

WATERJET MACHINES



SERIES: PP - B

PRECISION CUTTING

ATMSolutions waterjet machines combine high quality, precision, and processing efficiency. Equipped with industrial CNC control, a work area customized to the customer's needs, and specialized equipment, they ensure the most effective water cutting.



OPERATIONAL RELIABILITY

Precise cutting and smooth edges are the result of the high-precision motion of the cutting head, ensured by top-quality components, including servo drives and linear guides. The integrated, user-friendly CAD/CAM system allows for compatibility with various file formats, enables project creation directly in the control software, and facilitates the execution of complex geometric details without the need for an external computer.



MATERIAL VERSATILITY

The versatility of waterjet machines is confirmed by their ability to cut a wide range of materials, including steel, titanium, dibond, aluminum, and natural stone. Additionally, waterjet machines excel in processing brittle materials like glass and ceramics, various types of composites, and, due to the option to cut without abrasive agents, soft materials such as plastics, sponges, foams, and even food products.



Waterjet machines are versatile, multi-task industrial machines highly valued for their ability to process challenging materials of various thicknesses without requiring tool changes.

WaterJet machines

PP SERIES

ATMS Water Jet	0505-PP	1010-PP	1515-PP	1520-PP	2020-PP	1530-PP	2040-PP
Working area X, Y [mm]	500x500	1000x1000	1500x1500	1500x2000	2000x2000	1500x3000	2000x4000
Structure type	Single-arm						
Height adjustment Z [mm]	200 (optionally 300, 400, or more)						
Program resolution [mm]	up to 0.001						
Maximum cutting thickness [mm]	up to 200						
Traverse speed X, Y [m/min]	up to 40						
Maximum pressure [MPa]	410						
Optimal working pressure [MPa]	60-360						
Nominal power	37kW, 400V/50Hz						
Servo drives	Yaskawa / Mitsubishi						
PLC controllers	Siemens / Mitsubishi						
Water treatment system	YES						
Water filters	5µm, 1µm, 0.5µm						
Abrasive supply system	Automatic 100kg Option: 200kg/1t						
Oil cooling	Fan-cooled						
Control	Workstation with PC and installed software						
Interface	USB						
File formats	G-code, DXF, NCE, NC, CNC						

ATMSolutions also offers custom machine configurations tailored to the client's needs.
Final operating parameters depend on the chosen machine configuration.

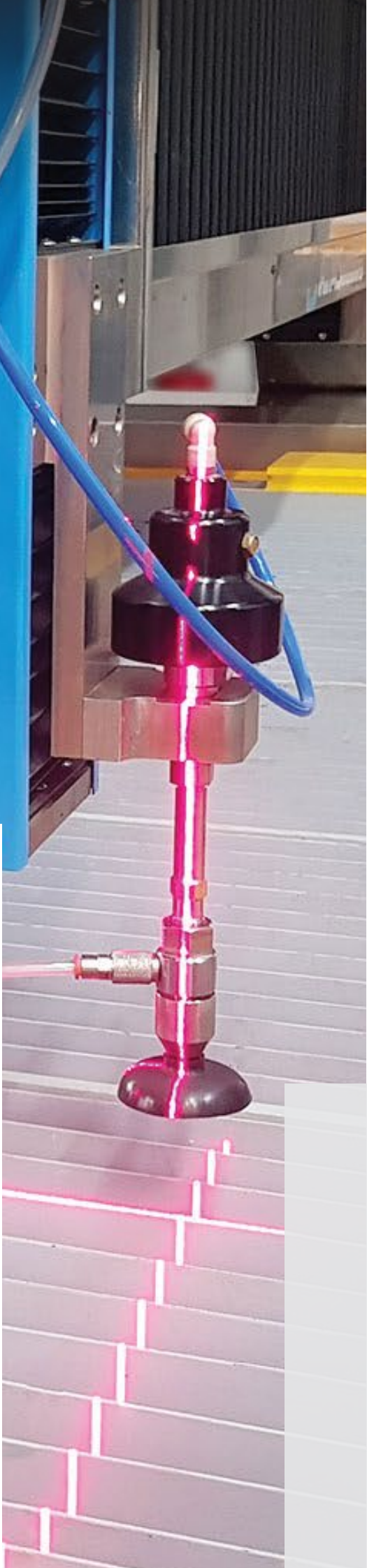
MOST POPULAR MODIFICATIONS AND ACCESSORIES

