

CNC 3D ROUTERS 2020 PHIDIAS SERIES





MEGAPLOT was established in 1997 when its two co-founders and current co-owners built their first CNC hot wire machine. Over the last 22 years we have gained extensive experience in CNC machinery designing, manufacturing, selling and servicing. We are well-known for our excellent pre- and post-sale technical support appreciated by our customers worldwide. Our hot wire EPS and XPS hot wire foam cutting machines, XTR PRO fast wire cutters as well as 3D CNC Phidias routers are known not only for their reliability and innovation but also their ease of use - all this thanks for the fact we design and built our equipment from scratch, including all mechanical components, electronics design and manufacturing, as well as software coding.



We are proud to have developed into a company represented by over 45 distributors worldwide and having over 5500 customers in over 50 countries on 5 different continents.



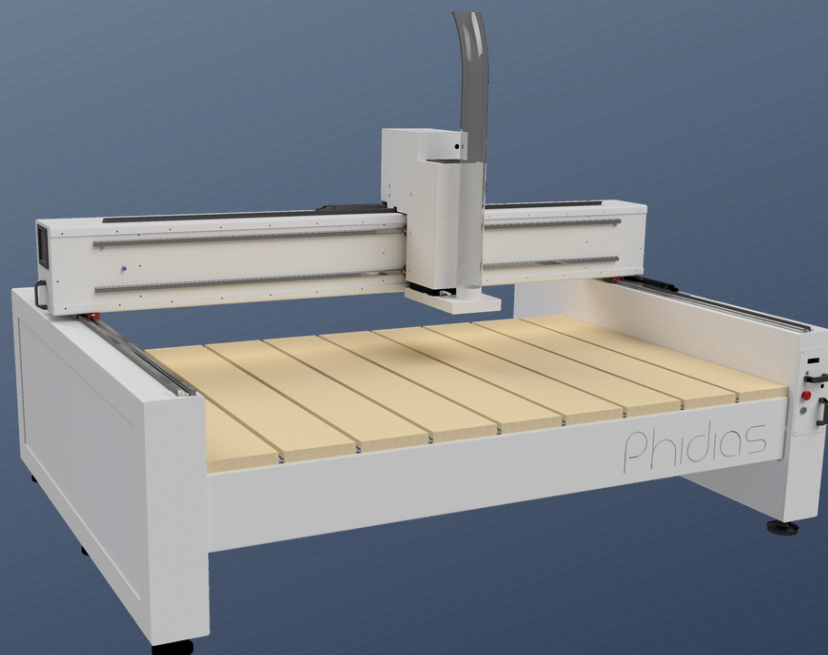
www.megaplot.org

Our 2020 Phidias routers are professional 3D CNC machines with an extremely attractive price-to-feature ratio. Megaplot's 23 years of experience in machinery design, manufacturing and servicing allowed us to create a robust, fast and modern series of routers meeting the expectations of today's market.

The completely new steel frame not only provides a robust and durable machine table resulting in high-quality items, but is also modular and can be easily transported and installed in hard-to-reach areas (a 90 cm wide door opening is sufficient even for the larger 2050x3050 mm model).

We've decided to equip these routers with - among others - servo drivers, helical cog gears and profiled linear rails of well-known and respected manufacturers to enable the max. transit speeds of up to 30.000 mm/min. while maintaining very high quality of the finished product.

The control system consists of our well-know and appreciated MegaCut and MegaCut 3D set of applications - the ease of use and low learning curve will get you up and running on day 1. As always, both MegaCut applications come with unlimited, free updates for all MegaPlot customers.

