

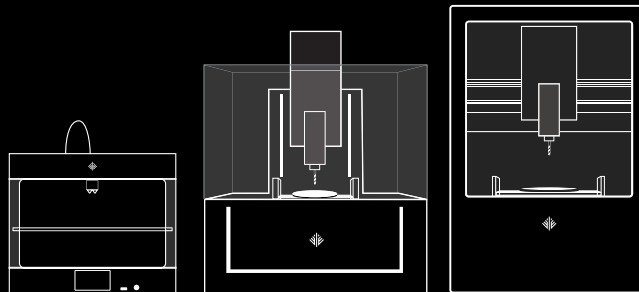


Ethereal Machines breathes by the mission of churning out entrepreneurs in the engineering world. Our machines are built to invigorate, nurture and embolden an engineer while unbridling the designer's freedom to create. Ethereal Machines brings about a conjunction between additive and subtractive manufacturing techniques.

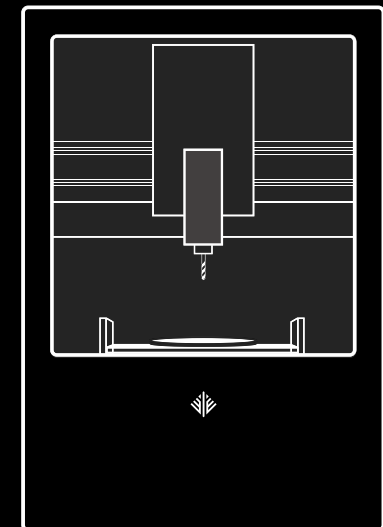
Our mission is to solve problems related to manufacturing faced by industries, engineers and makers and to aid the growth of small-scale and mid-scale entrepreneurs by equipping them with affordable machines.

Ethereal Machines specializes in manufacturing machines associated with additive and subtractive manufacturing. Ethereal Machines is based out of India and is an ISO 9001: 2015 certified company.

Ethereal Machines is also recognized as a startup under the 'Startup India' and 'Make in India' scheme by the Government of India.



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The Ethereal Pentagram

World's First Desktop Simultaneous 5 Axis CNC Machine

ETHEREAL Pentagram

The Pentagram has been designed to be the world's first desktop simultaneous 5-axis subtractive manufacturing machine. Equipped with the capabilities of machining a plethora of materials, the Pentagram is poised to disrupt the manufacturing industry.

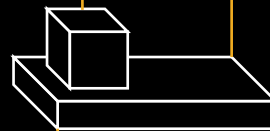
Pentagram has been made keeping in mind both the industrial and amateur users. The Pentagram is a one stop solution for manufacturing smaller moulds, machining wax, etching PCBs, cutting precision parts and creating novelty products. The machine is compatible with a wide range of designing softwares ensuring easy operability of the machine.



Features

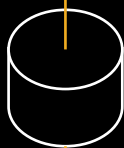
DESKTOP SIZE

Designed and engineered to occupy minimal floor space



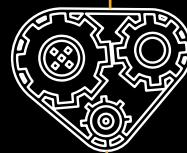
AMPLE WORK AREA

The Pentagram offers a work area of 200 ϕ x 200 mm



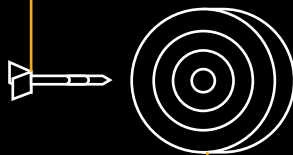
5-AXIS SIMULTANEOUS KINEMATICS

5-axis simultaneous movement to help reduce machining time



HIGH ACCURACY DRIVE MECHANISM

Achieved through utilization of accurately calibrated ball screws and linear guide rails



DEDICATED PC-BASED CONTROLLER

Real time monitoring and control of the machining job in progress



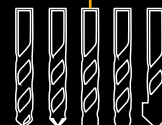
ENCODER FEEDBACK

Ensures zero by-pass of machining code



MULTIPLE TOOL SUPPORT

Permits employment of various tools to machine a spectrum of materials



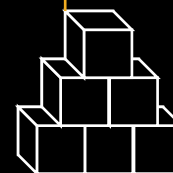
Z PROBE

Facilitates auto tool height compensation.



USER FRIENDLY INTERFACE

Ensures easy operability and aids in quick familiarization with the machine.



Tech Specs

Work Area	200 dia x 200 mm
Footprint	960 x 875 mm
Accuracy	60 microns
Load Bearing Capacity	25 kgs
Subtractive Manufacturing Materials	Soft Metals (Aluminum, Gold, Silver, Bronze, etc), Wax, Foam, Wood, Plastics, etc.
Dedicated PC-based Controller	Real time monitoring and control of the machining in progress
Spindle	2.2kW / 3.0 kW, DC motor, ER-20 tool holder
Working speed	2000mm/min
Power Supply	8 kW , 3 phase