Working area from 500x500 mm to 8000x16000 mm | Extension of Z-axis range | 5-axis head 8° | 5-axis head 45° | 5-axis head 60° | Automatic height tracking system | Laser positioning system | Automatic abrasive supply system (200kg) | Automatic abrasive supply system (1t) | Abrasive removal system from the tank | Water level control system in the tank | Water cooling system | Oil cooler | Automatic loading and unloading system | Additional cutting head | One-year spare parts package | Portable controller | Custom waterjet cutter with non-standard parameters



PP SERIES

The PP Series is based on a crossbeam structure supported at a single point. Its single-arm gantry with counterweight allows for quick loading and unloading of any material to be processed on the machine.



WaterJet machines

B SERIES

ATMS Water Jet	1010-B	2020-B	2040-B	2060-B	3015-B	3020-B	3060-B	4080-B
Working area X, Y [mm]	1000x1000	2000x2000	2000x4000	2000x6000	3000x1500	3000x2000	3000x6000	4000x8000
Structure type	Gantry							
Height adjustment Z [mm]	200							
Program resolution [mm]	up to 0.001							
Maximum cutting thickness [mm]	up to 200							
Traverse speed X, Y [m/min]	up to 40							
Maximum pressure [MPa]	410							
Optimal working pressure [MPa]	60-360							
Nominal power	37kW, 400V/50Hz							
Servo drives	Yaskawa / Mitsubishi							
PLC controllers	Siemens / Mitsubishi							
Water treatment system	YES							
Water filters	5µm, 1µm, 0.5µm							
Abrasive supply system	Automatic 100kg Option: 200kg/1t							
Oil cooling	Fan-cooled							
Control	Workstation with PC and installed software							
Interface	USB							
File formats	G-code, DXF, NCE, NC, CNC							

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Final operating parameters depend on the chosen machine configuration.



B SERIES

The B Series features a timeless gantry structure—a classic machine design tailored for modern enterprises.



COMPATIBLE ACCESSORIES

The abundance and variety of accessories make it possible to adapt the waterjet machines for future advanced production tasks. ATMSolutions also manufactures custom waterjet cutters according to individual client designs.

WaterJet machines

B PRO SERIES

ATMS Water Jet	1010-B PRO	2020-B PRO	2040-B PRO	2060-B PRO	3015-B PRO	3020-B PRO	3060-B PRO	4080-B PRO
Working area X, Y [mm]	1000x1000	2000x2000	2000x4000	2000x6000	3000x1500	3000x2000	3000x6000	4000x8000
Structure type	Gantry							
Height adjustment Z [mm]	200							
Program resolution [mm]	up to 0.001							
Maximum cutting thickness [mm]	up to 200							
Traverse speed X, Y [m/min]	up to 40							
Maximum pressure [MPa]	410							
Optimal working pressure [MPa]	60-360							
Nominal power	22,4kW, 400V/50Hz							
Servo drives	Mitsubishi							
PLC controllers	Mitsubishi							
Water treatment system	YES							
Water filters	5µm, 1µm, 0.5µm							
Abrasive supply system	Automatic 100kg Option: 200kg/1t							
Oil cooling	Fan-cooled							
Control	Workstation with PC and installed software							
Interface	USB							
File formats	G-code, NCE, NC, CNC							

ATMSolutions also offers custom machine configurations tailored to the client's needs.
Final operating parameters depend on the chosen machine configuration.



B PRO SERIES

The B PRO Series machines feature a classic gantry design, distinguished by industrial-grade control by Mitsubishi Electric and an energy-efficient pump, aiming to minimize user costs while maintaining the productivity of the B Series.



A wide selection of pumps from renowned manufacturers is available, featuring models with various power capacities, flow rates, pressures, and dimensions.



The Mitsubishi control system allows for easy import of process data. The controller has an intuitive interface, providing comfortable operation and enabling the setting of dedicated parameters on the machine.

