

Golden Embossing Machine

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Problem addressed: Thesis, project report, cover page of reports need to be printed with embossed letters mostly in golden ink. Conventional letter press technology is tedious and time consuming, it involves that letters be placed correctly in the dye, dye be heated and then pressed over the rexine, leather or paper with golden foil on them. To replace the manual process of embossing with automatic one, innovator has developed an arrangement in existing printers and came up with three models of golden embossing machines.

Product: Golden embossing machines are set of machines used for embossing printing on paper, rexine, leather etc.. Innovation is in arrangement done in printing heads of different types of printers to facilitate embossed printing. Golden color fonts and pictures are result of gold foil used over the printing base where gold foil repeatedly comes in contact with printing head of printer.

Technical Specifications Technical descriptions of three machines are as follows:

Model 1 : Golden Embossing Machine (High Quality Dot Matrix Printer)

- Printing head of dot matrix printer is modified to print on Rexene.
- Printing speed : 1 page per minute
- Temperature in head : 60 Degree C.



Model 2 : Digital Hot Foil Stamping Embossing Machine

- Size: 800 mm width X 800 mm length X 250 mm height
- Supply Voltage: 230 Volt / 50 Hz
- Power Consumption: 600 watts.
- Temperature of heater: Approx. 80 degree Celsius
- Printing Area: 600 mm width X 450 mm height
- Printing Speed: 15 minutes per page(Depending upon Artwork)
- Connected to computer via Printer Port (Serial Port)
- Print Quality: 75 dpi
- It is proposed to work just like a normal computer printer facilitating the user to emboss any text, size, font, language, sketches, drawings, etc.



Model: 3 Digital Hot Foil Printing Machine

- Size: 450mm width X 800 mm length X 650 mm height
- Supply Voltage: 230 Volt / 50 Hz
- Power Consumption: 900 watts.
- Temperature of heater: Approx. 80 degree Celsius
- Printing Area: 210 mm width X 297 mm length (A-4 size paper)
- Printing Speed: 4 seconds per page (15 pages per minute)
- Connected to computer via Printer Port (Serial Port)
- Print Quality: 600 dpi
- The proposed Digital Hot Foil Printing Machine is intended to be used as a printing machine.



Key Competitive Advantage:

- Highly efficient mechanism to print text and pictures on any material of any size of paper, rexine or leather,
- Embossing thickness and depth is maintained uniform, as printing head moves and the base is stationary
- Machines have got great business potential.

Price:

Model 1 Rs.25000/- Model 2 Rs.1,75,000/- Model 3 Rs.1,10,000/- (ex-factory price + packaging). The price does not include transportation costs, taxes, etc.

Time to deliver:

15 days after placing confirmed order and full payment

IPR Status:

Indian Patent Applied For (1015/MUM/2011)

BD website link:

<http://nif.org.in/innovation/-innovative-printer-head-for-golden-embossing/510>

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