

# KWANG DONG



In the world of resistance to change  
Gathering the voices for innovation  
Leads to a new era.

NEW-PLA Sheet & Box Frontier

**KWANG DONG**



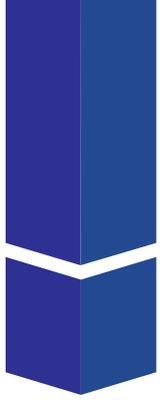
## Whenever Our Customers Are Needed

With the slogan,  
“Always for our customers’ needs!”

Kwang Dong Co., Ltd. has been committed to R&D and manufacturing with its employees to become a leader in plastic packaging since its establishment in 1998. Our company is concentrating its energy on developing the recyclable, affordable and eco-friendly returnable packaging products in order to remedy shortcomings of the existing industrial packing containers and paper products, and to actualize the environmental issues currently emerging all over the world and saving of logistics costs.

Kwang Dong with its open mind for customers will take the lead in increasing customers’ competitiveness through its ceaseless R&D for innovative products so that our customers can actualize trade stability and cost savings by cooperating with the companies home and abroad.

CEO Jang Ik-Soo



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### Danpla Package

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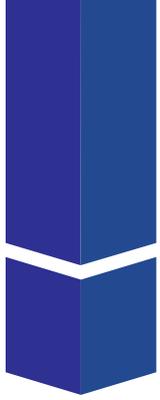
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# Company History

Kwang Dong is making a new history through its tenacity and challenges.

**1998**

- Established Kwang Dong Inc.

**2000**

- Started its sheet production by Unit 1
- Registered as a supplier for LG Electronics

**2002**

- Registered as a supplier for Hyundai Motor Company
- Registered as a supplier for Samsung Motor Company
- Registered as a supplier for Samsung Electronics

**2004**

- Built Plant 2 additionally
- Registered as a supplier for GM Korea
- Established the facilities for profile extrusion production
- (Supplied to LG Electronics and GM Korea)

**2006**

- Changed the company name to Kwang Dong Co., Ltd. (appointed Jang Ik-soo as CEO)
- Built the sheet production line of Unit 4 additionally

**2010**

- Established the production facility for 10T Danpla sheets
- Registered as a supplier for Kia Motor Company
- Registered as a supplier for Hyundai Glovis

**2015**

- Moved and extended the main office to 534-4 Daman-ri, Jinrye-myeon, Gimhae
- Built the sheet production lines of Unit 7 and 8 (Annual production of 15,600 tons)
- Established the blow molding facilities
- Established and operated its R&D Center

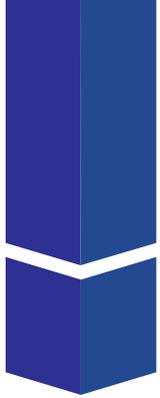
**2016**

- Built the production line for 12T Danpla sheets first in Korea
- Designated as a Promising Export Firm

**2017**

- Received KOREA STAR AWARDS 2017 (11th New technologies on future packaging: Returnable Package)
- Selected as Gyeongnam Global IP Star Corporation





# Certification

Kwang Dong obtained the certifications of Quality Management System seeking for the best quality, Environment Management System securing the optimal quality, and Technical Innovation System creating the future values.



Certificate of Inno-Biz by Ministry of SMEs and Startups



Certificate of R&D Center



Certificate of Promising Exporting Firm by SMBA



Certificate of Design Registration for shipping pallet



Certificate of Design Registration for packaging box



Certificate of a patent for returnable box



# Returnable Sleeve Package

## Total Logistics Solution

A returnable sleeve package developed based on the Kwang Dong's patented technology is a new concept innovative product in packaging logistics, which remedies shortcomings of the existing disposal packaging and makes maximum use of a space.



▼ When separated



### Load up & Collection

- the returnable sleeve package can drastically reduce the logistics costs during the cargo delivery due to a higher return rate.
- When the sleeves are folded down, the package becomes 48mm in height, which secures a higher return rate in case of product separation.



32 sets when loaded



288 sets when Collected

## Indications

Assembly

Division



## Product Feature

Kwang Dong's returnable sleeve packages have excellent return rate by size, reduce the logistics costs by continuous use through linking between the rental companies, and show the improvement effect of environmental beauty through variety and convenience of product packaging.





