3D Printing Glossary		
Terminology	Meaning	
Numerical	· ·	
	3D bioprinting is the process of creating cell patterns in a confined space using 3D printing	
3D Bio Printing	technologies, where cell function and viability are preserved within the printed construct.	
3D Model	A three dimensional design usually produced using various 3D modeling softwares like CATIA, CREO, SOLIDWORKS	
3D Printing	Process of creating three dimensional object by depositing material layer by layer A process by which the shape and texture of real world object is captured and displayed as 3D	
3D Scan	Model	
3D Bioplotter	Well reputed 3D BioPrinting machine from Envisiontec.	
3Doodler	Is a kind of 3D Pen that can be used to draw three dimensional objects	
3D Sand Casting	Sand casting is a metal casting process characterized by using sand as the mold material	
A		
Additive Manufacturing	Process of creating three dimensional object by depositing material layer by layer	
ABS	A popular thermoplastic material heavily used in 3D Printing	
ADS	An organic solvent used to dissolve left over filament in nozzle for unclogging the nozzle and	
Acetone	also for smoothing the ABS printed object surface	
	Additive Manufacturing File Format (AMF) is an open standard for describing objects for	
AMF	additive manufacturing processes such as 3D printing.	
	Alumide is a material used in 3D printing consisting of nylon filled with aluminum dust, its name	
Alumido	being a combination of the words aluminum and polyamide. The printed objects have metallic look	
Alumide	ABS Glue is made by adding bit of acetone to the ABS filament. This is used to stick the 3D Print	
ABS Glue	to the build plate	
All Metal Hot End	A nozzle design that can go upto very high temperature of 400 degrees C	
Anisotropic	Object having physical property that is different in different directions	
Amorphous	Without a clearly defined shape or form	
	Without a clearly defined snape of form	
B		
Build plate	Build plate is the platform on which material is deposited layer by layer	
Build platform	Same as build plate	
Build Volume	Build volume = Printer Length x Printer Width x Printer Height	
Bridges	Printing horizontal layers in air without support. To achieve good quality for bridges, it is recommend to reduce printing speed and printing temperature	
Binder Jetting		
	Is a 3D Printing process where binder is jetted after each layer to glue it to the next layer	
Blender	An open source 3D modeling software	
Bed	Platform on which material gets extruded	
	Biopolymers are polymers produced by living organisms. Since they are polymers, biopolymers	
Biopolymer	contain monomeric units that are covalently bonded to form larger structures.	
	Is a sheet that is placed on build plate before extruding the material to avoid warping of printed	
BuildTAK	objects	
	A brim is attached to a model and extends outward. Brims typically have several outlines and	
Brim	may be a few layers tall. Brims are often used to stabilize small parts of a model, such as legs of a table, because brims help these areas stay connected to the print bed.	
	<u> </u>	
Build Time	Time it takes to print the object as per the parameters defined in slicing software	
CAD / CAM	Computer Aided Design / Computer Aided Machining	
Catia	Popular 3D Modeling software	
CLIP	Continuous Liquid Interface Production	
CNC Machining	CNC Machining is a process used in the manufacturing sector that involves the use of computers	
CNC Machining	to control machine tools. Computer-aided engineering (CAE) is the broad usage of computer software to aid in	
CAE	engineering analysis tasks like Finite Element Analysis	
Curing	Curing is a process of hardening photopolymers through UV light	
cump	earing is a process of naractining processorymers amought of right	
	A crystal or crystalline solid is a solid material whose constituents are arranged in a highly	
Crystalline	ordered microscopic structure, forming a crystal lattice that extends in all directions.	
CJP: ColorJetPrinting	A type of 3D Printing technology from 3D Systems, primarily for printing multi-color objects	
D		
DLP: Digital Light Processing	A type of 3D Printing technology where photopolymers are cured using UV light	
DMLS: Direct Metal Laser Sintering	A type of 3D Printing technology	
E		
Extruder	It is a device that sends correct amount of filament to hot end	
	A type of 3D Printing technology which uses an electron beam instead of a laser or thermal	
EBM: Electron Beam Melting	printhead. EBM is often used for the production of incredibly dense metal parts	
EOS	Industrial 3D Printing company well known for its metal 3D Printing	
5 16	3D Printer axes all need a datum (also known as home position or end-stop) to reference their	
End Stop	movements.	
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	A type of 3D Printing technology that uses heat to melt and extrude plastic filament onto the
Fused Deposition Modeling (FDM)	build plate
Filament	Is kind of plastic wires used in FDM 3D Printing
FabLab	It is a small scale workshop for digital fabrication
Flowrate	It is the volume of fluid which passes per unit time
Fixture	Used to hold a workpiece during either a machining operation or some other industrial process.
G C	G-code is the common name for the most widely used numerical control (NC) programming
G-Code	language. It is used mainly in computer-aided manufacturing to control automated machine tools.
Glass Transition Temperature	Glass Transition Temperature (Tg) is the temperature region where the polymer transitions from a hard, glassy material to a soft, rubbery material.
Н	
Hardening	Harden (make an object toughen) generally by using heat treatment
	Heated build platform (also called heated bed) improves printing quality by helping to prevent warping. As extruded plastic cools, it shrinks slightly. Heated beds usually yield higher quality
Heated Bed	finished builds with materials such as ABS and PLA. Heated build chamber also impoves the printing quality by maintaining the constant
Heated Build Chamber	temperature in the chamber thereby avoiding cracks
HIPS	High Impact Polystyrene is a type of 3D Printing filament
Hot End	Hot End is the device that melts the filament and extrudes the molten filament on build plate A hydrogel is a network of polymer chains that are hydrophilic. Hydrogels are highly absorbent
Hydrogel	natural or synthetic polymeric networks.
