APW WATERJET DOC.

1995-2024

As a leading company in the waterjet cutting industry and the drafting unit of China's national standard "Ultra-High Pressure Water Jet Cutting Machine" (GB/T26136), APW has been committed to promoting the development and application of China's waterjet cutting technology since its establishment in 1995

APW offers
9 platforms
5 pumps
3 cutter heads
multiple options

APW Waterjet
Shenyang All-Powerful S&T Inc.

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1. Platform Types And Classifications

1.1. Cantilever series (BB series): simple and economical structure, suitable for open space operation, easy to load and unload.



1.1.1. Advantages and highlights:

The cantilever series waterjet cutting machine is famous for its simple and economical structural design, which is particularly suitable for the operating environment of open space. Its single-support cantilever structure is not only convenient for loading and unloading operations, but also allows free expansion of the travel in the X-axis and Z-axis directions to meet diverse processing needs. The workbench is made entirely of stainless steel and is paired with a three-layer water tank grille, which is not only highly corrosion-resistant but also easy to replace and has a long service life . In addition, the Z-axis is made of aviation aluminum alloy, which is light and rigid, and has little impact on the beam load, further improving the operating accuracy and stability of the equipment.

1.1.2. Applicable scenarios:

It is widely used in small and medium-sized processing workshops, especially suitable for users with strict requirements on space and cost. It can effectively improve production efficiency and reduce equipment investment costs.

1.2. Gantry Series (BA Series): A best-selling product on the market, it adopts a gantry structure and has high stability .



1.2.1. Advantages and highlights:

The Gantry series waterjet cutting machine adopts the classic gantry structure and is a best-selling product on the market. Its high-precision ball screw drive and customized nut mechanism ensure extremely high precision and stability during the cutting process. The water tank and protective device are made of all stainless steel, with a double-layer protection design to effectively resist corrosion and extend the service life of the equipment. The intelligent lubrication system can automatically lubricate the transmission system according to the CNC settings to ensure long-term and stable operation of the equipment. In addition, the reinforced structural design of the crossbeam and side support further improves the overall rigidity of the equipment, making it perform well in high-intensity processing.

1.2.2. Applicable scenarios:

It is suitable for application scenarios with extremely high requirements for processing accuracy, such as aerospace parts, high-end metal sheet processing, etc. It is an ideal choice for users who pursue high stability and high precision.

1.3. Strengthened series (SQ series): specially designed for large stone, rock and metal plates, with high rigidity.



1.1.1. Advantages and highlights:

The enhanced series waterjet cutting machine is designed for processing large stone, rock and metal plates, with extremely high rigidity and stability. Its heavy-duty high-quality pipe welding body is annealed to high standards and is not easily deformed after long-term use. The spindle adopts a unique bridge gantry structure and a double-guide rail running design, which further improves the running accuracy of the actuator. The water tank is made of thick metal plates, and the grille adopts a grid structure, which is processed and formed in one go to ensure overall flatness and durability.

1.1.2. Applicable scenarios :

It is particularly suitable for heavy-duty material cutting that requires high-rigidity support and high-precision processing, such as large stone processing, thick metal plate cutting, etc., and can meet users' needs for high-strength and high-precision processing.

1.4. High frame series (GK series): suitable for three-dimensional cutting of irregular shapes and high-sized materials .



1.1.3. Advantages and highlights :

The high-frame series water jet cutting machine is designed for three-dimensional cutting of irregular shapes and high-size materials. Its double-sided gantry support mechanism adopts one- piece frame welding, and the support frame height can be infinitely expanded according to user needs, so as to achieve high-stroke cutting needs. High-standard heat treatment process and aging treatment ensure the overall accuracy and stability of the equipment. The bridge gantry structure and double guide rail design of the spindle further improve the operating accuracy of the actuator. In addition, the Z-axis adopts high-performance servo motor drive and double guide rail structure design to ensure the stable operation of the five-axis cutter head and three-axis cutter head.

1.1.4. Applicable scenarios :

It is suitable for cutting tasks with complex three-dimensional shapes, such as large sculptures, complex curved metal parts, etc., providing a reliable solution for difficult processing.

