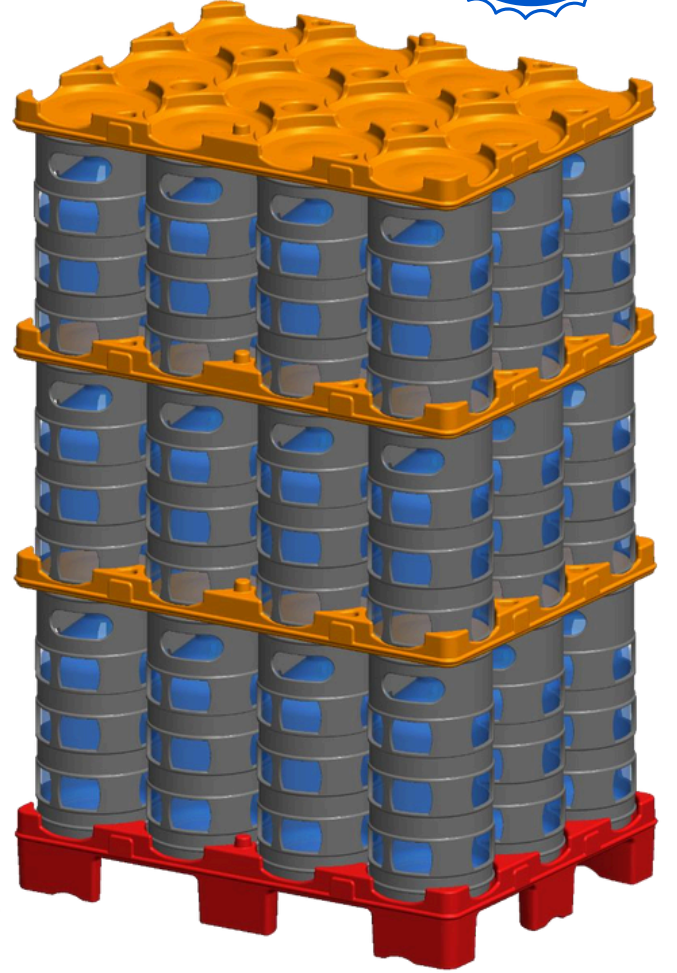
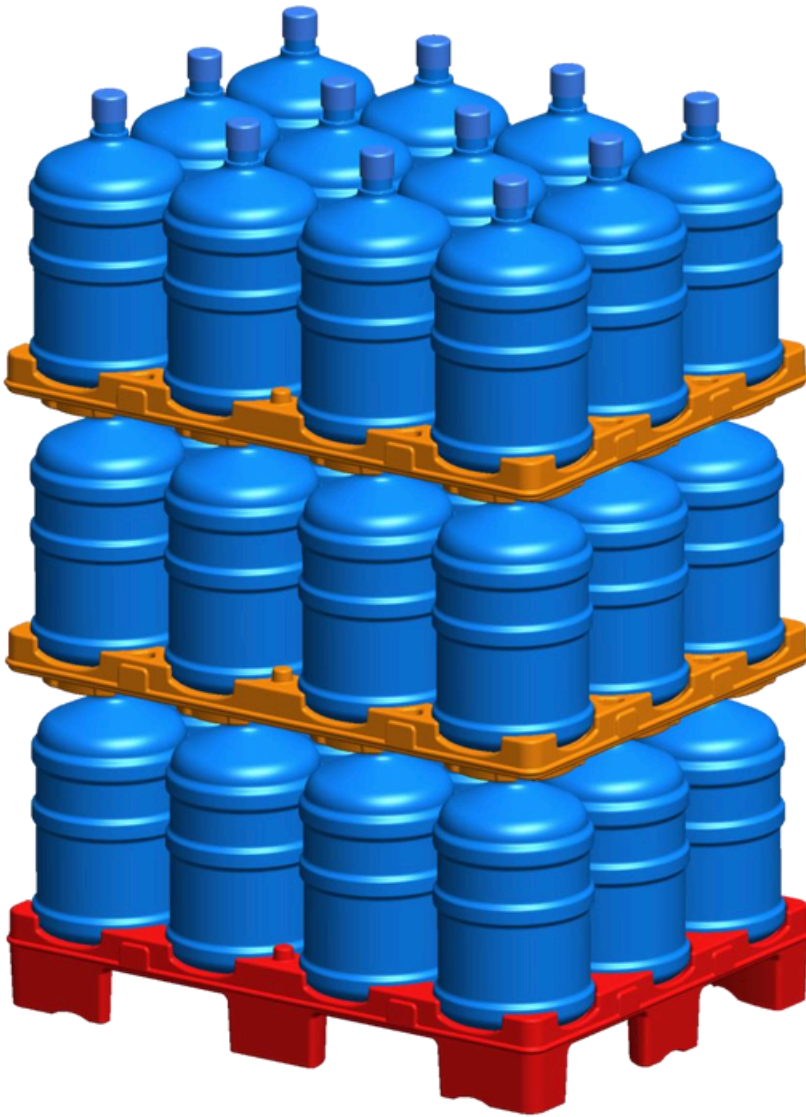


