

LASER

impression that lasts



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O U R

ABOUT US

INFUSED SYSTEMS PVT. LTD. is India's leading industrial laser marking, engraving, cutting, welding & robotic solution providers, founded by two young professional experts, in a need of making a brand which is all about bringing change in the industrial environment by providing invincible industrial marking and traceability solutions.

With experience of more than 15 years in industry, we are manufacturers and suppliers of high quality Laser Marking and Engraving machines, Dot Peen Marking machines, Laser Welding , Application based Automation and Laser Cutting machines. We aim to be a widely loved firm that is capable of making a wide range of contributions to society based around the development of new laser solutions. To achieve this goal, we will focus our unwavering passion on mastering our field and will strive to provide high level of quality, price, delivery times and technical service the world over.

With our insatiable appetite for new challenges and commitment to ongoing progress, you can expect great things from the future of the Infused Systems.

IMPRESSION THAT LASTS

Our corporate slogan encapsulates the spirit of the Infused Systems, which has been passed down unbroken since our inception

“

We're Your Reliable Partner For
offshore development...

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IMPRESSIONS
THAT LAST

S T O R Y



Vision



As a leading brand in marking , cutting , welding and traceability solutions , we feel responsible to contribute towards Indian Economy and Indian Export, we have vision to promote 'MAKE IN INDIA' concept and Increase employment in India and generate new opportunities for young professionals.



Mission

Our mission is to provide the state of art laser based marking , cutting and welding solutions with an assurance of quality and consistency, We aspire to nurture long term relationships with our clients. We intend to meet all international and standard parameters with our contemporary marking , cutting and welding machines.



... let's do something great, together

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Laser EXPERTS

DOT PEEN MARKING

SCAN QR CODE

To Check Video Solution



...features

SAFE

FAST

ECONOMICAL

RELIABLE

COMPACT



Model:
MARKUS-X



Model:
MARKUS



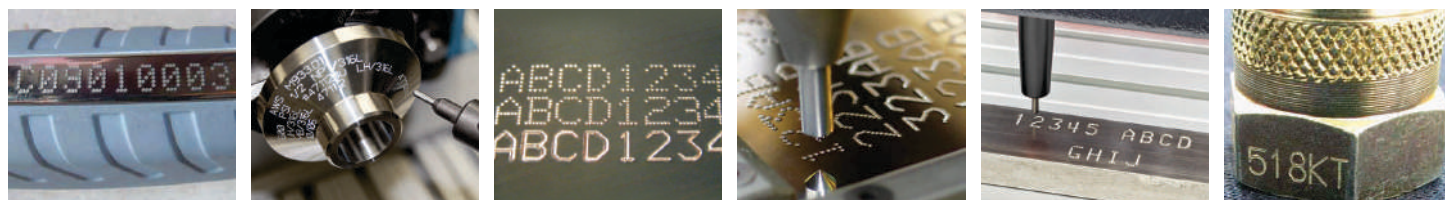
Model:
iRex / FLYMARK
(Robot Integrated)

SPECIFICATIONS :

MODEL	Markus	FlyMark	iRex
MARKING AREA (MM)	100*100/150*150	100*50/100*150	40*50/100*50
CONTROLLER TYPE	7/10" Touch Based	7/10" Touch Based	7/10" Touch Based
MARKING SPEED	2-3 Alpha Numeric/Sec	2-3 Alpha Numeric/Sec	2-3 Alpha Numeric/Sec
INDENTING TYPE	Pneumatic/Electric	Pneumatic/Electric	Pneumatic

Dot Peen marking works by electro mechanically striking a carbide or diamond stylus assembly against the surface of a part to be marked. The result is a succession of dots to create digits, text, logos, and 2D data matrix codes. Each dot is the result of a pulsed current that runs through a solenoid, punches a magnet toward the surface, and subsequently returns the stylus to its starting position, awaiting the next pulse. Because each pulse occurs in only a fraction of a second, an entire 2D data matrix code, for example, can be completed in seconds (depending on the size). Frequency can be adjusted by controlling the speed of the X and Y axis movements.

APPLICATIONS



Note : Product improvement is a continuous process at "Infused Systems".
Design & Specifications are therefore, subject to change without prior notice.

