L7 PULSE CONTROL SERIES:

- **Pulse Standard**
- **Position control only**
- **5V differential pulse signal/24V single-ended pulse signal**
- **17-bit/23-bit encoder motor optional**
- **Standard dynamic braking function**
- **New MS debugging software**

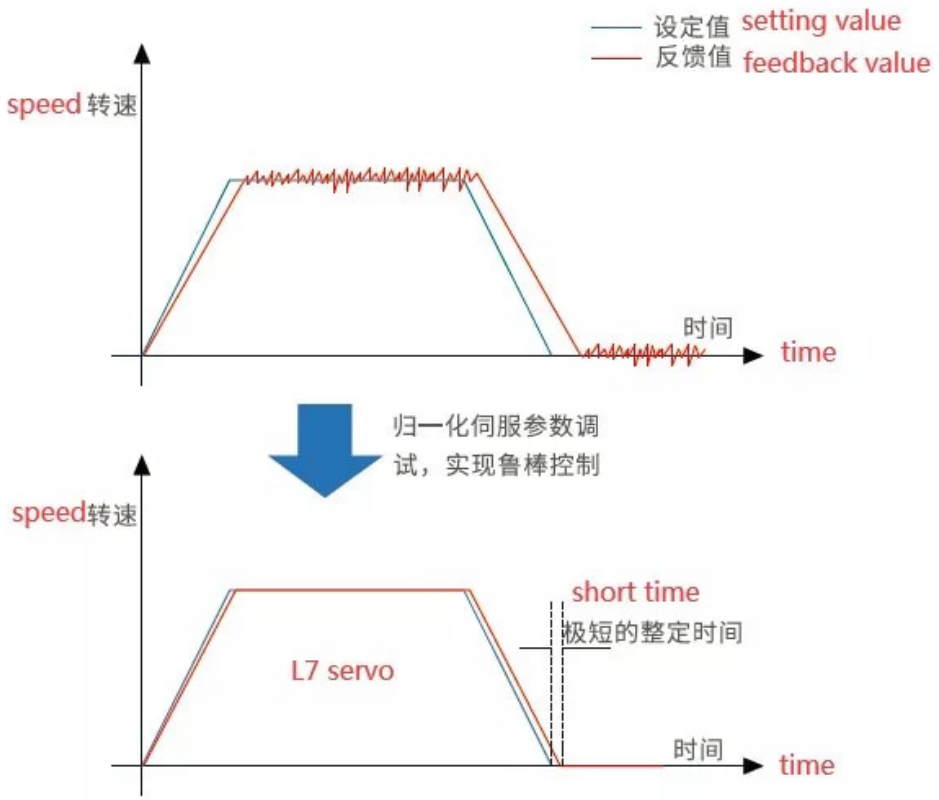
The L7 series AC servo system is the seventh-generation all-digital AC servo system. It uses the latest digital signal processor DSP, field programmable gate array (FPGA) and MITSUBISHI intelligent power Module (IPM), high integration, small size, perfect protection and good reliability. Using the optimal PID algorithm to complete PWM control, the performance has reached the level of similar foreign products.

The standard ACM2 series servo motors of the L7 series have a maximum speed of up to 6500rpm (40/60/80 base). Compared with common motors, the speed is increased by 1500rpm, the action time under the same path is shorter, and the equipment capacity is increased.

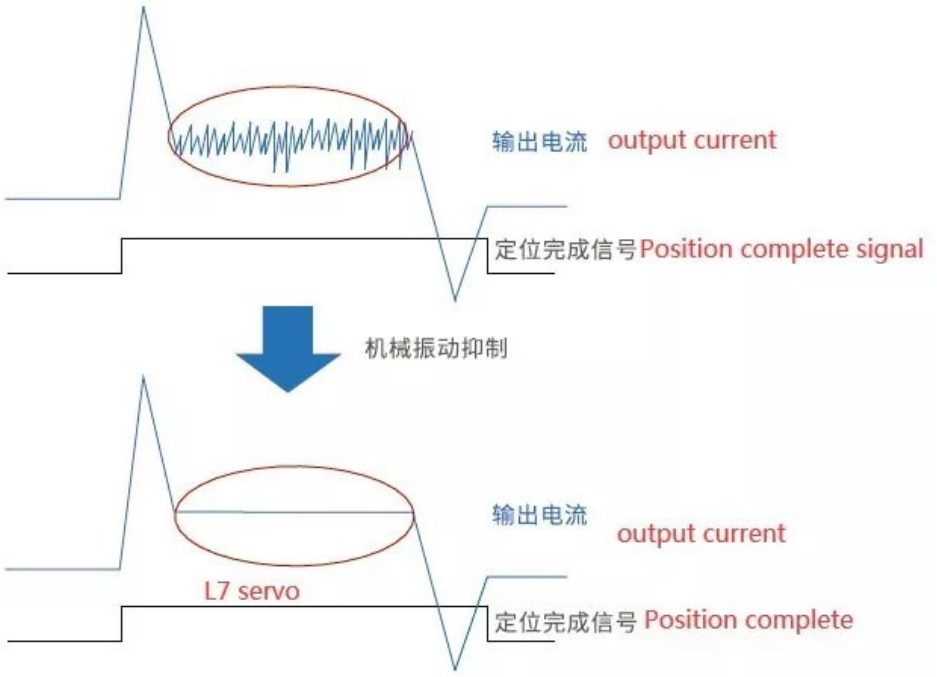
- **High resolution encoder**
  - Standard 23bit encoder, encoder resolution reaches 8,388,608 pulses/rev.
  - Support 23bit serial incremental subdivision and 23bit serial multi-turn absolute value encoder, power off position memory, no need to return to zero operation, low-speed processing application is more stable, help to improve machine efficiency.