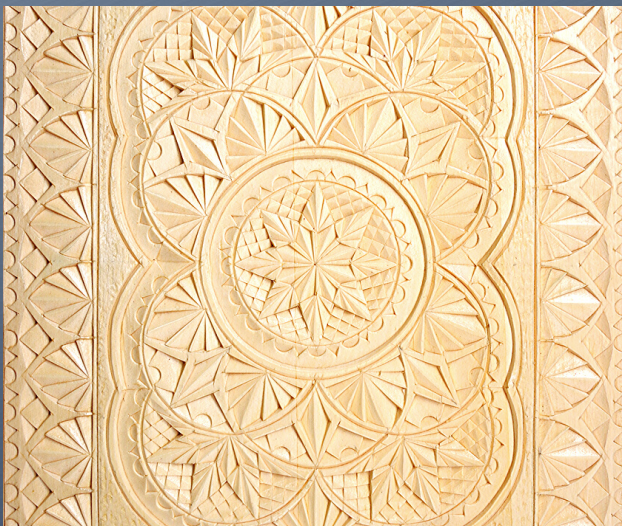


HIGHLIGHTS:

- Heavy-duty, beautiful industrial design
- high-end specs at great price
- modular design for convenient freight and assembly
- working areas of 1570x2070 mm and 2070x3070 mm
- Z-axis (up-down) of 200 mm
- servo motors, helical gears, hiwin linear guides, etc.
- up to 30 meters/minute transit speed
- advanced and intuitive MegaCut & MegaCut 3D software

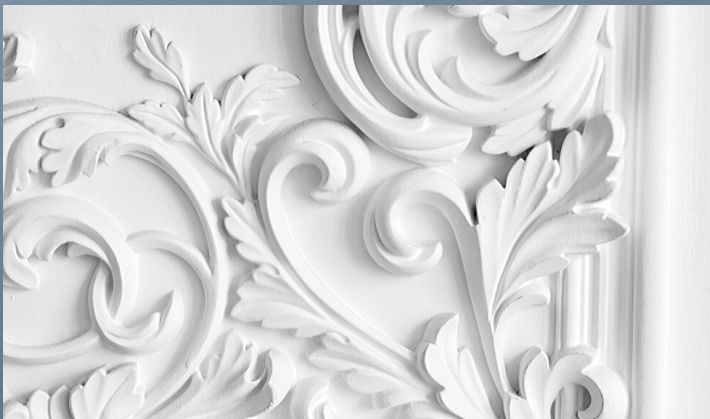
PHIDIAS 3D CNC ROUTERS ARE IDEAL FOR:

- wood
- plywood
- PVC
- plexiglass (PMMA)
- dibond
- XPS
- aluminum, brass, copper
- and other similar materials



TYPICAL APPLICATIONS

- Sign making
- Furniture industry
- Cabinet making
- Wood carving
- Architectural details
- Aluminum machining
- Plastic Sheet machining
- Prototyping & Modeling
- Musical Instruments
- Exhibits/Tradeshows



	PHIDIAS 1520	PHIDIAS 2030
WORKING AREA	1570 X 2070 mm	2070 x 3070 mm
EXTERNAL DIMENSIONS	2750 x 2120 mm	2750 x 3620 mm
Z-AXIS	200 mm	200 mm
MAX. TRANSIT SPEED	15 000 mm/min. (upgradeable to 30 000 mm/min.)	
SPINDLE	brushless, 3.0 kW, 18 000 rpm, inverter-controlled, air-cooled (upgradeable to 5kW)	
X & Y DRIVES	AC servo motors, brushless	
TOOL FIXING	ER20, 3mm & 6mm collets included (max. 13 mm) (ER 32 for the 5kW spindle)	
TABLE	aluminum T-profiles with MDF filling plates (upgradeable to PVC filling plates)	
SOFTWARE	MegaCut & MegaCut 3D with unlimited free updates	
ELECTRONIC RESOLUTION	0.005 mm	
MECHANICAL ACCURACY	0.1-0.3 mm depending on tool, material & type of cut	
MACHINE FRAME	steel, welded and bolted	
WARRANTY	12 months	
POWER REQUIREMENTS	AC 230V (1 phase) up to 5kW	
INCLUDED IN THE PRICE	Phidias CNC router, MegaCut & MegaCut 3D software with unlimited free updates a set of bits unlimited free training in our factory in Poland	
NOT INCLUDED IN THE PRICE	Windows PC necessary to control the machine Graphics software, e.g. CorelDraw Delivery, installation and training on site	

