

SS Proton Ultima

SCREEN ENGRAVER MACHINE /
CTS-COMPUTER TO SCREEN



**PATENT
PENDING**

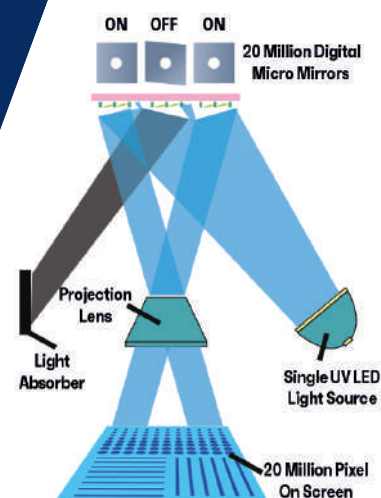
2000000
Pixels Exposed At Once

**MADE IN
INDIA**

Overview

Introducing SS Proton Ultima, the world's first 2-in-1 Computer to Screen Engraver. Featuring TI USA's patented DLP® (Digital Light Processing) Technology, this cutting-edge machine incorporates a remarkable DMD® (Digital Micromirror Device) chip- a rectangular array of 2 million individually controlled, highly reflective aluminium micromirrors. Each individual mirror represents a single pixel of the design, ensuring unparalleled precision and clarity to redefine the screen engraving process.

With our innovative 2-in-1 functionality, machine can be seamlessly switched between flatbed exposing and rotary exposing modes, eliminating the need for two separate machines. This ingenious functionality allows for substantial cost savings, reduced initial capital investment, efficient resource & labour management and optimized space utilization.



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Technical Specifications :

Model Name	SS Proton Ultima
Imaging Technology	DMD® (Digital Micromirror Device)
Max. Screen Size	Flatbed - 3000 x 4000 mm. Rotary - Upto 3500 mm Circumference 640mm/ 820mm/ 914mm/ 1018mm
Design File Format	1 Bit Tiff
Light Source	Integrated Single UV LED
UV Wavelength	365-385 nm
Production Speed	Upto 200 Sq.Ft / Hour
Ambient Condition	18-22°C 40-60% Humidity
Input Power	220V/50Hz ±1hz

SS Proton Ultima vs Inkjet Engravers

- SS Proton Ultima completely eliminates the need for costly consumables such as ink, wax, printheads and films which leads to substantial cost savings.
- The high-resolution capability of DLP® Technology ensures the reproduction of intricate designs with fine details and smooth edges. The precise control of individual pixels through micro mirrors ensures exceptional precision and accuracy in screen engraving which Inkjet Technology cannot match.
- The screens are prepared with fewer production steps leading to significant time savings and increased productivity when compared with Inkjet CTS.
- SS Proton Ultima offers an environmentally friendly solution for screen preparation by eliminating the need for ink or wax, preventing water pollution caused by their mixing which promotes a cleaner and more sustainable production process.

SS Proton Ultima vs Diode Based Blue Ray Engravers

- SS Proton Ultima is based on DLP® Technology where each pixel of design is represented by an individual mirror on the DMD® Chip & Blue Ray Engravers are based on laser diodes. Due to difference in core technology Screens engraved by SS Proton Ultima are superior to any Blue Ray Engravers.
- SS Proton Ultima uses a single high-powered LED Light offering an extended service life and enhanced reliability in comparison to diodes used in Blue Ray Engravers.
- SS Proton Ultima uses 365nm UV LED Light which is much better than 405nm UV Light emitted by diodes.
- Blue Ray Engravers uses numerous diodes like 64 or 96 pieces, factors such as diode aging impacts the stability and accuracy of the system over time. Regular calibration is needed to ensure consistent and accurate results which is not the case with SS Proton Ultima which uses single LED Light Source.
- SS Proton Ultima boasts a superior production capacity, as it covers a larger surface area in a single exposure compared to diode-based engravers.