**ONE PALLET
DOUBLE FUNCTION**



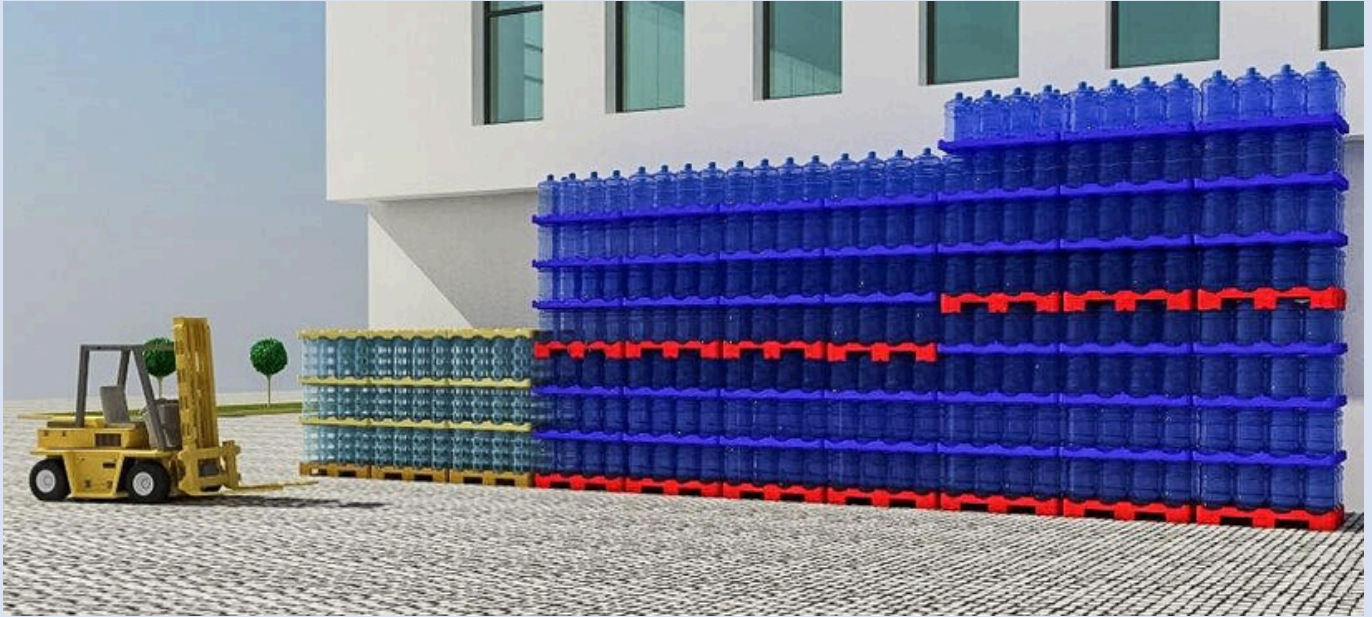
DAMACANA
PALETi®
CARBOY PALLETS



We have been operating in the bottled water industry for 20 years. Through our research and development efforts to address the industry's challenges, we have discovered a unique solution: the carboy pallet, which facilitates the stacking and transportation of water bottles and has not been previously available worldwide. Additionally, in order to enhance the efficient use of these carboy pallets, we have developed a manual bottle loading robot, which we have introduced to the industry.

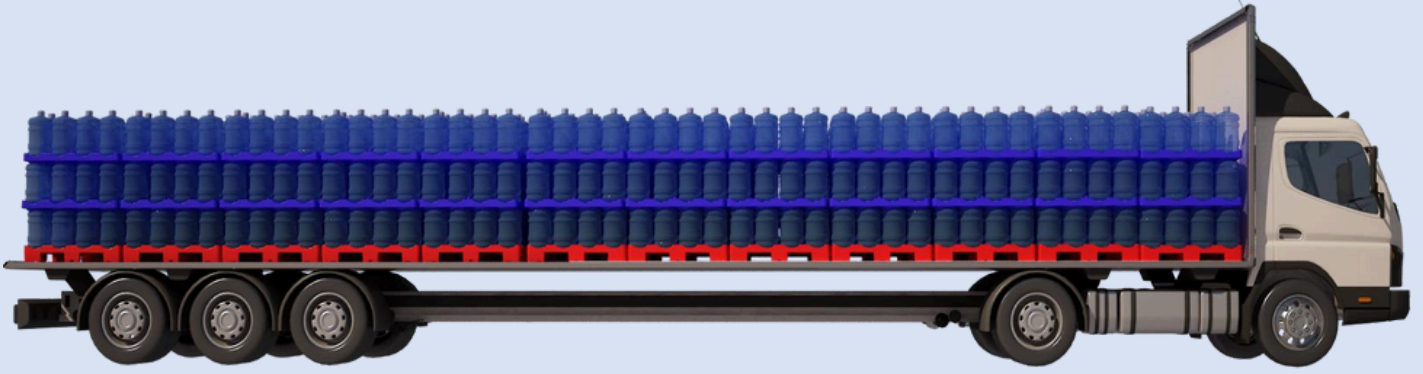
With the negative perception surrounding polycarbonate water bottles, a new packaging option, glass water bottles, entered the market. However, transporting and stacking glass bottles posed significant challenges. To address these issues, our research and development initiatives led to the creation of a dual-function carboy pallet, capable of accommodating both glass and polycarbonate bottles on the same pallet.

