

Miscellaneous Details of the offered product (TECHB – MAX)

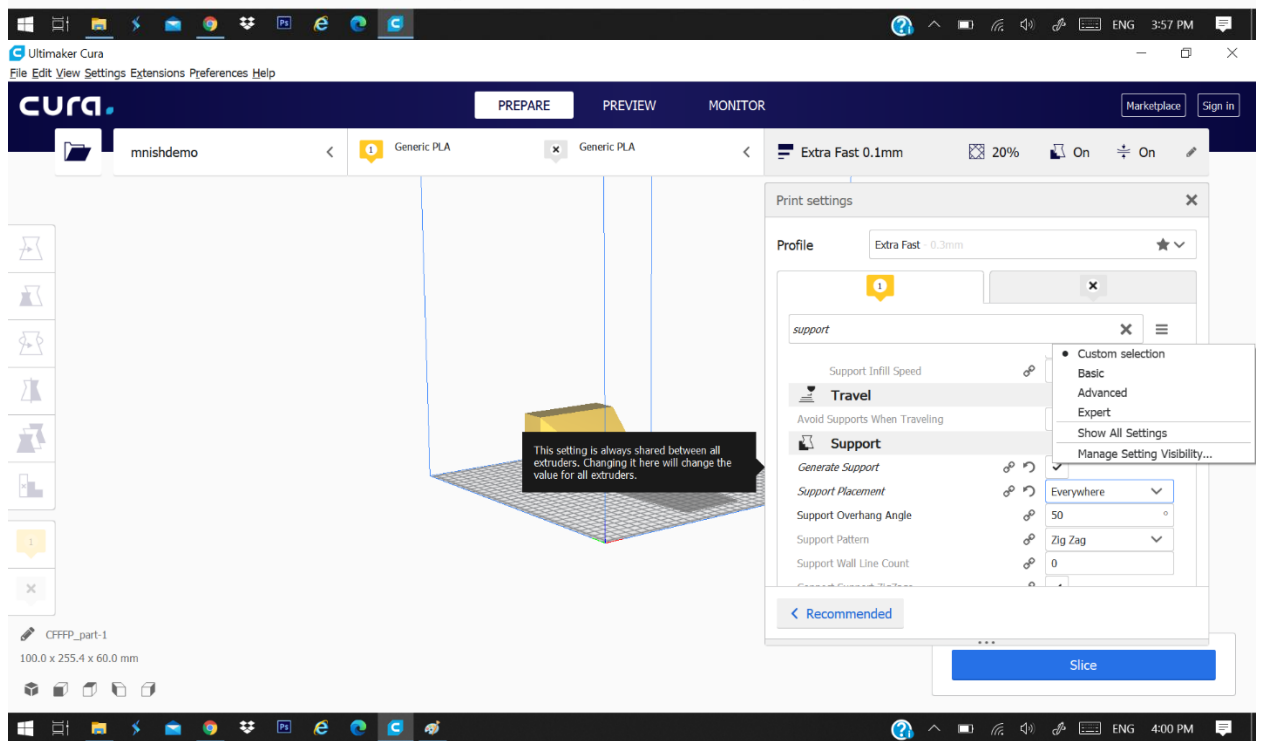
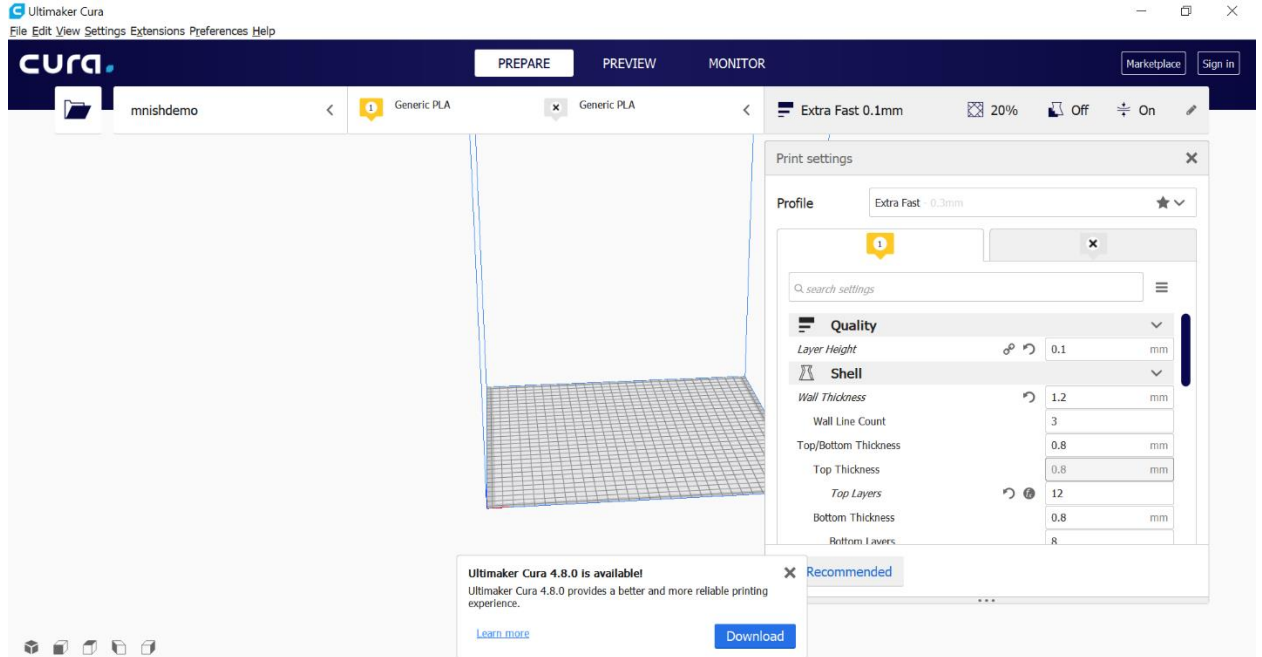
SOFTWARE SUPPORTED : TECHB CRAFTER/ ULTIMAKER CURA and any other open source software