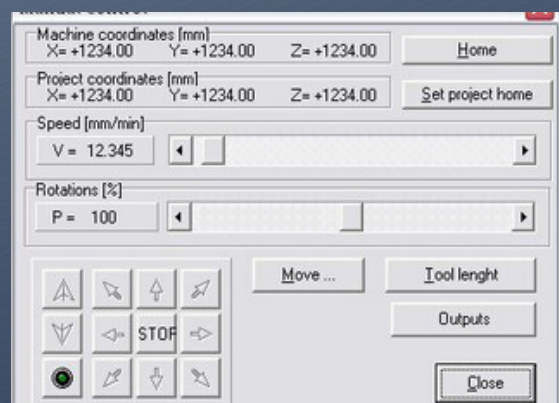
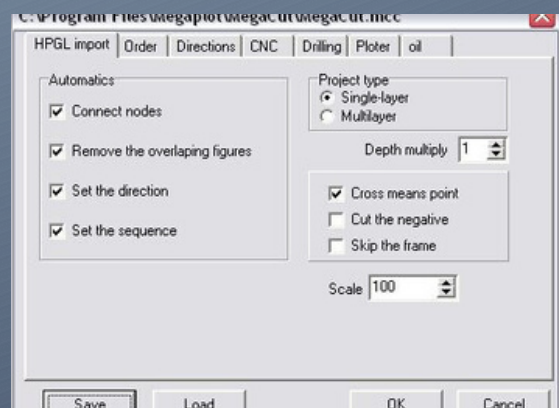
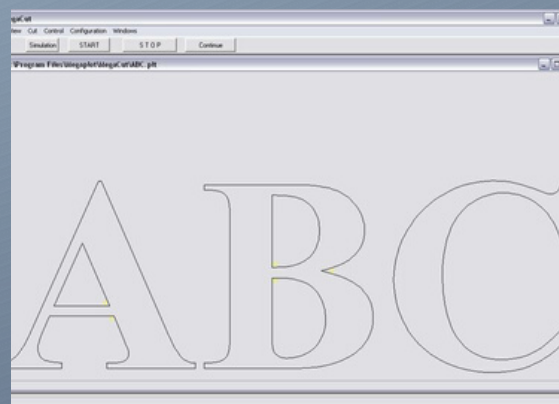
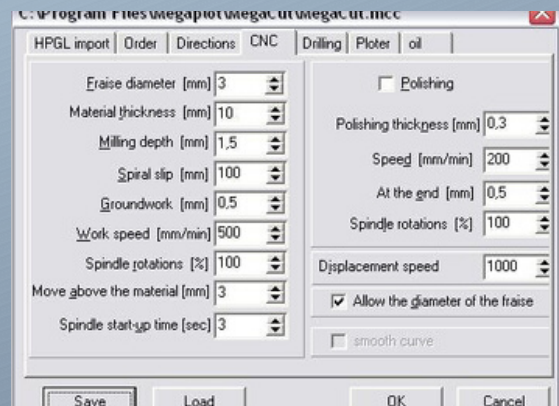
SOFTWARE

Each Phidias router comes with two proprietary applications (with unlimited free upgrades):

- MegaCut 2D with Hpgl.plt (e.g. CorelDraw), dxf (e.g. AutoCad) and G-Codes (e.g. VisualMill, SolidWorks) support
- MegaCut 3D with RAW support (e.g. Rhinoceros 3D).

