

Agreement number 2023-1-RO01-KA220-HED-000155412

European Network for Additive Manufacturing in Industrial Design for Ukrainian Context





Innovative Engineering for Technical Teaching and Research Equipment











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ABOUT EDIBON

Design and manufacture Technical Teaching and Research Equipment in the field of

Engineering, with the most Advanced Technology and optimized instructive techniques.

OUR EQUIPMENT

UNIT DESIGN

Due to our 100% Own
Design, we are continuously
improving and designing
new units.

Units Design

Manufacturing

Quality Control

Installation and Training

After-Sales Service











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ABOUT EDIBON We manufacture more than 16,000 products to cover 14 technical areas: 1. PHYSICS 2. ELECTRONICS 3. COMMUNICATIONS 4. ELECTRICITY 5. ENERGY 6. MECHATRONICS, AUTOMATION & COMPUMECHATRONICS 7. MECHANICS 8. FLUID MECHANICS 9. THERMODYNAMICS & THERMOTECHNICS 10. PROCESS CONTROL 11. CHEMICAL ENGINEERING 12. FOOD & WATER TECHNOLOGIES 13. ENVIROMENT 14. BIOMEDICAL ENGINEERING











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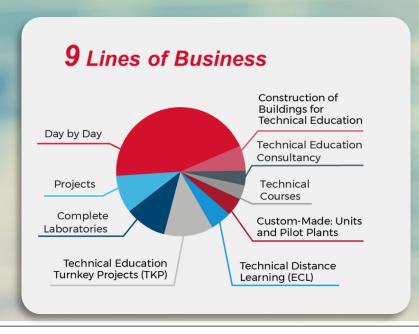
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ABOUT EDIBON

More about EDIBON





Other Certificates

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ABOUT EDIBON: EDIBON Lines of Business.

Principal







Secondary









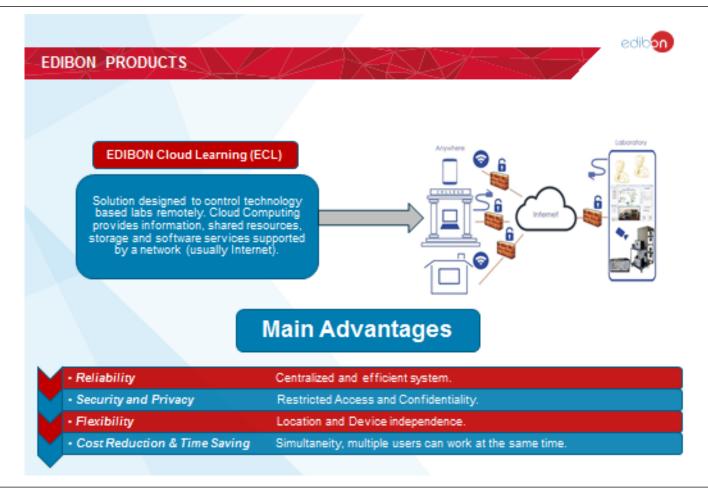






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Introduction to Additive Manufacturing

Definition: creation of a three-dimensional object by adding material layer by layer, based on digital model data



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Advantages

- Design Flexibility
- Rapid prototyping
- Cost efficiency for Low-Volume Production
- Material Efficiency
- Supply Chain Simplification



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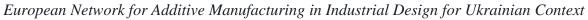








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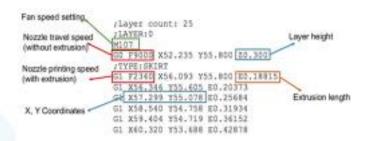






PROGRAMMING

Programming in additive manufacturing involves creating digital models and using specialized software to control 3D printers for precise layer-by-layer construction of objects. It ensures the accurate translation of designs into physical components by managing printing parameters and material usage.



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G-Code words			
G0	Rapid Linear Motion	G59.2	Select Coordinate System 8
G1	Linear Motion at Feed Rate	G59.3	Select Coordinate System 9
G2	Arc at Feed Rate	G80	Cancel Modal Motion
G3	Arc at Feed Rate	G81	Canned Cycles – drilling
G4	Dwell	G82	Canned Cycles – drilling with dwell
G10	Set Coordinate System Data	G83	Canned Cycles – peck drilling
G17	X-Y Plane Selection	G85	Canned Cycles – boring,no dwell, feed out
G18	Z-X Plane Selection	G86	Canned Cycles – boring, spindle stop, rapid out
G19	Y-Z Plane Selection	G88	Canned Cycles – boring, spindle stop, manual out
G20	Length Unit inches	G89	Canned Cycles – boring, dwell, feed out
G21	Length Unit milimeters	G90	Set Distance Mode Absolute
G28	Return to Home	G91	Set Distance Mode Incremental
G30	Return to Home	G92	Coordinate System Offsets
G53	Move in Absolut Coordinates	G92.1	Coordinate System Offsets
G54	Select Coordinate System 1	G92.2	Coordinate System Offsets
G55	Select Coordinate System 2	G92.3	Coordinate System Offsets
G56	Select Coordinate System 3	G93	Set Feed Rate Mode units/minutes
G57	Select Coordinate System 4	G94	Set Feed Rate Mode inverse time
G58	Select Coordinate System 5	G98	Set Canned Cycle Return Level
G59	Select Coordinate System 6	G99	Set Canned Cycle Return Level
G59.1	Select Coordinate System 7		











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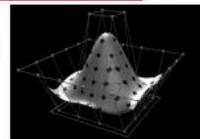




3D Modeling

Types of modeling

Modeling NURBS (Non-Uniform Rational B-Splines)



- Volumetric modeling





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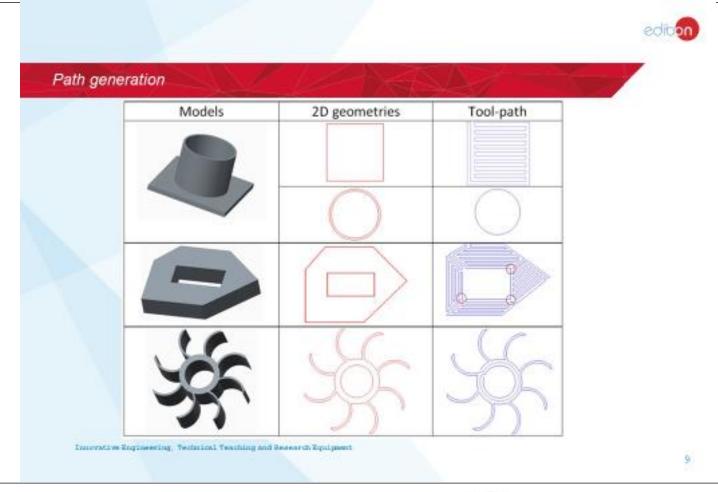






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