MACHINE ATTRIBUTES

- material versatility
- ease of use thanks to intuitive software
- ability to cut almost any material
- high cutting precision and excellent cut surface quality
- wide range of processed material thicknesses
- option for a 5-axis cutting head
- program resolution up to 0.001 mm



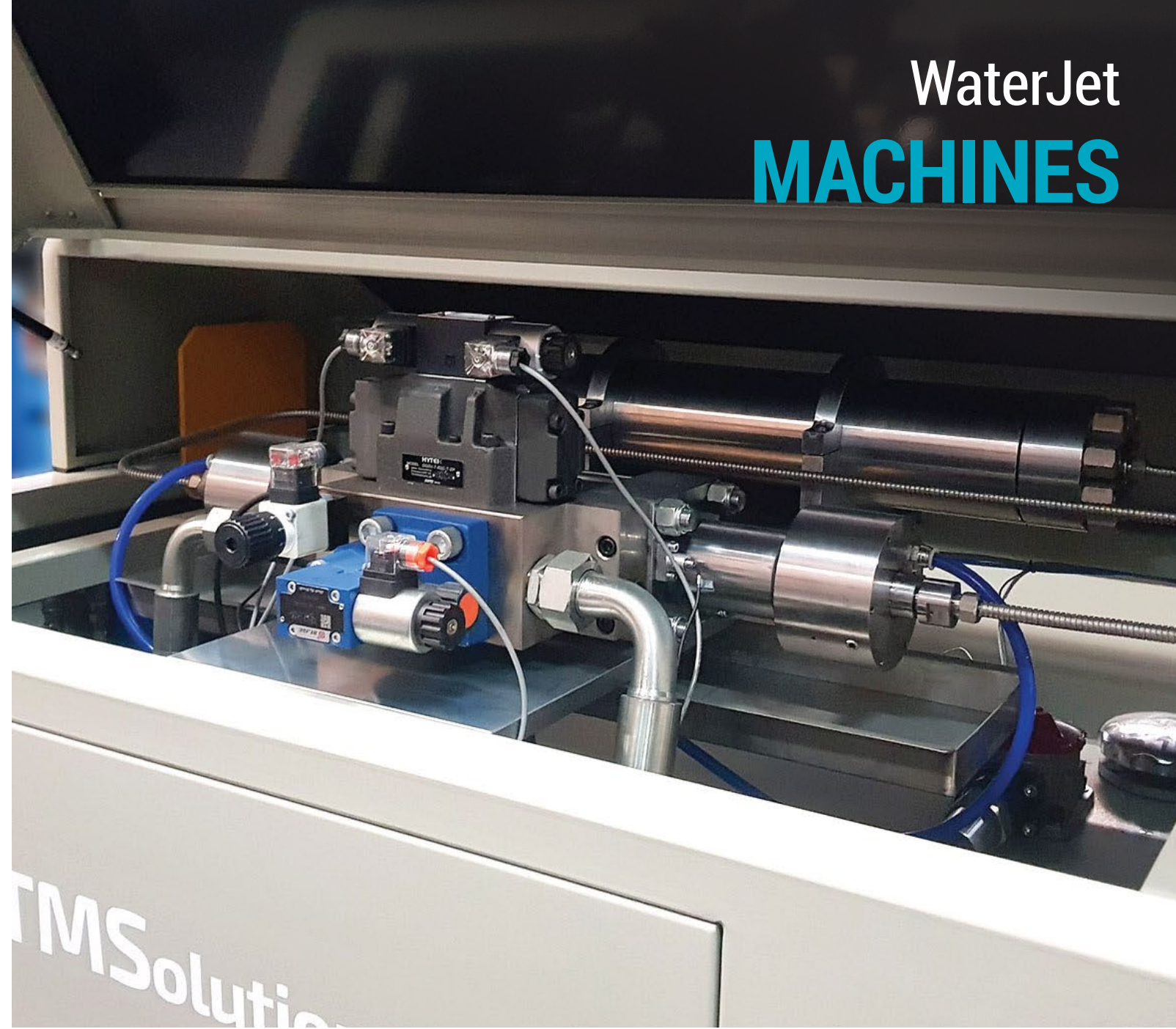
APPLICATION IN VARIOUS INDUSTRIES

ATMSolutions CNC-controlled waterjet machines are used in various industries, including automotive, aerospace, space, glass, and stone industries.

HIGH-PRESSURE WATER STREAM

ATMSolutions waterjet machines for cutting hard materials of both thin and thick gauges use a high-pressure water stream (up to 420 MPa) mixed with abrasive material, which is accelerated to high speeds. The abrasive enables optimal cutting speeds and ensures high-quality surface finishes without burrs. Cutting occurs at low temperatures, preventing structural changes in the material, allowing for easy subsequent processing using conventional methods.