FAST

ECONOMICAL

RELIABLE

COMPACT

...features

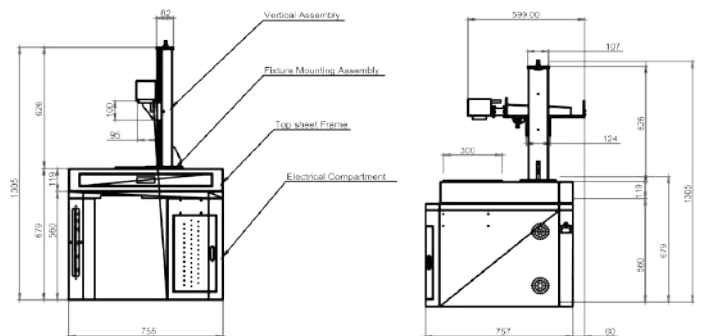


impression that lasts.

ALPHA-F

FIBER LASER MARK

Fiber laser marking refers to the process of leaving an impression on items using a fiber laser beam of light. The marking machine extracts concentrated energy from light and uses it as the laser beam. The light is passed through an f-theta lens, which is designed to maintain its focus on the whole plain as opposed to just one spot and the concentrated laser beam leaves distinct marks when passed over a material's surface.



Model:
ALPHA-F

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SPECIFICATIONS :

MODEL	Alpha F-20	Alpha F-30	Alpha F-50
LASER POWER (Watt)	20	30	50
LASER CLASS/WAVE LENGTH/TYPE	IV/1064/Q Switched/Mopa		
MARKING SPEED (mm/sec)	12000		
MARKING AREA (mm)	100*100, 180*180 , 225*225, 300*300		
Z TRAVEL (mm)	550/1000 (MANUAL/AUTO OPTIONAL)		
COOLING TYPE	AIR COOLED		
ELECTRICAL REQUIREMENTS	L/N/PE/230 VAC, 50/60 Hz		
POWER CONSUMPTION (Watt)	400-500		
OVERALL DIMENSIONS (L*W*H) (mm)	750*750*1340		
WEIGHT (Kg)	150		
COMMUNICATION PROTOCOLS	ETHERNET/RS 232/ USB		

APPLICATIONS



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ALPHA-X

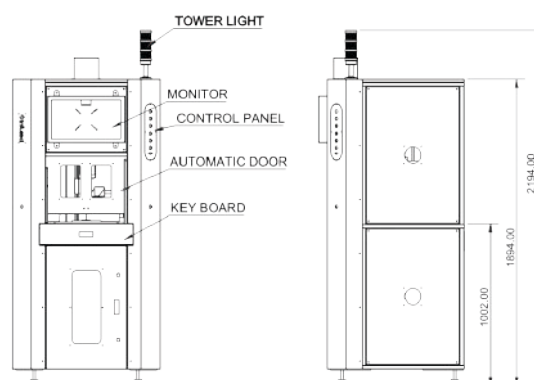
FIBER LASER MARK

With the ALPHA-X Series, infused offers a modular platform consisting full Safety Features needed for Modern Industries. Alpha-X is designed to withstand harsh assembly / manufacturing line environments designed to full fill requirements of backward or forward integration of line



Model:
ALPHA-X

Powered By:



SAFETY ENCLOSURE ~ INBUILT SCANNER
COMPACT DESIGN ~ COST EFFICIENT

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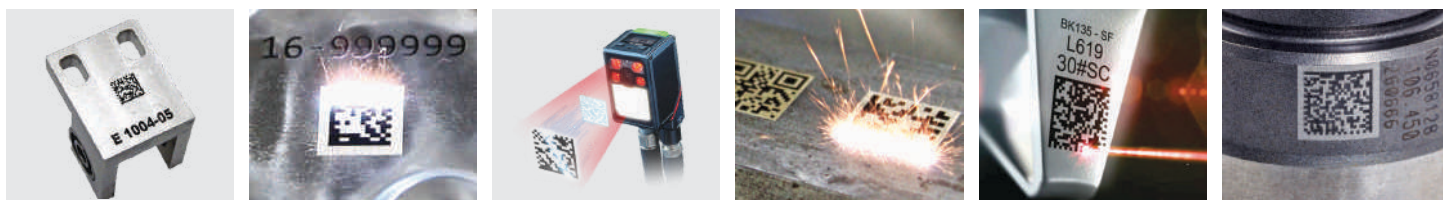


