

About innovative-Automation

Recently, OMRON has developed a manufacturing innovation concept called "innovative-Automation." With this concept, OMRON is currently committed to bringing innovation to manufacturing sites through three key innovations, or three "i's." Through these innovations in the area of automation, OMRON aims to enable significant productivity improvements in manufacturing sites in order to achieve high-value-added manufacturing. With the first "i," "integrated" (control evolution), OMRON will seek to advance automated control technology so that virtually any operator, even an inexperienced operator, can effortlessly perform work that previously required the expert skills of experienced workers. With the second "i," "intelligent" (development of intelligence by IoT and AI), OMRON seeks to create constantly evolving equipment and production lines. By adopting a wide range of control devices and artificial intelligence (AI), machines can learn through experience and maintain themselves in optimal condition. For the third "i," "interactive" (new harmonization between people and machines), OMRON pursues the development of a new harmonious relationship between human operators and machines; as they work together in the same workspace. Machines will be able to assist human operators by recognizing human thoughts and behavior in a way that only OMRON, a specialist control equipment manufacturer who knows production floors inside and out, can realize.