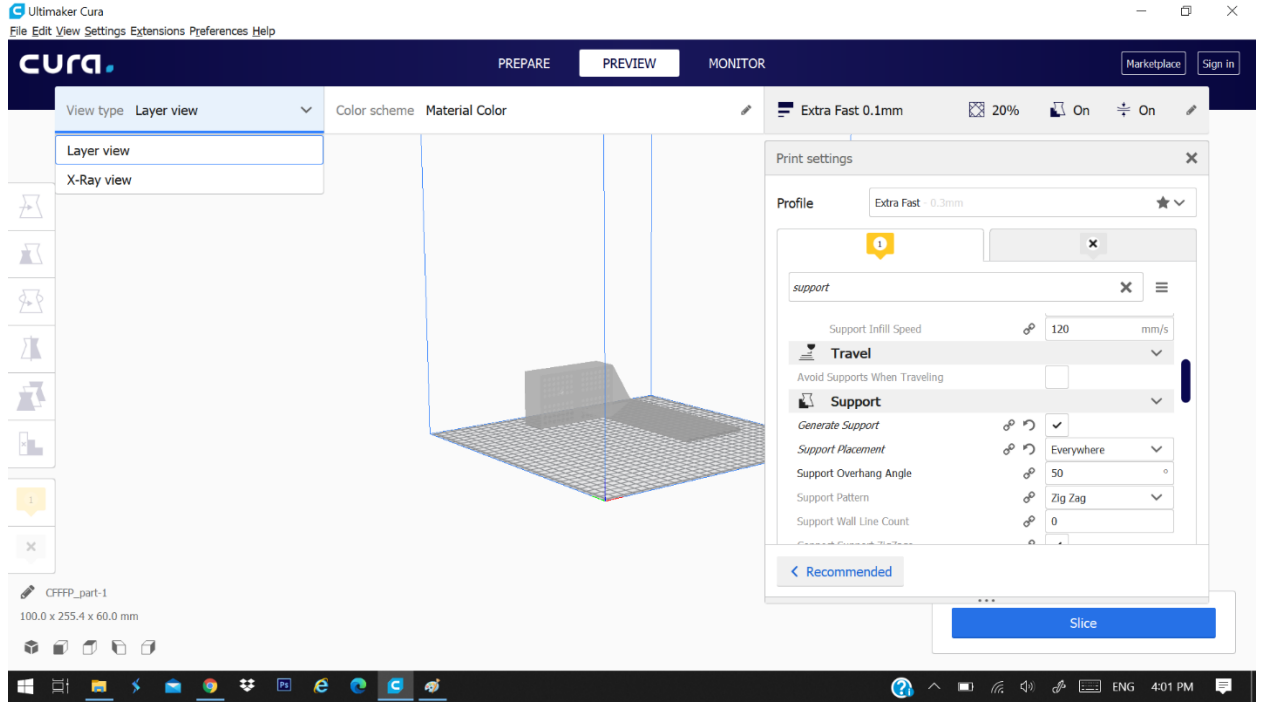
1. Details about the software and its capabilities:

