

# FANUC Plus CNCs & *αi-D* Series SERVO Motors



## Accelerating the Future of FANUC-Controlled Machines for OEMs and Machine Tool Builders

Users throughout the world trust FANUC's superior control and servo technology, reliability and support for CNC machine tools. With an installation base of more than 5 million CNCs, the FANUC platform is the most popular control system used. Plus, FANUC has over 60 years of CNC technology development experience and more than 40 million automation products throughout the world, making FANUC a true global automation leader.

We are proud to present FANUC's powerhouse dynamic duo to help lead the world in the best machine tools available for now and years to come: *αi-D* Series Servo Motors and the PLUS CNC SERIES.

## ***ai*-D Series Servo and Spindle Motors**

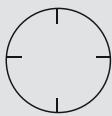
FANUC's new servo system delivers high speed and high precision while reducing energy consumption. The enhanced servo performance has exceptionally smooth operation to achieve fine surface machining and positioning.

This series is IP67 rated as standard for waterproof protection in heavy washdown or harsh environments. The *ai*-D Series Servo system is compatible with all current FANUC CNC Plus Series control models.



### **HIGHER SPEED**

Boost productivity with upgraded maximum speed of 8000 RPM for live tool motors.



### **HIGHER PRECISION**

Faster communication speed from the pulsecoder delivers higher control for outstanding accuracy.



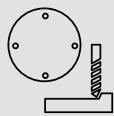
### **HIGHER QUALITY**

Improved machining quality results from a higher response via *ai*-D servo amplifiers and servo HRV control.



### **VERSATILE PERFORMANCE**

A wide range of models to fit any applications; all IP67 rated.



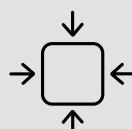
### **CYCLE TIME REDUCTION**

Enhanced maximum torque and RPMs speed up the acceleration to ramp up feed rates and shorten cycle times.



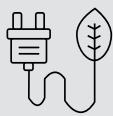
### **HASSLE-FREE**

Battery-less pulsecoders are available for all *ai*-D servo motors.



### **SMALLER FOOTPRINT**

With a more compact design, builders can save 30% of equipment space.



### **ENERGY SAVINGS**

An integrated energy recovery system as well as a 10% reduction in power loss helps lighten the carbon footprint.



### 30i-B Plus

The FANUC Series 30i-B Plus CNC is ideal for highly complex machines performing multi-axis, multi-path and high-speed high-precision machining applications. This CNC Series takes machining to the next level with an enhanced state-of-the-art CPU for faster and increased processing power. Built for advanced manufacturing, the control system includes optimized features designed to simplify 5-axis machining.



### 0i-F Plus

FANUC designed the 0i-F Plus CNC to help machine shops achieve more efficient operations through optimizing spindle performance, reducing sequencing processing time, and a customizable, user-friendly interface. The 0i-F Plus boasts more memory and processing power than previous iterations. These advancements translate to faster block processing times, quicker communication with the servo motors, and smoother tool path formation on the shop floor.



### Power Motion i-A Plus

Power Motion i-A Plus (PMi-A Plus) is the FANUC control of choice for general motion control systems. With the ability to control multiple pieces of industrial equipment as well as run multiple programs simultaneously and independently, PMi-A Plus is the perfect solution to handle all complex motion control needs. PMi-A Plus' advanced functions enable flexible motion control by using position, speed, torque and/or pressure feedback. Applications perfect for PMi-A Plus are controlling machines used for filling, winding, packing/wrapping, printing, press fitting, packaging, stamping and more.

## FANUC Series 500i-A

The FANUC Series 500i-A CNC promises to be the control series of the future that will advance machine performance. Built with 5-axis integrated technology, this control is being designed to support both machine tool builders and CNC users with their evolving needs including easier operations, more security and optimized efficiency. For machine tool builders and OEMs interested in adopting the 500i-A CNC, moving to a PLUS CNC first is a necessary step.



## World-Class Support for World-Class Customers

FANUC CNCs and servo motors are used worldwide and have earned a reputation for their consistently high level of build quality, producing exceptional performance with extraordinary efficiency.

FANUC is committed to our Service First motto, which means we provide customers with lifetime product support for as long as their FANUC product is used in production. We have an expert team of service, support and training staff to meet your needs. That's something that no other automation company can say.

**Service First**



## Wherever You Need Us: We are There

With the largest global network of local subsidiaries across all continents, we are always there to meet your needs when you need us. Fast and efficient - 24/7. You will always have a local contact that speaks your language.



*Talk with your FANUC CNC Sales representative today for more information on these products as well as how we can help you go to market with the best equipment available!*