

Decouvertes Future Tech Private Limited
Proposal for Supplying 3D Printers
(DFT350) to the Indian Army



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Decouvertes

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accelerating the
technology and growing
exponentially

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- PRODUCT DESIGN
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8770372505

3D Printer (DFT350)

Technical Specifications

| | |
|-------------------------------------|---|
| Build volume: | 350mm (l) x 350mm (w) x 300mm (h) |
| Printer size: | 520mm (l) x 520mm (w) x 580mm (h) |
| Weight: | 30kg |
| Enclosed print area: | Yes |
| Display: | 12864 LCD |
| Drive type: | FDM Direct (all metal) |
| Filament capability: | PLA, ABS, PETG, TPU, WOOD Fill, Marble, Carbon Fibre |
| Connectivity: | Wi-Fi |
| Drivers: | TMC2209 |
| Build Surface: | Flexible Spring Steel Sheet, Plain PEI + Textured PEI |
| Heated Bed: | Yes |
| Bed Levelling: | Automatic |
| Nozzle diameter: | 0.2, 0.4, 0.5, 0.6, 0.8, 1, 1.2mm |
| Maximum hot end temperature: | 320 °C |
| Maximum bed temperature: | 110 °C |
| Maximum chamber temperature: | 60 °C |
| Maximum movement speed: | upto 500mm per second |
| Maximum printing speed: | upto 300mm per second |
| Maximum acceleration: | upto 10,000mm/sec ² |
| Maximum XY accuracy: | ±0.1% |
| Minimum Z height: | 0.1mm |
| Number of extruders: | 1 |



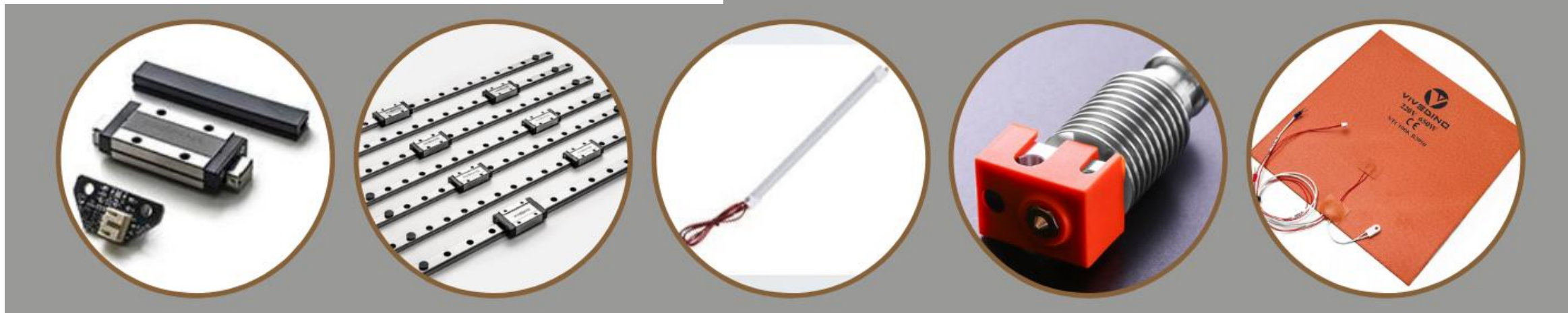
3D Printer (DFT350)

Build Specifications

| | |
|------------------------|---|
| Linear Guides : | High quality black linear guides on all axis. Improved corrosion resistance. |
| Timing Belt: | Genuine GATES POWERGRIP® LL-2GT RF belts |
| Stepper Motors: | High quality LDO make high temperature capable stepper motors for A, B & E axis |
| Extruder Gears: | Hardened dual drive gears |
| Fans: | High quality high flow GDSTime fans |
| Hotend: | Trianglelab Rapido UHF hotend with PT1000 thermistor |
| Bearings: | High quality rubber seal bearings for smooth high speed movement |
| Power Supply: | Genuine Meanwell power supplies` |