# X-Box

## Returnable Sleeve Package

X-BOX, a new and safe packing system to improve the companies' competitiveness, is the easy-to buy, easy-to-load product available for long-term storage semi-permanently.

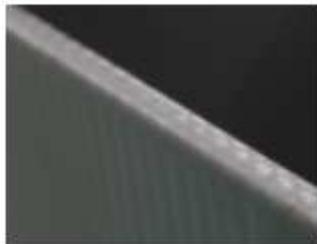


### Product Detail



#### Blow Molded Pallet

Solid and less damage due to blow molded pallet and cap



#### Side-Block

Securing waterproof and safety functions through side-block treatment in a round shape



#### Door

Easy to load and pack the products



#### Locking sleeve mechanism

Prevents the products from getting out (1,100 X 1,100)

## Product Contents

(Large size standard by type)

NO.	Model Name	Dimension(mm)		Weight(Kg)				Stuffing Quantity	Returnable Quantity	Return Rate
		External Dimension	Internal Dimension	Pallet (HDPE)	Sleeve (PP)	Cap (HDPE)	Total Weight (based on Large)	(Based on 40PT HQ)	Compared to stuffing quantity	
1	X-110	1,100 x 1,100 x 1,200	1,040 x 1,040 x 1,000	12.5	14.5	10.5	37.5	40	308	1:7
2	X-120	1,000 x 1,200 x 1,120	940 x 1,140 x 920	12	13.5	10	35.5	40	308	1:7
3	X-098	1,140 x 980 x 1,100	1,080 x 920 x 900	11	12.5	9	32.5	48	408	1:8
4	X-132	1,140 x 1,320 x 1,240	1,080 x 1,260 x 1,060	14	17	13	44	36	288	1:8
5	X-148	1,140 x 1,480 x 1,240	1,080 x 1,410 x 1,060	16.5	19	13.5	49	32	288	1:9

