

4030 Desktop CO2 Laser

Compact 400 x 300 mm CO2 laser engraving and cutting machine



A practical desktop CO2 laser for makers, schools, small businesses and engraving shops that need a compact machine without giving up useful work height, reliable control and real cutting performance.

400 x 300 mm work area	50W laser power	Ruida 6445 controller	12 mm rails
---------------------------------------	----------------------------	----------------------------------	--------------------

Built for serious desktop work

The 4030 desktop CO2 laser gives customers a compact 980 mm wide x 630 mm deep x 435 mm high footprint while still offering a useful 400 x 300 mm engraving area. It includes both a honeycomb bed and blade bed, along with a motorised table for easier height adjustment and more flexible setup. It is suitable for short-run production, prototyping, awards, gifts, signage, model making and general workshop engraving.

Larger practical capacity

The cabinet, motorised table and working height allow jobs that many small desktop lasers struggle with, including engraving a 1 litre bottle when set up with the correct rotary arrangement.

Ruida control system

Uses the Ruida 6445 controller, giving the machine a familiar professional control platform for engraving and cutting workflows.

Stronger motion hardware

12 mm rails provide a more solid motion system than very light hobby-style machines, helping with repeatability and smoother movement.

Flexible work beds

Supplied with both a honeycomb bed and blade bed, giving customers a better setup for thin flexible materials, acrylic, timber and general cutting or engraving work.

Positioning idea

This is not just a small hobby engraver. It is a compact CO2 machine aimed at customers who want a desktop size but still need useful cutting, engraving depth, rotary capability and a more professional controller.

Key specifications

Model	LZRMN 4030 Desktop CO2 Laser
Working area	400 x 300 mm
Laser power	50W CO2 laser tube
Machine dimensions	980 mm wide x 435 mm high x 630 mm deep
Weight	Approx. 120 kg in crate; approx. 80 kg out of crate
Controller	Ruida 6445 controller
Linear rails	12 mm rails
Work beds	Honeycomb bed and blade bed included
Table	Motorised table
Exhaust	Built-in exhaust system
Cooling supplied	Water pump included
Cooling option	Water chiller optional extra
Typical acrylic cutting example	3 mm acrylic at approximately 14 mm/sec*
Bottle engraving	Capable of engraving a 1 litre bottle with the correct rotary setup*
Suitable materials	Acrylic, timber, MDF, plywood, leather, paper, card, coated engraving laminate and selected plastics
Not for	Bare metal cutting or metal engraving without marking compound/coating

Why the Ruida controller matters

The Ruida 6445 controller makes the 4030 easier to position as a more capable desktop machine. It gives customers a controller platform commonly found on larger CO2 lasers, making the machine more familiar to users moving between desktop and larger workshop machines.

What the 4030 can do

Acrylic gifts and signs

Cut and engrave acrylic for keyrings, signs, display pieces, LED bases, templates and small production runs.

Timber and MDF products

Engrave and cut timber, plywood and MDF for craft items, model components, plaques, jigs and packaging pieces.

Drink bottle and tumbler work

The extra usable clearance gives the 4030 a key selling point: it can engrave a 1 litre bottle with the correct rotary setup.

Leather, card and paper

Suitable for engraving and cutting leather patches, paper templates, cards, stencils and packaging prototypes.

Awards and personalised items

Create name plates, trophies, plaques, pet tags, labels, school projects, presentation pieces and custom gifts.

Small business production

A good option for customers wanting a compact machine for Etsy-style products, markets, workshops or add-on engraving services.

Customer-facing performance message

The 4030 is a compact desktop CO2 laser that can still do real work. A practical example is cutting 3 mm acrylic at around 14 mm/sec and engraving larger bottle-style products that many desktop machines cannot physically handle.

Supplied items and optional upgrades

Included / built in	Recommended optional extras
- 4030 desktop CO2 laser machine - 400 x 300 mm work area - Ruida 6445 controller - 12 mm rail motion system - Honeycomb bed - Blade bed - Motorised table - Built-in exhaust - Water pump - Basic setup support from LZRMN Australia	- Water chiller for heavier use or warmer environments - Rotary attachment for bottles and cylindrical products - Air assist upgrade if required - Extraction ducting or filtration to suit the workspace - Starter material pack for training and testing

Sales description

The LZRMN 4030 desktop CO2 laser is designed for customers who want a compact machine but still need useful working space, reliable control and proper engraving/cutting ability. With a 400 x 300 mm bed, 50W CO2 laser power, Ruida 6445 controller, 12 mm rails, honeycomb bed, blade bed, motorised table, built-in exhaust and supplied water pump, it gives beginners and small businesses a strong entry point into CO2 laser production.

It is suitable for acrylic, timber, MDF, plywood, leather, paper, card and a wide range of personalised product work. A key advantage over many small desktop lasers is the ability to engrave larger cylindrical items such as a 1 litre bottle when paired with the correct rotary setup.