SPECIFICATIONS :

LASER SMART SOLUTIONS

MODEL	Alpha X-20	Alpha X-30	Alpha X-50	Alpha X-100
LASER POWER (Watt)	20	30	50	100
LASER CLASS/WAVE LENGTH/TYPE	IV/1064/Q Switched/Mopa			
MARKING SPEED (mm/sec)	12000			
MARKING AREA (mm)	70*70, 100*100, 200*200			
Z TRAVEL (mm)	650 (AUTO)			
COOLING TYPE	AIR COOLED			
ELECTRICAL REQUIREMENTS	L/N/PE/230 VAC, 50/60 Hz			
POWER CONSUMPTION (Watt)	850			
OVERALL DIMENSIONS (L*W*H) (mm)	900*890*2150			
WEIGHT (Kg)	275			
COMMUNICATION PROTOCOLS	ETHERNET/RS 232/ USB			

APPLICATIONS



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SAFE

FAST

...features

ECONOMICAL

RELIABLE

COMPACT



impression that lasts.

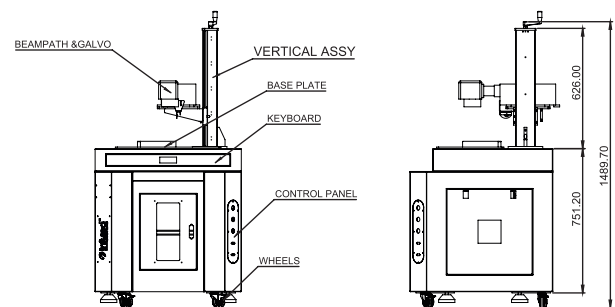


Model:
ALPHA-C / U

CO₂ & UV LASER MARK

Co₂ laser marking machine uses Co₂ gas in a sealed tube as a laser source to mark on organic materials like wood, glass, acrylic etc. This laser system is widely accepted for product identification, serial marking, date stamping etc.

On the other hand, Laser ultraviolet (UV) marking machines are known for their high absorption rates, which enable them to mark various materials with minimal heat damage and excellent contrast, especially on plastic and organic materials.



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SPECIFICATIONS :

	Co ₂		UV	
MODEL	Alpha C-30	Alpha C-60	Alpha U-3	Alpha U-5
LASER POWER (Watt)	30	60	3	5
WAVE LENGTH	10.6 μ m		355 nm	
MARKING SPEED (mm/sec)	7000		7000	
MARKING AREA (mm)	180*180, 250*250		180*180, 250*250	
Z TRAVEL (mm)	550/1000 (MANUAL/AUTO)		550/1000 (MANUAL/AUTO)	
COOLING TYPE	AIR COOLED		WATER COOLED	
ELECTRICAL REQUIREMENTS	L/N/PE/230 VAC, 50/60 Hz		L/N/PE/230 VAC, 50/60 Hz	
POWER CONSUMPTION (Watt)	650		1200	
OVERALL DIMENSIONS (L*W*H) (mm)	760*740*1480		760*740*1480	
WEIGHT (Kg)	175		175	
COMMUNICATION PROTOCOLS	ETHERNET/RS 232/ USB		ETHERNET/RS 232/ USB	

APPLICATIONS



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3D LASER ENGRAVING

3D dynamic focus laser marking machine adopt imported core components, with high-speed, high precision 3D galvo, and with our 3D specified software and control system, it can engrave on any curved workpieces in a fine process, there is no off-focus problem.

It can also adjust focus length any time for deep engraving, which makes process efficiency and marking quality much better than traditional 2D fiber laser marking machine.

