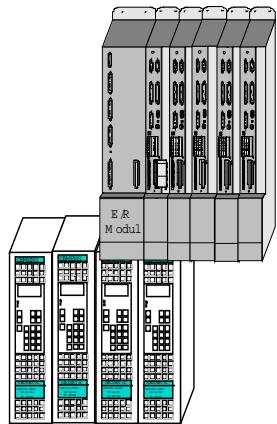


Mechanical universal presses

Components

SIMOVERT MASTERDRIVES
SIMODRIVE



Main drive 1LA, 1GG, 1PA
Stroke length adjustment

Punch adjustment
1FT6, 1FK6

1FT6, 1FK6

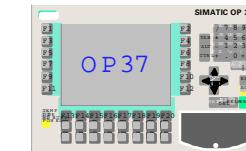
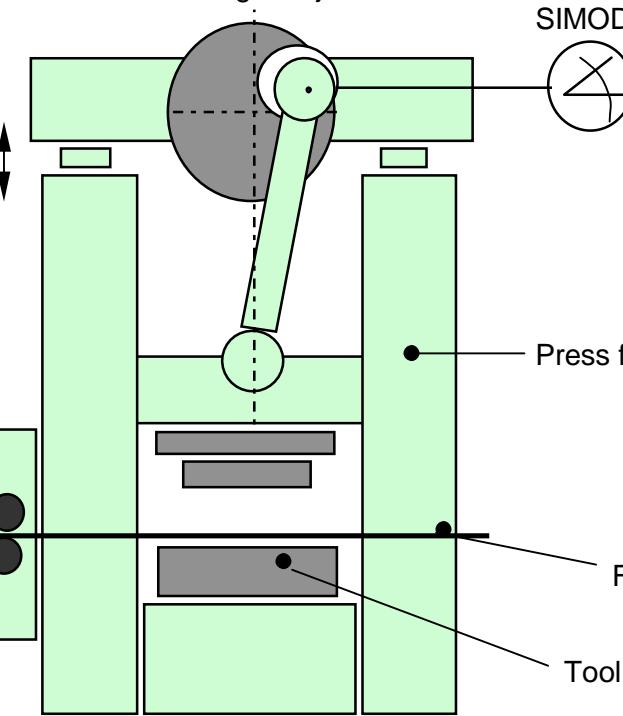