1.5. Fully enclosed series (FB series): Fully enclosed design reduces sand and water splash , suitable for scenes with high environmental requirements .





1.1.5. Advantages and highlights:

The fully enclosed series waterjet cutting machine is the first fully enclosed machine-type waterjet cutting machine developed in the industry, with special attention paid to the on-site working environment and the occupational health and safety of employees. Its fully enclosed workbench design can effectively avoid sand and water splashing during cutting, reducing the impact on the working environment. The suspended integrated control console saves space and is easy to operate. The electric/pneumatic automatic lifting door has a safety interlocking function, which is convenient for loading and unloading, and is equipped with an observation window for operators to monitor the cutting process in real time. The split structure design effectively avoids the impact of water flow on the bed during operation, further improving the stability and service life of the equipment.

1.1.6. Applicable scenarios :

It is suitable for places with high requirements on the working environment, such as precision electronic component processing, medical equipment manufacturing, etc. It can effectively improve production efficiency while ensuring employee health and equipment safety.

1.6. High speed series (GS series): high acceleration and no-load speed, suitable for batch processing.



1.1.7. Advantages and highlights :

The high-speed series waterjet cutting machines are designed for efficient processing needs and can achieve significant improvements in acceleration and no-load speed. Its high-precision helical gear rack drive system can quickly and accurately position, greatly improving cutting efficiency. The high-strength aviation aluminum alloy crossbeam not only improves the rigidity of the equipment, but also reduces its weight, further optimizing the dynamic performance of the equipment. In addition, two bed designs are available: integrated and split. The split structure effectively avoids the impact of water flow on the bed, while the integrated structure is supported by heavy steel plate welding and reinforcement ribs to ensure the high strength and stability of the equipment.

1.1.8. Applicable scenarios:

It is suitable for mass production tasks that require extremely high processing efficiency, such as cutting of automotive parts and home appliance shells, etc. It can significantly shorten the production cycle and improve production efficiency.

1.7. Online series (LX series): High degree of automation, can be integrated with the production line to achieve unmanned operation.



1.1.9. Advantages and highlights:

The Link Series waterjet cutting machine is an innovative product of APW that deeply integrates waterjet cutting technology with automated production lines. Its open signal interface can seamlessly connect to the mainstream MES system to realize data reading, signal transmission and automated control tasks, truly realizing unmanned operation. It is equipped with dual cutting heads and dual sand supply systems as standard, doubling the cutting efficiency. For the processing of brittle materials such as glass, all contact modules are made of soft-based materials to effectively avoid damage to the cutting parts. In addition, the equipment can adjust the transmission speed according to the production rhythm of the production line, with the fastest speed reaching 20 meters per minute.

1.1.10. Applicable scenarios:

It is suitable for large-scale automated production lines, such as glass processing, ceramic product production, etc. It can achieve efficient and stable automated cutting, reduce labor costs and improve production efficiency.

1.8. Plate and tube integrated series (BG series): integrates plate and tube cutting functions to reduce equipment investment .



1.1.11. Advantages and highlights:

The plate-tube integrated series waterjet cutting machine integrates the plate and tube cutting functions, realizing "one machine for two purposes", which greatly reduces equipment investment and site occupation. Its double workbench design, one table is used for plate cutting, and the other table is used for tube processing, without interfering with each other. The innovative tube chuck has sand and water-proof functions, which can achieve precise positioning and precision rotation to meet the high-precision requirements of the waterjet cutting machine. The support mechanism adopts segmented, sliding multi-angle support wheels, which can be flexibly adjusted in the horizontal and vertical directions to ensure the concentricity and stability when processing different pipe fittings. In addition, the ejector device at the end of the chuck further improves the processing accuracy and safety.

1.1.12. Applicable scenarios :

It is suitable for users who need to process plates and pipes at the same time, such as machinery manufacturing, building decoration and other industries. It can effectively save equipment costs and improve equipment utilization.

1.9. Customized water jet cutting machines: including robots, impeller cutting machines and other customized products.





1.1.13. Advantages and highlights:

The customized water jet cutting machine series includes robot cutting machine, impeller cutting machine, etc., which are designed for specific industries and complex processing needs. Its high flexibility and customization capabilities can meet the user's personalized needs in special materials, complex shapes or high-precision processing.

