

Data Sheet  
Water jet cutting machine  
Horizontal Bridge Type  
APW 1520BA

*w*ater jet  
**APW**  
*europa*

## Specification main machine

Cutting Table : Horizontal  
Structural style : Bridge style  
X and Y axis Travel : 1500mm×2000mm  
Z-axis Travel : 150mm  
Control accuracy : ±0.01mm  
Cutting accuracy : ±0.1mm  
Servo motor specification (ZxYxX): 0.75, 1.0, 1.5KW  
X-axis and Y-axis Max. moving speed : 6000mm/min  
Z-axis Max. moving speed : 1000mm/min  
Cutting Head : 3-Axis (opt. 4 or 5 Axis)  
Way of Drive : AC Servo  
Servo System : Yaskawa Servo Motor  
Linear guide : SKF (America)  
Ball Screw : ABBA (HIWIN)  
Nozzle and Orifice : Made in America  
Environmental Temp. : 2 to 40 °C  
Atmosphere Pressure : 86Kpa~106Kpa  
Dust Concentration : Not More than 10mg/m3  
X, Y-Axis Structure : Aluminum Structure  
Water Tank : Coated Stainless Steel

## A12 Intensifier Pump

Max discharge of SERVO oil pump : 90L/min  
Max water discharge : 3.7L/min  
Max available orifice diameter : 0.33mm  
Max pressure : 410Mpa (4100 bar)  
Continuous working pressure : 360 ~ 380MPa  
Main motor power : 37KW(50HP)  
Power supply : 380V/50HZ/3PH  
Max. oil pressure : 20Mpa  
Length/width/height : 1745/1045/1350  
Weight : 1200kg

## Specification HP Pump

Intensifier : A&V(made in USA)  
Main Motor : Siemens  
Hydraulic Pump : Rexroth servo hydraulic pump  
PLC : Omron  
Heat Exchanger : Water/Oil panel cooler  
Control System : LP/HP auto control  
Temperature Display : Digital Temperature Display  
Shock Absorber : Four corners of the motor  
Directional Valve : Taiwan YUKEN  
Accumulator Volume : 1.2L  
Low Pressure Filter : 10um  
Cutting Water Inlet Pressure : 0.3Mpa  
Cooling Water Inlet Pressure : 0.3Mpa  
High Pressure Outlet Connections : M16 x1.5  
Oil level and oil temperature sensor : Standard Components

## Main Characteristics of CNC System

19 Inch LCD Monitor  
Support DXF and NC code file  
Forward and backward processing function  
Even pace control function  
Partial and smooth processing modes  
Small arcs speed auto processing function  
Circle processing function  
Coordinate memory retention function  
Double increase and decrease speed data function

