

Polygon Scan Head

Han's Scanner Polygon scanning head adopts a one-dimensional polygon mirror and one-dimensional galvanometer design scheme, which can realize two-dimensional surface scanning without an additional axis of movement. Self-designed high-precision polygon and high-speed DC brushless motor, matched with a high-performance digital driver, Achieves high speed while ensuring high-speed stability. The scanning starting point detection module can detect the starting point of the polygon surface, and work with Han's Scanner GMC control card and special marking software to simplify the difficulty of customer system integration.

Han's Scanner Polygon scan head is suitable for various high repetition frequency picosecond ,femtosecond lasers and high power continuous lasers and other application scenarios .It can reach the scanning speed of 260 m/s and realize the processing efficiency that the galvanometer can not match

Feature:

1. High speed, stability of high speed
2. High laser power
3. Low drift and high precision
4. Modular design, easy to integrate

INDUSGTRY APPLICATION



高速划线、飞行打标
High-speed marking
On-the-fly marking



PCB高速表面处理
PCB high-speed surface treatment



高功率激光清洗
High power laser cleaning



玻璃、塑料钻微孔
Glass and plastic micro-drilling

※以上图片来源于网络
The above pictures are from the Internet

Technical Parameters

Polygon Scan Head	
Input Beam Aperture (mm)	≤15
Standard Wavelength (nm)	355/532/1064
Scan Speed(lines per second)	150-1600 (lines per second)
Moving spot speed (m/s)	50-260 (f-theta=255)
LINE Placement Repeatability-Y axis (urad)	±50
Optimal Laser Pixel Placement Repeatability-X axis (urad)	±50
Power Requirements	±15VDC@7Amax
Scan Angle (°)	±16 (axis), ±12.5 (axis)
Operation Temperature (°C)	25±10

Note:①Test with F=255 mm F-theta lens

②All angles are in optical degrees

TECHNICAL DRAWING