1.1.14. Applicable scenarios:

It is suitable for industries such as aerospace, automobile manufacturing, medical equipment, etc. that require extremely high processing accuracy and complexity, providing users with customized solutions

2. High-pressure pump types and classifications

2.1. A series high pressure pumps: economical and practical, the best choice for beginners



1.1.15. Advantages and highlights:

The A series high-pressure pump is an entry-level product carefully designed by APW for users with small and medium power requirements. Its design is simple and efficient, focusing on cost control while taking into account performance and reliability. The A series pump uses domestic or imported brand plunger pumps, which can provide a stable high-pressure water flow to meet basic waterjet cutting needs. Its manual adjustment method is easy to operate and is suitable for users who are cost-sensitive and have moderate performance requirements.

1.1.16. Applicable scenarios:

It is widely used in small and medium-sized processing enterprises, educational institutions or start-up studios, and is an ideal choice for users to enter the field of water jet cutting.

1.1.17. Model example:

- A15-B (37KW)
- A16 (37KW)
- A22S (23.9KW)

2.2. AX series high pressure pumps: excellent performance, stable and reliable



1.1.18. Advantages and highlights:

The AX series high-pressure pump is a representative product in the medium power range, designed for users with high requirements for performance and stability. It uses plunger pumps from internationally renowned brands (such as Rexroth) and has an automatic adjustment function, which can accurately control pressure and flow according to cutting requirements. The AX series pump has a stable output flow and small pressure fluctuations, ensuring high precision and high efficiency in the cutting process. In addition, its compact design and optimized structure make it perform well in the medium power range and suitable for a variety of complex processing tasks.

1.1.19. Applicable scenarios:

It is suitable for medium-sized processing enterprises, especially in the fields of metal processing, stone cutting, etc. that have high requirements on cutting accuracy and efficiency.

1.1.20. Model example:

- A22S-24 (23.9KW)
- A22S-32 (32.8KW)
- A22S-37 (38.8KW)
- A24W-45 (45KW)
- A24W-75 (75KW)

2.3. V series high pressure pumps: high power, high strength processing





1.1.21. Advantages and highlights:

The V series high-pressure pump is APW 's high-end product, designed for high-intensity processing needs. Its power range is from medium-high power to ultra-high power, and it can provide strong pressure and flow support. The V series pump uses advanced boosting technology and high-performance plunger pumps. Some models are equipped with dual plunger pumps, which further improves output capacity and stability. Its automatic adjustment function and high-precision control ensure the efficiency and consistency of the cutting process, making it an ideal choice for difficult processing tasks.

1.1.22. Applicable scenarios :

It is suitable for large-scale processing enterprises, aerospace parts manufacturing, heavy machinery processing and other fields, and can meet the cutting needs of high pressure and large flow.

1.1.23. Model example:

- V6-45 (45KW)
- V6-55 (55KW)
- V6W-75 (75KW)
- V6W-94 (94KW)
- V6W-112 (112KW)

2.4. H series high pressure pumps: ultra-high power, ultimate performance



1.1.24. Advantages and highlights:

The H series high-pressure pump is APW 's flagship product, representing the top level in the industry. Its ultra-high power design can provide extremely high pressure and flow to meet the needs of extreme processing conditions. The H series pump adopts advanced boosting technology and high-performance plunger pump to ensure the stability and reliability of output. Its optimized structural design and efficient cooling system enable it to perform well in long-term operation, making it the only choice for users pursuing extreme performance.

1.1.25. Applicable scenarios:

It is suitable for high-end application scenarios with extremely high requirements for cutting efficiency and precision, such as complex material processing in aerospace, automobile manufacturing, medical equipment and other fields.

1.1.26. Model example:

- H9-45 (45KW, Rexroth brand plunger pump)

2.5. Customized high-pressure pump set series

Compared with high-pressure pumps, high-pressure pump sets have stronger performance and flow, and have unique functions such as controlling output pressure and flow. Depending on the customer's operating scenarios, they have fixed and movable container-type appearances.


