WATTSAN 6090 ST

Medium format laser machine Wattsan 6090 ST is designed for serial production and cutting of non-metallic materials.

The device is characterized by reliable assembly, high-precision machining (positioning accuracy up to 0.01 mm) and easy operation.

Cutting: wood, plywood, cardboard, paper,

plastics, plexiglass (acrylic), leather,

fabric, fur, PET, MDF, rubber, paronite, foam rubber

Engraving: wood, plywood, cardboard,

plastics, rubber, leather, fabric, fur, plexiglass (acrylic), PET, MDF, glass,

stone etc.



Product parameters

Model	6090 ST
Brand	Wattsan
Laser type	Sealed CO2 laser tube
Application	Cutting, engraving
Warranty	1 year
Dimensions	
Working area	600 * 900 mm
Machine size (L * W * H)	1030 mm * 1490 mm * 670 mm + 315 mm (if on its wheels)
Packing size	1110 * 1580 * 755 mm
Weight	230 kg
Optics	
Laser power	80-90 W
Engraving depth	1.5 mm
Max. cutting thickness (wood)	10 mm
Diameter of mirrors	25 mm
ZnSe lens	o20 f-50
Focal length	50 mm
Laser tube life	7500 h

Mechanics	
Table model	Lamels
Lifting table	No
Lowering depth of the work table	40 mm
Control system	Ruida RDC 6445G
Cutting speed	0-500 mm/s
Engraving speed	0-700 mm/s
Cooling	Water
Working temperature	10-35
Electric power supply	220V
Power consumption	1500
Through table	Yes (Y-axis)
Y-axis structure	Linear guide AMT PMI MSB 15S
X-axis structure	Linear guide AMT PMI MSB 15S
Engine on X	57-H350CS / SH
Engine Y	57-H350CS / SH



Sphere of application

Souvenir industry, decor, light and heavy industry, funeral services, prototyping and much more. Laser cutting machines are used as stand-alone devices and in combination with other machines, as well as auxiliary equipment for production.

Lamella table

To improve its quality, the machine is equipped with an anodized coated lamella table that prevents the beam from being pulled on the material or on the operator.

A lamella table is ideal for cutting, but if engraving is your priority, we can install a honeycomb table for this task that is much more suited to the task.

Anodized lamellas eliminate the possibility of backward

Anodized lamellas eliminate the possibility of backward shooting of the laser beam.



Advantages:



Strengthened portal
the wall thickness of the aluminum pipe
is 5mm, even at maximum speed you
will get a perfect engraving.



Ruida 6445G the most widely used laser control system in the world. The new modification has an enlarged display.



Belt gear reducer and 3M belt
has an increased service life due to the size
of the tooth, and also excludes the coin
cut due to special materials.
Relieves stress on stepper motors,
extending their service life.



Frame construction
the uniqueness of all Wattsan laser
machines is the presence of a frame
structure, this increases the weight of the
machine and eliminates vibrations even
at high speeds.



PMI rails
guarantee high accuracy throughout
the entire service life of the machine.
It is the most widely used brand in
the whole world.



Three Phase Stepper Motors

They are characterized by increased accuracy and reliability, as well as provide a smaller step when engraving.



Unique cutting head

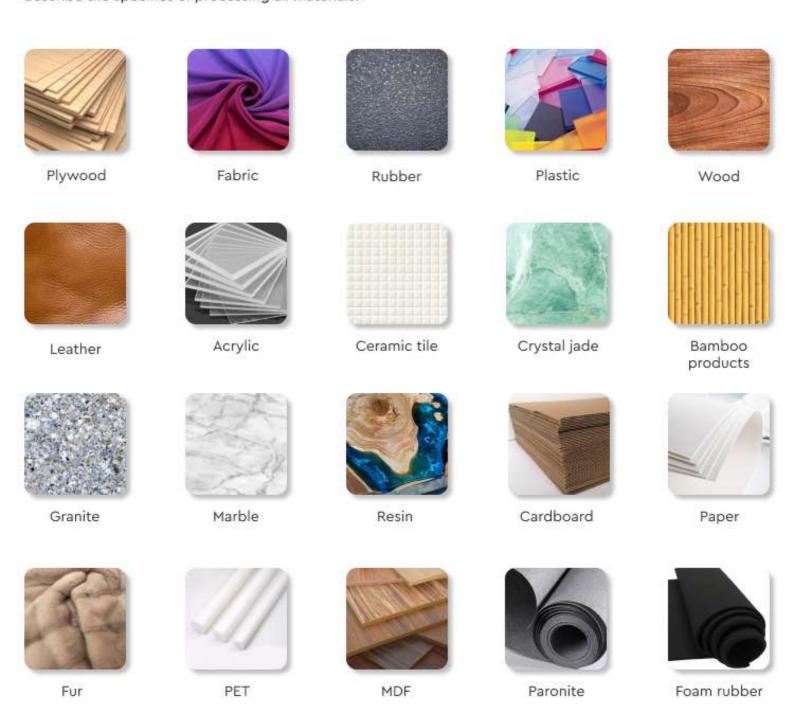
We design our machines with universal cutting heads with wide and narrow nozzles. The wide nozzle blows away combustion residues and promotes better engraving. The laser head is designed for use with lenses with different focal lengths.