Our product is used with great satisfaction by 90% of the industry.



THE BENEFITS OF THE CARBOY PALLET

- Transports both glass and polycarbonate carboys on the same pallet
- Reduces labor by 8 times
- Eliminates costs for stretch film and wrapping
- Reduces wear and tear on carboys by 37%
- Prevents friction and damage during transportation
- Carries more carboys without exceeding weight limits
- Provides a 17% advantage in transportation
- Allows for more product storage in the same area
- Prevents counting errors
- Compatible with various pallet jacks and forklifts
- Absolutely sturdy and resistant to collapsing in standard use
- Allows transport of 36 carboys in three layers or 48 carboys in four layers
- Amortizes the investment within one year
- 100% recyclable, environmentally friendly, leaves no waste
- Works efficiently when integrated with carboy loading robot
- Manufactured with rotation technology, the most durable plastic production method, with double walls
- Available in options for short and tall glass carboy baskets



STANDARD SEMI-TRAILER: The trailer floor accommodates 36 pallets. Without exceeding the weight limit, it can transport 1296 carboys. Loading is done with 36 bottom pallets, 72 top pallets, and 36-pallet configurations.

LIGHTWEIGHT SEMI-TRAILER: The trailer floor also fits 36 pallets. Without surpassing the weight limit, it can transport 1416 carboys. Loading involves 36 bottom pallets, 82 top pallets, and 48-pallet configurations in the front, followed by 26 rows of 36-pallet configurations.

NOTE: Without weight restrictions, it could transport 1728 carboys. Loading would consist of 36 bottom pallets, 108 top pallets, and 48-pallet configurations.



40 FEET TRUCK: The truck bed accommodates 21 pallets and can transport 1008 carboys. Loading is done with 21 bottom pallets, 63 top pallets, and 48-carboy, 4-layer pallet configurations.

NOTE: If the truck bed is custom-made, it can be extended to fit 24 pallets. This allows transportation of 1152 carboys with 24 bottom pallets, 72 top pallets, and 48-pallet configurations. Extending the bed does not pose any issues during inspections.



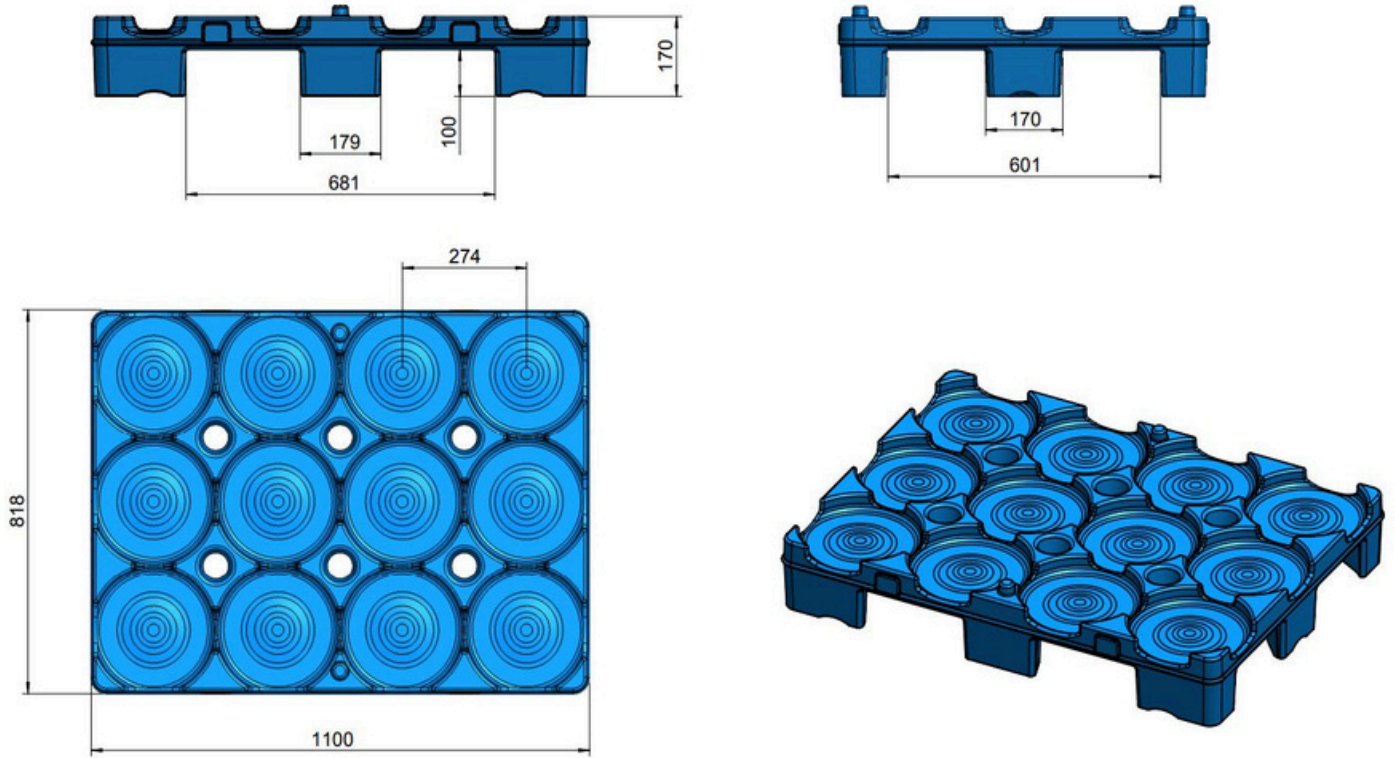
SINGLE-AXLE TRUCK: The truck bed accommodates 18 pallets. It requires 18 bottom pallets and 54 top pallets. It can transport 864 carboys with 48-pallet configurations.