APW Waterjet
NEW
BIG FLOW
PUMP SET
ADJUSTABLE PRESSURE RANGE

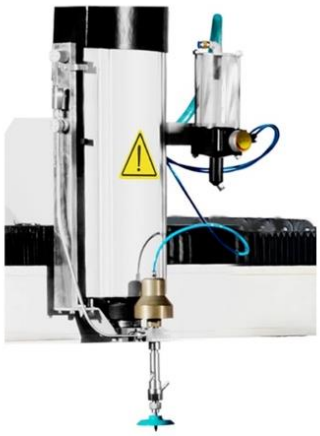

APW Waterjet
NEW
BIG FLOW
PUMP SET
MOUNTABLE ON A TRUCK

2.6. APW high pressure pump product technical parameter table

	series	model	power (KW)	Plunger pump brand	plunger pumps	Max output flow (L/min)	Pressure control	Supercharger Model	intensifiers	Theoretical water (L/min)	nozzle (mm)	pipe (mm)	Max pressure (MPa)	Control display	Size (mm)	Weight (KG)
1	A	A300	22	Chinese	1	90	M	A	1	3.7	0.25	0.76	360	none	1710×1025×1191	920
2	A	A15-B	37	Chinese	1	116	M	A	1	3.7	0.32	1.02	413	none	1710×1025×1191	980
3	A	A16	37	Rexroth	1	102	M	A	1	3.7	0.32	1.02	413	none	1710×1025×1191	980
4	AX	A22S-24	23.9	Rexroth	1	68	A	A	1	3.7	0.26	0.76	360	have	1715×1045×1272	1100
5	AX	A22S-32	32.8	Rexroth	1	107	A	A	1	3.7	0.3	1.02	380	have	1715×1045×1272	1100
6	AX	A22S-37	38.8	Rexroth	1	107	A	A	1	3.7	0.33	1.02	413	have	1715×1045×1272	1100
7	AX	A24W-45	45	Chinese	1	203	M	A	2	7.4	0.36	1.14	413	none	2100×1370×1510	1400
8	AX	A24W-75	75	Chinese	1	232	M	A	2	7.4	0.46	1.3	413	none	2100×1370×1510	1700
9	V	V6-45	45	Rexroth	1	102	M	V6	1	6	0.36	1.14	413	have	2265×1552×1530	1300
10	V	V6-55	55	Chinese	1	203	M	V6	1	6	0.4	1.24	413	have	2265×1552×1530	1600
11	V	V6W-75	75	Rexroth	2	205	M	V6	2	12	0.46	1.3	413	have	2265×1552×1530	1700
12	V	V6W-94	94	Rexroth	2	261	A	V6	2	12	0.52	1.3	413	have	2250×1400×1370	2600
13	V	V6W-112	112	Rexroth	2	261	M	V6	2	12	0.57	1.3	413	have	2050 ×1400×1400	3200
14	H	H9-45	45	Rexroth	1	102	M	H	2	12	0.57	1.3	620	none	1700×930×1840	1300

3. Cutting Head Type and Classification

3.1. BP-JET basic waterjet cutting head: used for 3-axis plane cutting, suitable for general cutting tasks, simple structure, easy maintenance, suitable for small and medium-scale processing and rapid prototyping .



1.1.27. Features

- Integrated structure: compact design, easy to install and maintain.
- High precision: Precision debugging and testing are carried out before leaving the factory to ensure cutting accuracy.
- Strong versatility: suitable for straight line and simple curve cutting of various materials.
- Easy to maintain: simple structure and low maintenance cost.

1.1.28. Applicable scenarios

- General purpose cutting tasks: suitable for straight lines and simple shapes in materials such as metal, plastic, stone, glass, etc.
- Small and medium-scale processing: Suitable for processing workshops, small enterprises or educational institutions, where the cutting accuracy and complexity are not required.
- Rapid prototyping: suitable for rapid cutting of prototype parts to improve production efficiency.

3.2. ACWZ-JET large-angle taper cutting head: used for large-angle 5-axis cutting, suitable for complex shapes and 3D cutting tasks, supports large-angle taper cutting, and is suitable for high-precision processing scenarios such as aerospace, automotive manufacturing, etc.