## Application



## Options | Separate type Returnable Package



### Sleeve separation type molding

Easy to load and pack the products



# X-Box Heavy Cargo Package

## Returnable Sleeve Package

Easy to load and store heavy cargo by establishing a load enforcement support



### Product Detail



#### Load Enforcement Supports

Rigid and easy to assemble through no shaking combination

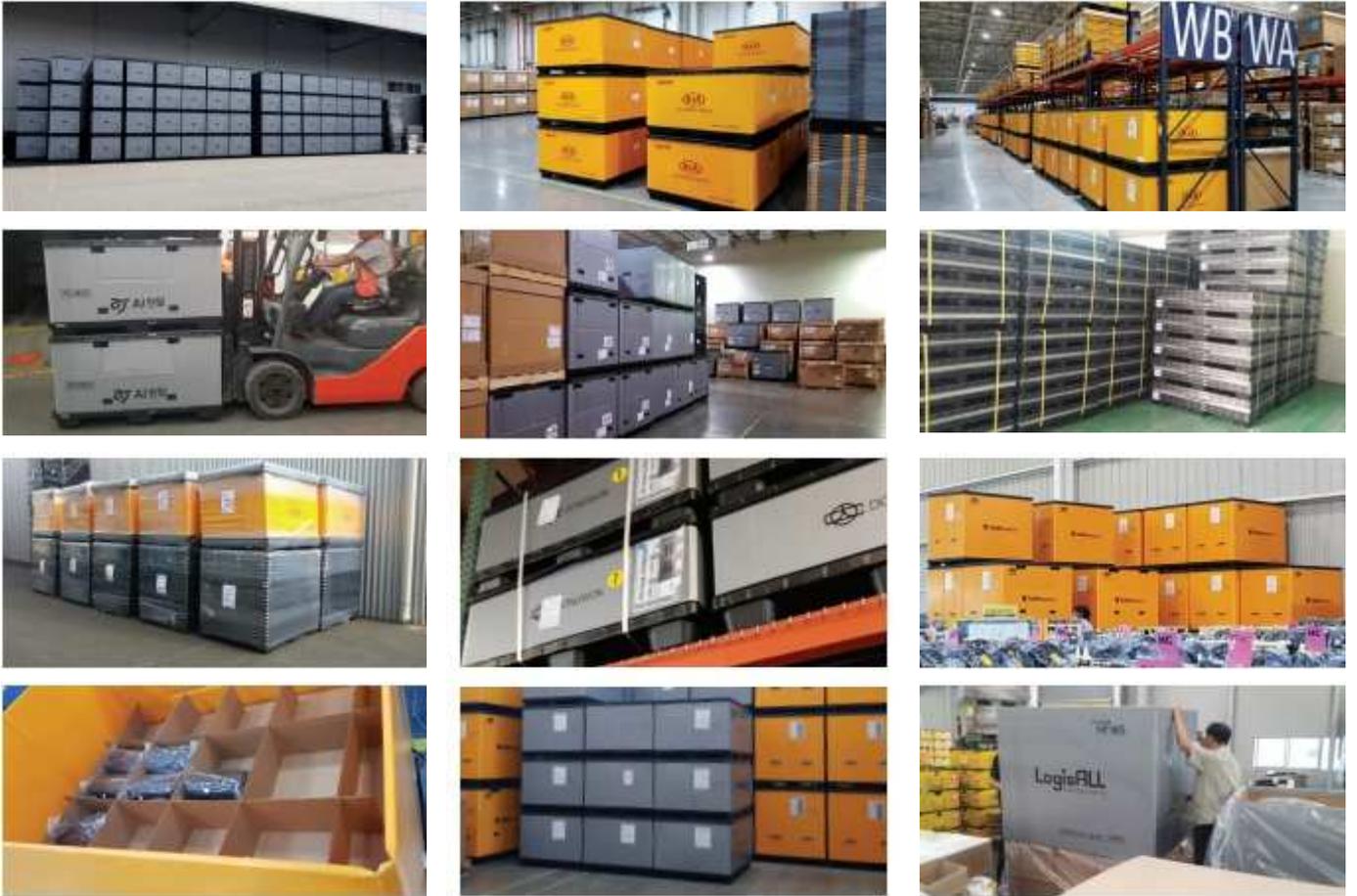


#### Supports

increase the maximum load after installed at the 4 corners



## Application



## Certificate



maintain solidity even under the product load of about 5.9 ton (57.7kN)

## Product Constitution





# X-Box Octagon Package

## Returnable Sleeve Package

A new concept Octagon Sleeve product replaces the dispensable packing materials and can manufacture in various sizes according to the customers' requirements. This product replaces the IBC/PAPER tank and can be applied to all the fields including agro-fishery products.

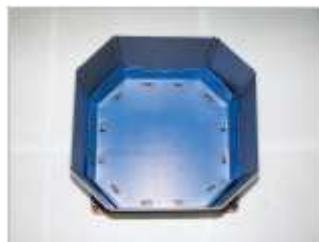


### Product Detail



#### Octagon Sleeve

It is not damaged by moisture and can reduce the logistics and packing costs through the repeated reuse.



#### Octagonal Structure

Possible to spread the load



#### Side-Block

Securing waterproof and safety functions through side-block treatment in a round shape



#### Internals of Octagonal Pallet

Danpla materials increase the solidity and avoid warpage of the product

## Product Contents

NO.	Model Name	External Size L x W x H (mm)	Internal Size L x W x H (mm)	Product Weight (kg)	Maximum Load (kg)
1	XO-11	1,100 x 1,100 x H	1,085 x 1,085 x H	14	3,000
2	XO-12	1,100 x 1,200 x H	1,085 x 1,185 x H	15	3,000
3	XO-14	1,120 x 1,420 x H	1,105 x 1,405 x H	16	3,000
Customized Production		Production by the size according to the customers' requirements			

## Application



## Method of use



Height of a returned  
box: 60mm



# I-Box

## Returnable Package

I-Box is a new concept product which increases a return rate and product safety through improving the effectiveness of space.

### Type 1

The advantage of the fixed container short box (high loading weight) is saved and the recovery rate is increased.



### Indications



### Type 2

It is a container type container box that maximizes the recovery rate that can be stored in the form of a pad when not in use.



