

MORE THAN CAN
YOU IMAGINE



BAŞARAN
POLİÜRETAN 3

— Polyurethane Systems —



ABOUT US

In 1990, the company ventured into this industry with the production of **polyurethane** sports steering wheels. As of today, it manufactures polyurethane parts for furniture, automotive, medical, and amusement park sectors. Consisting of polyol and isocyanide components, polyurethane is a chemical that has a wide range of uses in many different sectors including insulation, automotive, medical and furniture industries for its flexible and durable structure.

The polyurethane foams we use are rigid, semi-rigid (integral-elastomer) and flexible (sponge) depending on the properties of the **POLYOL SYSTEM** and **IZOSIANIATIN** used. Foam formation is chemically the same, but the usage areas vary since the foam properties are different.

The polyurethane raw materials we use:

- ISO 9001 and ISO 14001 certified.
- Do not contain environmentally harmful CFCs.
- Non-combustible materials in accordance with MVSS-302 non-flammability norm.





Our Values

Our most significant values are to consider the customer's perspective, not to compromise on quality, to direct our service with a sense of responsibility, and to be a part of the solution, not the problem.

- **Innovation, openness to change**
- **Work ethics, honesty**
- **Respect for the environment**
- **Lean management**
- **Effective and correct institutionalization**
- **Lean production**
- **Partner satisfaction**
- **Teamwork**
- **Diligence and success**
- **Productivity**
- **Localization**
- **Lean Production**
- **Emphasis on employee satisfaction and loyalty**



Our Mission

As a leading brand in polyurethane systems, to be an organization expanding its exports, working with zero error, meeting the expectations of its customers and partners without harming the environment and glorifying its human resources.



Our Vision

To make strategic planning by anticipating the expectations of our customers in polyurethane systems. To continuously improve our working order based on the principles of openness to change, innovation, encouraging success, superior business ethics, and honesty. To grow by applying lean management and lean production methods in a continuously developing corporate structure. To continue to cooperate with our sub-industry in order to increase the proportion of domestic materials in our products. To avoid harming the environment and nature and to fulfill the requirements of ISO 14001.

High Pressure **MACHINES**



PREMIUM SERIES



ECO SERIES



PREMIUM SERIES

"More Than You Can Imagine"



Flowmetre

Thanks to the high-tech flowmeters used in our "BH-Series" machines, casting accuracy is reduced to 1%.



Unparalleled Mobility

You can easily give the casting head the angle that best suits your process in any position, vertical or horizontal. 0° / +90° degree tilt angle



Magnetic Coupling

One of the biggest advantages of the magnetic coupling pump is that it does not need a sealing element. Thus, wearing out of sealing equipment, which is frequently encountered in pump failures, is out of the question. It minimizes your maintenance costs.



Self-Cleanable Filter

The fluid enters the body and passes through the filtering element. The sediments remain outside the filtering element and are collected here. The filter can be cleaned without stopping the flow thanks to special rotating blades. The blades remove the sediments that do not pass through the filter element during rotation and these sediments settle to the bottom of the filter body. These sediments are periodically discharged from the filter bottom manually or automatically.

BH 40 | 80 | 100 | 200 | 300 PR Series

Başaran "BH Series" is designed to meet the demands of the user quickly and easily. It offers you high quality standards, reliability and efficient production possibilities with low initial investment cost.



Specifications

- 250 liter walled, level controlled, insulated raw material tanks with wall heating and automatic filling system
- Flow distributors (Directional valve)
- Knife type self-cleaning raw material filters (Self Cleaning Filter)
- Digital pressure gauges
- Flowmeter
- Magnetic Coupling
- Başaran L-type mixing head
- Frequency-controlled motors for automatic output and ratio adjustment
- 99 Separately nameable casting programs
- Fixed displacement high pressure pumps
- 10" touch HMI panel on main panel, 3.5" operator panel on casting head
- Ability to calibrate each component directly from the mixing head



Advantages

- Easy installation and maintenance thanks to its compact design.
- Eliminates the use of solvents and harmful chemicals.
- Customizable configurations
- Correct dosing
- Ability to monitor and intervene in the entire casting process from the screen.

