Large Spindle Motor Suited to Large Size Machine Tools

FANUC LARGE SPINDLE MOTOR



Large Spindle Motor Suited to Large Size Machine Tools FANUC LARGE SPINDLE MOTOR I series

Features

- Various motor models with continuous rated output from 30kW to 200kW
- Further output enabled by "Multi Motors Drive Technology"
- High energy-saving system with "Power source regeneration" to convert kinetic energy to electric energy at deceleration and return to power source

FANUC LARGE SPINDLE MOTOR $\emptyset i$ series

Features

- High power up to high speed by optimum winding design and effective cooling structure
- Lower motor temperature by optimum control of magnetic flux



FANUC LARGE SPINDLE MOTOR @istingledisconditions series

Features

- High power and large torque models suited to large size machine tools
- Compact and large torque achieved by neodymium magnets



- *1) lpha iS 2000HV is driven by servo axis using "Spindle control with servo motor function" .
- As for detail, please refer to specification manual of CNC.
- *2) Tandem Control is applied for combination with Series 30*i*/31*i*/32*i*.
 PWM Distribution Module (PDM) is necessary for combination with Series 0*i*.

Control Technologies (HRV Control)

- FANUC Control technology (HRV Control) with many achievements on spindle control, applied to large spindle system
- Further output achieved by synchronous control of plural motors for one spindle with keeping stability



Example : Effect of Tandem Disturbance Elimination Control

Energy Saving Technologies

- Loss of amplifier reduced by applying the latest power device
- Power consumption largely reduced by Power source regeneration compared with resistor discharge
- Minimum current achieved by Maximum Efficiency Control, with optimizing ratio of excitation current and torque current according to load
- High efficiency spindle control achieved by Optimum Current Phase Control, according to motor temperature





Example : Loss of power device



Maintenance and Customer Support

Worldwide Customer Service and Support

FANUC operates customer service and support network worldwide through subsidiaries and affiliates. FANUC provides the highest quality service with the prompt response at any location nearest you.



FANUC Training Center

FANUC Training Center operates versatile training courses to develop skilled engineers effectively in several days. Inquiries : Yamanakako-mura, Yamanashi,

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