	INDIAN INSTITUTE OF TECHNOLOGY BOMBAY **MATERIALS MANAGEMENT DIVISION** **Powai, Mumbai 400076.**

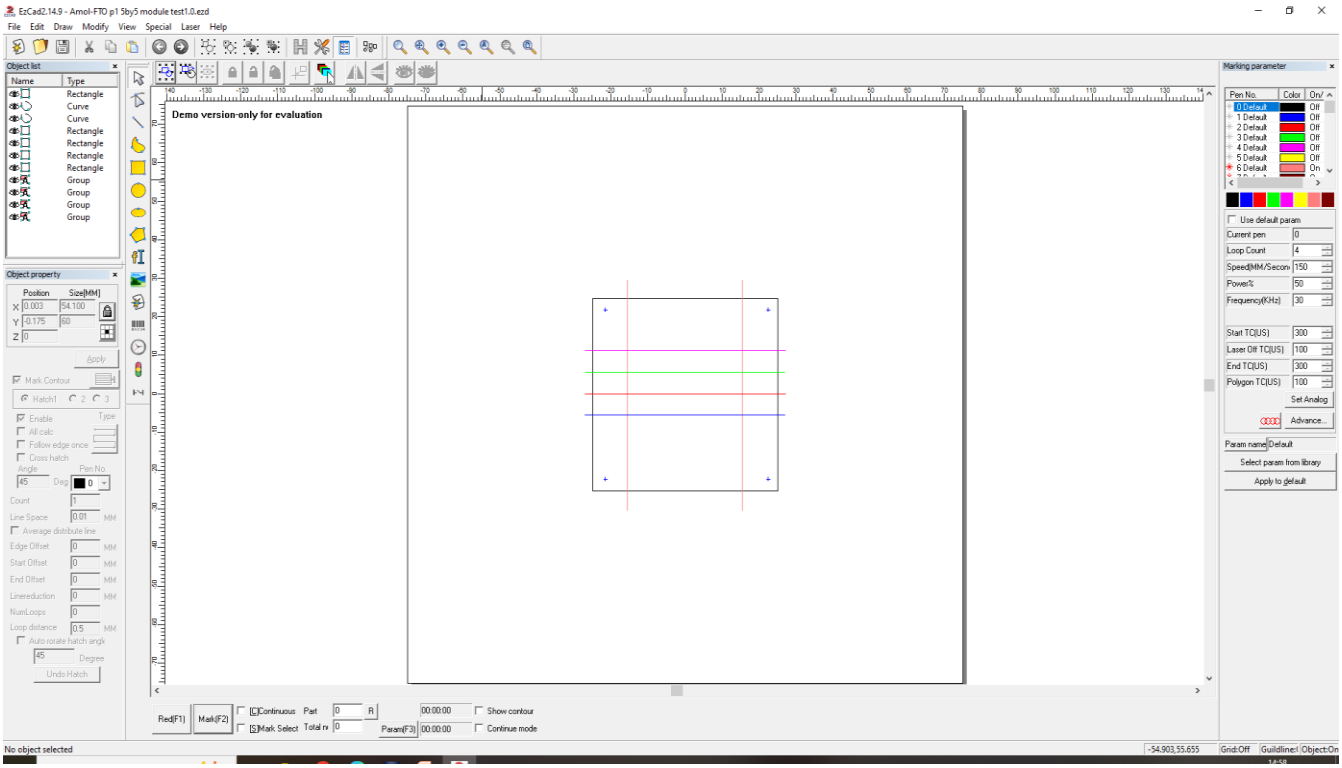
Ref No.(PR No.) 1000046423 **(Rfx No.) 6100002084**