1FT6, 1FK6

Roller feed

Conveyor height

1FT6, 1FK6, 1LA

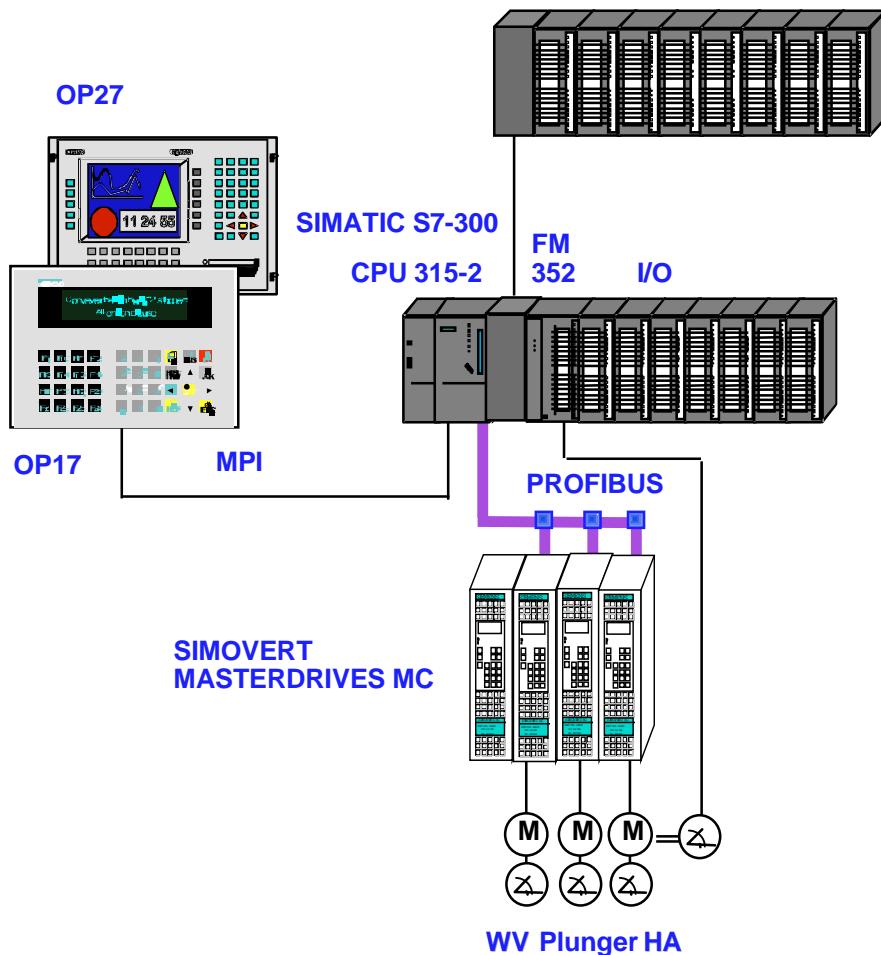


SIMATIC S7 / M7-300



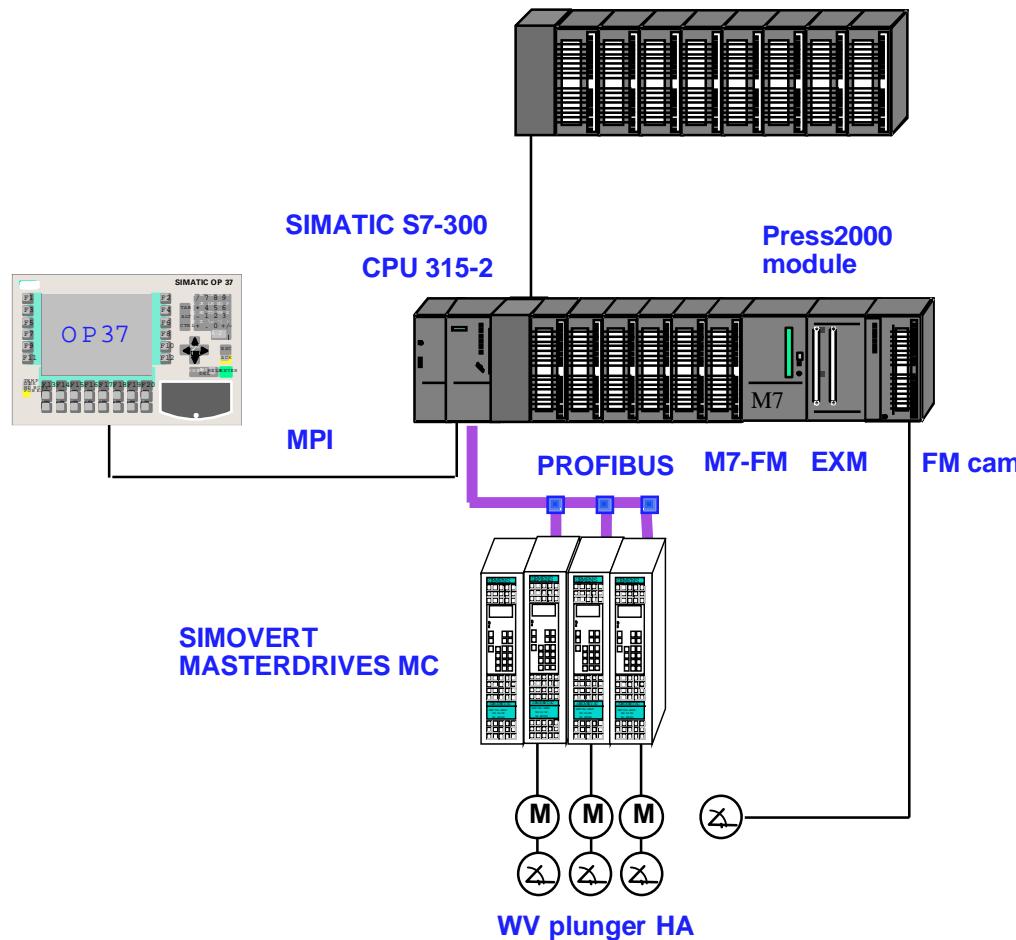
Press2000 S

Standard solution with CPU 315-2 and SIMOVERT MASTERDRIVES MC



- ❑ Press2000-SW in SIMATIC S7
 - Main drive control in S7
 - Control via PROFIBUS
 - Deceleration angle calculation
 - OT cutoff via FM 352
 - Stroke adjustment via deceleration angle specification
 - Simple tool position safety
 - Simple press force monitoring