PREMIUM SERIES

	BH	40	80	100	200	300
TECHNICAL SPECIFICATIONS - PREMIUM SERIES	Casting Capacity (g/s) 1:1 ratio	50 g/s - 450 g/s	160 g/s - 1000 g/s	250 g/s - 2000 g/s	500 g/s - 4000 g/s	600 g/s - 5500 g/s
	Raw Material Tanks	2 x 250 Liters	2 x 250 Liters	2 x 250 Liters	2 x 250 Liters	2 x 250 Liters
	Power Consumption (kW)	22	28	42	61	78
	Viscosity (mPas)	20 - 2.000 mPas	20 - 2.000 mPas	20 - 2.000 mPas	20 - 2.000 mPas	20 - 2.000 mPas
	Total Weight (kg)	800	850	1400	1500	1600
	Casting Head	BHM - 10	BHM - 14	BHM - 14	BHM - 26	BHM - 26
	Chassis Dimensions (mm)	1800 x 2400 mm	1800 x 2400 mm	2000 x 2800 mm	2400 x 3200 mm	2400 x 3200 mm
	Air Consumption (NI/Cast)	80	80	80	80	80
	Hydraulic Oil Tank	50 Liters	50 Liters	50 Liters	70 Liters	70 Liters

BH SERIES

	EQUIPMENT LIST	PREMIUM SERIES	EKO SERIES
CASTING TECHNOLOGIES	Magnetic Coupling	✓	○
	Gear Type Flowmeter	✓	○
	Self Cleaning Filter	✓	○
	Flow Distributors (Directional Valve)	✓	○
RAW MATERIAL TANKS	150 Liters Raw Material Tank	○	✓
	250 Liters Raw Material Tank	✓	○
	500 Liters Raw Material Tank	○	○
	Raw Material Temperature Control	✓	✓
	System Tank Insulation	✓	✓
	Agitator (Pol Side)	✓	✓
	Mixer (Iso Side)	○	○
	Chiller (Material Cooling Unit)	○	○
FUNCTIONAL EQUIPMENT	Position adjustable casting head	✓	○
	10" Touch Operator Panel	✓	○
	Drum Transfer Pump	✓	○
	Balancer or pneumatic piston on the boom	○	○
	Remote Access	✓	○

✓ It is included in the package as standard.

○ Optional Equipment



ECO SERIES

"Go Beyond Imagination"

BH 40 | 80 | 100 | 200 | 300 ECO Series



Flow Distributor

In case of low-pressure by-pass, the material is delivered to the tank in a short way by turning the material through these valves instead of the casting head. This prevents thinning of the material by reducing friction and also prevents friction-induced heating.



L Type Mixing Head

You can have a homogeneous mixture with the compact design 2-component, double piston L-type mixing head that you can use in all polyurethane casting applications.



Dual Operator Panel

With two 3.5" and 7" touch screens on the machine control panel and casting head, you can monitor the entire casting process.



Sealing System

Raw material tanks with a capacity of 150 liters with all precautions taken regarding sealing, self-resisting, automatic filling with insulation that prevents sweating and heat loss



Specifications

- 150 liter walled, level controlled, insulated raw material tanks with wall heating and automatic filling system
- Flow distributors (Directional valve)
- Pump protection filters
- Pressure gauges
- Başaran L-type mixing head
- Frequency-controlled motors for automatic output and ratio adjustment
- 99 Separately nameable casting programs
- Fixed displacement high pressure pumps
- 7" touch HMI panel on main panel, 3.5" operator panel on casting head
- Ability to calibrate each component directly from the mixing head



Advantages

- Plug and Run
- Correct dosing
- Space saving with compact design
- Excellent accessibility to all machine parts
- Easy maintenance and cleaning
- Customizable configurations

