

# Takestan

Packaging Glass

## Company Profile



51



**The First Producer of Light Weight Glass Containers in IRAN**

Takestan Packaging Glass was established in July 1996 with investments by the private sector. The company aims to meet Iran's need for light weight glass containers and to improve the quality of the country's food and beverage exports.

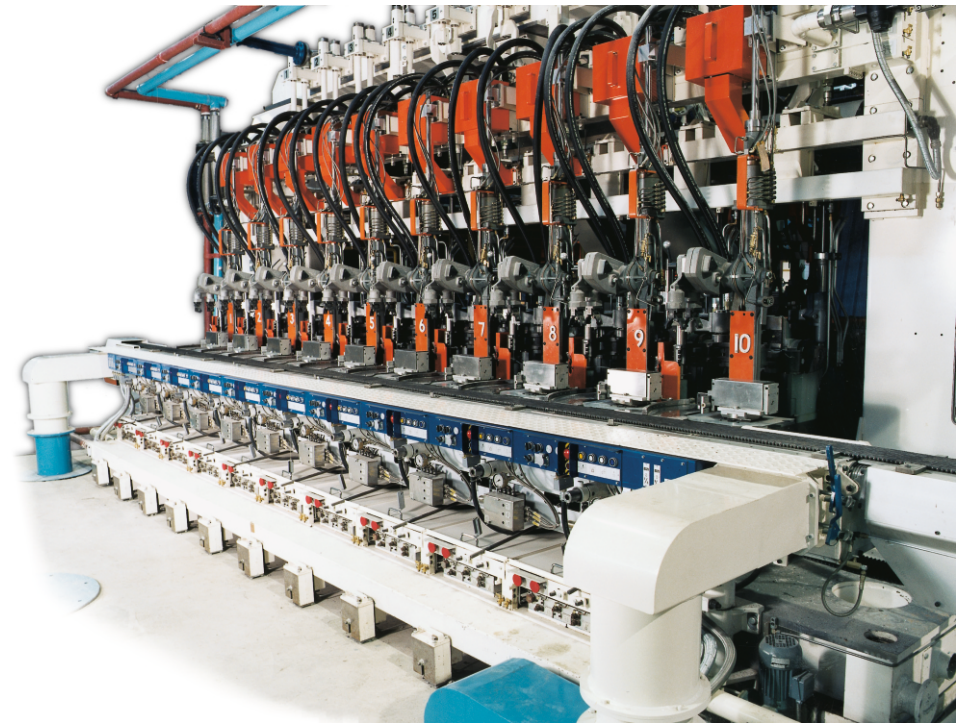
The factory, which includes the production hall, storage area, and administrative and service offices, was completed in November 2000. Located in suburb of the city of Takestan on a 60,000 square meter plot, the factory itself occupies 12,000 square meters of lands.

The machinery and equipment used in the factory employ state-of-the-art technology to manufacture glass

containers and the entire process, from batch making to the packaging of final product, is automated.

The melting furnace is an end-port type designed by Nikolaus Sorg GmbH of Germany. This furnace, with a nominal capacity of 180 t/d, has the capacity to pull 120 tons of molten glass daily and is equipped with modern monitoring systems. There are 3 production lines capable of producing 250 million containers per year collectively. There are two 10 section/double Gob I.S. machines and one 8 section/triple Gob I.S. machine, all made by Emhart Glass of Sweden. These machines, using the T600 VLAN control system, the Vertiflow system for cooling the molds, and a vacuum system, are capable of producing light weight glass containers.

Takestan Packaging Glass factory can manufacture all types of glass containers used in the food, pharmaceutical, chemical

