

Chumpower Machinery Corp.

Chumpower integrates Techman collaborative robots into their manufacturing line.



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CHALLENGE

While modern technology makes our lives "smarter," businesses and factories are also attempting to use human intelligence more effectively by putting workers in charge of higher-value jobs like R&D initiatives, process planning, and other things. So who will do the routine, everyday tasks? Chumpower posed this query and issued this challenge.

SOLUTION

Free the Workers from Repetitive Daily Tasks

In order to address the issue, Chumpower Machine Corp., a Taiwanese manufacturer that specialized in offering PET bottle blow molding machines and equipment including drill chucks, tool holders, and spindles, decided to integrate Techman collaborative robots into their manufacturing line.

Ping Chen, a system engineer, saw the variations and improvements in the distribution of labor and the effectiveness of work processes.

"Before we implement TM Robot, our colleague needs to stay near our machines, to complete the process of a certain station. For example, checking on the quality of the goods or transit the goods to another equipment. Now, we make cobots perform all of these tasks. The workers are now free from the stand-by mode and can support other production tasks. This makes a significant improvement, especially when we are having a lot of orders."

Leveraging the Flexibility of TM Robot

At Chumpower, the engineers are making good use of TM Robot's flexible characteristics. *"We are now implementing TM Robots in our laser graving room and at the end of our blow molding machine. TM Robot is capable of installing customized grippers, so we used a special gripper that can grab 2 workpieces at a time, reducing the cycle time of the process. For the cobot implemented at the end of the blow molding machine, we use the visual function of the robot to determine whether the crystals on the bottom of the bottles have passed the standard and then packed up the qualified bottles in order. More importantly, the HMI of TM Robot is very easy to learn and operate. Users can easily adjust the settings to deal with different types of bottles or production requirements."* Says Ping Chen.

In an era in which human resources are becoming more and more valuable, it's critical for enterprise managers to allocate their manpower in the most efficient way. TM robots provide these managers more flexibility to do so. And there's no doubt that with the incredible features and characteristics of TM Robot, these robot arms can cover multiple forms of tasks and applications.