All machine tool upgrades are aimed at improving the end result, taking into account the opinions of customers. The products obtained in Wattsan machines do not require additional processing. We consider many factors so that our customers can get the best quality products at a lower cost. Each laser machine is designed to work 24/7.



Processable materials:

Laser machine Wattsan 6090 ST is designed for cutting and engraving on a wide range of materials. Our task is not only to choose the right machine, but also to describe the specifics of processing all materials.



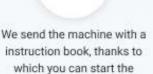


Training to work on the machine

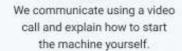
Our machines are used all over the world with a huge variety of materials.

We are constantly gaining experience and will advise not only how to choose the optimal parameters for work, but also help to organize production.

If you have any questions about working with any material or your vector, our manager will send you a video of working with it!



machine yourself.





An engineer from China arrives to you and gives training on how to work with the machine.



The nearest dealer (may be from the same or a neighboring country) will arrive to you and give instructions.

We are improving our equipment so that you get the best!

70 engineers

In order to use our machines all over the world, for customers, we make them as reliable as possible and select the most popular consumables.



43000 factory area 24/7 communication

Well-organized processes at all stages



Durability

In order to use our machines all over the world, for customers, we make them as reliable as possible and select the most popular consumables.



Development

The development department designs the machines so that they are suitable for all areas of production. Wattsan machines are designed to work in a 24/7 mode.



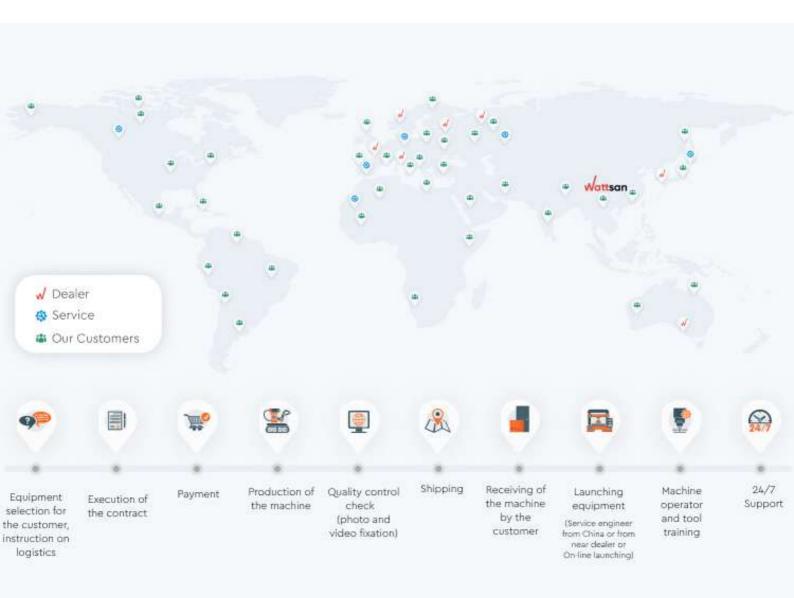
Training

Wattsan has developed and is constantly improving a support system, training for customers and partners, which allows you to start using the equipment in a short time, avoid simple mistakes and get an immediate response from the service department.



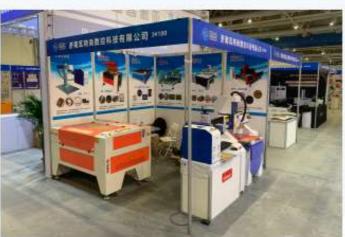
Quality

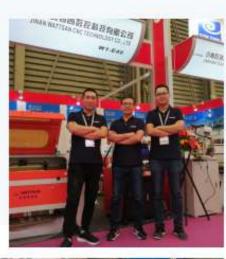
We use modern highprecision equipment for the assembly of machine tools. This is a guarantee of the highest rate of accuracy of machines throughout the entire life of the equipment.



Exhibition











Certificates

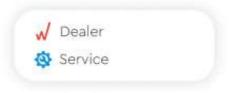








When choosing components for our machines, we not only select the best components, but also control their availability in other countries for quick service by our customers or service engineers around the world.



We will show the machine in On-line mode

Our employees will conduct a demonstration of the machine on-line or send you a video of cutting (engraving) your material according to your layout If necessary, service engineers will resolve most of the issues that arise using video communication.