- ❑ Cam control module FM 352
 - 32 cam tracks
 - of which 12 are high-speed cam outputs
- ❑ SIMOVERT MASTERDRIVES MC
 - Positioning functionality in the converter
 - Roller feed functions in the converter
 - Control signals/programs via PROFIBUS
- ❑ Servomotors 1FT6/1FK6
 - 1-encoder system for incremental/absolute encoders
- ❑ Main motors 1PH7
9.5 kW to 160 kW

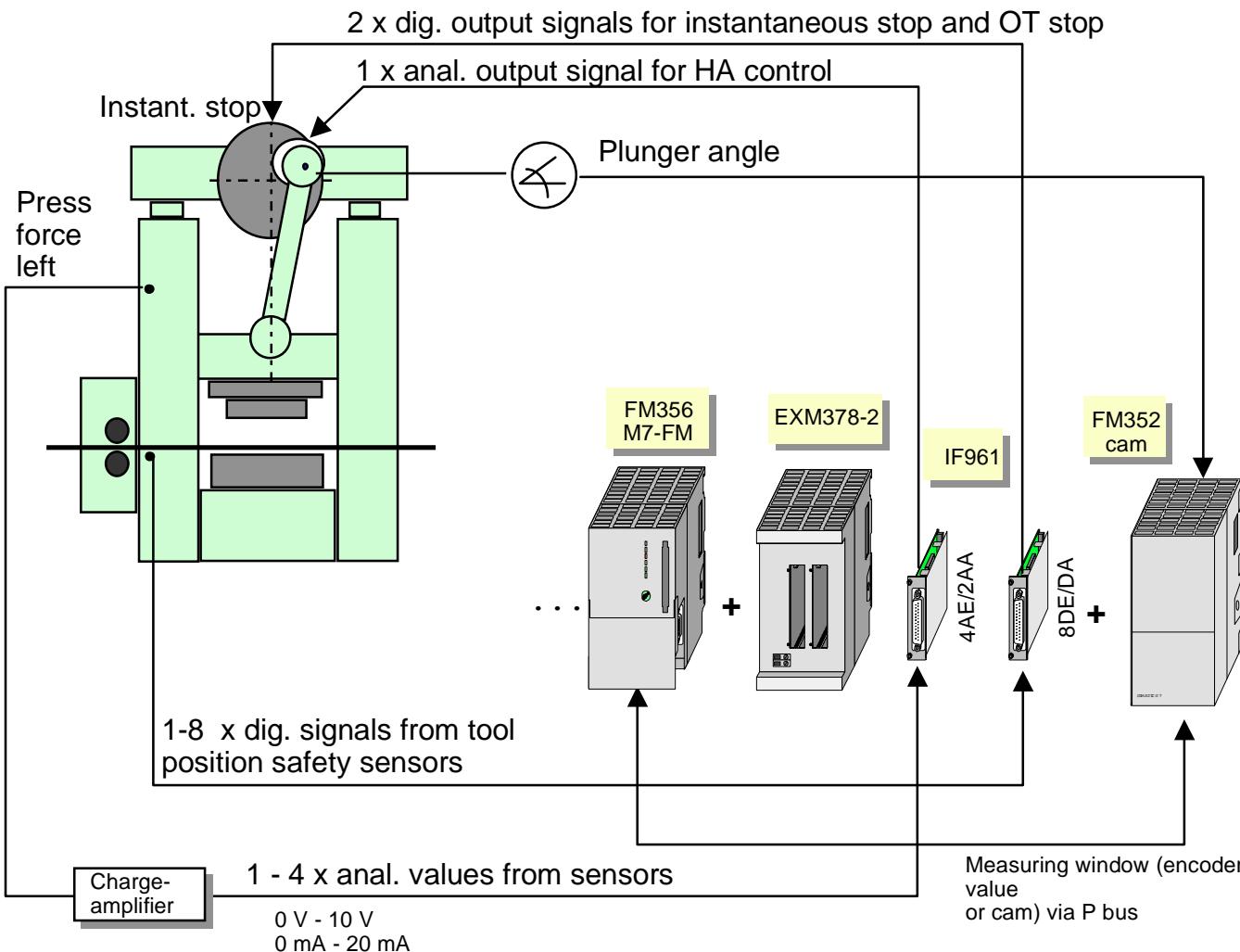
Press2000 High-performance solution with Press2000 module and SIMOVERT MASTERDRIVES MC