### Indications

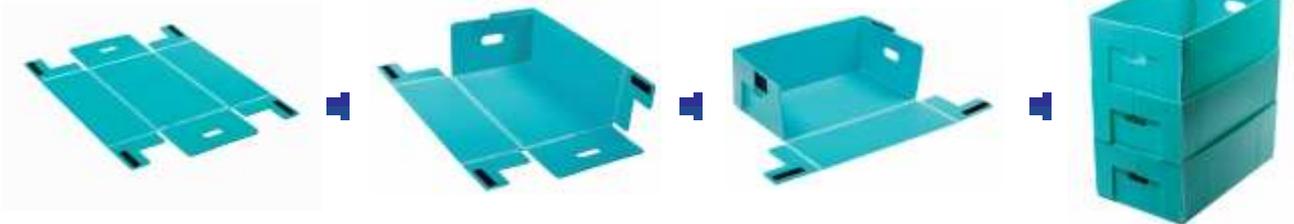


## Type 3

It is designed to be able to multi-stage loading with general single type box when attaching with Velcro, and is easy to assemble and disassemble.



### Indications

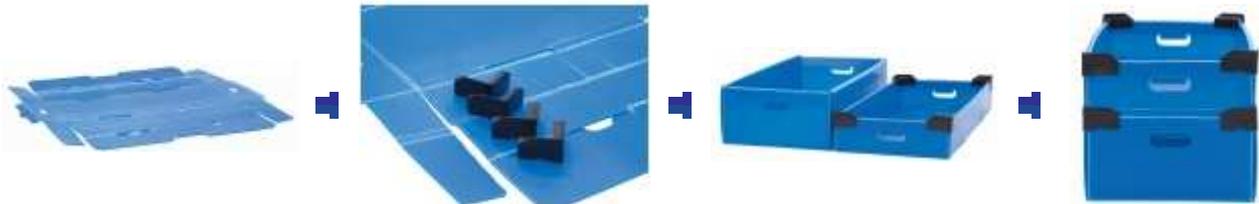


## Type 4

It is easy to assemble and disassemble with container type single plastic box which can be completely disassembled.



### Indications





# X-Pallet

## Returnable Pallet

X-Pallet secures better use of a space by maximizing the effectiveness of space with its underlying robustness



### Pallet Loading Comparison (10EA)



▲ General Pallets 1,100 X 1,100 X 120    ▲ X-Pallet 1,100 X 1,100 X 150

Increased space efficiency of 50%  
higher than general pallets.

### Product Detail



The grooves designed for a pallet increase space efficiency while the pallet is loaded



4way structure with enhanced pallet utilization



It is manufactured by blower molding method, has strong durability against injection pallet and has less damage

### Product Contents

NO.	Model Name	Product Size
1	XP-1	1,100 x 1,100 x 150
2	XP-2	1,100 x 1,300 x 150
3	XP-3	1,200 x 1,000 x 155



# Steel Pallet Package

## Returnable Steel Pallet

Can transport various products safely and reduce the work process due to easy assembly.



### Indications



### Product Contents

NO.	Model Name	External Dimension	Loading Quantity(40ft)	Returnable Quantity	Product Weight(kg)
1	Big	2,280 x 1,470 x 1,120	16	136	45
2	Small	1,130 x 1,480 x 1,100	32	208	33



# Danpla

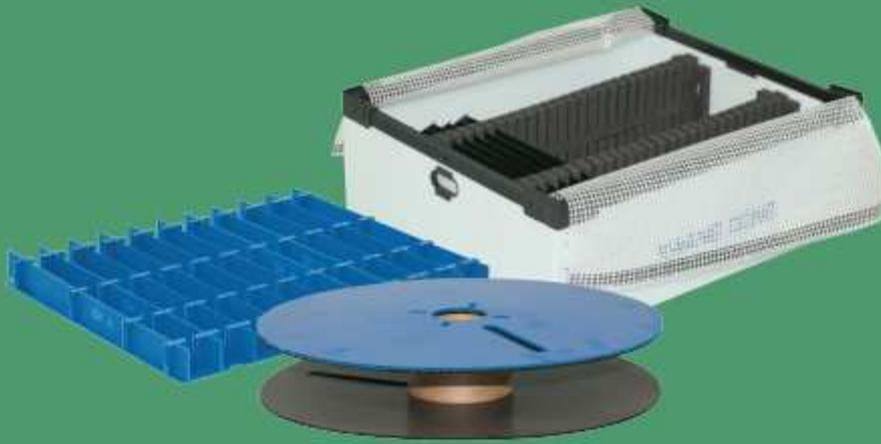
## Total Logistics Solution

The eco-friendly plastic product (PP), a substitute for paper and plywood, is an advanced material which is recyclable and can reduce waste.