- PC based licensed software with life time validity.
- Flexibility of customization of the software for any future modification required by end user.
- **Essential Software feature**
 - Solid model Input format: STL/ .OBJ
 - Compatible with CAD tools like Solidworks – Direct print option from CAD tools.
 - Capability to process STL files generated through 3D scanners/reverse engineering methods.
 - Automatic model slicing and Layer visualization after opening file in software
 - Automatic support generation with customization features.
 - Automatic selection of process parameters for selected materials/nozzles etc.
 - Choice of orientation, layer thickness etc.
 - Estimation of materials consumptions & build time.
 - Pause and print capability.
 - Diagnostic features – Alarms and interlocks for critical process and machine parameters.
 - Machine data loggings including errors, alarms, etc.
 - Auto Job recovery/ repair for uninterrupted printing in case of multi component printing.
 - Ability to Support detailed views of build model, tray and slice preview for making necessary adjustments before printing job.
 - Software Compatibility: Microsoft Windows 10 or above.
- **Pause Print Option:** Pause and print operations is allowed to accommodate external material/objects as an insert in the print job.

Ref. Images attached below.














Printing speed : TECHB MAX 3D printer is a High speed 3D printer which saves time. The printing speed varies from 10 to 300 mm/ sec. And the build rate is 30 cubic centimeter per hour at average print speed of 100 mm per sec. and layer height 100 micron (gives best surface finish quality)

List of user (with contact details) of offered model: We have delivered similar type of models based on client's requirement for which details are provided in the below table. Supported documents and List of Customers were already uploaded in Technical Bid.





Order placed by (Government orders)	Order No. and Date	Description and quantity of order equipment	Value of order in INR	Date of Completion of delivery as per contract	Has the equipment been installed	Contact person along with Telephone No., Fax No. and email address)
CHIPS , Chhattisgarh state data center, civil lines,Raipur,9993 59 3553	No. 398/CEO/Ch IPS/36I NC/2018	V50 3D Printer for Bigger Prototypes(500x 500x500)mm3 CNC Router DLP 3DprinterInclu ding 60 other lab items	1,03,00,000/-	27/02/2018	YES	Mr Sweekar Pawar Mobile : 9993593553 sweekarpawar@36i nc.in
IIIT NAYA RAIPUR , RAIPUR 492015 C.G.	IIITMR/PO/3 DP/2019/17 DATE: 17-10- 2019	3D Printers and Machine	47,29,028/-	17-01-2020	YES	Mr. Debanjan Das Mobile: 9432121661 debanjan@iiitnr.e du.in
IIT GOA, Ponda GOA 403401	IITGOA/S&P/ 2019-20/205 Date 19-03- 2020	3D PRINTER and consumable	2,98,200/-	24-04-2020	YES	8547853878 Dr. Bidhan Pramanick
IIT BHILAI Sejbahar Raipur 492015	181/IITBH/SP /NIT/ME/201 9-20/13 02-02-2020	3D PRINTER WITH ACCESSORIES AND TECHB KITS	7,39,095/-	15-03-2020	YES	Mr. Vikas Sahu 7987819499 , 8103479016 vikas.sahu@iitbhilai .ac.in

Application areas of the offered system: Our 3D Printer prints almost all types of the materials available in the Market and the large build volume allows our machine to work successfully in every sector Manufacturing/ Automobile/ Foundry/ Education/ Research and development/ Prototyping etc.

A reference List of our machine's Applications in different sectors with suitable material is listed below.

Pictures	Material	Key Characteristics	Applications
	ABS	Multifunctional (strong)	High requirement prototype
	PETG	Transmittance	Tail lens and steering lamp Perspective, functional prototype
	ASA	UV stability and best aesthetic sense	End use parts for outdoor use Sports goods Building material
	PC	Sturdy (tension)	High requirement prototype Manufacturing tools, fixtures and carriers Composite tools and <u>moulds</u> and metal bending
	PA	Sturdy (impact)	Functional prototype High impact products and Applications Fixture and fixtures, fixture, product carrier
	UHMWPE	Mechanical performance matured	Interior decoration panels and components: <u>aircraft</u> , buses, trains Mold style suitable for metal bending, composite laminated and fixed
	PEEK	Food grade bio-compatibility	Medical tools, manufacturing tools, cooling fixtures, functional types



Pictures	Material	Key Characteristics	Applications
	PLA	Environmental degradation	Education
	TPU	Flexible material	Clothes & Accessories
	TPE	Elastic material	Suitable for soles, uppers
	Carbon PLA	Low density	<u>Education, Automotive</u>

