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“Zero Wear” machining, “Next Generation CNC unit” LP controller!!

New linear motor drive die-sinker EDM

The “AG series / AG35L, AG55L, AG75L” have been released

Sodick has newly developed the “AG series”. The “AG series” are equipped with LP power supply, which features extraordinary high speed-1Gbit/sec serial communication method, ergonomically designed control panel, cutting edge NC programming system which greatly facilitates the handling of 3-D data, and highly reputed “Zero-Wear” machining. With the release of this new series, unprecedented excellent machining performance and advanced solutions for the problems confronted in manufacturing site will be experienced by the customers.

Product line-up of The “AG series” are *AG35L*, *AG55L*, and *AG75L*, which are developed based on the well received functions of the “AQ series” to meet the various demands of the customers. New “AG series” are all equipped with “LP power supply” and boasts high maintenance reliability as linear motor driven machine.

Features of the “AG series”

1. Highly reputed “Zero-Wear” machining is standard.
2. Newly adopted high speed serial communication method and new CNC unit developed by Sodick
3. Intelligent Q³Vic EDM is standard, making it possible to directly import 3-D solid model.
4. Ergonomically designed new control panel.
5. Ethernet port (LAN) and external memory port are standard.
6. High speed data processing with high-capacity memory system.

Detailed of “AG series.”

1 . Highly reputed “Zero-Wear” machining is standard.

“Zero-Wear ” machining has earned a high reputation in many manufacturing sites since its release. While machining with graphite electrode, astoundingly low level wear rate, “Zero-Wear ” (wear rate of less than 0.06% is defined as zero-wear), has been made possible, making full advantage of high speed machining performance of graphite electrode. One electrode can handle entire machining process from roughing to finishing, which is especially advantageous in manufacturing molds for instrumental panel, front grill, rear bumper, and lamp box as well as wide and deep grooves used to create ribs for die-cast mold and electric appliances.

Large reduction of machining time, cost, and human errors can be expected thanks to the reduced number of electrodes. Machining speed of copper electrodes and copper tungsten electrode can also be greatly increased.

2. Newly adopted high speed serial communication method and new CNC unit developed by Sodick

Ever since its foundation, Sodick has been developed numerical control unit (NC unit hereinafter) by itself. The “LP power supply” installed on the “AG series” has adopted 1Gbit/sec-super high speed serial communication technologies which has never been used in EDM industry. This high speed communication system is used for every control system and improved driving performance, responsiveness to servo control, and reliability.

3. Intelligent Q³vic EDM is standard, making it possible to directly import 3-D solid model.

Sodick has been proposing “Visible manufacturing with Q³vic solution”, in which 3D solid model is directly imported into NC device to be effectively made use of at manufacturing site.

The new “AG series” is equipped with “Intelligent Q³vic EDM” which has been developed further based on existing application series of “Q³vic Solution”

“Intelligent Q³vic EDM” is software to directly import 3D solid model, used for mold-designing, into machine tools. Thanks to 3-D design data of workpiece, objective confirmation of machining positions and error-free, swift set-up of workpiece is possible.

4. Ergonomically designed new control panel.

Top priority was placed on operability in designing new key boards. The color layout of control panel features high visual perception. Frequently used buttons are formed concavo-convex, etc. Ergonomic design is thoroughly pursued. Both beginners and experienced operators are able to enjoy stress free operation.

5. Ethernet port (LAN) and external memory port are standard.

3D-CAD design has become essential in the current manufacturing site and the data tends to become larger and larger. In new “AG series”, LAN and external memory are standard and high capacity data can be transferred.

6. High speed data processing with high-capacity memory system.

The new “AG series” feature high capacity main memory system that enables high speed and smooth processing of 3D solid model.

Image of AG35L LP1