### Product Introduction

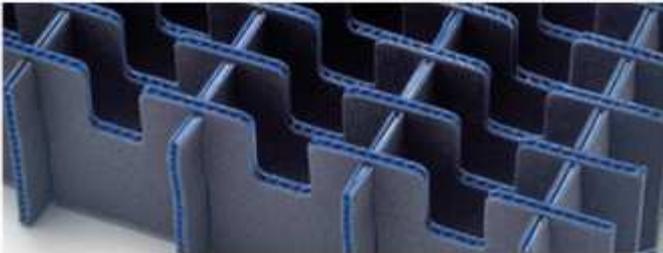
- It is a plastic carbon board through processing polypropylene (PP) resins by compression molding method.
- Compared to the paper product, it is stronger, lighter and has excellent water resistance, oil resistance and chemical resistance. It also has the effects of elasticity maintenance, insulation and sound absorption.
- Excellent printing characteristic enables the free choice of the colors to the consumer's taste.
- It can be used in many applications such as external packaging, returnable box, shipping container and internal packaging according to packaging beauty and Danpla sheet's thickness.
- The Danpla sheet is also widely used as the materials for heavy cargo packaging, construction, buffer, etc. due to its structure and features.
- As it is made up of the recyclable, eco-friendly material, it contributes to the reduction of waste and environmental pollution.



## Product Feature

- Any Danpla sheet can be made to order regardless of its quantity.
- Its recovery and reuse is effective for cost-saving.
- It is possible to insert various Danpla colors and printing types.
- Strong resistance to moisture good for content protection and transportation.
- Light and its service life is long.
- Excellent product protection

## Application





# Danpla Sheet & Box

## Total Logistics Solution

Kwang Dong's Danpla sheets and boxes can be made according to the customers' specifications.

### Product Contents

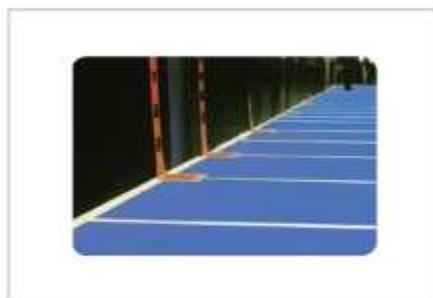
NO.	Sheet Thickness(mm)	Maximum Effective Width	Weight(g/1mx1m)
1	2	2,300	250 ~ 400
2	3	2,300	450 ~ 900
3	4	2,300	650 ~ 1,000
4	5	2,300	950 ~ 1,400
5	6	2,300	1,200 ~ 1,700
6	7	2,300	1,450 ~ 1,600
7	8	2,300	1,600 ~ 2,000
8	9	2,300	1,800 ~ 2,200
9	10	2,300	2,000 ~ 2,400
10	11	2,800	2,800 ~ 3,000
11	12	2,800	3,000 이상

### Product List



#### Danpla Sheet

Customized production according to required thickness and colors



#### Application to safety covering for building protection

Danpla sheets for building protection covering



#### Application to safety covering for building protection

Danpla sheets for building protection covering



### Glass Sheet

Applied to glass bottle, pet bottle and can manufacturing as a side-block sheet



### Application to Bobbin as Pad

Danpla pad for bobbin finish treatment



### Auto Parts Packaging Box

Has a partition for product protection or a scratch proof barrier



### Small Cargo Box

Has a sponge for protection inside



### Folding Type (A type)

Common shape, packaging for moving



### Box for Electrical Appliance

Has an antistatic feature



### Partitions in Plastic Boxes

Inner partitions only for plastic boxes



### Folding Type (Pizza box type)

Can be manufactured according to the size adjusted for product usage.



### Fixed Type (CT type)

A box for carrying the parts can be made to order.