1.1.29. Features

- Large-angle taper cutting: It can achieve large-angle (such as ±75 degrees) taper cutting, which is suitable for complex shapes and bevel cutting.
- Multi-axis linkage: equipped with servo motor, supports A-axis and C-axis rotation, can achieve infinite rotation, suitable for complex three-dimensional cutting.
- High precision: high cutting accuracy, suitable for high-precision processing needs.
- Supporting software: Through dedicated software control, automatic cutting can be achieved to improve efficiency and consistency.

1.1.30. Applicable scenarios

- Complex shape processing: suitable for cutting complex shape parts in industries such as aerospace, automobile manufacturing, etc., such as curved surfaces, grooves, etc.
- Welding and splicing processing: The cut workpiece can be directly used for welding or splicing, reducing the subsequent processing steps.
- High-precision 3D cutting: Suitable for applications that require high-precision and complex 3D cutting, such as medical devices, mold manufacturing, etc.

3.3. ABWZ-JET automatic incision slope compensation cutter head: used for small-angle 5-axis cutting, suitable for high-precision cutting needs. The automatic compensation function ensures smooth and vertical incisions, suitable for automated production lines and complex material processing.



1.1.31. Features

- Automatic slope compensation: Automatically adjust the cutting angle through software control to compensate for the difference between the upper and lower cuts formed by the water jet cut, ensuring a smooth and vertical cut.
- High precision: suitable for materials that require extremely high cutting accuracy, such as metal, stone, tile, etc.
- Multi-axis linkage: equipped with servo motor, supports A-axis and C-axis rotation, and the maximum correction/cutting angle can reach 12 degrees.
- Reduced Manual Intervention: The automatic adjustment function reduces the need for manual setup and adjustments, improving cutting efficiency and consistency.

1.1.32. Applicable scenarios

- High-precision cutting: suitable for materials that require extremely high cutting accuracy, such as metal plates, stones, tiles, etc.
- Reduce manual intervention: suitable for automated production lines, reduce manual settings and adjustments, and improve production efficiency.
- Complex material processing: Suitable for complex materials that require high-precision cutting, such as thick metal plates, high-strength stone, etc.

4. Optional types

4.1. Platform Sub-Class

1.1.33. Features

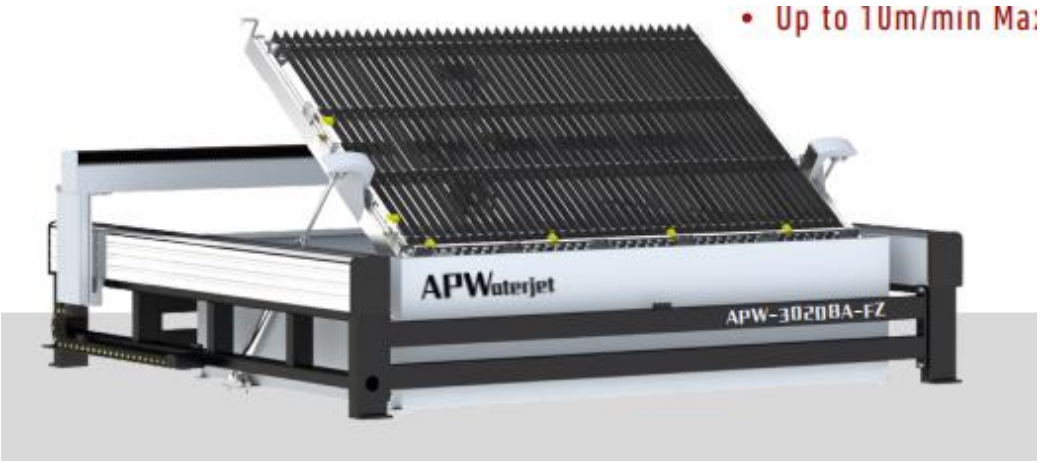
- Improve loading and unloading efficiency: Reduce manual operations and improve production efficiency through automated devices.
- Adapt to a variety of workpieces: Provide a variety of loading and unloading solutions , suitable for workpieces of different sizes and weights.
- Enhance operational convenience: optimize the equipment usage experience and reduce the labor intensity of operators.