3D Dynamic Focus Laser Marking Machine

Model:
FIBER MARK-3D

SCAN QR CODE

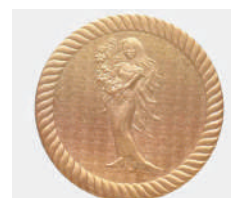
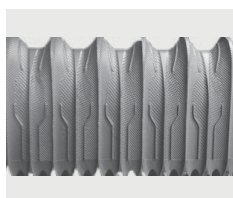
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SPECIFICATIONS :

MODEL	FIBER 3D MARK-50	FIBER 3D MARK-100
LASER POWER (Watt)	50	100
LASER CLASS/WAVE LENGTH/TYPE	IV/1064/3 Axis	
MARKING SPEED (mm/sec)	14000	
MARKING AREA (mm)	200*200, 300*300	
DYNAMIC FOCUS RANGE (mm)	+35 ~ -35	
Z TRAVEL (mm)	650 (AUTO)	
COOLING TYPE	AIR COOLED / WATER COOLED (OPTIONAL)	
ELECTRICAL REQUIREMENTS	L/N/PE/230 VAC, 50/60 Hz	
POWER CONSUMPTION (Watt)	1200	
OVERALL DIMENSIONS (L*W*H)	1350*890*2150	
TABLE WEIGHT CAPACITY (Kg)	700	
TABLE DIMENSION (mm)	600*600	
WEIGHT (Kg)	350	

APPLICATIONS



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FAST**...features****HIGH QUALITY LASER BEAM****EASY MAINTENANCE****COMPACT****infused**
SYSTEMS®

impression that lasts.

Model:
HHLW

HAND-HELD WELDING

FIBER LASER WELDING SOLUTIONS

The handheld fiber laser welder is a new generation of laser welding equipment, which belongs to non-contact welding. The operation process does not require pressure and its working principle is to directly irradiate a high-energy intensity laser beam on the surface of the material.

Application field of handheld laser welding machine:

Mainly for the fixed position of large and medium-sized sheet metal, cabinets, chassis, aluminum alloy door and window frames, stainless steel wash basins. It is widely used in kitchen and bathroom industry, home appliance industry, advertising industry, mold industry, stainless steel products industry, stainless steel engineering industry, doors and windows industry, handicraft industry, household goods industry, furniture industry, auto parts industry, etc.

CONVENIENT & FLEXIBLE ~ SATISFYING WELDING EFFECT
COST EFFICIENT ~ WELDING WITHOUT CONSUMABLES

SCAN QR CODE

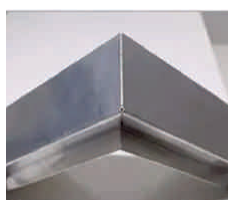
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SPECIFICATIONS :

MODEL	HHLW-1000	HHLW-2000	HHLW-3000
LASER POWER (Watt)	1000	2000	3000
POWER CONSUMPTION (Kw)	2.5	3.5	4.5
WAVE LENGTH	1080 +/- 5nm		
WELDING MODES	CW, PWM & QCW		
WELDING HEAD	DOUBLE WOBBLE WELDING HEAD		
PROTECTIVE GAS	ARGON/ NITROGEN		
COOLING TYPE	WATER COOLED (IN-BUILT CHILLER)		
ELECTRICAL REQUIREMENTS	L/N/PE/230 VAC, 50/60 Hz		
WIRE FEEDING DIAMETER (mm)	0.8/1/1.2/1.4		
OVERALL DIMENSIONS (L*W*H) (mm)	760*740*980		
WEIGHT (Kg)	160		

APPLICATIONS



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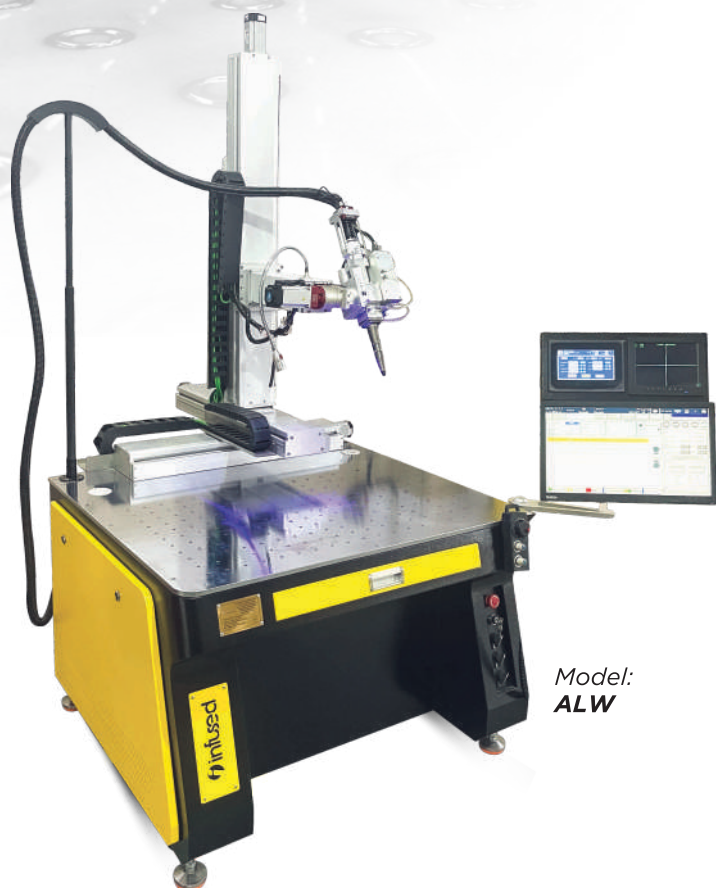
AUTOMATIC WELDING