NOTE: If the truck bed is custom-made, it can be extended to fit 21 pallets. This allows transportation of 1008 carboys with 21 bottom pallets, 63 top pallets, and 48-pallet configurations. Extending the bed does not pose any issues during inspections.



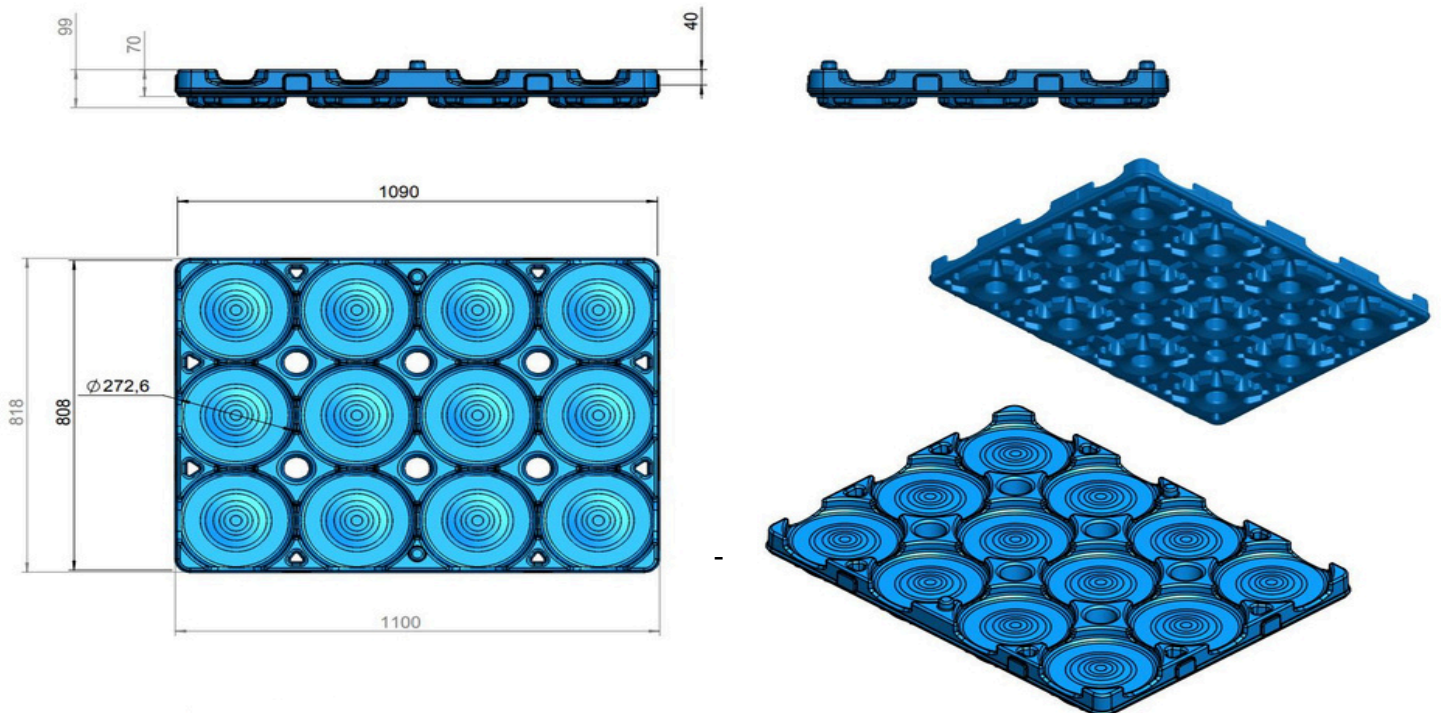
PERFECT & OPTIMAL STOCK AREA UTILIZATION

