

Bystronic

expertise in waterjet cutting

ByJet Pro L

The productive and precise waterjet cutting system for small and big parts



ByJet Pro L – productive, multifunctional, precise and big

Waterjet cutting systems of the ByJet Pro L product series are flexible in the processing of a wide variety of shapes and a nearly unlimited variety of materials. Cutting is very precise. The modular design enables cutting of the smallest as well as the largest and heaviest parts. Up to four cutting heads and separate cutting zones result in the highest productivity and economic efficiency.

Productive

Four cutting heads and a unique concept consisting of separate cutting zones and material handling using exchangeable cassettes mean that up to five times as many parts can be produced in the same amount of time. Thanks to separate cutting zones, cutting as well as material loading and unloading can be accomplished at the same time.

Multifunctional

Tailored precisely to suit the customer's specific production requirements. From single-item production to large batch size, from small to large parts, all orders can be produced cost-efficiently, and this throughout a nearly unlimited range of materials.

Precise

Long service life and lasting precision are ensured by high-quality machine construction, perfect matching of the individual components and total control of the entire process.

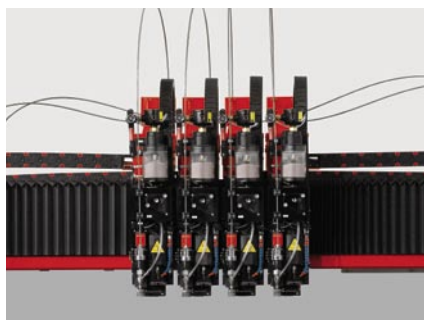
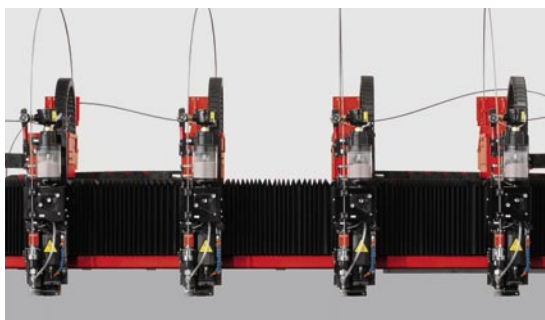
Big

Cutting with no limits. With a working area up to 16 meters in length, it can load 38 tons of material and can cut up to 7.7-meter-long tubes with the optional rotary axis. The removable cassettes allow immediate access to the cutting tank for special jobs.



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 bridges with up to four cutting carriages

Up to four fully automated, CNC-controlled and monitored cutting carriages ensure short throughput times and a significant increase in productivity with the highest quality. Minimal distances between the cutting heads enable the economical cutting of even the smallest parts. The automatic adjustment of the cutting head distance rationalizes work with the machine, because cutting heads can be switched on individually. Due to the unique machine concept, even a system with four cutting carriages allows processing of the whole cutting range with the first cutting head. Each cutting carriage is equipped with an individual abrasive feeder unit, through which the cutting sand is CNC-controlled and fed into the cutting head and therefore precisely metered. Thanks to the automatic sand-flow monitoring, a lightly manned operation is made possible.

Exchangeable cassette

The material support grid is divided in separate, 2x3 meter cassettes which allow, together with the lifting equipment, easy unloading of parts, and gives a better accessibility to the cutting tank. Secure fixturing of materials using a mechanical clamping system permits the production of high-precision parts.

Customer benefits

- A flexible safety system provides full accessibility to three sides of the cutting table.
- High positioning and cutting speeds combined with great dynamics of the axis achieve the most economical cutting results.
- A constant, linear and infinitely adjustable pressure signal, a precisely regulated abrasive feeder and permanent nozzle distance regulation guarantee very economical and high-quality cutting processes.
- The ByVision high-performance control ensures easy, quick 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.
- Simple and varied restart possibilities.
- Close integration with the Bysoft CAD/CAM programming system.

Variants & Options

- Working areas from 2x3 m up to 16x3 m
- Up to four cutting heads
- Up to four drill spindles
- Additional HP pumps
- CNC-controlled rotary axis with tailstock
- Separate cutting zones
- Steady rest for processing long tubes
- Automatic sludge removal system
- Automatic water level control
- Various material support grates
- Additional cassettes



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.

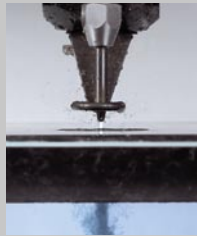
Best choice.



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



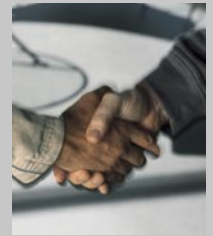
Waterjet cutting
Waterjet cutting systems for cutting metals, glass, synthetics, ceramic, and many other materials



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