FIBER LASER WELDING SOLUTIONS

Automatic Laser welding is the most reliable solution for high-speed, high-quality welding across a wide range of material combinations and thicknesses in nearly every industry. Infused Systems fiber laser innovations coupled with the expert automated welding solutions are on the forefront of improving the quality, speed and flexibility for welding applications while reducing overall costs.

- Suitable for welding processes of all metal and thicknesses in nearly every industry.
- Laser welding with high quality laser beam.
- High-speed welding.
- Welding result no need for secondary processing.
- No equipment wear or consumable usage.

CONVENIENT & FLEXIBLE ~ SATISFYING WELDING EFFECT
COST EFFICIENT ~ WELDING WITHOUT CONSUMABLES



Model:
ALW

SCAN QR CODE

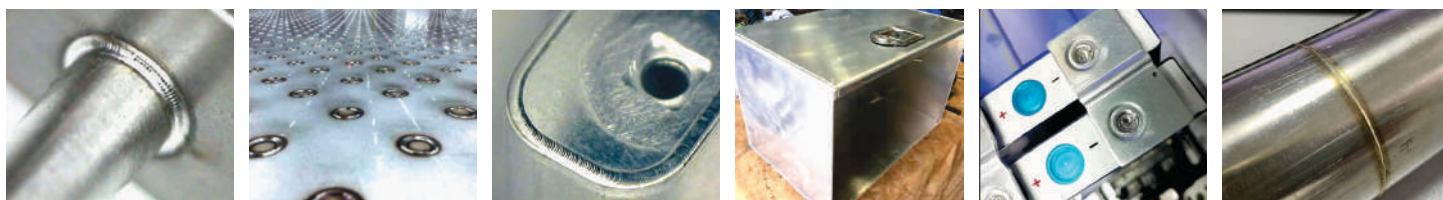
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SPECIFICATIONS :

MODEL	ALW-1000	ALW-2000	ALW-3000
LASER POWER (Watt)	1000	2000	3000
POWER CONSUMPTION (kw)	4	5	6.5
WAVE LENGTH	1080 +/- 5nm		
NUMBER OF AXIS	3 / 5		
XYZ TRAVEL (mm)	500/400/500		
CNC CONTROL SYSTEM	ICLW		
WELDING HEAD	IND 24		
PROTECTIVE GAS	ARGON/ NITROGEN		
COOLING TYPE	WATER COOLED (IN-BUILT CHILLER)		
ELECTRICAL REQUIREMENTS	380 VAC (3 Phase)		
WIRE FEEDING DIAMETER (mm)	0.8/1/1.2/1.4		
OVERALL DIMENSIONS (L*W*H)	1120*1200*1350		
WEIGHT (Kg)	560		

APPLICATIONS



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TRIGGERING HEIGHTS OF EXCELLENCE



impression that lasts.



Model:
iCUT Pro



SCAN QR CODE

To Check Video Solution

FIBER LASER CUTTING

LASER CUTTING SOLUTIONS

Our series of laser cutting machine with highly advanced features & upgradable latest software with optimum cost. Infused machines are upgradable to its next series without changing much of it's configurational parts.

