

## smartDrive operating principle

### Speed-regulated pump drive

By „intelligently“ evaluating the pump signal, an additional „smart“ converter regulates the pump motor revolution according to the process requirements.

This enables us to achieve considerably reduced energy consumption in the idle and part load phases as well as mould change and set-up phases.

Process stability is assured by the necessary energy requirement being available in **every** phase of the run!

#### The benefits for you:

- ✓ Reduction of energy costs by an average of 25% during the processing, mould change and set-up phases
- ✓ Operation integrated into machine control, with simple screen lay-out
- ✓ Consistent product quality through individualised setting
- ✓ Process data do not need to be changed
- ✓ Less cooling performance needed
- ✓ Lower maintenance costs, e.g. through reduced pump wear
- ✓ Lower product costs due to longer lifetime of the hydraulic oil
- ✓ Investment pay-off can be calculated
- ✓ Low production down-time due to short assembly time
- ✓ Helps to protect the environment

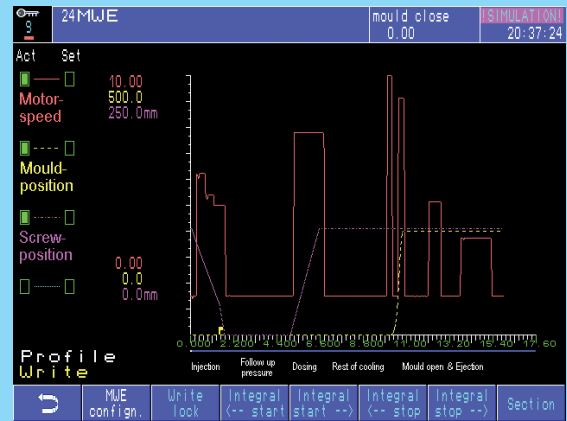
 **Sumitomo**  
SHI **DEMAG**

## smartDrive

The brake on costs for your machine park



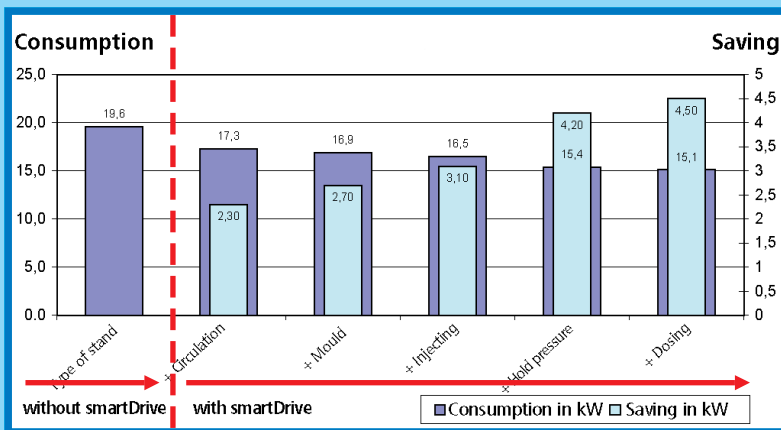
Operation integrated into machine control:  
Dynamic adjustment at all phases of the injection moulding cycle means that the speed-regulated **smartDrive** pump drive can achieve optimum effectiveness levels with minimum losses.



**smartDrive** control:  
In line with the respective process phase, **smartDrive** automatically matches the motor speed to the requirements of the cycle and maintains just the minimal performance required for each sequence.

## smartDrive – Savings for each process phase

Savings potential of up to 40 %



One example from practice on an ET 650 (55 kW drive) with a cycle time of 50 seconds and an energy saving potential for the pump drive motor of 4.5 kW (= 22 %).

## Future-oriented solution - Saving energy and also protecting the environment

Not just rising electricity costs, but also strict ecological constraints have led us to offer our customers a future-oriented „**smartDrive**“ for saving energy.

We have actively reacted to your demands with the enormous savings potential and the modular design. Purchasing brings a two-fold reward, as the „**smartDrive**“ can also be adapted to other machines in your machine park as well, if required. The short amortization period also means that retrofitting older Demag injection moulding machines is also a lucrative option. There are also Government-funded support programmes available.

## Contact

For after sales requests please visit our website and contact the local partner in your country.  
[www.sumitomo-shi-demag.eu/contact](http://www.sumitomo-shi-demag.eu/contact)