BOTTOM PALLET

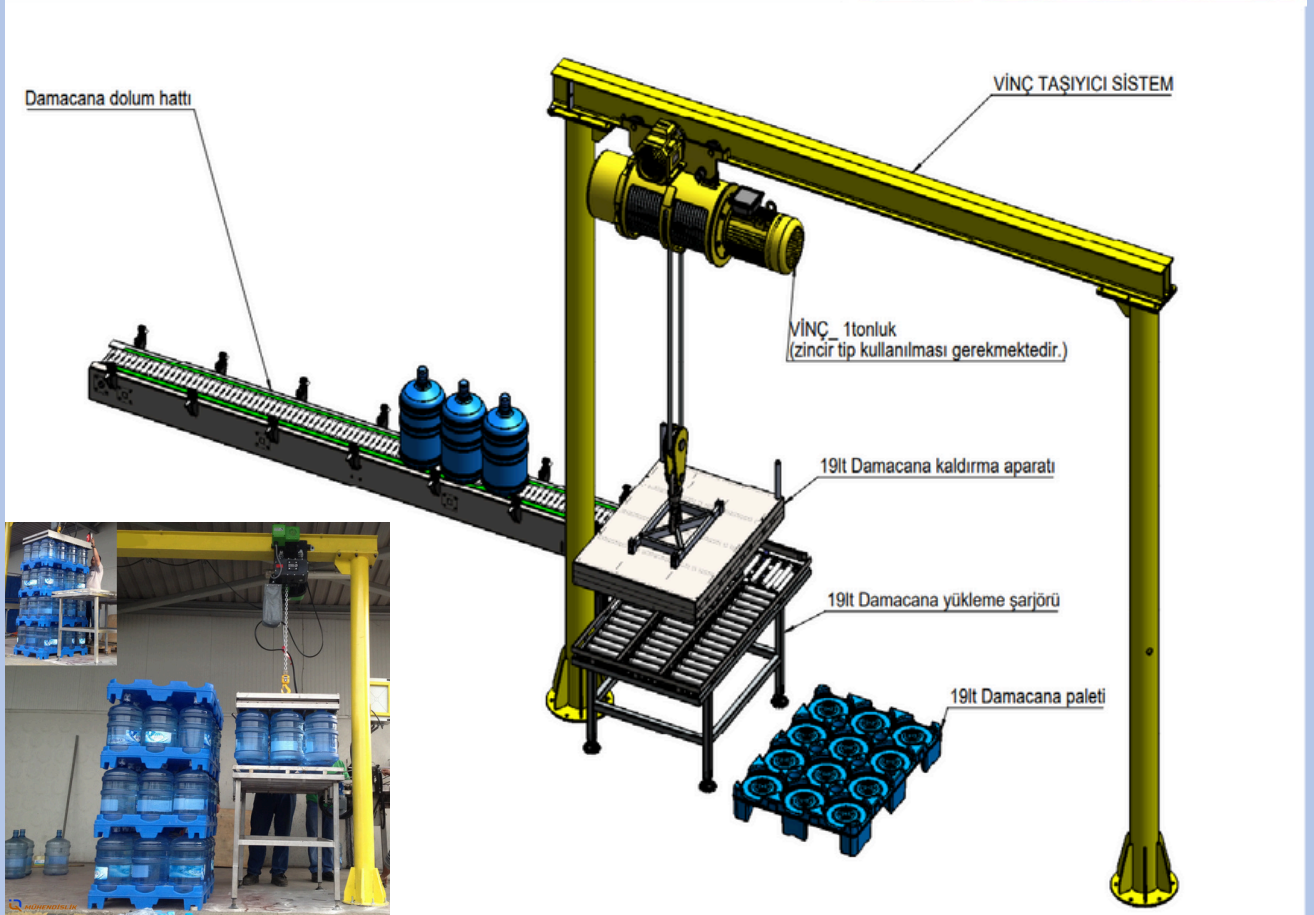


**MANUFACTURED WITH DUAL-WALLED ROTATION TECHNOLOGY,
WEIGHING 12 KG.**

SEPERATÖR



**MANUFACTURED WITH DUAL-WALLED ROTATION TECHNOLOGY,
WEIGHING 7.5 KG.**



MANUAL CARBOY LOADING ROBOT

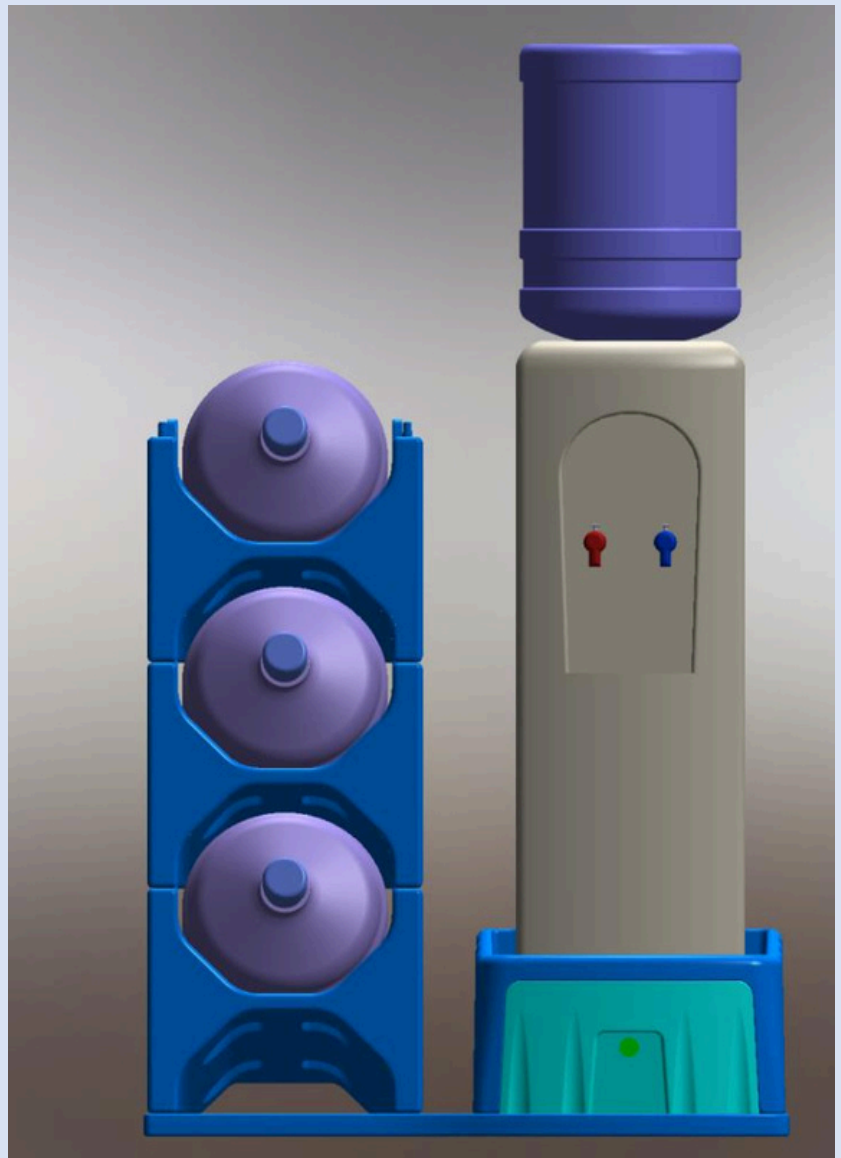
- It does not damage the carboy cap, safety strap, or the neck of the carboy.
- It can load 12 carboys simultaneously.
- Enables the work that 3 workers can do to be done by only 1 worker.
- Can load 1500-1700 carboys per hour.
- Stacking carboys four layers high is possible.
- Does not require service, maintenance, programming, or consumables.
- Can be integrated into the system of any facility. Does not disrupt production.
- Does not require additional installation costs.
- Does not strain the operator.
- Ensures job safety.
- Speeds up the process.
- Does not require special maintenance.
- Converts wasted labor and energy into profit.
- Prevents trade deficit as 100% local materials are used.

