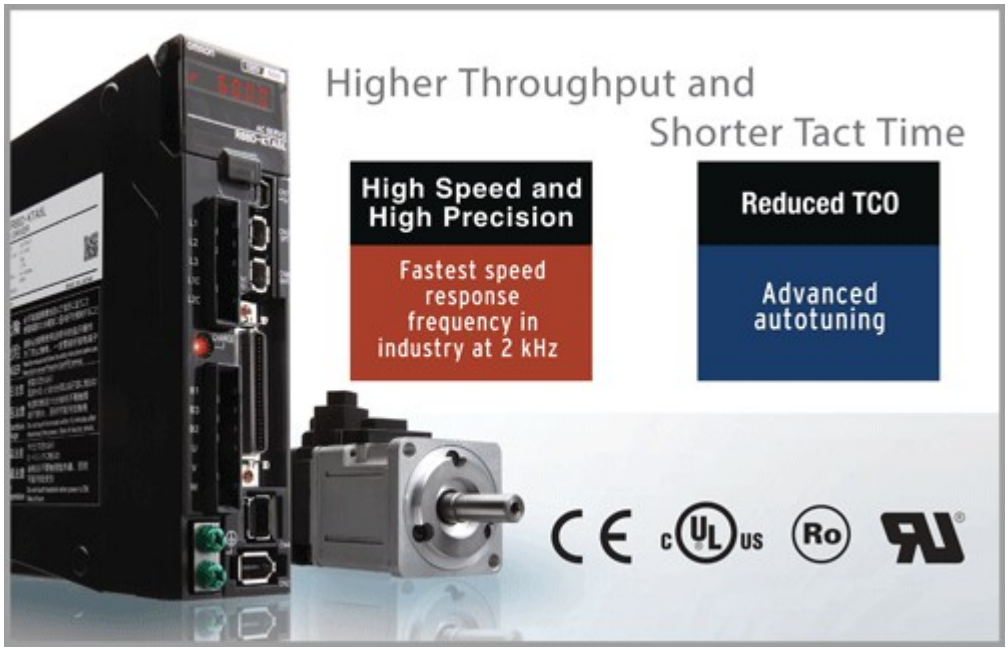
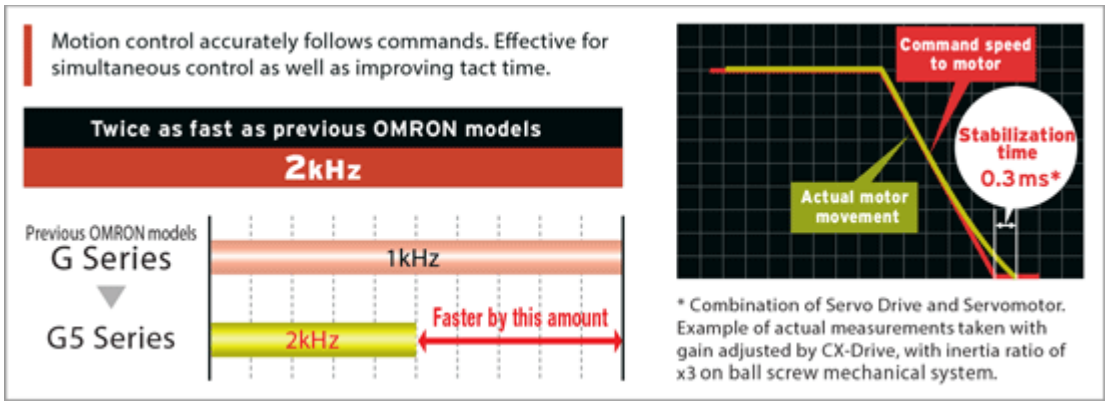
High Speed and High Precision



Industry Top-class Tracking Performance

Speed Response Frequency of 2 kHz

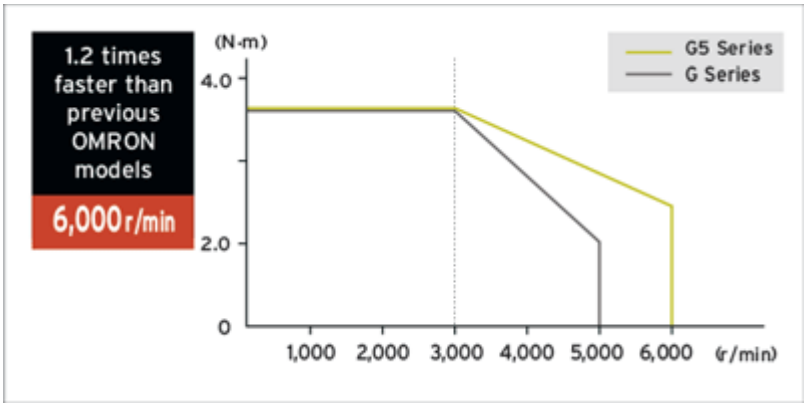
Speed response is representative of servo system characteristics. In the G5, the industry's fastest response has been achieved at 2 kHz.
By improving the speed response by twice compared to previous OMRON models, the stabilization time has been shortened and this contributes
to tact time reduction.