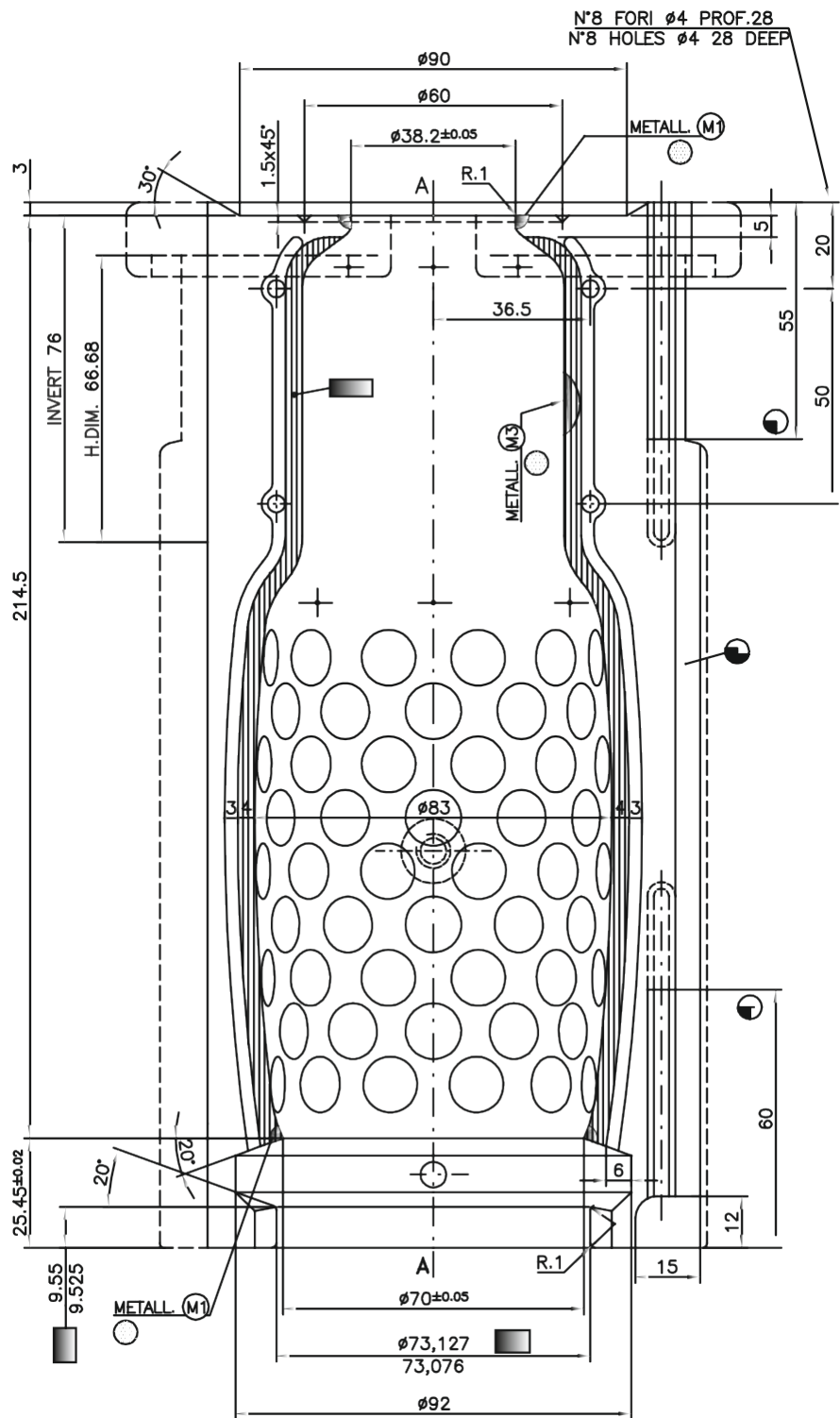


and hygienic industries. We specialize in producing lightweight glass containers, which facilitate the transportation and enhance the quality of the packaged products. Possible types of containers could be those used for fruit juices, mineral water, yogurt, milk, soft drinks, cooking oil, vinegar, jams, sauces, pickles, compotes, fruit concentrates, coffee, baby food, etc.

The production machinery was combined in a way to make the production of containers in various sizes and shapes possible. The glass type manufactured is of class III. The range of production

possibilities may summarize with regard to Volume, Weight, Height, diameter, and Opening as follows:

	Min	Max
Volume (cc)	8	1600
Weight (gr)	10	1000
Height (mm)	28	300
Diameter (mm)	10	150
Opening (mm)	Up to 83	



## Mould Production Unit

Behind Pooyan Sanat as a member of Raziglassgroup has Served as the leading group in the design and manufacturing of moulds and mould components for any kind of glass products Such as:

- Pharmaceutical Bottles
- Beer and beverages Bottles
- Jars and Packaging glasses
- Personal Care containers
- And ...

With ever increasing expertise, expertise BPS meets all the technical requirement of local and international Customers.