ECO SERIES

TECHNICAL SPECIFICATIONS - ECO SERIES	BH	40	80	100	200	300
	Casting Capacity (g/s) 1:1 ratio		50 g/s - 450 g/s	160 g/s - 1000 g/s	250 g/s - 2000 g/s	500 g/s - 4000 g/s
Raw Material Tanks		2 x 150 Liters	2 x 150 Liters	2 x 150 Liters	2 x 150 Liters	2 x 150 Liters
Power Consumption (kW)		22	28	42	61	78
Viscosity (mPas)		20 - 2.000 mPas	20 - 2.000 mPas	20 - 2.000 mPas	20 - 2.000 mPas	20 - 2.000 mPas
Total Weight (kg)		600	800	900	1100	1200
Casting Head		BHM - 10	BHM - 14	BHM - 18	BHM - 26	BHM - 26
Chassis Dimensions (mm)		1200 x 1800 mm	1200 x 1800 mm	1200 x 1800 mm	1200 x 1800 mm	1200 x 1800 mm
Air Consumption (NI/Cast)		80	80	80	80	80
Hydraulic Oil Tank		50 Liters	50 Liters	50 Liters	70 Liters	70 Liters

HIGH-PRESSURE MIXING HEADS

With high-pressure heads, the pressure of 100-200 bars reached in the mixing chamber allows the two components to impinge on each other as particles (impingement mixing) and mix thoroughly. Thus, no separate mechanical mixer or solvent cleaning of the mixing chamber is required. Mixing is much more homogeneous and production is much more rapid.



BHM 14 Mixing Head



BHM 18 Mixing Head



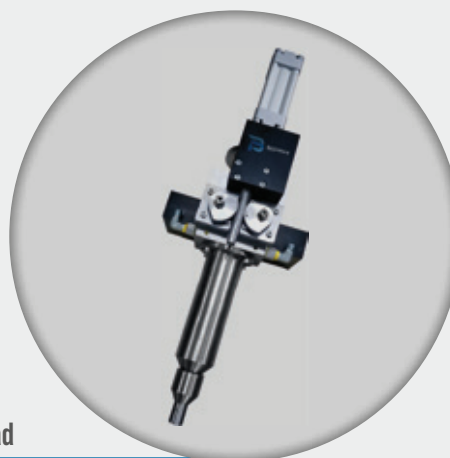
BHM 26 Mixing Head

LOW-PRESSURE MIXING HEADS

Since the mixing process is not sufficient in low pressure heads, the mixing chamber is equipped with a mechanical mixer to support this process. After the casting process, the mixing chamber is cleaned from raw material residues by washing with cleaning chemicals.



BLM - Monomix Mixing Head



BLM - 60 Mixing Head

Low Pressure **MACHINES**



B60



B15



B7

B 7 | 15 | 60 | 100

The low-pressure polyurethane machine is a more conventional method compared to high pressure polyurethane machines. In some processes, the chemical requires prolonged mixing, or some chemicals may not be suitable for high pressure. Under these circumstances, low pressure polyurethane machines are preferred.



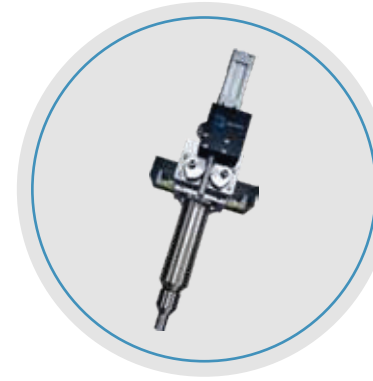
Specifications

- 150 lt jacketed insulated tanks with level control and automatic filling
- Heat exchangers and electric heating cartridges in the tank jacket
- 15 Liters level controlled stainless steel cleaning chemical tank
- Pour prevention system when the cleaning chemical runs out
- Pressure gauges
- Digital voltage indicators
- Frequency-controlled motors for automatic output and ratio adjustment
- Fixed displacement gear pumps
- Touch screen operator panel
- Components can be calibrated separately from the mixing head



Advantages

- Plug and Run
- Correct dosing
- Space saving with compact design
- Excellent accessibility to all machine parts
- Easy maintenance and cleaning
- Customizable configurations



BLM Casting Head

Our low pressure casting heads, all of which are our own production, perform the mixing process with a dynamic mixer. You can obtain homogeneous mixtures with the mixer selected according to your casting processes.



