

BREAKING LIMITS: THE NEW HIGH-SPEED MACHINE IS COMING

7Hz Low-pass Filtering

1.5g Acceleration

Efficiency Boost

50%-100%



Equipment Features

- 01

7hz Low-pass Filtering+1.5G Acceleration

7Hz low-pass filtering frequency and 1.5G acceleration ensure improved efficiency and precise intelligent corner processing.
- 02

Hymson Patented Machine Lathe

The Hymson high-speed machine features a redesigned lathe and optimized components, effectively ensuring long-term stability and high-dynamic cutting performance.
- 03

Thermal Dynamic Compensation Technology

Exclusive thermal dynamic compensation technology enables intelligent precision adjustments, ensuring long-term accuracy of the machine.
- 04

Customized Algorithms

Tailored control systems and core algorithms further enhance servo system performance, delivering exceptional precision.
- 05

Customized Components

Customized high-performance and high-matching servo motors and reducers, boost the transmission performance.
- 06

Opto-mechanical Depth Optimization

The laser system, mechanical hardware and motor algorithms have been optimized to further enhance the overall performance of the high-speed machine.

Equipment Advantages



Speed Boost
50%-100%

Cutting speed increases by 50%-100%. Smaller and more complex workpieces benefit from greater speed improvements.



Efficiency Boost
50%-200%

Higher cutting speeds and productivity can achieve a 1-2x increase in processing fees.



Long-term Stability

Hymson's advanced automation expertise ensures consistent high-speed and high-dynamic cutting over the long term.

Performance Indexes

Model	HF3015G	HF4020G
Effective Cutting Range	3100mmX1550mm	4000mmX2000mm
X/Y-axis Positioning Accuracy	±0.03mm/m	±0.03mm/m
Maximum X/Y-axis Acceleration ①	1.5 g	1.5 g
Low-pass Filtering ②	7Hz	7Hz
Floor Space of Whole Machine	8700mmX2800mm	10800mmX3500mm

① **Acceleration:**Acceleration measures how quickly the machine increases its speed, determining the time required to go from 0m/min to the specified system speed (e.g., 50m/min). Higher acceleration results in faster speed increases.

② **Low-pass Filtering:** The low-pass filtering is the rate of acceleration change,determines the time it takes for the machine to go from 0G to the system specified acceleration (e.g. 1.5G).Therefore, the higher the low-pass filtering, the shorter time of the acceleration change and the stronger speed up.

With 1.5G acceleration and 7Hz low-pass filtering, the HF3216G accelerates from 0m/min to 50m/min in just 0.1 seconds.