



## WATER MANAGEMENT IN DENIM: INNOVATIONS SHAPING THE FUTURE

**Denim is not just a fabric; it is a universal design language that is part of the daily lives of millions of people.**

Behind this powerful story lies the critical role of water. The textile industry accounts for nearly 20% of global industrial water use, with denim production standing out due to its intensive water requirements, particularly in dyeing and washing processes. In denim manufacturing, water is not merely a resource but also a driver of innovation and a cornerstone of sustainability. Consequently, water management is emerging as one of the most powerful tools shaping the future of denim.

When used efficiently, recovered through circular processes, and managed with the right technologies, water becomes a cornerstone of the industry's sustainability journey. Today, water management in denim is not only an environmental approach but also an innovative vision that is shaping the future.



As EROGLU GARMENT,

We do not regard water merely as a production input, but as an investment in the future of denim manufacturing. We design all our washing processes based on the principles of resource efficiency and circular use, prioritizing methods that enable water recovery, minimize waste, and optimize chemical usage.

This approach not only enables us to fulfill our environmental responsibility, but also enhances our production processes by making them more efficient, innovative, and transparent. Through the investments we make and the innovative technologies we develop, it allows us to deliver sustainable value to our customers.



## OUR INNOVATIONS AND SOLUTIONS IN DENIM



As Eroğlu Garment, we maximize the advantages offered by ozone technology in our denim washing processes. Through the Ozone Washing System, we reduce water consumption by up to 65% compared to conventional methods. This technology replaces water with ozone gas during washing, resulting in significant savings. In this way, we contribute to preserving thousands of liters of water in every washing cycle. The efficient management of water resources is not only an investment for today, but also the most valuable commitment to safeguarding the lives of future generations.





In our washing department, our specially engineered drum system ensures continuous recirculation of water within the drum. Thanks to its special design, the drum moves water naturally without the need for pumps, thereby preventing additional energy consumption and water loss. During drum rotations, our system enables water circulation of up to 120,000 liters per hour, while allowing us to reduce water use by approximately 25% per kilogram of product. With this investment, we make our production both efficient and environmentally friendly.



With our next-generation washing systems that create natural effects on denim surfaces, we take water conservation and sustainability one step further. Through the pumpless recirculation system, water is continuously circulated within the drum, while the specially designed corrugated drum surface provides mechanical texturizing effects on denim fabric. This innovative design enables a 15% reduction in processing time, a 30% increase in loading capacity, and a reduction in chemical use.

With this investment, we are able to conserve approximately 50,000 liters of water per day—equivalent to the daily water use of around 250 people. In this way, we make our production not only more efficient but also more sustainable.

Our advanced dyeing systems not only ensure high performance but also drive meaningful improvements in environmentally responsible efficiency. Thanks to the pumpless water circulation and optimized process system, we are able to treat the same volume of products with substantially less water. Compared to conventional machines, this technology achieves up to 70% water savings, while its high centrifuge power significantly reduces both washing and extraction times. In this way, we enhance production efficiency and contribute to the preservation of natural resources.

**AS EROGLU GARMENT, WE CONSERVE RESOURCES AND  
CREATE VALUE FOR THE FUTURE.**