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Sumitomo (SHI) Demag

Do you know how much energy your injection moulding machine consumes? EnergyCheck from Sumitomo (SHI) Demag will provide you with the answer!

How much energy does an injection moulding process consume? What percentages of this are accounted for by the pump, the motor, the heating and the peripheral devices of the machine? Sumitomo (SHI) Demag has developed its EnergyCheck service for those users who want to know precisely.

EnergyCheck, which **can be used both on older and new injection moulding machines**, helps to determine the actual status of energy consumption by the injection moulding process and its individual cycle phases. Sumitomo (SHI) Demag measures the actual consumption by the motors, the cylinder- and hot runner heating, as well as the connected peripheral devices. The company can then use this information **to identify the potential for saving energy** so as to optimise the injection moulding process from the point of view of energy and, building on this, introduce measures to lower consumption for the various machine components. The customer benefits from more economical production, which reveals itself in reduced costs per production part, and, ultimately, in increased competitiveness.

By using the EnergyCheck service, **the user also determines the actual energy consumption for each production part**. They are then in a position, for example, to be able to judge whether the volume of energy provided for their plant is sufficient. By transferring the measurement results to similar processes, they can form a judgement about the level of their total consumption in terms of the whole company.

In order to carry out an EnergyCheck at the customer's site, Sumitomo (SHI) Demag **only requires about three hours per machine**, depending on the length of the process phases. This opportunity is also used to measure the peaks in electricity demand, which occur when the machine is turned on or during preheating. The EnergyCheck software displays the data determined by the energy measuring device on the screen of the connected laptop.



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Sumitomo (SHI) Demag can further use the measurement results to work out how much energy the customer would save if they had the **activeDrive or smartDrive pump drive controlled** by rotational speed installed and can provide comprehensive advice to them on this. The functions of the pump drive can then be operated via the NC4- or NC5-control of the machine.



Benefits for you:

- ✓ Can be carried out on older and new injection moulding machines
- ✓ Identification of the potential for saving energy
- ✓ Monitoring of energy consumption for each production part
- ✓ EnergyCheck in just 3 hours
- ✓ Energy savings by installing the activeDrive or smartDrive pump drive controlled by rotational speed