1.1.34. Application Scenario

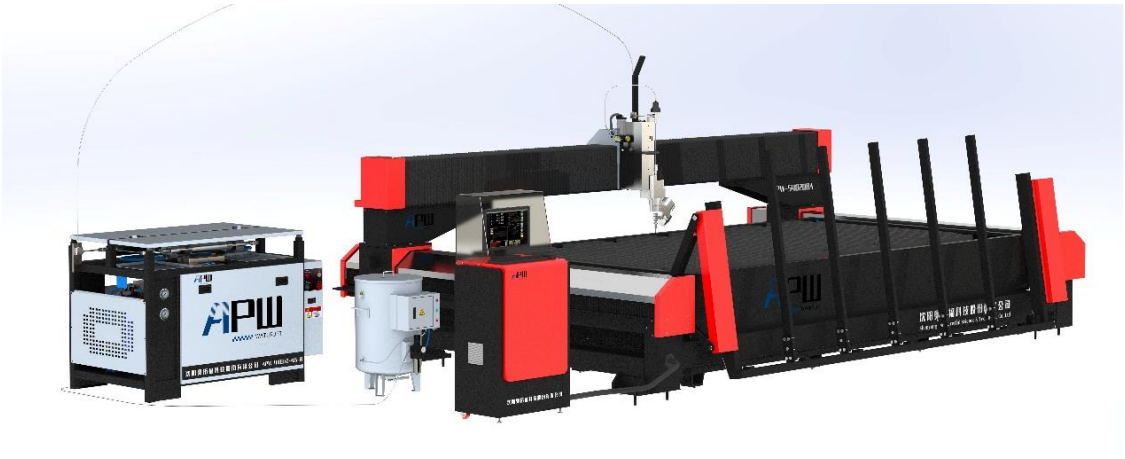
- Processing of large workpieces: such as stone, metal plates, etc., requires automatic loading and unloading through a flip device or a semi-floor flip device.
- High-efficiency production: Suitable for processing scenarios that require frequent workpiece replacement, such as automobile parts manufacturing.
- Processing of special materials: fragile materials such as glass and ceramics require special devices to achieve smooth loading and unloading.

1.1.35. Specific options

- Floor-standing turning device: suitable for loading and unloading large workpieces, with a maximum lifting weight of up to 1000kg.



- Semi-floor flip device: suitable for medium-sized workpieces, easy to operate, and suitable for scenes where workpieces are frequently replaced.



4.2. Knife head accessories

1.1.36. Features

- Improve cutting efficiency: realize synchronous or asynchronous cutting by increasing the number or function of the cutter heads.
- Adapt to complex processing: Provide a variety of cutter head configurations to meet the cutting needs of different materials and shapes.
- Enhanced cutting accuracy: Equipped with follow-up mechanism and anti-collision device to ensure the stability and accuracy of the cutting process.

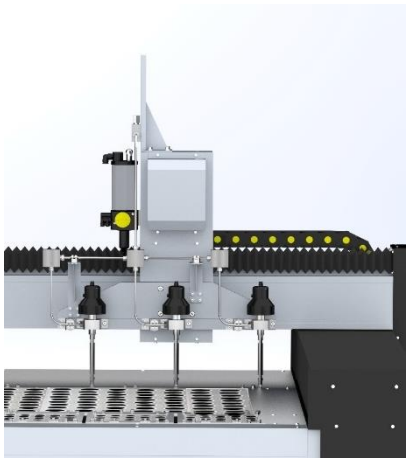
1.1.37. Application Scenario

- High-efficiency cutting: suitable for scenarios that require fast cutting, such as metal sheet processing.
- Complex shape processing: complex shapes such as three-dimensional surfaces and grooves require multi-axis tool heads or follow-up mechanisms.
- High-precision processing: such as aerospace parts, medical equipment, etc., which require high-precision cutting and anti-collision protection.

