Large Spindle Motor Suited to Large Size Machine Tools

**FANUC LARGE SPINDLE MOTOR αi 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 αi 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 αiS series**

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

---

*1) αiS 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 30i/31i/32i.

PWM Distribution Module (PDM) is necessary for combination with Series 0i.
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

---

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
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,
Japan 401-0591
Phone: 81-555-84-6030
Fax: 81-555-84-5540

FANUC CORPORATION

- Headquarters: Oshino-mura, Yamanashi 401-0597, Japan
- Phone: 81-555-84-5555 Fax: 81-555-84-5512 http://www.fanuc.co.jp

© FANUC CORPORATION, 2008

Large Spindle(E)-05, 2014.4, Printed in Japan

All specifications are subject to change without notice.
No part of this catalog may be reproduced in any form.
The products in this catalog are controlled based on Japan’s “Foreign Exchange and Foreign Trade Law”. The export from Japan may be subject to an export license by the government of Japan. Further, re-export to another country may be subject to the license of the government of the country from where the product is re-exported. Furthermore, the product may also be controlled by re-export regulations of the United States government. Should you wish to export or re-export these products, please contact FANUC for advice.