ADVANCED FEATURE

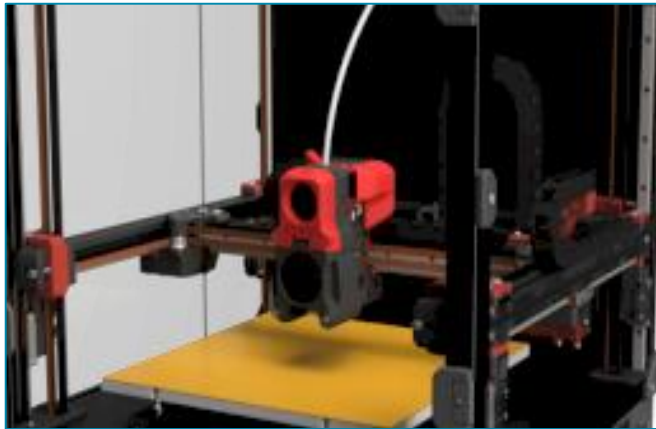
- TAP LEVELING SENSOR
- FILAMENT RUNOUT DETECTOR
- LED CHAMBER ILLUMINATION
- STEALTHBURNER+ CW2 EXTRUDER -BETTER PRINTING PERFORMANCE
- PREMIUM SILICONE HEATING PAD WITH INTEGRATED THERMAL FUSE
- HIGH QUALITY DOUBLE SIDED MAGNETIC FLEXIBLE PEI SHEET
- GENUINE GATES BELTS FOR XYZ AXIS - NO STRETCHING
- 440C STAINLESS STEEL LINEAR GUIDE RAILS - 100% QUALITY CONTROL
- PRECISION MACHINED CAST ALUMINUM PLATE - SUPERB FLATNESS
- TITANIUM ALLOY HOTEND



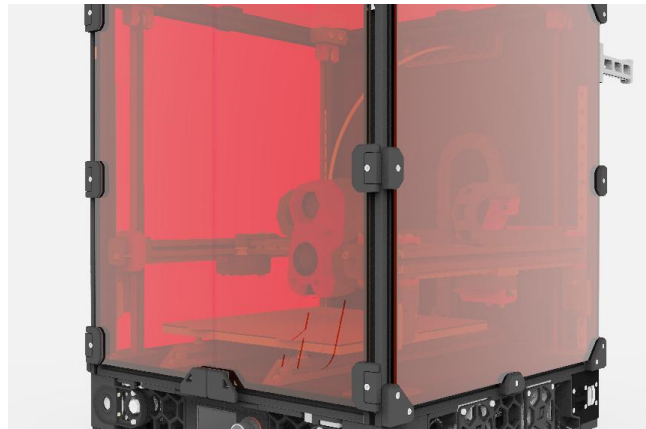
3D Printer (DFT350)

Features

Quad Gantry Leveling



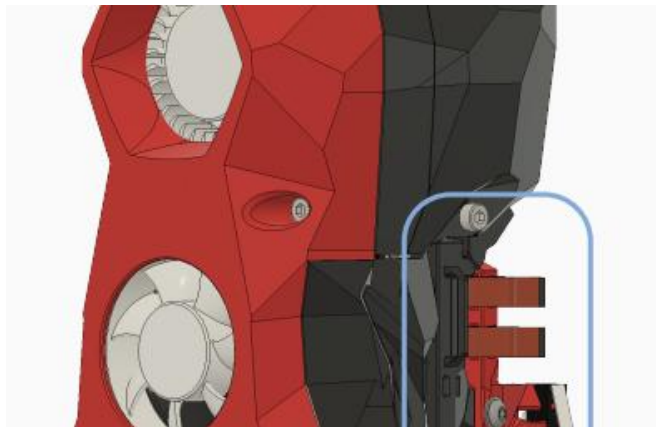
Fully Enclosed Print Area



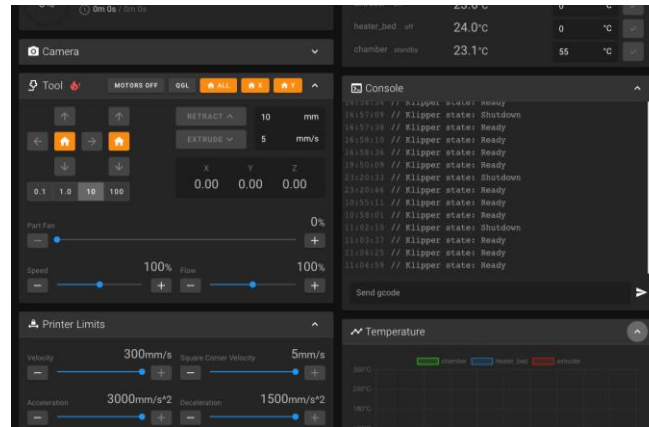
Flexible Removable Build Plate.