Başaran Gear Pump

Regardless of pressure variations, the gear pumps ensure a constant flow rate. With our proprietary compact design and minimal internal leakage, they operate at high efficiency.



Solvent Tank

15 liters level-controlled stainless steel solvent tank and warning system when the cleaning chemical runs out



Mixer

Different types of mixer options according to your casting process

TECHNICAL SPECIFICATIONS - B SERIES

	B	7	15	60	100
Casting Capacity (g/s) 1:1 ratio		10 g/s - 35 g/s	25 g/s - 60 g/s	120 g/s - 500 g/s	150 g/s - 1000 g/s
Raw Material Tanks		2 x 40 Liters	2 x 40 Liters	2 x 150 Liters	2 x 250 Liters
Power Consumption (kW)		4	6	8	15
Viscosity (mPas)		20 - 2.500 mPas	20 - 2.500 mPas	20 - 2.500 mPas	20 - 2.500 mPas
Total Weight (kg)		750	750	900	1000
Casting Head		BLM - Monomix	BLM - Monomix	BLM - 60	BLM - 60
Chassis Dimensions (mm)		1200 x 1100 mm	1200 x 1100 mm	1200 x 1300 mm	1200 x 1300 mm
Air Consumption (NI/Cast)		120	120	120	120

AREAS OF USE



MEDICAL EQUIPMENT

Medical pillows produced with polyurethane foam offer superior comfort features to the patient during the operation thanks to the flexibility and antibacterial properties of polyurethane, while at the same time providing sterilization of the environment.



SANDWICH PANELS

Rigid Polyurethane foams are the best insulation material preferred in sandwich panel applications in the construction industry with their high insulation efficiency and high resistance to sound, moisture, and water.



OFFICE FURNITURE

The seats produced with polyurethane foam easily take the shape of the body with the resilient feature of polyurethane and increase comfort while protecting the spine health of the people by ensuring that the sitting area, waist, and neck support is in harmony with the body during the day.



AUTOMOTIVE SECTOR

Flexible sponge and integral polyurethane systems used in areas such as seats, steering wheels, front consoles and sound insulation provide the sector with products that maintain their hardness, shape and flexibility, which provide protection against engine heat and noise as well as their lightweight structure and superior performance even in years of intensive use.



DEFENSE INDUSTRY

Integral polyurethane, which maintains its hardness and flexibility with superior performance in applications where low weight and high impact resistance are required, plays a very wide role in the defense industry.



PIPE INSULATION

Polyurethane systems used in the insulation of pipes for district heating-cooling, underground and above ground steam transfers, geothermal energy, liquefied gases, fire lines, crude oil and all chemical fluids.

CUSTOMER SERVICES



TECHNICAL SUPPORT

In case of any malfunction that may occur in the machine and requires intervention, our technical team intervenes as soon as possible. User manuals containing sufficient information on the use of our machines or lines are provided to the customer.



REMOTE ACCESS

With Remote Access, our experienced staff can access the equipment remotely and detect problems. In case of any malfunction in the machines, technical support is provided as soon as possible by our equipped personnel via remote access.



INSTALLATION MACHINE FACILITY

The installation, commissioning, and preparation of our machines and facilities, which are entirely of our own manufacture, are completed by our well-equipped personnel at the customer's production facilities. Necessary training programs on the use of these machines and facilities are also provided.



SPARE PARTS SUPPLY

Depending on the use of the machine, the equipment that completes its service life over time can always be supplied as spare parts from our company.



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