

# COMPANY PROFILE & WATER JET CUTTING MACHINE



Granite Monuments  
& Tombstones



Stone Pillar Craving



Stone Sculpture

WELCOME



## ABOUT THE COMPANY

Established in 2012 as **FUSION TECHNOCRAFT** and incorporated as an LLP on May 17, 2018, **FUSION CNC TECHSYSTEMS LLP** is a leading manufacturer and importer of advanced CNC Stone Carving and Cutting Machine technology and stone diamond tools. Under the visionary leadership of **Mr. Manish Sukhadia**, Founder and Managing Partner, the company specializes in a diverse product range including CNC engraving and cutting machines, profiling machines, stone temple and pillar carving systems, sculptures, granite monuments, and tombstone machinery. Renowned for exceptional performance, high durability, low maintenance costs, and competitive pricing, Fusion CNC ensures the highest quality by using premium raw materials and maintaining a robust network of trusted vendors with an efficient bulk manufacturing infrastructure. Driven by innovation and guided by experience, Fusion CNC continues to build a strong presence in the stone processing machinery industry and shape excellence in CNC technology and stone craftsmanship.



**+900**  
CUSTOMER



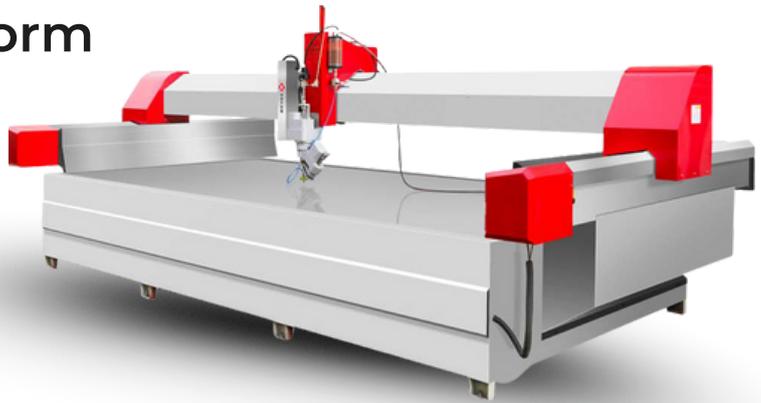
**+100**  
PROJECT DONE

**13+**  
YEARS OF EXPERIENCE

## Product Configuration of Water jet Cutting Machine

The water jet cutter is widely used in a variety of applications because it is a versatile and efficient process that accurately cuts a variety of materials regardless of shape or thickness. The cutting width is narrow and will not generate stress or heat. Clean cutting, no slag, uniform and smooth edges. Compared with other processes, fast cutting does not require sharp tools. It is a perfect complement to high precision machine/tool work, making dimensions closer to each other to reduce processing time. It is an easy-to-use and environmentally friendly process because it does not generate heat, dust or smoke.

## Water Cutting Platform



**Ultra-High Pressure Pump**

**Automatic sand supply barrel**

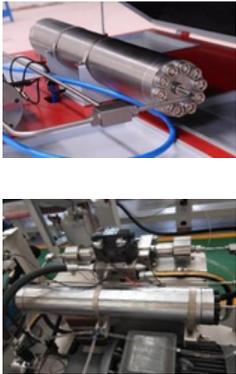


**CNC control system**

NO	Item Name	Details And Technical Specifications	Picture
1	<b>4020 cutting work platform</b>	<ul style="list-style-type: none"> <li>• Type: Gantry type</li> <li>• Z-axis travel: 150mm</li> <li>• Processing Size: 4000x2000mm</li> <li>• Maximum X, Y speed: 10000mm/min</li> <li>• Cutting accuracy: <math>\pm 0.1\text{mm}</math></li> </ul> <hr/> <ul style="list-style-type: none"> <li>• XY positioning accuracy: <math>\leq \pm 0.05 \text{ mm}/300 \text{ mm}</math></li> <li>• Repeat accuracy: <math>\leq \pm 0.03\text{mm}</math></li> <li>• Workbench load-bearing: <math>500\text{kg}/\text{m}^2</math></li> <li>• Machine size: 5500X2800mmX2050mm</li> </ul>	
2	<b>Cutting platform</b>	<ul style="list-style-type: none"> <li>• The workbench is independent of the frame, eliminating vibration and temperature deformation; maintaining long-term work without deformation.</li> <li>• The water tank is reliable and durable, made of 5mm thick steel. Height 750mm.</li> <li>• Easy to load and unload</li> <li>• The use of replaceable grille bars allows for easy and low cost replacement in the future for future use.</li> <li>• The support grating is made of galvanized steel, with a material height of 100mm and a spacing of 60mm.</li> <li>• Laser cut grooves for good consistency.</li> </ul>	