SPECIFICATIONS :

MODEL	iPRO - 1.5	iPRO - 2	iPRO - 3	iPRO - 4
BED SIZE (MM)	1500*3000	1500*3000	1500*3000	1500*3000 / 2000*4000
LASER POWER (WATT)	1500	2000	3000	4000
ACCELERATION	1.0	1.0	1.0	1.2
STRUCTURE TYPE	FABRICATED (Pipe Welded)	FABRICATED (Pipe+Plate Welded)	FABRICATED (Plate Welded)	FABRICATED (Plate Welded)
GANTRY TYPE	ALUM. CAST ALLOY	ALUM. CAST ALLOY	ALUM. CAST ALLOY	ALUM. CAST ALLOY
MOTIONS (RACK & PINION)	YYC	YYC	YYC	YYC
LM GUIDES	HIWIN / PMI / THK	HIWIN / PMI / THK	HIWIN / PMI / THK	HIWIN / PMI / THK
GAS CONTROLS	SMC (JAPAN)	SMC (JAPAN)	SMC (JAPAN)	SMC (JAPAN)
GROSS WEIGHT (KG)	3500	3800	4500	4500 / 6500

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ADDED OPTIONS :

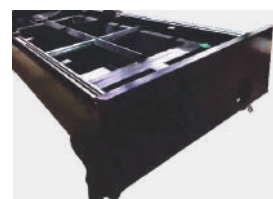
- HEAVY DUTY AUTOMATIC EXCHANGE TABLE
- FULLY ENCLOSED STRUCTURE
- AUTOMATIC FUME EXTRACTION

With these power-packed Features:

- #1 **DURABLE RACK-AND-PINION MOTION SYSTEM.**
- #2 **TOP DRAG CHAIN CONCEPT MAKING MACHINE COMPACT AND MORE SAFE.**
- #3 **HV PROTECTED CONTROL PANEL, WORK IN POOR ELECTRICAL CONDITIONS.**
- #4 **LIGHT WEIGHT GANTRY WITH SYNCHRONIZED DUAL SERVO MOTORS.**
- #5 **AUTO FOCUS CUTTING HEAD & DUST PROOF GAS LINE FOR GAS FLOW.**
- #6 **BACK PANEL WITH CLIMATE CONTROL AC FOR ELECTRONICS.**
- #7 **WIDEST RANGE OF MODELS AVAILABLE ALONG WITH CUSTOMIZED SOLUTIONS.**



AEROSPACE GRADE
ALUMINIUM GANTRY



HEAVY DUTY PLATE WELDED
& HEAT TREATED STRUCTURE

Our machine at customer's site:



POWER / MATERIAL	CARBON STEEL	STAINLESS STEEL	BRASS	ALUMINIUM
1 KW	10 mm	4 mm	3 mm	3 mm
1.5 KW	14 mm	6 mm	4 mm	4 mm
2 KW	18 mm	8 mm	5 mm	5 mm
3 KW	20 mm	10 mm	6 mm	6 mm
4 KW	22 mm	12 mm	8 mm	8 mm
6 KW	25 mm	16 mm	10 mm	10 mm

*above data is for reference and is obtained from controlled parameters.

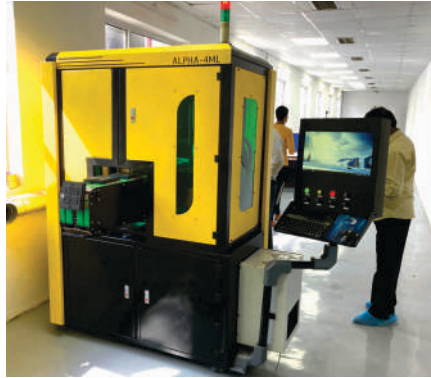
A P P L I C A T I O N S



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Why us?

We understand your requirement of marking and suggest you solutions which are most affordable in price and best in quality. We are expertise in Marking solutions whether permanent or temporary based on Lasers, pneumatic tools and inks, we customize solutions according to need of our client. We also manufacture / integrate systems to convert your conventional factories into Smart factories, our products also include SPMs for drilling / conventional Engravings.



PROJECT CASE STUDIES

impression

some of our
**TRACEABILITY
CASE STUDIES**



some of our
**CUSTOMERS
OUR BEST FIT**



that lasts.



INDUSTRIAL LASER MARKING, ENGRAVING, CUTTING,
WELDING & ROBOTIC SOLUTIONS.

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Infused Systems

