

**Bystronic**

expertise in  
waterjet cutting

**ByJet Classic**

The affordable, highly functional,  
and precise waterjet cutting system  
for all standard applications



# ByJet Classic – affordable, highly functional, precise

A waterproof investment! The ByJet Classic waterjet cutting system was developed for users who expect high functionality and precise cutting results and, at the same time, value an attractive price. Also impressive is ByJet Classic's extremely flexible processing of various shapes with a nearly unlimited range of materials.

## Affordable

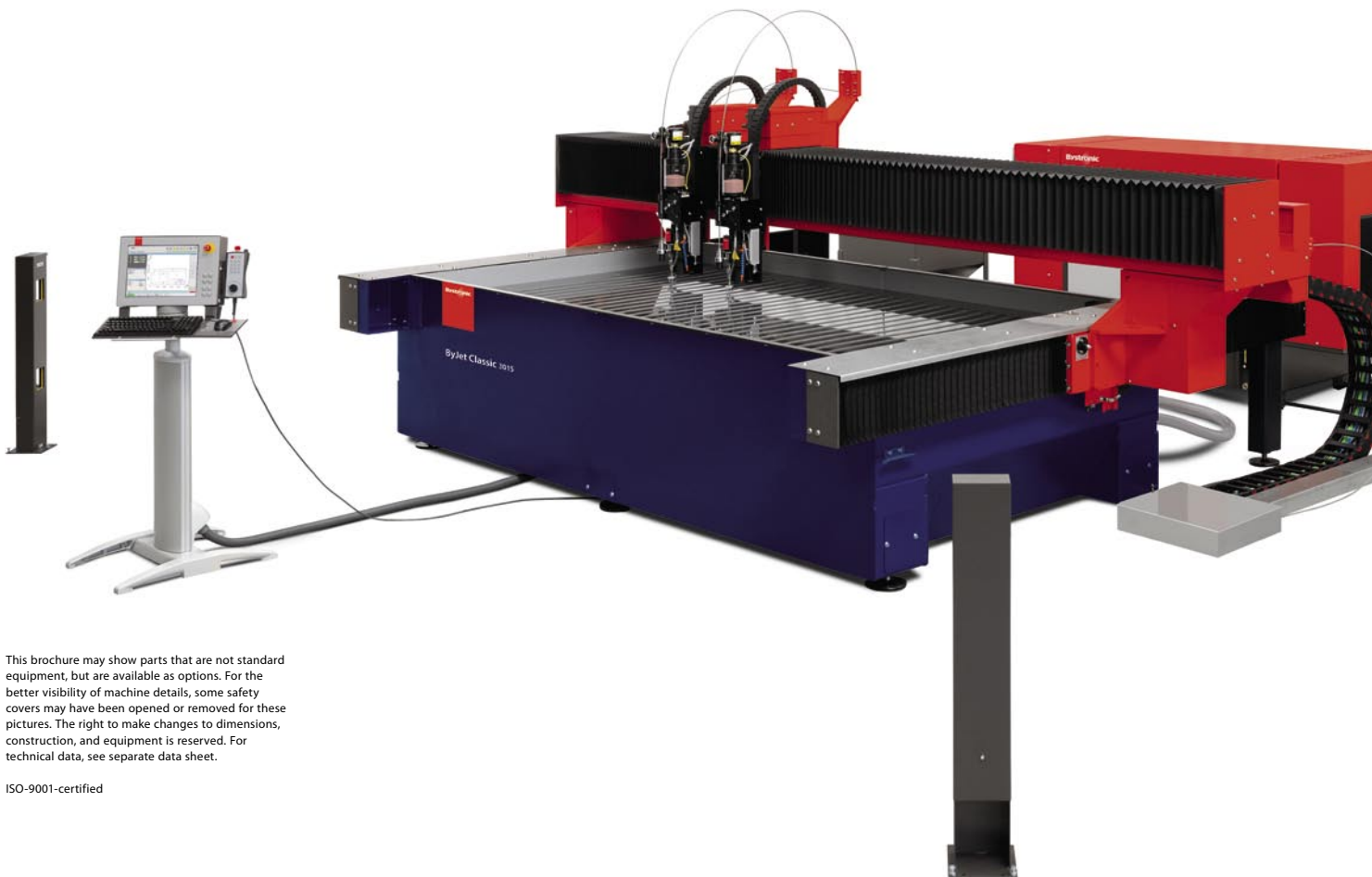
The ByJet Classic offers a high yield with a limited investment volume. This ensures a short amortization period even with reduced utilization.

## Precise

ByJet systems are extremely durable and provide lasting precision. This is ensured by high-quality machine manufacturing, perfect tuning of the individual components, and mastery of the overall process.

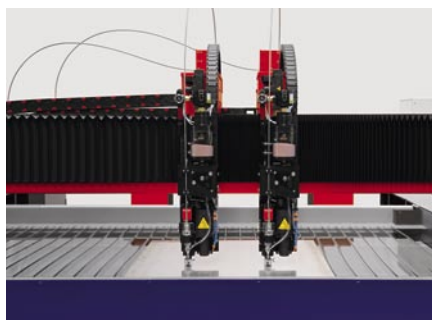
## Highly functional

High functionality is the result of the utilization of proven components and innovative technology. The user is especially well-equipped for standard applications, even in multi-shift operation.



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 separate data sheet.

ISO-9001-certified



### 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

- High positioning and cutting speeds combined with great dynamics of the axis achieve the most economical cutting results
- The automatic adjustment of the cutting head distance rationalizes work with the machine because cutting heads can be switched on individually
- The cutting sand is fed into the CNC-controlled cutting head and it is therefore dosed precisely
- The automatic sand-flow monitoring supports lightly-manned operation
- The permanent regulation of the nozzle distance and the integrated collision protection guarantee an extremely economical, safe, and high-quality cutting process
- Thanks to a CNC-controlled drill spindle, expensive fiber composite and other materials can be predrilled; this effectively prevents delamination
- Simple and varied restart possibilities for the cutting process after an interruption
- Close integration into the operational production process thanks to the Bysoft CAD/CAM programming system

## 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



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.

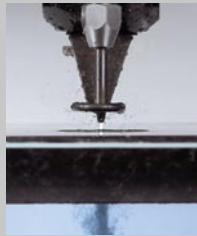
## Best choice.



**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



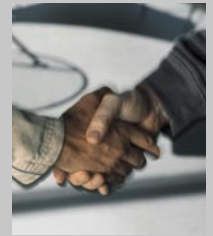
**Waterjet cutting**  
Waterjet cutting systems for cutting metals, glass, synthetics, ceramic, and many other materials



**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)