<p>3</p>	<p><b>Frame</b></p>	<p>The side frames are of cast construction and injected concrete. Ensure necessary stiffness under harsh working conditions. We process them with planers and other professional methods to eliminate deformation and ensure long-term accuracy of the machine.</p>	
<p>4</p>	<p><b>Dustproof stainless steel cover</b></p>	<p>The whole machine is protected by a stainless steel cover, which is durable and reliable.</p>	
<p>5</p>	<p><b>Oil Immersed Structural System</b></p>	<ul style="list-style-type: none"> <li>• It adopts high-quality international brand ball screw, ABBA, IRSO linear drive guide structure to ensure the moving speed and accuracy of the cutting head.</li> <li>• The oil-immersed structure can ensure the accuracy and greatly extend the service life of the screw and linear guide.</li> </ul>	

6	<b>Z-axis system</b>	<p>Linear guides IRSO ball screws          ABBA Z-axis systems WISE servo motors Programmable Z-axis closed protection design</p>	
7	<b>Lubrication system</b>	<ul style="list-style-type: none"> <li>• Automatic lubrication system</li> <li>• Oil level indicator</li> <li>• Oil circuit distribution</li> </ul>	
8	<b>Ultra-high Pressure Booster Cabinet</b>	<ul style="list-style-type: none"> <li>• Number of boosters in the pump: 1</li> <li>• Maximum working pressure: 420Mpa</li> <li>• Work pressure: 350MPa</li> <li>• Boost ratio: 20:1</li> <li>• High pressure pump motor power: 37 kW</li> <li>• The main components of the supercharger come from the United States</li> <li>• (Accustream)</li> </ul>	
		<ul style="list-style-type: none"> <li>• Accumulator capacity: 1.2L</li> <li>• Maximum water consumption: 3.8l/min</li> <li>• Maximum nozzle diameter at maximum pressure: 0.33mm</li> <li>• Fuel tank capacity: 100L</li> <li>• Cooling system: plate heat exchanger</li> <li>• Voltage 380 Volt three phase 60 Hz ( can custom)</li> <li>• Water pressure required for pump water flow: at least 6 bar</li> <li>• Size: 1950*1230*1070mm</li> <li>• Weight: 1200kg</li> </ul>	 

<p>9</p>	<p><b>Accumulator</b></p>	<ul style="list-style-type: none"> <li>• Maintenance-free, American technology 1.2L capacity</li> <li>• Large capacity accumulator provides more stable system pressure and higher cutting efficiency</li> </ul>	
<p>10</p>	<p><b>Water filter</b></p>	<ul style="list-style-type: none"> <li>• Japanese two-stage water filter (5 μm, 10 μm), minimizing damage from impurities to high-pressure seals, nozzles and other components, increasing water supply uptime without problems.</li> <li>• Oil outlet and return oil multifunctional filter</li> </ul>	
<p>11</p>	<p><b>Protective function</b></p>	<ul style="list-style-type: none"> <li>• Two-stage water supply ensures water pressure, activates the automatic alarm function, and automatically activates the protection function when there is water shortage to avoid damage to the machine due to insufficient water pressure.</li> <li>• Automatically stops when over pressure occurs. And when the pressure is insufficient, the protection</li> <li>• function is activated to make the machine work safer. Stainless steel water pump will not rust.</li> </ul>	 <p><b>supply protection</b></p>  <p><b>gauge</b></p>

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**CNC Control System**

- Software: Weihong CNC NCstudio V10 English or Russian (language can be customized)
- Operating system "Windows 10" and cutting control
- program "NC Studio"
- 19-inch screen display
- High performance industrial control computer.
- Motherboard compatible with Intel processors
- RAM - 2 GB;
- Hard drive:- 60GB;



**CNC Control System**



**Schneider Electric**

- The dustproof and waterproof grade is up to IP55, ensuring stable operation in factory areas with poor environment.
- Keyboard USB - USB
- Compatible
- The software is compatible with drawing programs such as AutoCAD through DXF and DWG codes.



**Weizh i servo motor**

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**Software function**

- Function to continue from the same point after stopping.
- Automatic programming function.
- Precut path simulation function
- Automatic tool compensation adjustment function.