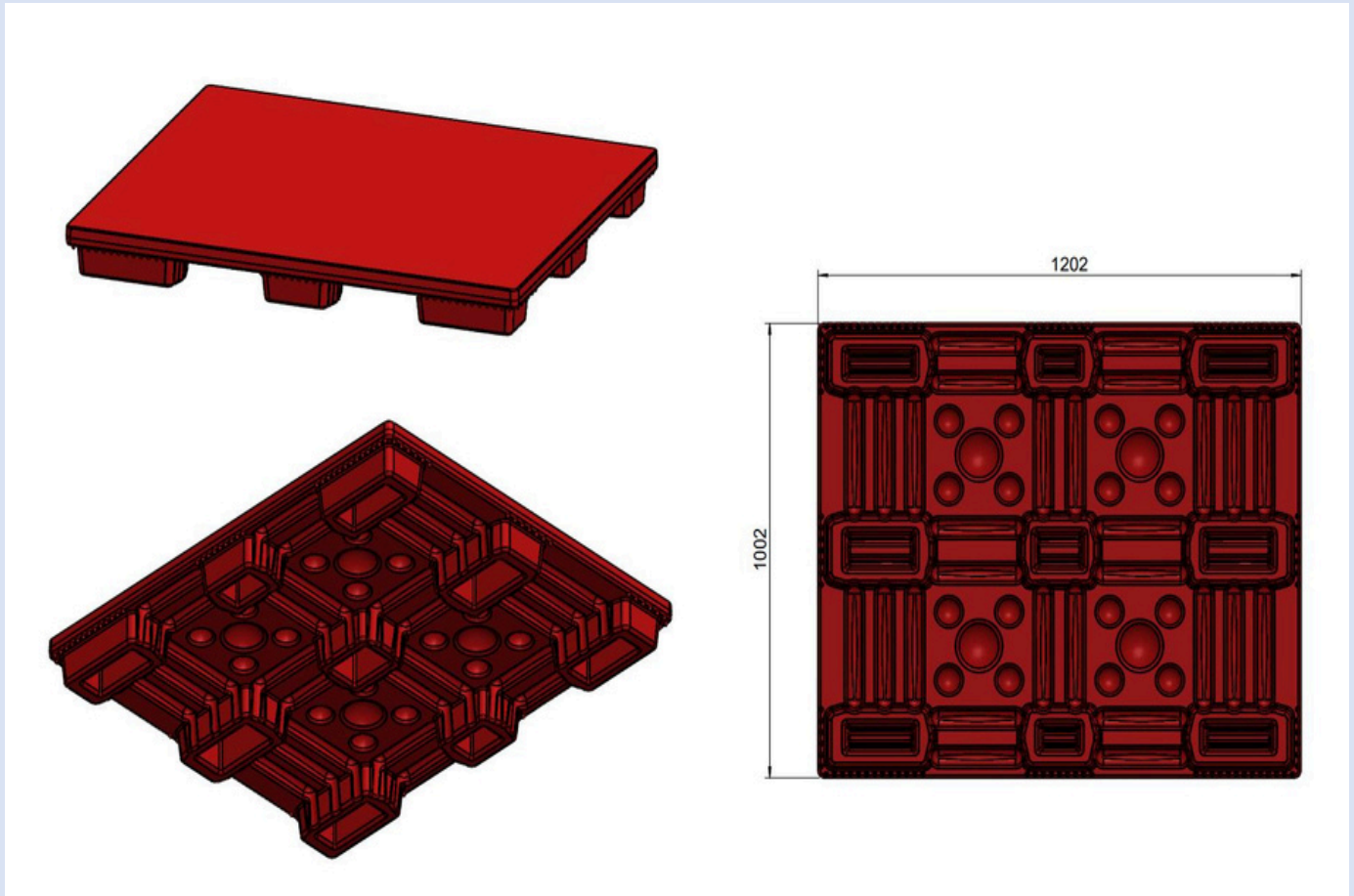
CARBOY PALLET: ALL MODELS AND DEVELOPMENT PROCESS



COOLER BASE TRAY AND COOLER SIDE STACKING SHELF

- It collects the spills from dispensers in the lower basin.
- It provides protection against potential contamination and workplace accidents caused by spills.
- It prevents clutter around the coolers.
- It ensures organization and ease of use.
- Its modular design allows for efficient stacking of carboys.