<u> </u>	
Infill	Material that is used to fill in the gaps / holes
	The plastic injection moulding process produces large numbers of parts of high quality with
Injection Molding	great accuracy, very quickly.
Inkjet Bioprinting	Having a physical property which has the same value when measured in different directions
, , ,	An object having a physical property which has the same value when measured in different
Isotropic	directions.
J	Used to hold and guide a workning during either a machining eneration or come other
Jig	Used to hold and guide a workpiece during either a machining operation or some other industrial process.
K	
Kapton Tape	A kind of tape used to avoid product warping during printing process. esp. for ABS material
L	
L Layout	The way in which the parts of something are arranged or laid out.
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Organovo	calls itself a regenerative medicine company
P	
Photopolymerization	Process of changing the properties of photopolymer by exposing it to light
PLA	PolyLacticAcid is a type of 3D Printing filament made out of corn starch
Polyamide	A synthetic polymer of a type made by the linkage of an amino group of one molecule and a carboxylic acid group of another, including many synthetic fibres such as nylon.
Tolyumuc	PolyJet 3D Printing works similarly to inkjet printing, but instead of jetting drops of ink onto
PJP : Polyjet Printing	paper, PolyJet 3D Printers jet layers of curable liquid photopolymer
Printing Resolution	Layer height in micrometers at which 3D Printing happens
Printing Speed	Speed at which hotend moves while extruding the filament.
PC	Polycarbonates (PC) are a group of thermoplastic polymers containing carbonate groups in thei chemical structures. Polycarbonates are used in engineering applications
PEEK	Polyether ether ketone (PEEK) is a colourless organic thermoplastic polymer in the polyaryletherketone (PAEK) family, used in engineering applications.
TEEN	Polyethylene terephthalate, commonly abbreviated PET is the most common thermoplastic
PET	polymer resin of the polyester family
PVA	Polyvinyl alcohol is a water-soluble synthetic polymer.
DTCC	Polytetrafluoroethylene (PTFE) is a synthetic fluoropolymer of tetrafluoroethylene used for
PTFE	multiple applications
Plastic Jet Printing	Similar to FDM / FFF Polyphenylsulfone (PPSF or PPSU) is a type of high performance polymer usually consisting of
Polyphenylsulfone (PPSF)	aromatic rings linked by sulfone (SO2) groups.
Post Processing	Is a set of processes used to smooth out the 3D Printed object
PP: Plaster-based 3D printing	3D Printing using sandstone or plaster as the input material. This is popular for creation of miniatures.
	Polypropylene (PP), also known as polypropene, is a thermoplastic polymer used in a wide
PP: Polypropylene	variety of applications including packaging and labeling
Q	
R	
Resolution	Layer thickness usually defined in micrometers A Raft is a horizontal latticework of filament that is located underneath your part. Rafts are
	primarily used with ABS to help with bed adhesion. Rafts are also used to help stabilize models
	with small footprints, or to create a strong foundation on which to build the upper layers of
Raft	your part.
David Drataturing	Rapid prototyping is a group of techniques used to quickly fabricate a scale model of a physical
Rapid Prototyping	part or assembly using three-dimensional computer aided design (CAD) data Open source rapid prototyping system that is capable of producing its own parts and can
RepRap	therefore be replicated easily.
	Rhinoceros is a commercial 3D computer graphics and computer-aided design application
Rhinoceros	software
RAMPS	RepRap Arduino Mega Pololu Shield A solid or liquid synthetic organic polymer used as the basis of plastics, adhesives, varnishes, or
Resin	other products.
S	
Slicing	Process of diving a 3D model into multiple layers for printing
	STL (STereoLithography) is a file format native to the stereolithography CAD software created by
STL	3D Systems. It is well known file format for 3D Printing
Supports	Supports are used when models have steep overhangs or unsupported areas.
Shells	·- ·
6 1	Shell represents an outer wall of a 3D Print
Sculptris	Well known 3D modeling software used for sculpting
SDL : Selective Deposition Lamination	Well known 3D modeling software used for sculpting Selective Deposition Lamination is a 3D printing process using paper.
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	Is a Stratasys process where 3D Printers also jet a gel-like support material specially formulated
Triple Jetting	to uphold overhangs and complex geometries during the printing process.
	Tissue engineering is the use of a combination of cells, engineering and materials methods, and
Tissue Engineering	suitable biochemical and physicochemical factors to improve or replace biological tissues.
Tank (Resin)	Is a holder of resin in SLA / DLP 3D Printing
	the strength of material expressed as the greatest longitudinal stress it can bear without tearing
Tensile Strength	apart
<u></u>	A new approach to micromachining and can be considered the next level to SLA. Very precise 3D
TPP: Two-photonpolymerization	models can be created within a very short span of time
U	
	Polyetherimide is an amorphous, amber-to-transparent thermoplastic with characteristics
Ultem	similar to PEEK Ultraviolet (UV) is an electromagnetic radiation with a wavelength from 10 nm (30 PHz) to 400
UV Light	nm (750 THz) generally used for curing in DLP process
	nim (750 THz) generally used for curing in DEP process
V	a large open vessel for holding or storing liquids. In 3D Printing, generally for holding resin in
VAT	DLP or SLA process
	DEP OF SEA PROCESS
W	
Warping	Is bending of an object on the edges due to material shrinkage while 3D Printing
Wall Thickness	thickness of the wall or the outer part of the 3D object
x	
X-Axis	X-Axis of a 3D Printer
Υ	
Young's Modulus	Young's Modulus is stress / strain. It is measure of stiffness of a solid material
Yield	Stress at which material starts deforming plastically
Y-Axis	Y-Axis of a 3D Printer
z	
Z-Axis	Z-Axis of a 3D Printer
Please	get more info. by contacting us through info@in3dtec.com