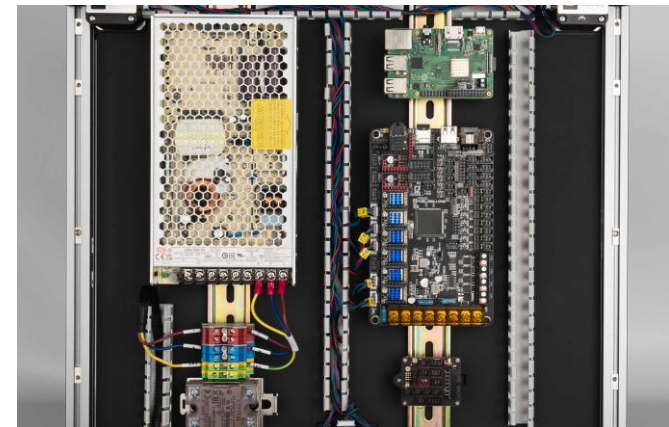
50:8 Direct Drive Extruder



Wireless Connectivity with Fluidt (OS)



Cable Management



3D Printer (DFT350)

Features Description

Quad Gantry Leveling The flagship feature of the Decouvertes DFT350 series and what draws users to this 3D printer is its quad gantry leveling ability. Using 4 stepper motors located on each corner, the printer physically aligns itself to the heated bed to ensure it is properly leveled. This differs from an automatic bed leveling from most other printers, as those printers use software to compensate for an unevenly heated bed. Users would see the most benefit over very large and wide prints as a physically leveled bed would yield smoother and flat bottom layers over software levelled beds.

Fully Enclosed Print Area Many high-performance filaments such as ABS, nylon and polycarbonate require a fully enclosed area due to their plastics requiring a warm environment to print properly without warping and possibly detaching from the print bed. The Decouvertes DFT350 features removable acrylic panels and doors to insulate the build volume and provide hard-to-print filaments with a warm environment for printing.

Flexible Removable Build Plate A flexible spring steel construction plate with textured PEI on one side and smooth PEI on the other comes standard with the Decouvertes DFT350 Printer. The flexible spring steel plate makes removing finished 3D prints a breeze; users merely need to flex the construction plate slightly, and the prints pop right off. PEI is a good print surface in general, allowing prints to stick well to it when heated. This flexible spring steel construction plate has a smooth and textured PEI surface that works well with various filament types. Smooth PEI is most commonly used for PLA, ABS, nylon, and polycarbonate filaments since it has the best print adherence. PETG and TPU are not suggested since their strong adhesion may damage the build plate. Smooth PEI prints have a smooth and glossy surface on the bottom of the prints. Because it provides significantly less adhesion, the textured PEI side is excellent for PETG and TPU filaments. The bottom of prints made with the textured PEI has a slightly rough and matte appearance.

Hotend Made Entirely of Metal The hotend of most consumer 3D printers is lined with polytetrafluoroethylene (PTFE). Because the plastic degrades quickly and generates poisonous gases at higher temperatures, PTFE hotends limit the printing temperature to roughly 245-250°C. Printers with a PTFE hotend are unable to print with more exotic materials like as polycarbonate and nylon due to their inability to print at higher temperatures. The Decouvertes DFT350 has an all-metal hotend that readily reaches the 320°C needed to print exotic materials like nylon and polycarbonate.

3D Printer (DFT350)

Features Description



Wireless Connectivity with Fluidt The Decouvertes DFT350 is equipped with a Raspberry Pi microcomputer with latest Klipper firmware installed with Fluidt web interface. Users will find this extremely convenient as 3D prints can be loaded, started and monitored completely remotely via a web browser. Features such as camera support or 3D print failure detection can be quickly and easily added to the Decouvertes DFT350 if the user desires..

Thermal Runaway Protection Having the heater lose control and catch fire is one of the most serious problems with 3D printing. Thermal runaway protection is a software function that keeps an eye on the hotend to ensure it doesn't overheat. This crucial safety feature is enabled on nearly every current 3D printer, and the Decouvertes DFT350 is no exception. If the Decouvertes DFT350 detects a malfunction in the heated bed or hotend, it will turn off the printer, display an error message, and wait for the user to repair and resume it. When the printer's thermal runaway protection is tripped, the printer's fan will spin up to full speed to cool any overheating components.

Cable Management The Decouvertes DFT350 routes all of its cables within 3 cable drag chains located around the printer or Umbilical chord setup to remove the cable chains. Apart from it improving the printer's clean aesthetics, it also protects the cables and the user due to the cable drag chains removing any chances of cables snagging on moving parts and potentially breaking.

Mains Powered Bed A mains-powered bed draws power directly from the outlet, allowing for much faster heating of the heated bed. Additionally, our printer includes a thermal fuse that detects if the heated bed heats past 110C, it will immediately cut power as a safety precaution.

