



# Model WC5WA6020U specification

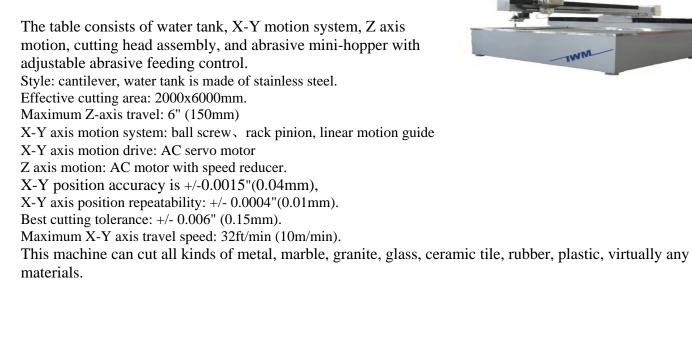
#### The high pressure pump: model WIP5

Pump type: dual plunger reciprocal intensifier. 20:1 intensifier ratio Max pressure: 60,000psi (420Mpa). Continuously adjustable cutting pressure. Max water flow rate: 0.8Gal/min (3.2L/min). High pressure water attenuator to dampen cutting pressure fluctuations. Reliable electronic shift Intensifier driven by: hydraulic pump. Hydraulic pump type: Axial piston hydraulic pump. Hydraulic filtration in output oil path with filter cartridge clogging alarm Hydraulic accumulator for damping the oil pressure pulsations 50HP high efficiency motor with Wye Delta soft start Cooling method: water cooling with high efficiency plate heat exchanger. Use of electric chiller is optional with additional cost. Water filter: 2 stage filtration included inside the pump unit. Integrated Control panel with heavy gauge metal framework CE certified Electronic components All stainless fittings and tubing Power source: 3 phase, 220/380/415/440VAC, 50/60Hz 37kw, 50HP. Approximate form size: 1600 x900 x1400mm, weight 1100kg.

Protective automatic shut off under the following circumstances:

- Over pressure limit. •
- Over temperature limit. •

#### **CNC cutting table:** Model CAT6020U









## Mini hopper for abrasive feeding:

Large size to enable long working time without floor size abrasive hopper. Clear window view for easy monitoring. Abrasive valve attachment for easy abrasive on/off control and abrasive flow rate adjustment.

## **Cutting head assembly:**

The assembly consists of pneumatically operated on/off valve and selfaligned cutting head. Maximum Abrasive flow rate: 0.5kg/min (1pound/min). Compressed air source is necessary. An air compressor is optional item from manufacturer. As an option, the cutting head can manually tilt in both x and y directions.

## UHP tubing and plumbing kit for connection:

1/4" or 7mm OD UHP tubing from intensifier to cutting head mounted on cutting table Stainless fittings. Rack kit to supporting installation of the tubing.

# **CNC controller:**

CNC controller consists of advanced industrial grade computer and specialized software running on the Microsoft windows platform. The controller is capable of simultaneous X-Y axis interpolation movement. Fast accelerate or decelerate motion and high speed travel from point to point. Simulation without motion or dry run with axis motion but no jetting of water/abrasive are features included. Error stop and trace repeat are also very useful features. Out of range warning and hard stop to prevent damage capability are embedded in the system. Emergency shut off switch is provided. Remote control is provided to control the motion of X-Y-Z axis when operator is away from the controller tower.

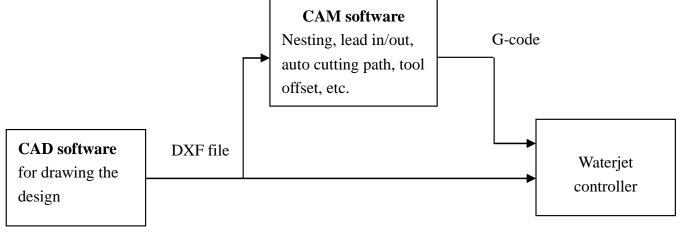
## **DXF** file compatibility:

The controller is compatible to dxf file format. Users can save design drawing in .dxf from AutoCAD and read the file into the controller. Controller will post the dxf file to G-code. The controller can also read G-code generated from other CAM software. Controller software interface is based on Microsoft Windows 98/Me/XP/VISTA.

Advanced CAD/CAM software (optional): for design drawing, automatically generating machine path, lead in/out, nesting, tool offset, and generate G code. Features are similar to AutoCAD, and with rich features of CAM.







CNC Programming flow chart

## **Controller screen:**

AUTO	IDLE		G54 machining time 0				0:00:00 Standard Config Model /		
POSCID	OFFSET(2)	PROG(3)	SYS(4)	PARAM(5)	DIAGC6)	AUTO (7)	MANUAL (8)	REFER (9)	
Normal (Q)	Pos (W)	Track (E)	Prog (R) 10	info (T)	Setting (Y)	axisworkcoormachedX23.91023.91Y0.0000.00Feedspeed F(actual/setting):0/1200Current Tool No.:1Cur. File:5.dxfFeedrate (B)1			
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03 61 20,000   04 61 311.42   05 63 312.86   06 63 315.19   07 63 315.67	0 4-5.5495	F4	F5 F8	67	F8	Z+ Z-	Cutting Cutting F11		



## Automatic abrasive feeder (optional):

This equipment is highly recommended for large tables, such as 2000x4000mm

- Requires 70psi pneumatic source
- Capacity 40 Gallon.
- Self detecting empty/full status of reservoir and start/stop feeding.
- Model number ADS-04-170.



## Accessories included in standard package:

High pressure tubing, Water hose, Electrical cables, 1 pcs nozzle, 2 pcs orifice, 1 tube of blue goop. 1 set of special tools for pump maintenance.