MEGACUT 2D

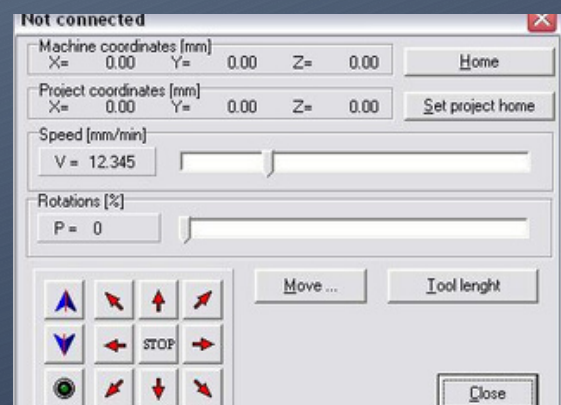
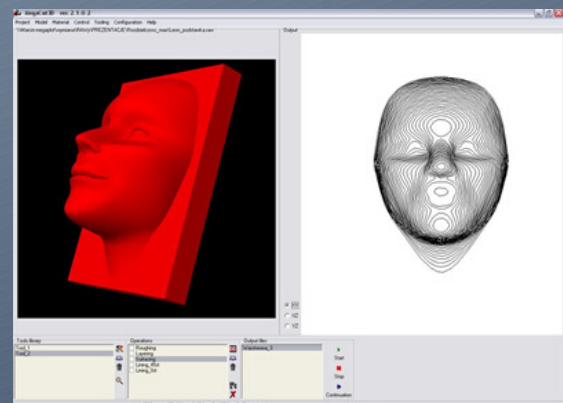
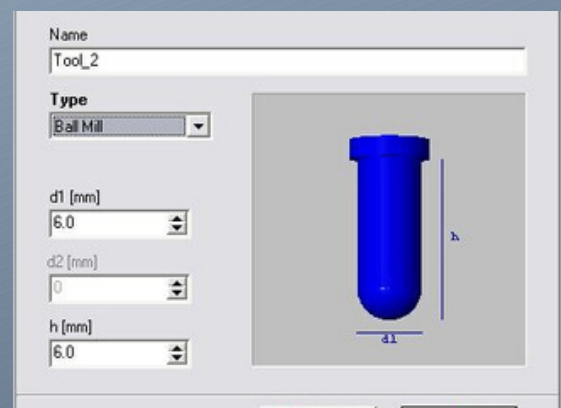
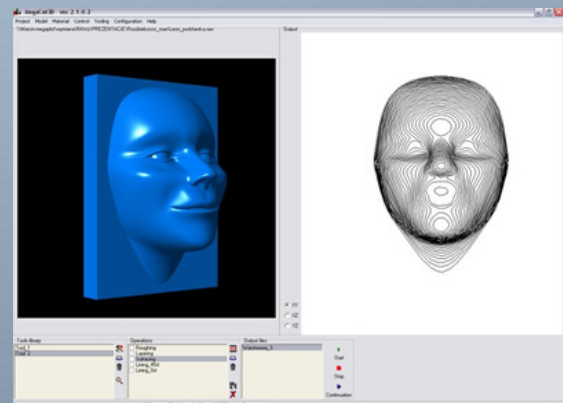
- tooling direction settings
- engraving order selection
- unlimited tool and settings libraries
- manual control in all 3 axes
- scaling
- tool path on-screen simulation
- 3 display modes:
 - direction,
 - sequence,
 - layers
- stop and continue tool
- "selected objects only" feature
- start with the selected object
- polishing and curve smoothing for better cutting quality



MEGACUT 3D

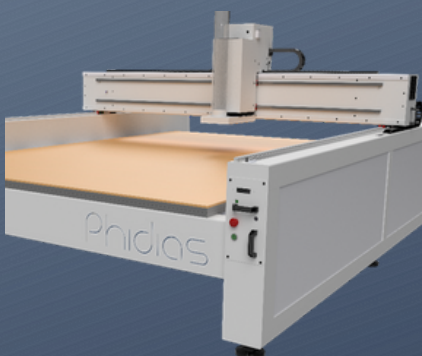
- included with all Phidias routers
- unlimited free upgrades
- 3DRAW format import
- unlimited tool libraries (ball, conical, end/slotting)
- unlimited operation libraries (roughing, layering, lining, lining from file, (HPGL.plt import), surfacing)
- material size - manual setting or left from roughing layer setting
- stop and continue full model preview with zooming and rotating in all directions
- output files preview - tool path view from 3 sides
- tooling resolution settings
- three different tool length measurements:
 - automatic,
 - semi-automatic
 - manual
- context help
- user-friendly interface

These user-friendly applications offer a number of useful settings and features enabling the operator to configure conveniently all the parameters of a cut, such as the cutting speed, spindle rotation, order and direction of cutting and many, many others.

