

**Bystronic**

# expertise in waterjet cutting

## **ByJet Classic L**

The affordable, reliable, and precise waterjet cutting system for a maximum application spectrum



# ByJet Classic L – big, affordable, reliable, and precise

A waterproof investment! The ByJet Classic L waterjet cutting system was developed for all users who would also like to process XXL formats easily and without problems and who at the same time place value on an attractive price. The ByJet Classic L impresses with maximum reliability and extremely flexible processing of various shapes and sizes with a nearly unlimited variety of materials.

## Big

Thanks to the large working area, with the ByJet Classic L even XXL formats can be processed simply and without difficulty.

## Reliable

The ByJet Classic L provides the highest process reliability over the long term. This is ensured by the tried and tested and perfectly matched system.

## Affordable

The ByJet Classic L offers high earnings for a limited investment volume. This means that even with a reduced workload, a short amortization time is guaranteed.

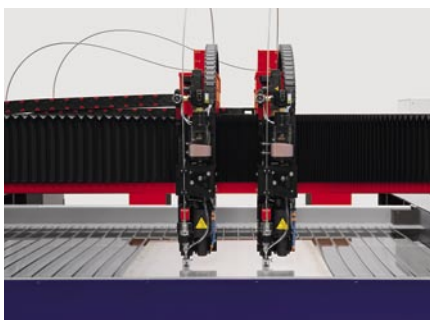
## Precise

Thanks to Bystronic's high-quality machine construction and the innovative control and drive technology, coupled with many years of applications experience, lasting top-quality cutting results are achieved.



ByJet Classic L 6030

This brochure may show parts that are not standard equipment, but are available as options. For the better visibility of machine details, some safety covers may have been opened or removed for these pictures. The right to make changes to dimensions, construction, and equipment is reserved. For technical data, see the separate data sheet.



### Cutting tool

Minimal distances between the cutting heads enable the economical cutting of even the smallest parts. Due to the unique machine concept, even a system with two cutting heads allows processing of the whole cutting range with the first cutting head. Functional elements such as CNC-controlled cutting sand dosing, sand-flow monitoring, nozzle distance regulation, collision monitoring, drill axis, and much more enable a precise cut even in lightly-manned operation.



### HD pump: ByPump Active

Two individually driven pressure intensifiers regulated by a microprocessor guarantee constant, linear, and infinitely adjustable pressure. There is no need for an accumulator that would be subject to regular inspection. The intelligent and extensive diagnostic system also ensures fast and efficient maintenance and trouble-free operation of the pump for many years. For material thicknesses above 150 mm, a ByPump Ultra respectively a ByPump Ultra+ with over 5000 cutting pressure is recommended.



### ByVision high-performance control

The Bystronic high-performance control ByVision ensures easy, fast, and complete control of the system. Numerous processes such as engraving and nozzle calibration can be automated. Simple operation using a touch screen with context-sensitive online help. Parameters such as cutting speed, pressure, and quantity of the cutting sand are infinitely adjustable and are continuously adapted to the material and the shape of the contour path. The redesigned manual control unit enables fast and easy setup operation.

## Customer benefits

### Increase in economical efficiency

- Good access to the working area from three sides
- Automatic execution and control of many processes using the simple-to-operate ByVision high performance control package
- Facility to subdivide the cutting area

### Long-lasting high precision

- A constant, infinitely adjustable pressure signal without the need for an accumulator that would be subject to inspection
- Precisely regulated abrasive sand feeding and dosing
- Extremely accurate regulation of the nozzle distance

### Maximum reliability

- All key components (machine, pump, CNC controller, software) were developed in house by Bystronic and are perfectly matched to one another
- With Bysoft and ByVision, Bystronic offers a high-performance CAD/CAM programming package as well as state-of-the-art CNC control

### Large spectrum of parts

- Processing of large and special formats
- Simultaneous processing of two large format sheets with dual-head operation

## Variants & Options

- Second cutting tool
- CNC-controlled, automatic cutting head distance setting
- Up to two drill spindles
- Automatic sludge removal system
- Various cutting grates
- Attachment for the cutting sand hopper reservoir for the use of so-called big bags
- Cutting area subdivision
- Working area available in various lengths
- Automatic control of the water level



Bystronic is a worldwide active supplier of application-oriented systems and services for the laser and waterjet cutting processes, as well as bending: economical, high-performance, reliable.

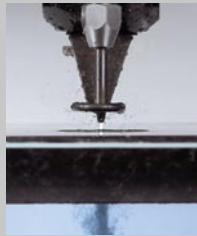
## Best choice.



**Laser cutting**  
Laser cutting systems for the innovative processing of a wide variety of materials and geometries



**Bending**  
3-point and air bending machines for high-precision working of sheet metals



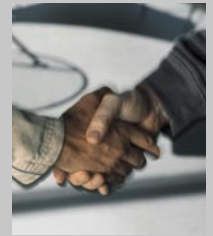
**Waterjet cutting**  
Waterjet cutting systems for cutting metals, glass, synthetics, ceramic, and many other materials



**Automation**  
High-performance handling and automation solutions from simple loading systems to fully automated laser production cell with integrated storage system



**Software & Control**  
User-friendly programming and operation with requirement-oriented application programs and interfaces to CAD and ERP systems



**Service & Support**  
Competence and customer proximity with after-sales support available worldwide: local contact persons, prompt delivery of spare parts, and professional training courses

## Your contact

[bystronic.com](http://bystronic.com)