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## Sales Launch of FRA Series of High-End Take-Out Robots

● Yushin Precision Equipment ●

On July 12, Yushin Precision Equipment Co., Ltd. (YPE) will launch 3 models of their new FRA Series of high-end take-out robots equipped with their newly developed vibration dampening technology.

YPE specializes in the manufacture of take-out robots for plastic injection molding machines. (YPE is based in Kyoto, Japan; President: Mayumi Kotani; Capital: JPY 1,985.66 million.)

This FRA Series will serve a wide range of customer demands with a lineup of 3 models: the FRA-0515 for molding machines with a mold clamping force of 50 - 150 tf, the FRA-1530 for clamping forces of 150 - 300 tf, and the FRA-3060 for clamping forces of 300 - 600 tf.

### New product features

We have long contributed to the development of the plastic molding industry by offering newly featured take-out robots in a continuous pursuit of 'speed' and 'simple operation'. The new series of robots we are going to launch is carefully and meticulously redesigned every detail of our existing robots.

#### 1. New vibration dampening technology

Reducing vibrations is critical to insert molding and other methods of high-precision molding, as well as for shortening molding cycle time - a key factor for determining plastic molding productivity. Equipped with Yushin's proprietary 'Active Vibration Control', these robots deliver high dampening performance under various molding conditions.

## 2. New controller

The 'E-touch V' furthers the 'simple operation' concept that Yushin began with the industry's first standard configuration 'touch panel controller' in 1996. It employs 2 vertically arrayed displays -- main and sub -- that effectively shorten setup time by simultaneously presenting a lot of information in an easy-to-understand format.

## 3. IoT

Intu Line is Yushin's proprietary IoT service that visualizes information essential towards enhancing productivity and molding quality, preventing robot trouble. Anyone can start using the service the same day the robot is installed. Moreover, the benefits far outweigh the costs of introduction and usage.

## 4. Compliant with international safety standards

Alongside the 'high speed' and 'anyone-can-operate' concepts underlying the FRA Series, Yushin outpaces the industry with its 'safe usage' proposals. These robots offer the world's highest level of industrial safety, by incorporating redundant safety circuitry, speed monitoring and other safety features required under international standards.

Prices for the robot body (excluding tax) are 4.3 million JPY for the FRA-0515, 4.5 million JPY for the FRA-1530 and 5 million JPY for the FRA-3060. Yushin's sales target is about 500 units annually.

[Notes]

\* Active Vibration Control

Control technology that actively dampens vibrations based on sensor signals, etc. This technology produces more effective results than passively absorbing vibrations.

\* IoT (Internet of Things)

In a manufacturing context, the inter-networking of 'things' like robots and sensors in order to collect and use manufacturing data over the internet. IoT is also the underlying concept of Germany's Industrie 4.0 and the US's Industrial Internet.

\* Intu Line

IoT service from YPE that users can 'intuitively' use.

(For more information)

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