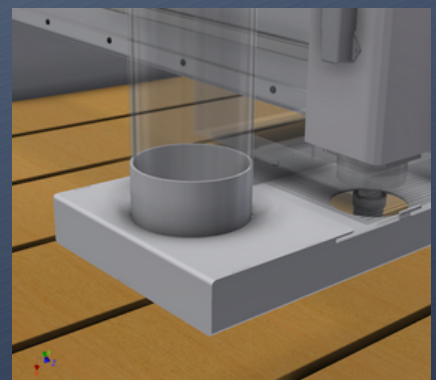


OPTIONAL ACCESSORIES

- INCREASED MAX. TRANSIT SPEED OF 30 000 mm/min.
- HANDHELD/REMOTE CONTROLLER WITH A DISPLAY
- CUTTING TOOL MIST COOLING - ideal for jobs requiring extensive bit cooling with coolant when working in aluminum, brass, copper, etc., also suitable for air-only cooling.
- PVC TABLE FILLING PLATES - recommended for those using bit cooling with coolant mist (see above), more durable than standard MDF padding.
- DUST SUCTION HEAD - custom design to perfectly fit the Phidias spindle assembly, easy to install and remove.
- VACUUM DUST COLLECTOR - compatible with the above dust suction head, powerful 3.75 kW 3-phase motor.
- 5 KW SPINDLE - professional air-cooled, brushless 5 kW spindle, 18.000 rpm, ER32 holder size.
- VACUUM TABLE - powerful 7.5 kW side channel pump, full MDF table, convenient mounting-free tooling.
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- ER20 BOX OF COLLETS - a full set of ER20 collets, sizes range from 2 mm to 13 mm



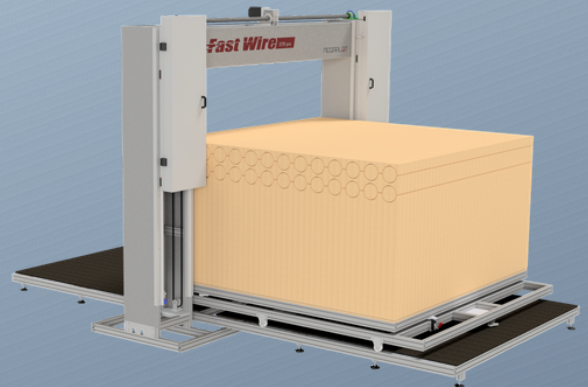
METERS
30
PER MINUTE



OUR OTHER MACHINERY LINES

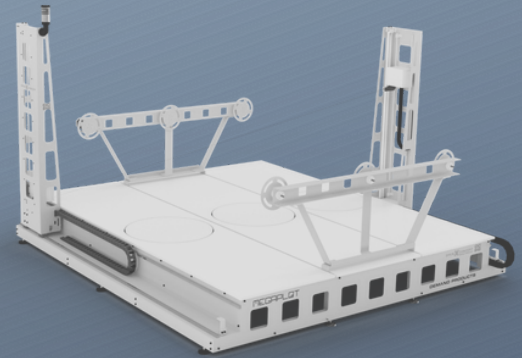
FAST WIRE XTR PRO

Abrasive wire cutter for contour and sheet cutting of soft and rigid foams. Perfect for cutting PU/PUR, PIR/ISO, PE&PP foams, EPS/XPS, rockwool, mineral wool, foamglass, visco foams and a wide variety of other materials.