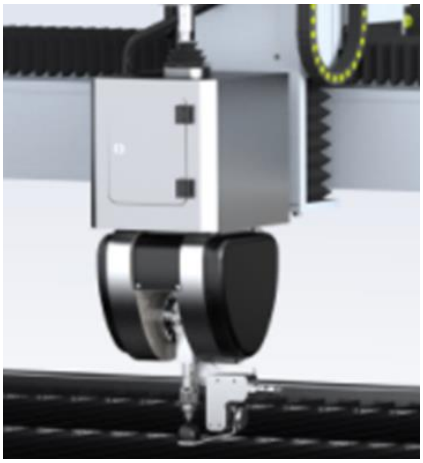
1.1.38. Specific options

- Z axes or multiple cutting heads on the same beam to achieve synchronous or asynchronous cutting and improve cutting efficiency.





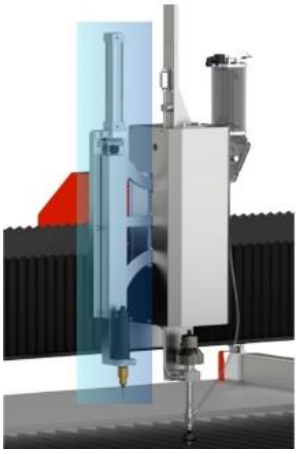
● Follow-up mechanism: automatically adjusts the height of the cutter head to adapt to uneven surfaces and avoids collision and damage to the cutter head.



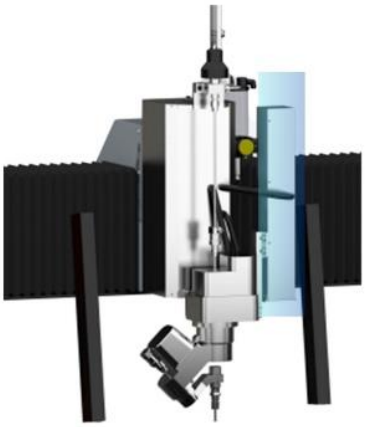
● Anti-collision device: In case of misoperation or program problems, the machine will automatically stop and reset to protect the cutter head and workpiece.



● Composite mechanical drill bit: Pre-drill holes in composite and metal materials to improve cutting efficiency.



- Laser height measuring device: non-contact height measurement, adapting to complex curved surface processing and ensuring cutting accuracy.



4.3. Peripheral accessories

1.1.39. Features

- Optimize the processing environment: reduce pollution and equipment wear during processing through sand removal, cooling and other devices.
- Improve equipment life: Equipped with cooling system and sand removal device to extend equipment life.
- Enhanced operational safety: Equipped with safety devices, such as safety light curtains, to protect the safety of operators.

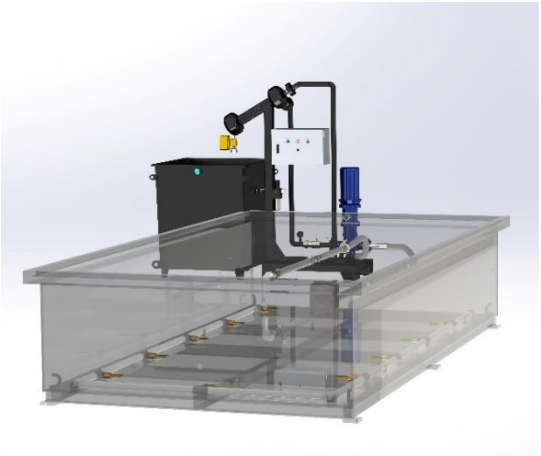
1.1.40. Application Scenario

- High environmental protection requirements: such as food processing, medical equipment manufacturing, etc., need to reduce pollution during the processing.

- High equipment life requirements: For example, high-power cutting equipment needs to be equipped with a cooling system and sand removal device.
- High operational safety requirements: For example, processing workshops with dense personnel need to be equipped with safety gratings and other devices.

1.1.41. Specific options

- Sand removal system: There are two options: sand removal machine and online automatic sand removal. The online sand removal system can automatically separate the sand and water produced by cutting, reduce pollution and extend the life of the equipment.