MULTIFUNCTIONAL FLAT PALLET

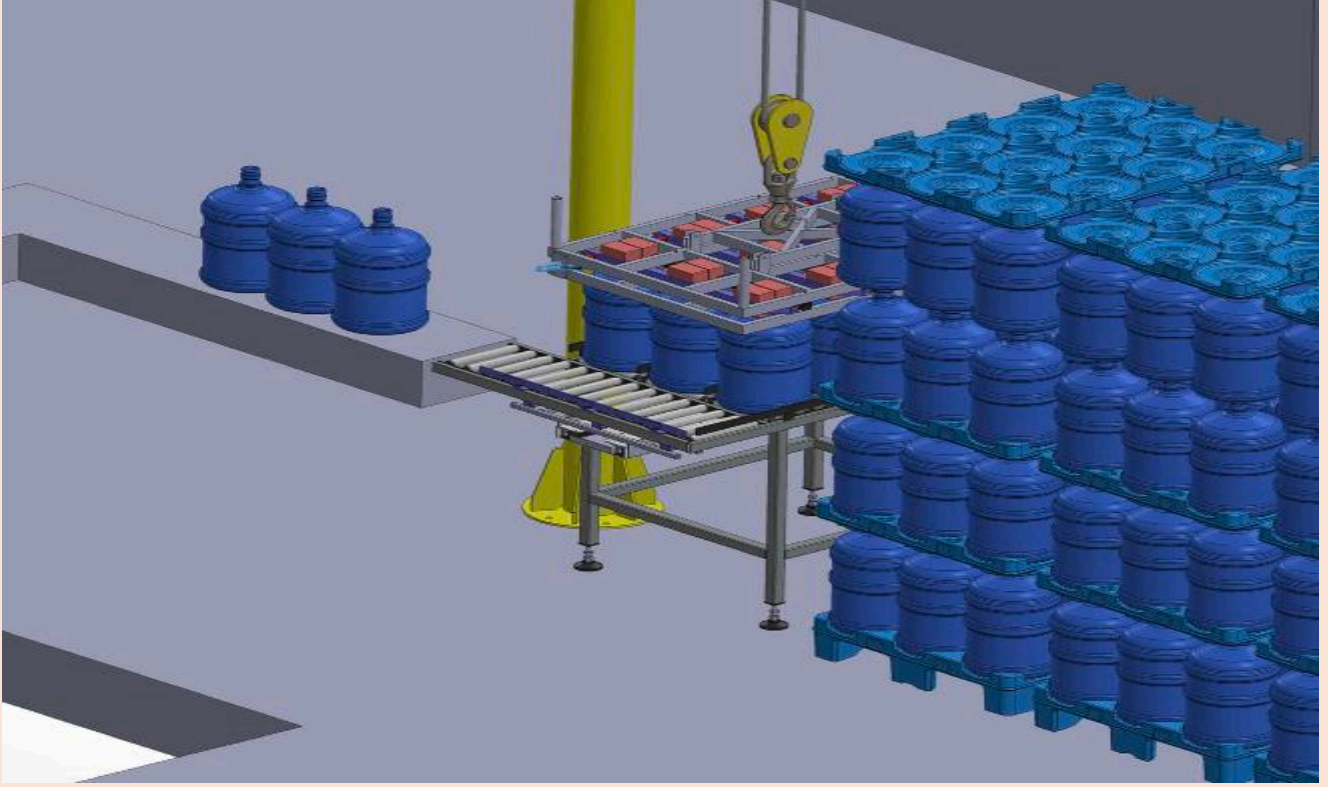
- There are two models available in dimensions of 100x120 and 80x120:
- Manufactured as double-walled using the rotation system
- Designed with a dynamic capacity of 1500 kg and static capacity of 3500 kg
- Available in options with or without runners
- Resistant to moisture, mold-free, easy to clean, and smooth in texture
- Recyclable and environmentally friendly
- Designed with a flat and textured surface for load stability
- The surface is uniformly flat without perforations to prevent floor dirt from transferring to the upper surface
- Equipped with barrier holders on the edges
- Holder teeth are placed on the bottom frame to prevent stretch film slipping
- Developed a top protection separator to safely stack two pallets placed on top of each other during storage. Two stacked pallets can be safely stored on top of each other.

COMPARISON CRITERIA	SEQUENTIAL PASTING	WOODEN PALLET	PLASTIC RACK	DAMACANA PALETi® CARBOY PALLETS
SYSTEM WEIGHT PER CARBOY (FOR 48 CARBOYS)	0.28 KG	1.14 KG	3.57 KG	0.78 KG
PALLET COST (FOR 48 CARBOYS)	18 \$	23 \$	550 \$	180 \$
1 YEAR STRETCH COST (FOR 1 TRUCK)	0	23.608 \$	0	0
NUMBER OF WATER CARBOYS A TRUCK CAN TRANSPORT (WEIGHT LIMIT: 28,000 KG)	1.397	1.339	1.200	1.368
SYSTEM WEIGHT INCLUDING ONE FULL WATER CARBOY	20.04 KG	20.9 KG	23.33 KG	20.46 KG
AMOUNT OF CARBOY THAT 1 TRUCK CAN CARRY DURING 1 YEAR (365 DAYS)	509.905	488.735	438.000	499.320
NUMBER OF TRIPS PER CARBOY PALLET	7,45 LESS TRIPS	2,7 LESS TRIPS	51 MORE TRIPS	-
ADDITIONAL TRIPS TRANSPORT COST ACCORDING TO THE CARBOY PALLET (400 KM = 480\$)	- 3.576 \$	+ 1.296 \$	+ 24.480 \$	-
WORKER COST (1 WORKER = \$700)	7 WORKER 58.800 \$	3 WORKER 25.200 \$	1 WORKER 8.400 \$	1 WORKER 8.400 \$
CARBOY LOSS PER 1 YEAR	4.079 (%0,08)	3.909 (%0,08)	438 (%0.01)	499 (%0.01)
COST OF LOSS CARBOYS (1 CARBOY = 4,1 \$)	16.723 \$	16.026 \$	1.795 \$	2,045 \$

OUR REFERENCES



THE BIGGEST INNOVATION IN THE BOTTLED WATER INDUSTRY



“

*YOUR EMPLOYEES ARE HAPPY
COMPANY IS SYTLISH
BUSINESS IS SAFE
AND YOUR PRODUCTS HAVE WARRANTY
BY OUR SOLUTIONS*

”



+90 535 826 02 00



sales@iqmuhendislik.com.tr



www.iqmuhendislik.com.tr

DAMACANA
PALETİ®
CARBOY PALLETS