## **Fully Electric Plastic Injection Molding Machine**

## Feature

A motor with a clumping force of 850 tons compared with a hydraulic device with the same clumping force makes it possible to save a power consumption of approximately 92,000 kW with 35-tons CO<sub>2</sub> emissions

(Based on Toyo Machinery & Metal's in-house measurement and calculation results on the condition that the motor and the hydraulic device are operated 5,000 hours annually at a cycle of 72 seconds).

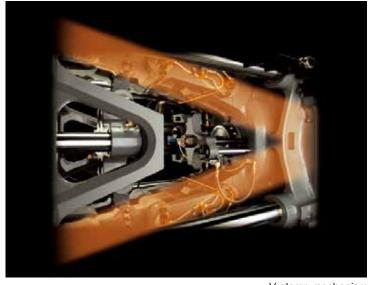
Ensures the fine control and precise reproducibility of injection and clamping with an electric motor.

A 90% reduction of lubricant supply supported by uniquely developed grease- and lubrication-saving design.

## Overview (Technical principles, actions, etc.)

New technologies, such as a V-clamp and die plate optimization, are applied to the clamping mechanism in order to use the driving force of the electric motor highly efficiently. Resin is filled into a cavity at high pressure. Therefore, the clamping of a mold requires great force.

The V-clamp and die plate optimization developed in academic-industrial cooperation with Kyoto University realizes the transmission of uniformed clamping force to the parting surfaces of molds, thus generating necessary clamping force with energy saved.



V-clamp mechanism



PLASTAR SI-850IV Large-sized Fully Electric Plastic Injection Molding Machine

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