## Products

### Glass Specification

- Glass Type III
- Amber and Clear color
- All Shapes
- Standard or special neck Finish
- Surface Treatment

### Product Range

- Bottles for carbonated and non-carbonated beverages
- jars
- Pharmaceutical containers
- Chemical/technical bottles





## Treatment

### Hot End Coating:

The hot end surface treatment principle is based on the deposition of fumes of a chemical product on the surface of the glass ware. The coating product (TC100) is vaporized in a special hood and reacts on the hot surface of the glass to form a layer of tin tetrachloride.

The application of this layer improves the quality of the glass ware, namely:

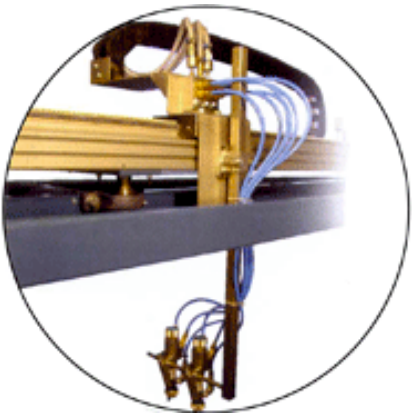
Increase of mechanical resistance against crashes

Increase of resistance to pressure up to 20%

Creation of couch on which can be sprayed the cold treatment product.

### Cold End Coating:

The cold end coating is applied after the annealing of the glass containers and used after hot end coating. This coating removes friction between containers and combines with hot end coating used for glass ware with strong loading, lightweight containers, table ware, jars and etc.



Benefits of hot end coating & cold end functional coating are as follows:

*For glass maker:*

- Higher production efficiency
- Faster production speed
- Reduced glass weight
- Low friction in container

*For Filler:*

- Increased lubricity
- Faster filling line speeds
- Increased scratch resistance
- Improved bottle performance
- Reduced breakage rates

### Trademark

The products of Takestan packaging glass have an emblem which is shown in the picture:



### Focus on Quality and Safety

We work with modern technologies and in accordance with the highest regulation of quality and product safety. Our production operations use highly developed monitoring and clean-room system which exploit the advantages of innovative technology in all processes right through to the outer delivery packaging.

Through the checking process by HI-TEC inspection machines, the defects of bottles are detected in three controlling processes as follows:

### Stage 1

By a modular multi-inspection vision machine which equipped with 5 matrix-array cameras used for image processing system, wide range of aspectual or dimensional defects of all bottles like Birdwing, Stone, Inclusion, Bubble, Blister and Lap are controlled.



### Stage 2

All finish defects as cracks, unfilled finishes, tightness, thick or oval ring using exterior and interior bore gauges, bent finish, and etc. are fully checked and controlled in this stage by our state of the art inspection machines.

### Stage 3

In order to complete the inspection of articles' bottom, another inspection machine is used to achieve a certain bottom



control. This machine detects faults as 2 bubbles, laps, stuck glass, stains, inclusions, etc. using a camera similar to the stage 1.



## Packaging

All the products are packed by fully automatic shrink-pack machines right after production. The packs are completely closed from all sides and without any permeability.

Then after, the shrink packs are loaded on the pallet upside down and finally are palletized as the final packing.

The wooden pallet dimensions that are used normally are 100×120 cm and 80×120 cm (Euro pallet) according to the order of the customer. The pallets are designed to be suitable for the de-palletizing machines as can enter the machine from both sides.



These efficient systems ensure that orders promptly reach the customers on time and will save time and resources, while providing us a clear competitive advantage.

## Certificates

Our Plants are certified in accordance with Quality Management of ISO 9001:2000 on 16<sup>th</sup> December 2002 and are oriented towards the GMP standards.

## Environmental Affairs

One of our main missions is to improve the environmental quality of our community by emphasizing on continuous efforts. Our ISO 14001 provides us practical tools to identify and control our environmental impact and constantly improve the environmental performance while the

OHSAS 18001 helps to control occupational health and safety risk of our personnel.



## Inventory and logistics

A well-designed Inventory management and shipping plan are our bottom-line implication for our business. Efficient warehouse storage space besides loading facilities has enabled us to create a sound logistics strategy through our ERP system which is supported by reliable transport methods.



Glass tells the plain truth . . .



[www.takglass.com](http://www.takglass.com)

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