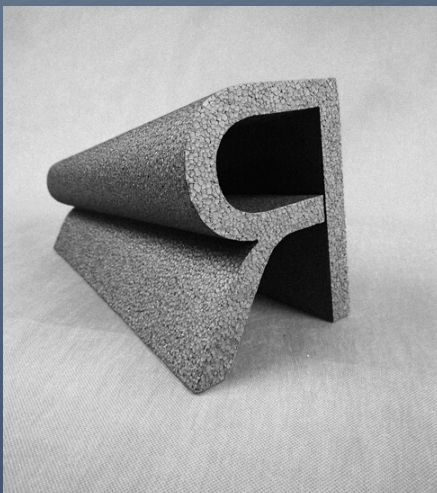
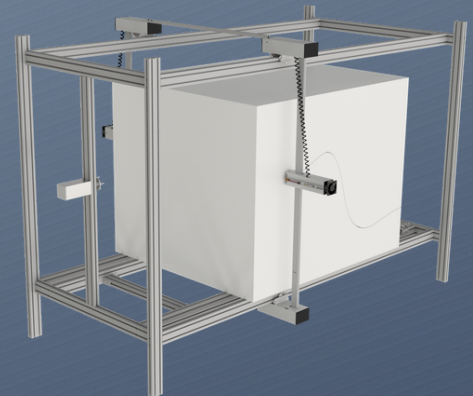
OPEN CONCEPT HOTWIRE CUTTERS

For contour and sheet cutting of EPS & XPS foams. Available in multiple sizes and configurations. Perfect for sloped roof cutting, architectural details, signage, packaging, insulation, molds for concrete, prototyping



HOTWIRE CNC CUTTERS

3 legacy series ranging from compact to industrial. Available in multiple sizes and configurations. Perfect for EPS and XPS.



Testimonials

"We purchased our Megaplot 3D hotwire cutting machine in 2014. We've been amazed with the ingenuity and quality of the machine. Megaplot offers fantastic value for money and some of the best after sales support in the Market".

Jeremy Smith, Director of Custompac Ltd (UK)

"I have dealt with Rafal at Megaplot for a number of years and, whenever we have requested parts or had an issue with our foamcutter or CNC machine, have found his quick response and professionalism second to none. We are based in New Zealand so were concerned about how we would get on dealing with a company over in Poland, but are extremely happy with Megaplot!"

Karen van Tiel, Accumen Shapes Ltd. (NEW ZEALAND)

We are the leading factory in Sweden for signs, logos and models in EPS/XPS, acrylic, foamed PVC and such. We currently own 2 foam cutters and 1 Laser made by Megaplot. We are extremely satisfied working with Megaplot. Pre-sales, sales and after-sales/technical service excels at their points. Fast response, fast deliveries of material/parts when needed. Accurate, easy to use software for machines. Our experience of Megaplot is all the best in any way. We see a bright future together with Megaplot.

Johan Ljoner, co-owner of ScandExpo AB (SWEDEN)

"The Max Frank GmbH & Co. KG purchased the MegaPlot hotwire cutting machine in 2014. We use a multi-wire-system, a single-wire-system and a turntable to produce formwork elements for the construction industry. We are very satisfied with the machine, the price-performance ratio and the extremely good after-sales support."

Helmut Gürster, Max Frank GMBH & CO. KG (GERMANY)

"I have been working as Megaplot agent in Israel for over five years. The equipment is very reliable, effective and well built. Still our clients have required support from time to time. The response from Megaplot has always been immediate and generous. I wish all my suppliers were as effective and service minded as Megaplot."

Amir Ghitis, KLA Trade & Engineering (ISRAEL)

'Since this is our second model of foam cutter from MegaPlot over the years we can only tell its reliable machines. But sometimes questions pop-up and in those cases Rafal at Megaplot always been very fast and helpful in his response."

Martin Danning, Sign Up Form & Dekor (SWEDEN)



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