- **Normalized servo parameter debugging**

Using the normalized servo parameter debugging function, only one parameter is needed to realize the adjustment of the servo parameters, including the position loop/speed loop/current loop PID parameters, model tracking control, command smooth filtering, etc., to adapt to different load requirements, the maximum Limit the performance of mechanical equipment.

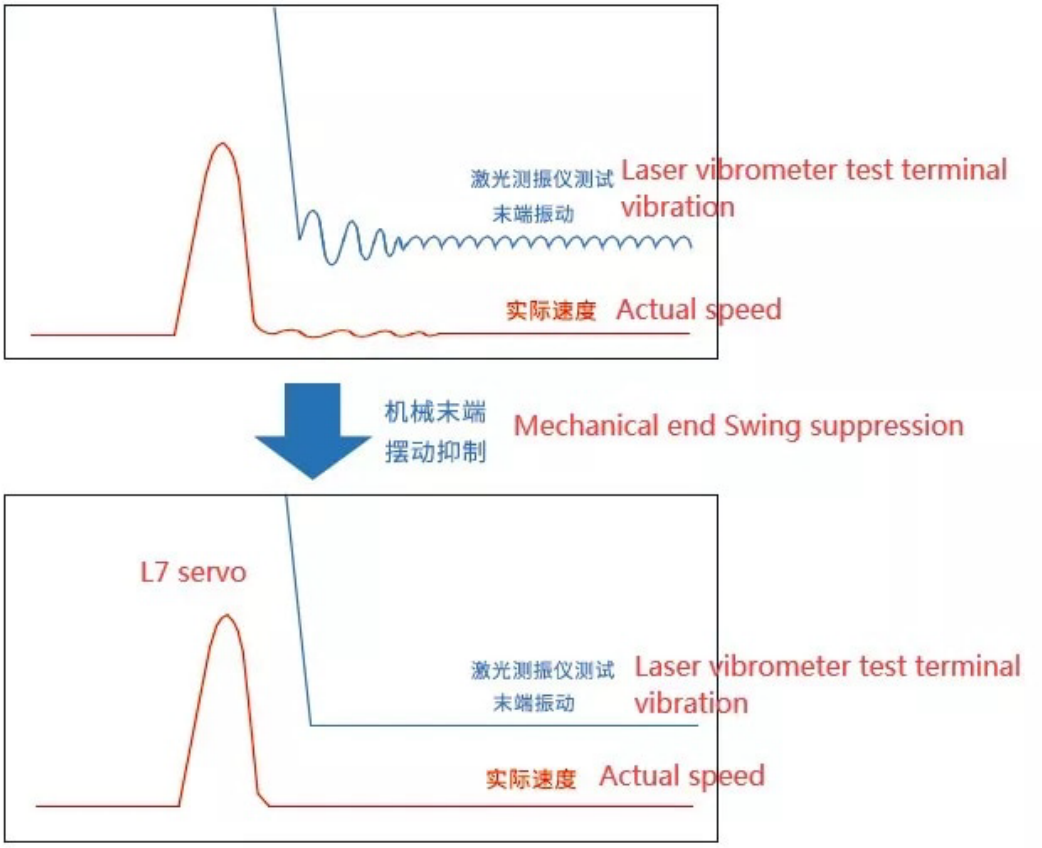


- **Adaptive notch filter**
  - Provide 4 groups of Notch Filter
  - Can be set automatically or manually
  - Filter width can be set flexibly
  - Simple setting can automatically eliminate resonance, save adjustment time, increase equipment assembly and testing efficiency.

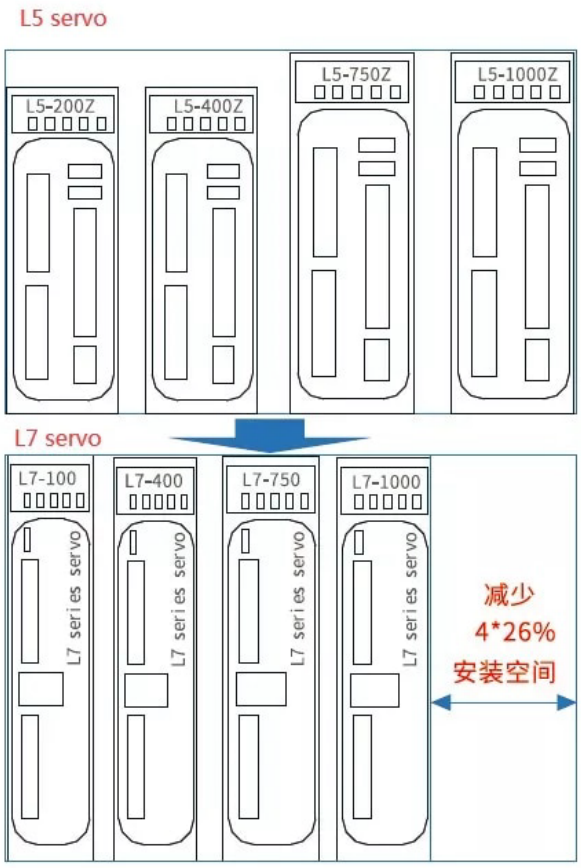


- **Swing array suppression at stop**

For flexible mechanical systems, it is easy to produce low-frequency vibrations below 200 Hz. This type of low-frequency vibration can be suppressed by pendulum array suppression to achieve high-beat operation of flexible systems.



- **Less installation space**



- **Integrated dynamic braking function**

The L7 series integrates dynamic braking function, which can quickly stop the servo motor through energy consumption braking during fault, emergency stop, and power failure, which can avoid the danger of collision caused by sudden alarm when the motor is running at high speed and reduce damage to the machine.
Ensure the safety and reliability of the operation of mechanical equipment!