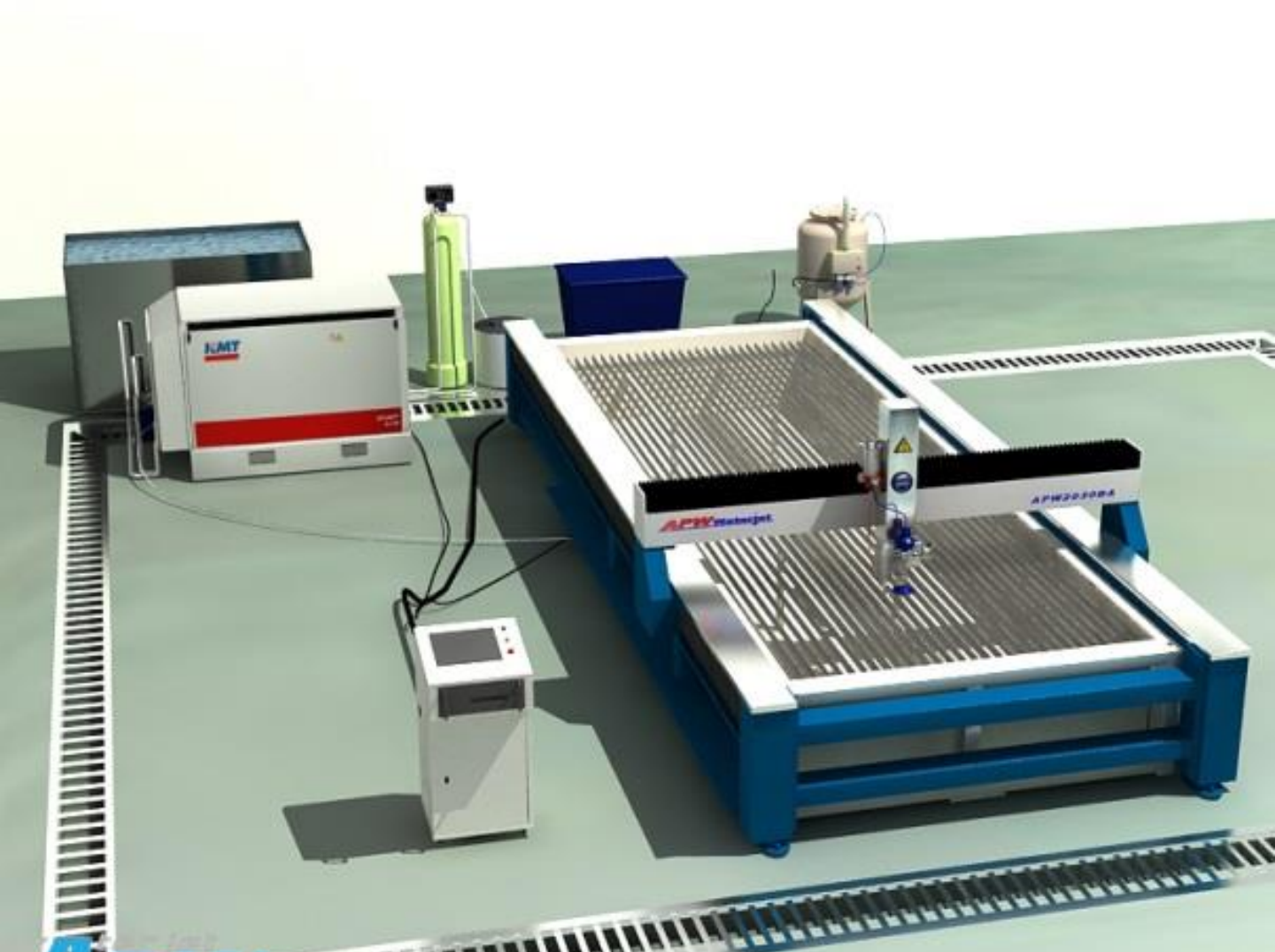
## Auto Abrasive Delivery System

Max. Inlet Air Pressure : 0.6Mpa  
Min. Inlet Air Pressure : 0.2Mpa  
Abrasive Capacity : 225Kg  
Min. Inlet Air Flow : 0.028 m<sup>3</sup>/min  
Operating Air Flow : 0.005 m<sup>3</sup>/min  
Self-feeding Control  
Air Valve to prevent jams and breakages  
Self-sealing

## Options

4-Axis Cutting Head  
5-Axis Cutting Head  
Multiple Cutting Head  
Multiple Beams  
Auto Height Adjustment System  
HP Pump A12x2  
HP Pump 6000 bar  
Electrical and safety components: Siemens, Pilz, ABB, Schneider Electric, Fiessler, Omron

Änderungen und Irrtümer in den technischen Daten, Angaben und Preisen vorbehalten.  
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**APW** Waterjet [www.apweurope.com](http://www.apweurope.com)

**Rexroth**  
Bosch Group

**OMRON**

**FISSLER**  
ELEKTRONIK

**HIWIN**<sup>®</sup>  
Linear Motion Products & Technology

**APW** Waterjet

**ABBA**  
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**CSIC**

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Waterjet Systems



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