WATTSAN 1290 LT

The large format laser machine **Wattsan 1290 LT** is designed for cutting and mass production of products from non-metallic materials.

The device provides high precision machining with positioning accuracy up to 0.01mm, is easy to use and durable.

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	1290 LT
Brand	Wattsan
Laser type	Sealed CO2 laser tube
Application	Cutting, engraving
Warranty	1 year
Dimensions	
Working area	1200 * 900 mm
Machine size (L * W * H)	1410 mm * 1790 mm * 670 mm + 315 mm (if on its wheels)
Packing size	1880 * 1490 * 810 mm
Weight	368 kg
Optics	
Laser power	100-120 W
Engraving depth	3 mm
Max. cutting thickness (wood)	10-13 mm
Diameter of mirrors	25 mm
ZnSe lens	o20 f-50
Focal length	50 mm
Laser tube life	10000 h

Mechanics	
Table model	Lamels
Lifting table	Yes
Lowering depth of the work table	160 mm
Control system	Ruida RDC 6445G
Cutting speed	0–500 mm/s
Engraving speed	0–700 mm/s
Cooling	Water
Electric power supply	220V
Power consumption	2050
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-H350C / SH
Engine Y	57-H350C / 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.

Lifting table

The lifting table allows the use of a rotary device. Due to the rare use of the rotary device, the machine is equipped with a manual lowering of the table. At the request of the client, the lift of the table can be automated.

Advantages:

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.

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

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

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.

Through table
the most important advantage of our machine is its ability to work with unlimited lengths of material. The design of the equipment allows you to remove the front wall and use it for cutting free space.

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 1290 LT 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.


Plywood


Fabric


Rubber


Plastic


Wood


Leather


Acrylic


Ceramic tile


Crystal jade


Bamboo products


Granite


Marble


Resin


Cardboard


Paper


Fur


PET


MDF


Paronite


Foam rubber

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!

We send the machine with a instruction book, thanks to which you can start the machine yourself.

We communicate using a video call and explain how to start the 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

13
years

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 high-precision 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.

Equipment selection for the customer, instruction on logistics

Execution of the contract

Payment

Production of the machine

Quality control check (photo and video fixation)

Shipping

Receiving of the machine by the customer

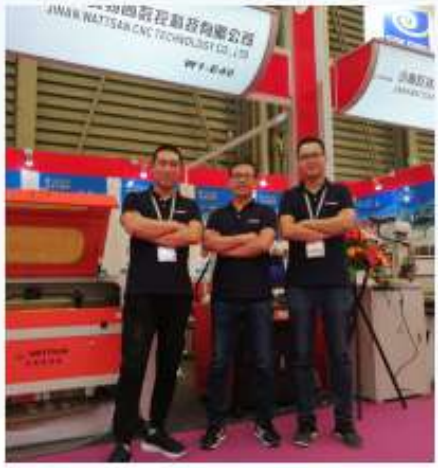
Launching equipment

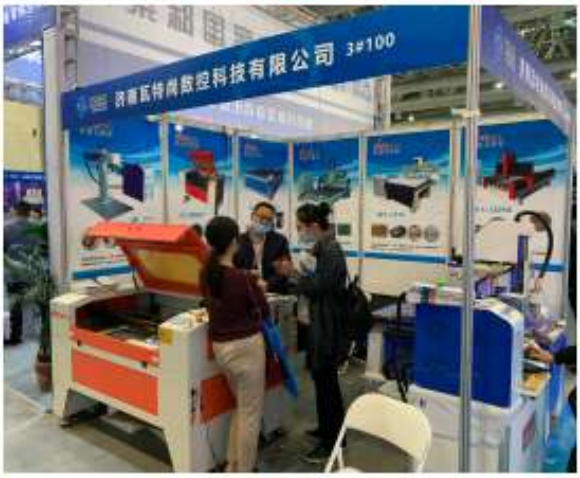
(Service engineer from China or from near dealer or On-line launching)

Machine operator and tool training

24/7 Support

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.

Dealer
Service

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.

Advantages:

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.

Strengthened portal
the wall thickness of the aluminum pipe is 3mm, even at maximum speed you will get a perfect engraving.

Conveyor table
The surface, open on all sides, is mainly used for processing roll materials, which is convenient when working with fabrics or films, but the machine is also suitable for working with sheet materials.

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

CANON scanning camera
The main competitive difference of this model is the presence of a CANON scanning camera. The device, fixed in the cutting head of the machine, recognizes the outline of the image, scans it and transfers it to the computer.

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.