### Storage Type Box

Easy to use for arranging and keeping the tools



### Folding Type (AC type)

Multi-level loading and folding for storage



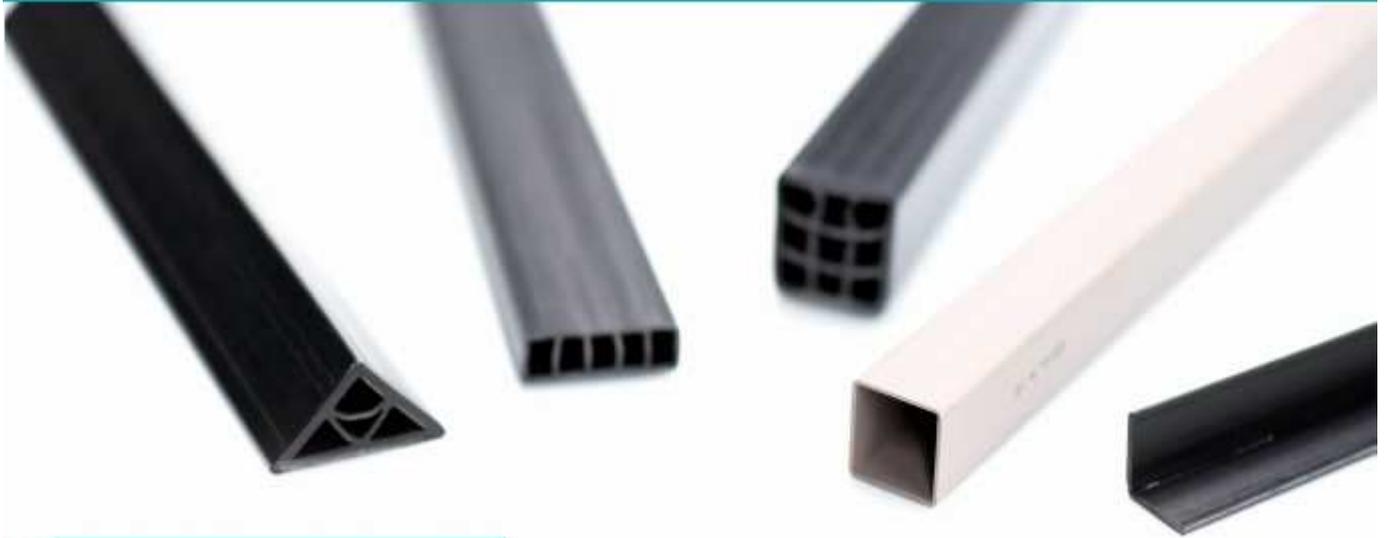
### Utility Box

A prefabricated box for keeping home wear

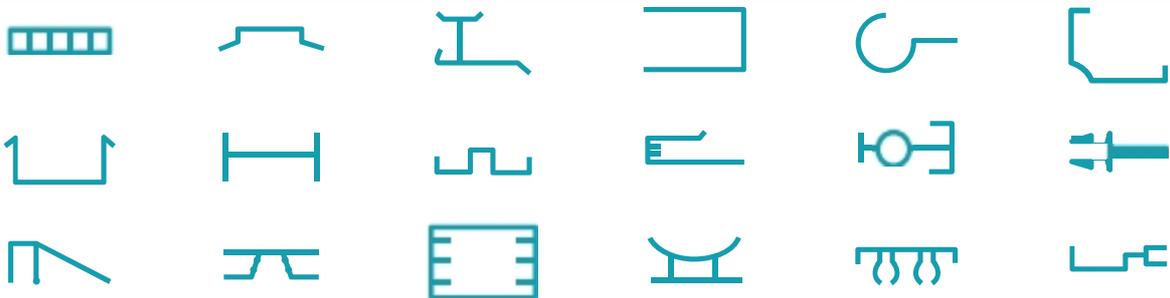
# Profile Extrusion Products

## Total Logistics Solution

Customized production according to the usage and design function. These products are widely used as interior/ exterior molds of the automobiles, construction materials, interior materials and other functional prefabricated structures. The advantage is that even small tool investment enables customized production.



### Section View



### Application



# KWANGDONG Gallery



# KWANG DONG



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