Reduced Tact Time with Higher Speed

Maximum rotation speed : 6,000 r/min*

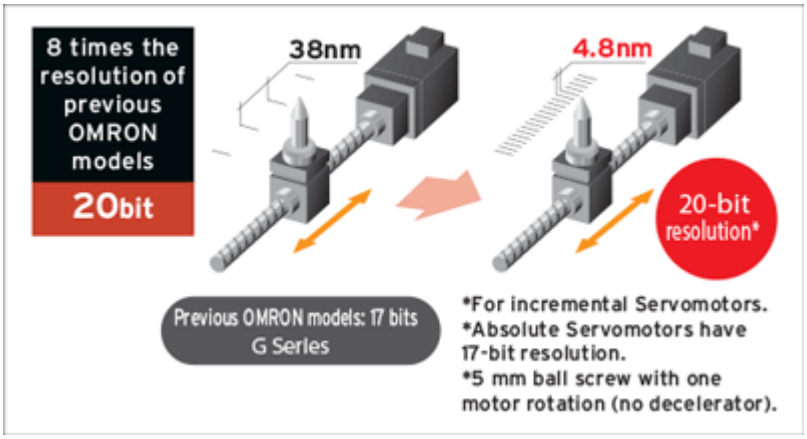
The maximum rotation speed of R88M-series Servomotors has increased to 6,000 r/min, resulting in high-speed positioning that can reduce tact time.
*Applicable to 100 V/200 V models with 750 W or less.



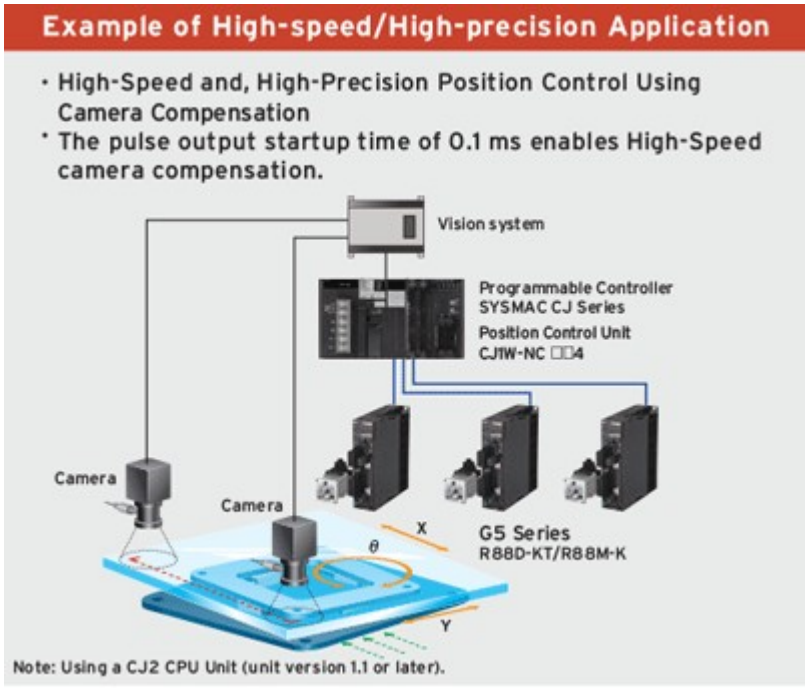
Best Positioning Accuracy

Featuring a 20-bit high-resolution incremental encoder

High-precision positioning can be achieved with the built-in encoder, 8 times the resolution of previous OMRON models at 20 bits.



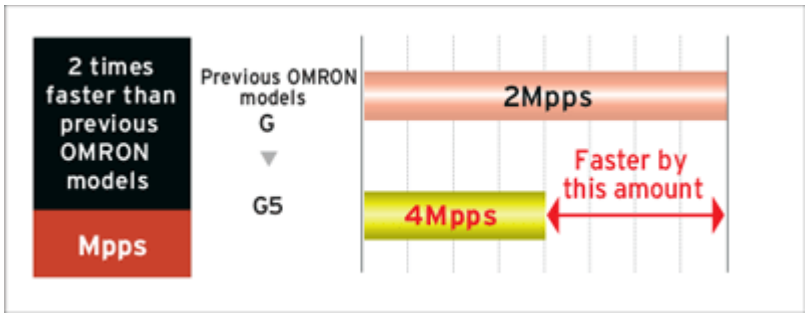
Application Example



High-speed and High-precision Positioning

Pulse input response frequency: 4 Mpps

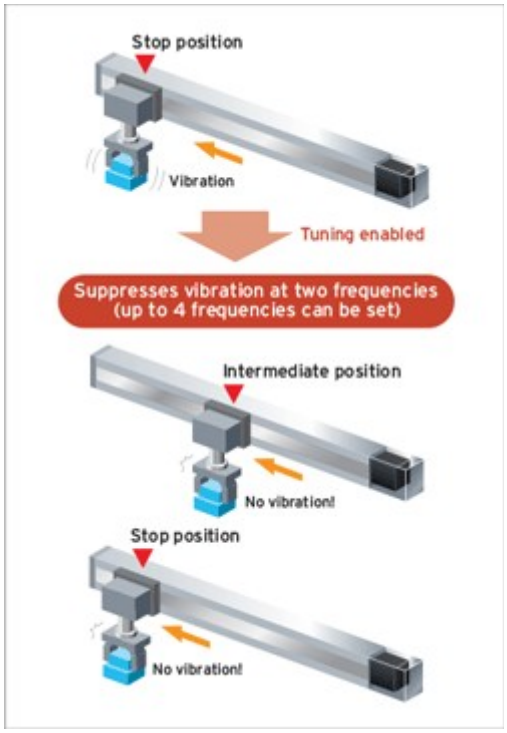
The Servo Drive response to command pulses is 4 Mpps, twice that of previous OMRON models. Response delays are thus reduced enabling high-speed and high-precision positioning.



Ideal for Applications That Require High Accuracy

Improved vibration control function

With the vibration control function, if the tip of the device is vibrating, the vibration frequency can be set to remove the vibration. It can also be used to suppress vibration resulting from starting and stopping the device, allowing precise movement.


Stop position
Vibration
Tuning enabled
Suppresses vibration at two frequencies
(up to 4 frequencies can be set)
Intermediate position
No vibration!
Stop position
No vibration!