

# "Drive-on-Demand"

Energy efficiency with minimal CO<sub>2</sub> footprint

## The comfort of an environmentally friendly drive

For the first time, the entire servo-hydraulic machine portfolio of an injection molding machine manufacturer is now available with the innovative combination of a fast-response, speed-controlled, air-cooled servo motor and a powerful fixed-displacement pump as standard. An additional water cooling system is used for high-speed drive shafts where necessary. The drive unit is only activated for as long as required for movements and pressure generation. The servo drive is switched off during cooling times or cycle breaks for molded parts handling thus consuming no energy. In contrast to this, older hydraulic systems use servo-controlled 2-circuit pump technology or electro-hydraulic drive systems, which are not comparable with the revolutionary "Drive-on-Demand" hydraulic system.



One drive – maximum benefit for an economic future

## Maximum productivity

- » In operation, "Drive-on-Demand" is the basis for highly dynamic, controlled machine movements and short cycle times.
- » More dynamism – precise conformity of actual values with target values – better reproducibility and time savings in axial movements

## Sustainable production with digital drive

- » "Drive-on-Demand" – proven reduction in energy consumption  
"Drive-on-Demand" cuts the energy consumption by up to 35% compared to modern constant delivery pump systems
- » KERS Technologie\* – deceleration energy recovery directly within the machine
- » Lower heat generation – less cooling output and less thermal load on the hydraulic oil
- » Additional energy cost cuts through reduction of reactive current
- » Intelligent, performance-optimized electronic control system

\* available for the EcoPower, EcoPower Xpress und SmartPower series

## Maintenance-friendly production machine

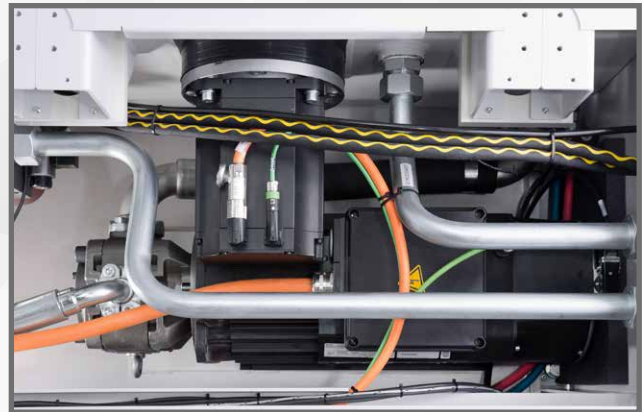
- » Lower servicing expenses, as the quality of the oil remains intact for longer thanks to reduced thermal load
- » Easy upgrade with a second servo drive package for parallel movements

## Healthy working environment

- » Sound-insulated drive combination – reduced noise emission <70dB(A), for example, the acoustic energy generation of 10 WITTMANN BATTENFELD machines remains below the lower industry standard exposure limit



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