or foldable box
☐ 13. Open top, lid, stack or handle	☐ 14. Thickness and GSM reference
☐ 15. Standard or functional material	☐ 16. Stacking and handling route
☐ 17. Printing and accessories	☐ 18. Cleaning and reuse expectation
☐ 19. Sample and production quantities	☐ 20. Destination and packing method
☐ 21. Product or packaging drawings	☐ 22. Required tests and acceptance criteria

Quantity breakdown

Stage	Quantity	Target date	Ship-to location
Sample	_____	_____	_____
Trial order	_____	_____	_____
Production	_____	_____	_____

Buyer contact / project reference: _____

WORKSHEET 07

Validate the Physical Sample

Test the sample with real products and the intended handling process. Record both pass/fail results and the corrective action.

Check item	Pass	Fail	Observation / action
Box inner and outer dimensions	☐	☐	_____
Grid slot fit and panel alignment	☐	☐	_____
Specified product quantity loaded	☐	☐	_____
Handling clearance and safe contact	☐	☐	_____
Lift, carry, cart or conveyor use	☐	☐	_____
Planned loaded stacking condition	☐	☐	_____
Base deflection and wall movement	☐	☐	_____
Operator insertion and removal	☐	☐	_____
Product scratches or movement	☐	☐	_____
Fold, return, clean and repeat cycle	☐	☐	_____

Approval record

Decision	Record
Sample status	☐ Approved ☐ Revise and resample ☐ Rejected
Drawing / sample version	_____
Approved by / date	_____

WORKSHEET 08

Avoid Common Purchasing Mistakes

A low unit price does not prove that the packaging will fit the product, survive the handling route or reduce total logistics cost.

Mistake	Why it causes problems	Better action
Quote from box size alone	Cells may be too tight, too loose or difficult to load	Start from product data and placement direction
Use nominal product dimensions	The largest production part may not fit	Use maximum dimensions and tolerances
Minimize clearance	Loading slows and surfaces may be damaged	Test operator access with real products
Choose thickness without load	Base, handles and dividers may behave differently when loaded	Review the complete structure and total weight
Ignore flute direction	Stiffness, creasing and slot behavior can change	Mark flute direction on the drawing
Skip empty return analysis	A fixed box may waste storage and freight volume	Compare fixed and foldable designs across the round trip
Approve an empty sample	It cannot prove fit, removal, movement or loaded stacking	Approve with real or representative products

Supplier comparison notes

Supplier / version	Material & structure	Tooling / sample	Unit & packing
A: _____	_____	_____	_____
B: _____	_____	_____	_____
C: _____	_____	_____	_____

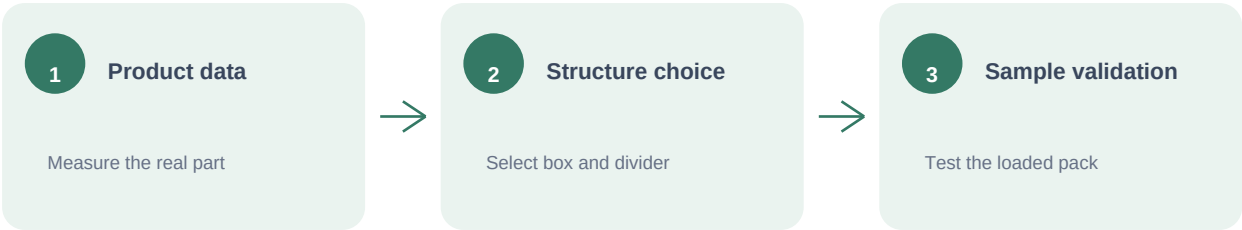
Comparison rule: Check whether each quotation uses the same dimensions, material grade, divider layout, accessories, quantity, test scope and packing method before comparing price.

WORKSHEET 09

Send a Complete Design Brief

Jinmai Plastic can review a custom PP corrugated box and divider request when the product data, packing target and handling route are clear.

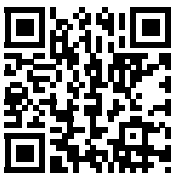
Recommended next steps



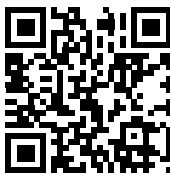
Useful links



Read the guide



View the product



Request a quote

REQUEST A CUSTOM DIVIDER BOX QUOTATION

Website: <https://www.jinmaiplastic.com/>
Product: <https://www.jinmaiplastic.com/product/coroplast-box/>
Buyer guide: <https://www.jinmaiplastic.com/corrugated-plastic-boxes-with-dividers/>
Inquiry: <https://www.jinmaiplastic.com/inquiry/>

Document control

Document	Version	Updated
Corrugated Plastic Divider Box Design & Quotation Checklist	1.0	July 2026

Disclaimer: This checklist provides general design and purchasing guidance. Product dimensions, loads, reuse cycles, ESD requirements, cleaning processes, distribution risks and acceptance criteria vary by application. Final specifications should be confirmed through an approved drawing, physical sample and application test.