**Weihong Software**



**Software English (can be customized)**

<p style="text-align: center; font-size: 2em; font-weight: bold;">14</p>	<p style="text-align: center; font-weight: bold;">Automatic Sand Supply System</p>	<ul style="list-style-type: none"> <li>• Abrasive tank 200kg</li> <li>• The abrasive is supplied under compressed air pressure (5-7 bar) to the metering device for supplying the abrasive.</li> </ul>	
		<ul style="list-style-type: none"> <li>• Continuous and automatic supply of abrasive to the cutting head ensures continuous cutting.</li> <li>• No electronic control is required, and it will automatically sound an alarm when there is insufficient sand. No maintenance required.</li> <li>• The large capacity provides up to 8 hours of continuous cutting.</li> </ul>	
<p style="text-align: center; font-size: 2em; font-weight: bold;">15</p>	<p style="text-align: center; font-weight: bold;">5-axis cutting head</p>	<ul style="list-style-type: none"> <li>• FUSION 5-axis-AC cutting head system is specially designed to meet the higher requirements of customer cutting.</li> <li>• waterjet cutter head, equipped with a new 5-axis cutter head, performs chamfering and bevel cutting with the highest precision. Widely used for cutting gradients of impellers, angles, cambered surfaces and other complex surfaces</li> <li>• 5AXIS-AC cutting head system adopts original design, is smaller in size, lighter in head weight, and can achieve a full range of 75-degree rotation movement.</li> <li>• The angle can reach 45 degrees to meet customers' increasingly complex cutting requirements.</li> </ul>	

<p><b>PRICE</b></p>	<p><b>68,25,000/- INR + GST 18% +TRANSPORATION</b></p>
<p><b>Payment Terms &amp; Conditions</b></p> <p><b>Local Tax</b></p> <p><b>Warranty Period</b></p> <p><b>Delivery</b></p> <p><b>Transposition</b></p> <p><b>Payment</b></p> <p><b>Order Confirmation</b></p> <p><b>Installation &amp; Training</b></p> <p><b>Training &amp; Service</b></p>	<p>GST 18% will be charged extra. All over India purchaser</p> <ol style="list-style-type: none"> <li>1. One year against faulty parts of the CNC machine. Machine warranty is start from Invoice date one year's warranty.</li> <li>2. Our warranty of machine does not cover the damages caused through fire created by any means, outside force, operation's mistake, natural calamity. Items not covered under warranty such as Tool &amp; Collet. No Warranty for Vacuum pipes and dust collector pipes.</li> <li>3. Spindle have 6 months warranty</li> </ol> <p>Within 65 to 75 days after the receipt of order confirmation sign and stamp and Advance payment dated.</p> <p>Delivery Charge will Extra from customer side (Ahmedabad H.O.)</p> <p>50% Advance along with Purchase Order and the buyer shall pay balance payment 50% in advance before shipment and the seller shall arrange shipment after receiving the payment. Demand Draft / At Par Cheque for the payment should be in the name for "FUSION CNC TECHSYSTEMS LLP" payable at Ahmedabad Demand Draft / At Par Cheque for the payment should be in the name for "FUSION CNC TECHSYSTEMS LLP" payable at Ahmedabad</p> <p>Once the offer is accepted by purchaser by purchase order in writing or on receipt of the advance amount, such order shall be deemed to be confirmed orders. If the purchase order is cancelled then the advanced payment amount is not refundable.</p> <p>FUSION will depute service engineer charge for installation and training to the purchaser. Only actual expense for traveling, boarding and lodging will be charged extra. The purchaser shall be ready with the installation requirements (space, raw material, electrical connections, compressed air, Stabilizer as per requirement and tools etc.). FUSION will require 3-4 days to plan and depute service engineer at your site, if you require more days for training so per day charge is INR 5000.</p> <p>FUSION will provide operational training to customer's technical team. Once installation gets completed and machine is handed over to customer, all trainings required in future, will be on paid basis.</p>
<p>For Service During warranty period free of cost, Only actual expense for traveling, boarding and lodging will be from Customer side.</p>	
<p><b>Dispute</b></p>	<p>All disputes will be subject to Ahmedabad jurisdiction</p>



PROUD TO BE MEMBER OF



Centre for  
Development of Stones



CONTACT US

**FUSION CNC TECHSYSTEMS LLP**



**Corporate Office:** A 1104-1105, Money Plant High Street, Jagatpur Road, Sarkhej - Gandhinagar Hwy, nr. BSNL Office, Gota, Ahmedabad, Gujarat 382470 **Factory:** Plot No. 3, Dantali Industrial Estate, Village, Dantali Taluka Kalol, Dist. Gandhinagar (India) 382721



+91 9824236644

+91 7861866734



info@fusioncnc.in