Full Enclosure The Decouvertes DFT350 comes with several acrylic panels to fully enclose the 3D printer. This allows users to print filaments that require an enclosure, gives the Decouvertes DFT350 a clean and professional look, reduces noise output and protects the user from touching hot or moving components of the 3D printer.

50:8 Direct Drive Extruder A unique 50:8 direct twin drive extruder is included with the Decouvertes DFT350 . When compared to a normal single gear extruder, a 50:8 drive gear ratio extruder has six times the pushing force (torque) feeding filament into the hotend. This enables the Decouvertes DFT350 to print extremely quickly and consistently. The Decouvertes DFT350 can also print flexible filaments like TPU significantly faster than bowden drive printers thanks to the direct drive extruder.

3D Printer (DFT350)

Commercial

| Item | Estimated Cost (INR) |
|---|----------------------|
| DFT350 3D Printer (1 Qty) | 2,50,000/- |
| Filaments and Materials ABS, PLA (5 Kg) | 5000/- |
| Maintenance and Spare Parts(Including Material Dryer & Toolbox) | Included |
| Software and Licenses (Open Source) | 0 |
| Training and Setup (3 Days +1 Day) | Included |
| Warranty and Support (1 Year) | Included |
| Total | 2,55,000/- |

3-Day CAD Software Training for Designing 3D Parts for Printing and 1-Day Training for Operating the 3D Printer

The CAD training will be provided using SolidWorks software for 3D part creation, including hands-on practice.

Note: The cost of the CAD software is not included in this proposal.

Terms and Conditions

for Payment

1. Payment Terms

Advance Payment: A non-refundable advance payment of 30% of the total cost is required upon signing the contract. This advance payment will be used to initiate the manufacturing and procurement process.

Milestone Payments: The remaining amount will be divided into two milestone payments:

First Milestone: 40% of the total cost upon delivery and successful installation of the 3D printers.

Second Milestone: 30% of the total cost upon completion of training and final acceptance by the Indian Army.

2. Payment Methods

Payments can be made via bank transfer to the designated bank account of Decouvertes Future Tech Pvt Ltd. Bank details will be provided upon contract signing.

All payments should be made in Indian Rupees (INR).

3. Invoicing

Invoices will be issued for each payment milestone.

Invoices must be paid within 30 days of receipt.

Late payments will incur a late fee of 1.5% per month.

4. Taxes and Duties

All prices are exclusive of applicable taxes and duties.

The Indian Army is responsible for paying all applicable taxes, including GST, as per prevailing laws.

Any changes in tax rates or new taxes imposed by the government will be reflected in the final invoice.

5. Refund and Cancellation Policy

The advance payment is non-refundable.

In case of cancellation by the Indian Army after the commencement of the project, Decouvertes Future Tech Pvt Ltd reserves the right to retain the advance payment and charge for any work completed up to the point of cancellation.

Any refunds, if applicable, will be processed within 60 days of cancellation notice.

6. Dispute Resolution

Any disputes arising out of or in connection with this agreement shall be resolved amicably through mutual discussions.

If a resolution cannot be reached, the dispute shall be referred to arbitration in Pune, Maharashtra, India, in accordance with the Arbitration and Conciliation Act, 1996.

The decision of the arbitrator shall be final and binding on both parties.

7. Warranty and Support

The warranty period of 1 year from the date of installation is included in the total cost.

Any additional maintenance or extended warranty services will be charged separately.

8. Confidentiality

Both parties agree to keep all terms and conditions of this agreement confidential and not to disclose any information to third parties without prior written consent.

9. Amendments

Any amendments or modifications to these terms and conditions must be made in writing and signed by both parties.

Terms and Conditions

for Logistics

Terms and Conditions

1. Shipping and Delivery

Shipping Charges: Shipping charges will be applicable if the product needs to be supplied outside of Pune. The cost of shipping will be calculated based on the destination, weight, and dimensions of the shipment.

Delivery Timeline: Estimated delivery timelines will be provided upon order confirmation. Delivery timelines are subject to change based on external factors such as transportation delays or unforeseen circumstances.

Shipping Method: The shipping method will be chosen to ensure the safe and timely delivery of the 3D printers. This may include road, rail, or air transport, depending on the destination and urgency.

Packaging: All products will be securely packaged to prevent damage during transit. Special packaging requirements should be communicated in advance and may incur additional charges.

2. Risk and Title

Risk of Loss: Risk of loss or damage to the products shall pass to the Indian Army upon delivery to the carrier. Decouvertes Future Tech Pvt Ltd will not be liable for any loss or damage during transit.

Title: Title to the products shall pass to the Indian Army upon full payment of the purchase price.

