



**Tailormade**

for plastic  
processing

Electronic **protection** under the  
**toughest conditions** increasing  
**lifetime** of your machine



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ENGINEERING  
TOMORROW

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# Electronic protection under the toughest conditions

The new MBS 1600 from Danfoss Industrial Automation is engineered to protect plastic processing equipment from strong load surges and potentially harmful side effects of using VFD in the machinery.



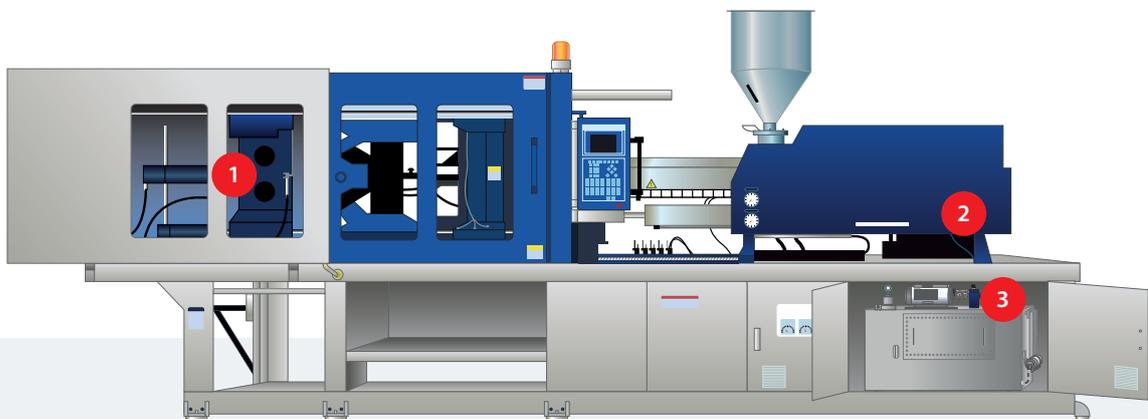
Plastic injection lines today need to meet a number of apparently conflicting demands: Faster production times, higher demands for precision and accurate temperature control of the injected material. The new MBS1600 provides full immunity to electrical interference created by VFD (Variable Frequency Drive) and other direct-coupled electrical fast transients in your application.

- **Your application – Our products**  
Components from Danfoss Industrial Automation help plastic machinery producers avoid hydraulic system

failures caused by pressure peaks, liquid hammer, cavitation, vibration and mechanical impact. We design the components to maximum performance where they matter most.

- **Custom solutions driven by application experience**  
Close cooperation with our customers has helped us build a unique expertise and product portfolio that enhance performance and deliver best in-class quality and product life cycle costs for almost any industrial hydraulic application.

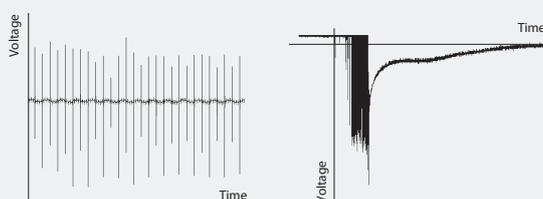
- **Certified quality**  
All components are CE marked and certified according to specific national, regional and international standards. Our production procedures are certified according to IATF 16949.
- **Built to last**  
Our sensors, switches and valves are produced from the most durable materials and designed to withstand shock, vibration and fluctuations in pressure and temperature during daily operation.



## 1 Clamping force    2 Injection pressure

Direct Coupled Electrical Fast Transients

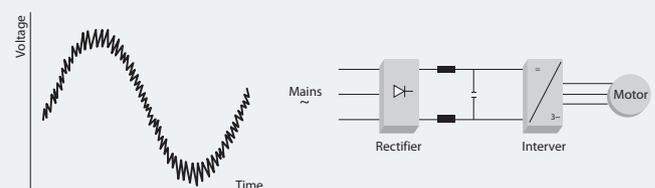
- Relays and Motor Control
- Solenoids
- Electrical Hydraulic Valves



## 3 Servo pump

Variable Frequency Drives (VFD)

<600Hz output frequency modulation of the output voltage of the frequency converter typically 2-10KHz



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