WaterJet MACHINES



THE DELIVERY OF AN ATMSOLUTIONS WATERJET MACHINE INCLUDES:

- A durable knife-style cutting table
- An operator workstation for 3 to 6-axis control (depending on the selected configuration)
- CAD/CAM software licenses
- Central lubrication system
- High-pressure intensifier system
- Fan-cooled oil cooling system
- Automatic abrasive supply system 100kg, 200kg, or 1t
- Water treatment system with filters
- Installation, configuration, and commissioning
- Comprehensive training ending with an exam and a personal certificate
- Warranty and service support



MODERN TECHNOLOGY AND ENVIRONMENTAL IMPACT REDUCTION

The device is equipped with a water treatment system, allowing it to operate independently of water source quality while also reducing water consumption. Using an ATMSolutions waterjet machine does not require chemicals, which prevents the generation of harmful fumes or smoke, making the work safe for both the operator and the environment.



The ATMS 1010-B waterjet machine was awarded the MTP Group's Gold Medal for the most innovative products at the GLASS and STONE trade fairs.



AUTOMATIC LOADING SYSTEM

The material feeding system allows for the automation of work on the waterjet cutter. It simplifies material delivery to the processing area, positioning, and retrieval of both scrap and the finished product. The material is placed on the feeder in an almost vertical position (approximately 80 degrees), and the device lowers it to the tank in a horizontal position.



ABRASIVE REMOVAL SYSTEM FROM THE TANK

After cutting, abrasive material accumulates at the bottom of the waterjet cutter's tank and needs to be periodically removed. The abrasive removal system automates this process by filtering the abrasive and collecting it in a container, while purified water is returned to the tank.



AUTOMATIC ABRASIVE DELIVERY SYSTEM

In serial production, frequent replenishment of abrasives is required. The system pressurizes and transfers abrasive material (garnet) from the main tank to the buffer container located above the cutting head, ensuring an uninterrupted machining process.

WaterJet machines EQUIPMENT

AUTOMATIC HEIGHT TRACKING

A system that automatically, quickly, and accurately measures the optimal cutting height before initiating the process. It is possible to use a sensor that measures material irregularities, thus ensuring an automatic optimal cutting height regardless of material unevenness.



5-AXIS CUTTING HEAD

The 5-axis cutting head enables 3D projects to be performed in a single setup. The standard three-axis head moves horizontally along the X and Y axes and vertically along the Z axis. The 5-axis head allows for angular tilt in the X-axis (rotational axis A) and full rotation of the head in the Z-axis (rotational axis C), enabling tasks such as bevel cutting or cutting at a variable angle to the contour plane.

ATMSolutions is a Polish manufacturing company offering CNC milling machines, fiber laser cutting machines, waterjet machines and industrial milling and turning centers. A wide product range allows you to design and implement your entire machine park with just a single manufacturer.

ATMSolutions

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ŁOMIANKI MANUFACTURING FACILITY



STAWISKI MANUFACTURING FACILITY



QUALIFIED SPECIALISTS

ATMSolutions is a group of qualified consultants and specialists offering top-quality equipment. Every client is treated as a priority, and product quality is maintained at the highest level.

LEADER IN INNOVATION AND TECHNOLOGY

ATMSolutions machining tools have repeatedly gained recognition from customers and industry experts. Their high quality and machining precision, achieved through the use of components from reputable brands, have led to numerous awards and medals. Thanks to their reliability, intuitive operation, and ease of use, ATMSolutions machines have also earned numerous awards from operators.



Modern
TECHNOLOGIES



Technical
SUPPORT



Quick
VALUATIONS



Quick
SERVICE



High quality
COMPONENTS



Professional
TRAINING



Ease
OF USE



Timely
DELIVERY



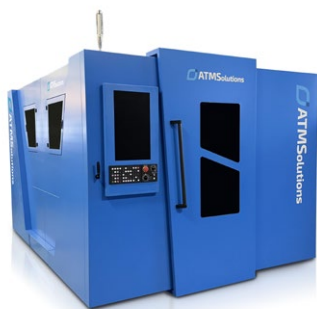
WARRANTY



The Largest
CUSTOMER REFERENCE LIST IN POLAND



CHECK OUT OUR OTHER MACHINES



FIBER LASER CUTTING
MACHINES



CNC MILLING MACHINES



LASER PLOTTERS



MILLING AND TURNING
CENTERS



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