3. Insurance

Insurance Coverage: Insurance coverage for the shipment is optional and can be arranged upon request. The cost of insurance will be borne by the Indian Army. If insurance is not opted for, Decouvertes Future Tech Pvt Ltd will not be liable for any loss or damage during transit.

4. Customs and Duties

Customs Clearance: Any customs clearance required for shipments outside India will be the responsibility of the Indian Army. All customs duties, taxes, and related fees will be borne by the Indian Army.

Documentation: Decouvertes Future Tech Pvt Ltd will provide the necessary documentation to facilitate customs clearance. Additional documentation requests should be communicated in advance.

5. Delivery Acceptance

Inspection upon Delivery: The Indian Army is responsible for inspecting the products upon delivery. Any damages or discrepancies must be reported to Decouvertes Future Tech Pvt Ltd within 7 days of receipt.

Acceptance: The Indian Army's acceptance of the products will be deemed to occur upon the earlier of (i) written acceptance or (ii) 7 days after delivery, provided no issues have been reported.

6. Delays and Force Majeure

Delays: Decouvertes Future Tech Pvt Ltd will make reasonable efforts to meet the delivery timelines. However, delays caused by factors beyond our control, such as transportation disruptions or natural disasters, will not constitute a breach of contract.

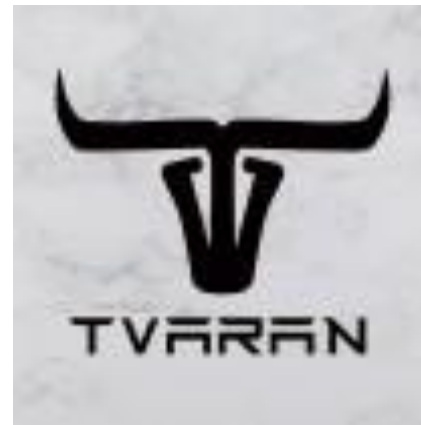
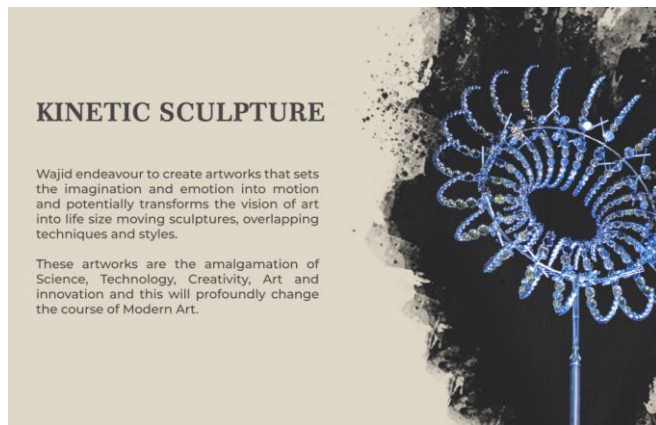
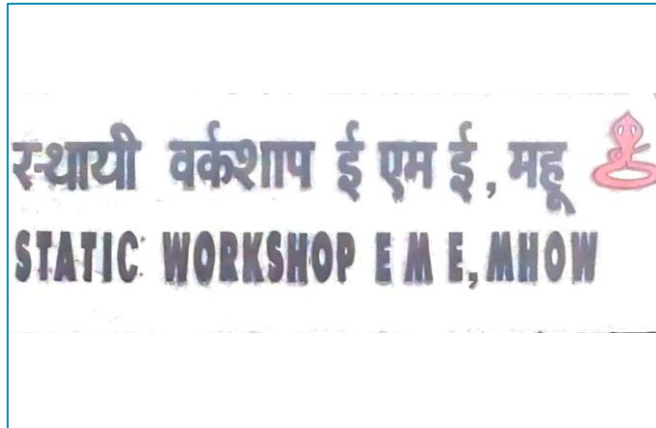
Force Majeure: Neither party will be liable for any failure or delay in performance due to circumstances beyond their reasonable control, including but not limited to acts of God, war, terrorism, and natural disasters.

7. Amendments

Changes to Shipping Address: Any changes to the shipping address must be communicated at least 10 days before the scheduled delivery date. Additional charges may apply for address changes.

Contract Amendments: Any amendments or modifications to these terms and conditions must be made in writing and signed by both parties.

Customers



Contact Us



shivamsoni@decouvertes.in



8770372505



www.decouvertes.in



<https://www.linkedin.com/company/decouvertes-future-tech-private-limited/?viewAsMember=true>

THANK YOU

REGISTERED OFFICE ADDRESS

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India