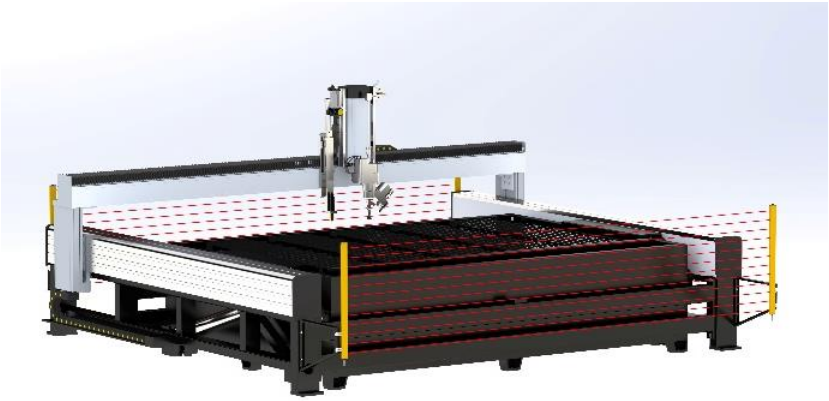



- Cooling system: such as air cooler, water cooler, oil cooler, to reduce the operating temperature of equipment and improve stability.





- Safety light curtain: protect the safety of operators and prevent accidents caused by misoperation.



4.4. Other extension classes

1.1.42. Features

- Meeting special needs: Providing customized solutions to meet the special needs of specific industries.
- Improve equipment functions: Increase the processing capacity and application range of the equipment through expansion devices.
- Improve the degree of automation: Equipped with automation devices to achieve unmanned operation and improve production efficiency.

1.1.43. Application Scenario

- Processing of special materials: such as composite materials, carbon fiber, etc., requires special tool heads or processing devices.
- Automated production lines: such as automobile manufacturing and electronic component production, require unmanned operation.
- High-precision processing: such as aerospace parts, medical equipment, etc., require high-precision processing equipment.

1.1.44. Specific options

- Water softener: Mainly used for water softening, protecting equipment, improving cutting quality and reducing maintenance costs, suitable for high-precision cutting and areas with poor water quality.



● Remote controller: provides remote operation and manual control functions, improves operational flexibility and safety, and is suitable for complex workpiece processing and multi-person collaboration scenarios.



● Barcode scanner : quickly identify material information, realize automated data input, improve production efficiency and quality traceability, and is suitable for large-scale production and material diversity scenarios.



About APW

As a leading company in the waterjet cutting industry and the drafting unit of China's national standard "Ultra-High Pressure Water Jet Cutting Machine" (GB/T26136), APW has been committed to promoting the development and application of China's waterjet cutting technology since its establishment in 1995.

As of 2024, APW waterjet has launched 9 platforms, 5 high-pressure pumps, 3 cutter heads and multiple optional configurations through independent research and development, customer feedback, market development and national needs. The following is a detailed introduction to the APW waterjet product series:

APW started with cantilever and gantry waterjet cutting machines, gradually expanded its product line, improved its technology level, and met the diverse needs from economical and practical to high precision, high efficiency, automation and intelligence. It has transformed from traditional manufacturing to intelligent manufacturing, and upgraded from general equipment to customized solutions . Through continuous innovation and optimization, APW has set an industry benchmark in the field of waterjet cutting in China, and provided efficient and reliable cutting solutions for Chinese and global users.

Based on quality and focusing on cutting, APW is determined to become an industry-leading waterjet cutting equipment and waterjet technology solution service provider.

Contact APW

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	BILIBILI	APW Waterjet
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Final words

This document is intended to provide new and old friends with a preliminary understanding of the APW water jet cutting machine and its supporting products. Some of the content may change according to the company's business needs or product upgrades. Please pay attention to the update date. For the most accurate information, please follow our official website or communicate with APW's sales representatives, so that you can better choose APW's products and make them the best assistants on your road to success.

Manual editing by humans is prone to errors and inappropriate content. If you find any issues, please feel free to criticize and correct them by contacting APW via email. Your feedback will be a valuable asset to APW. We sincerely wish you happiness.

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Thank you again for your attention to APW Waterjet.

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February 27, 2025