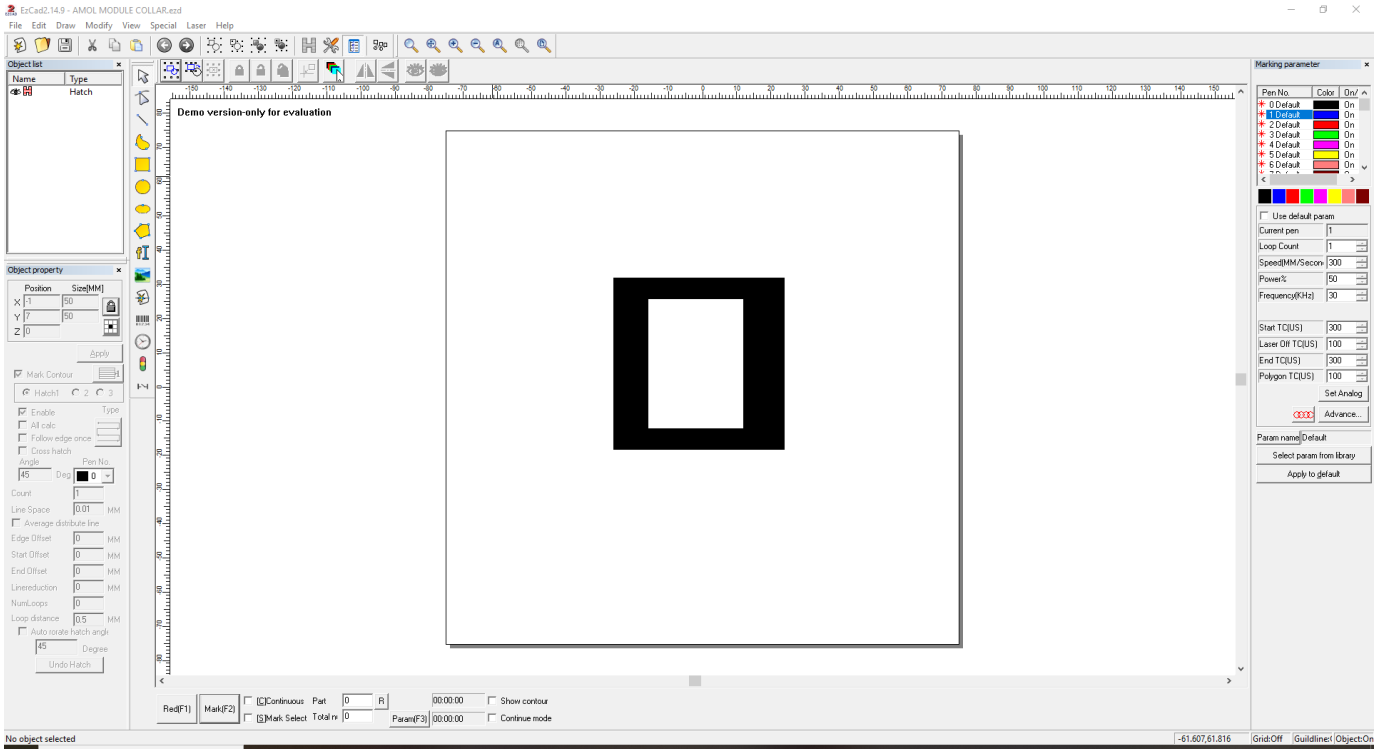
Technical Specifications

Item Description : Add on component Integration of Galvano System for Existing Laser Scribing Workstation
(Qty: 1 Set) Set-up for the existing Laser Scribing Workstation

Sr. No	Item Description	Detailed Technical Specification	Technical Compliance (Yes / No)	Additional Information (if any)
1	Integration of Galvano System for Existing Laser Scribing Workstation	1. Laser Wavelength: 532 nm and 1064 nm 2. Laser Parameters for P1, P2, P3 Scribing: The parameters below are intended for a maximum 150 mm × 150 mm substrate. 3. Nanosecond (ns) Laser Parameters: a. Pulse Duration: 10-20 ns (depending on your laser source). b. Repetition Rate (Frequency): 10-130 kHz. c. Scan Speed: Upto 2000 mm/s. d. Spot Size (Beam Diameter): 20-40 µm. Require 2-3 Objective lenses for different spot diameter for ablation. e. Beam Overlap: 60-80% to ensure smooth and continuous cutting. f. Positional accuracy: ±10 µm (over a 150 mm × 150 mm scanning field)		

		g. Focus control: software controllable (as per existing setup). h. Software Interface: It should be like a Ezcad interface (attached photo). CAD file supportable. i. Hatching: Hatching option with various controllable (attached photo). j. New and existing software must be compatible with each other. (focusing laser with camera, cross inspect, scribe inspect, capturing image, etc. functionalities as per current system) 4. Specific Adjustments for Scribing Stages: Vacuum Suction of ablated material has to be redesigned for Galvano laser		
2	Warranty of the system	1 year on the setup		




EzCad2.14.9 - AMOL MODULE COLLAR.ezd
File Edit Draw Modify View Special Laser Help
Object list
Name Type
Hatch
Object property
Position Size[MM]
Apply
Mark Contour
Enable
All calc
Follow edge once
Cross hatch
Angle
Pen No.
Count
Line Space
Average distribute line
Edge Offset
Start Offset
End Offset
Linereduction
NumLoops
Loop distance
Auto rorate hatch angle
Degree
Undo Hatch
Demo version-only for evaluation
Marking parameter
Pen No.
Color
On/
0 Default
1 Default
2 Default
3 Default
4 Default
5 Default
6 Default
Use default param
Current pen
Loop Count
Speed[MM/Secon
Power%
Frequency(KHz)
Start TC(US)
Laser Off TC(US)
End TC(US)
Polygon TC(US)
Set Analog
Advance...
Param name Default
Select param from library
Apply to default
Red(F1)
Mark(F2)
[C]Continuous
[S]Mark Select
Part
Total nr
Param(F3)
Show contour
Continue mode
No object selected
-61.607,61.816
Grid:Off
Guidline
Object:On