- Press2000 software on SIMATIC M7
- Main drive control
 - Analog control
 - Deceleration angle calculation and specification for OT cutoff via FM 352
 - Stroke adjustment via deceleration angle specification
- Tool position safety
- Press force monitoring
- Cam control module FM 352
 - 32 cam tracks
 - of which 12 are high-speed cam outputs
- SIMOVERT MASTERDRIVES MC
 - Positioning functionality in the converter
 - Roller feed functions in the converter
 - Control signals/programs via PROFIBUS
- Servomotors 1FT6/1FK6
 - 1-encoder system for inkremental/absolute encoders
- Main motors 1PH7
9.5 kW to 160 kW

Press2000

Press functions with the Press2000 module



Main drive control:

- Speed control
- OT stop
- Closed-loop/open-loop positioning

Cam controller:

- 32 cam tracks for 128 cams

Tool position safety:

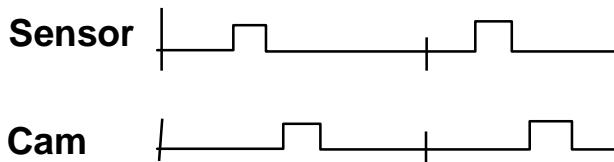
- 8-channel
- Response time approx. 2 ms to 3 ms

Press force monitoring:

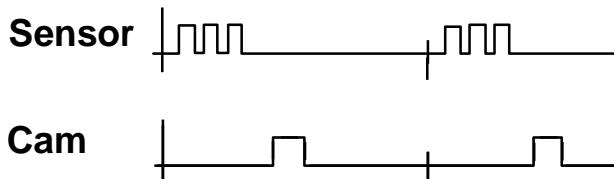
- 4-channel
- Min., max., cumulative, differential
- Envelope curve control

Press2000 technology functions: Tool position safety / monitors (1)

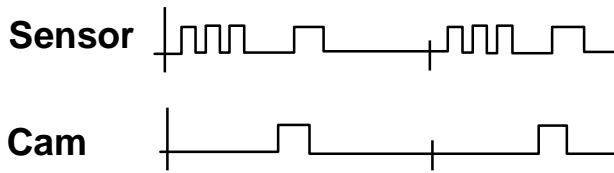
- Static monitoring**
- Dynamic monitoring (cam sensor)**



- Dynamic monitoring with counting function**

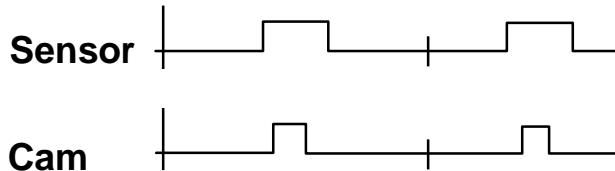


- Dynamic monitoring with counting function and position control**

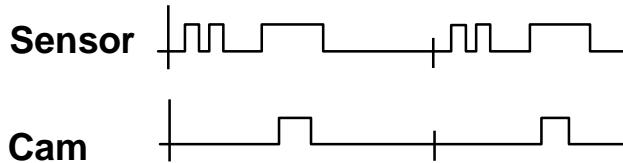


Press2000 technology functions: Tool position safety / monitors (2)

Position control sensor over cam



Counting with position control sensor over cam



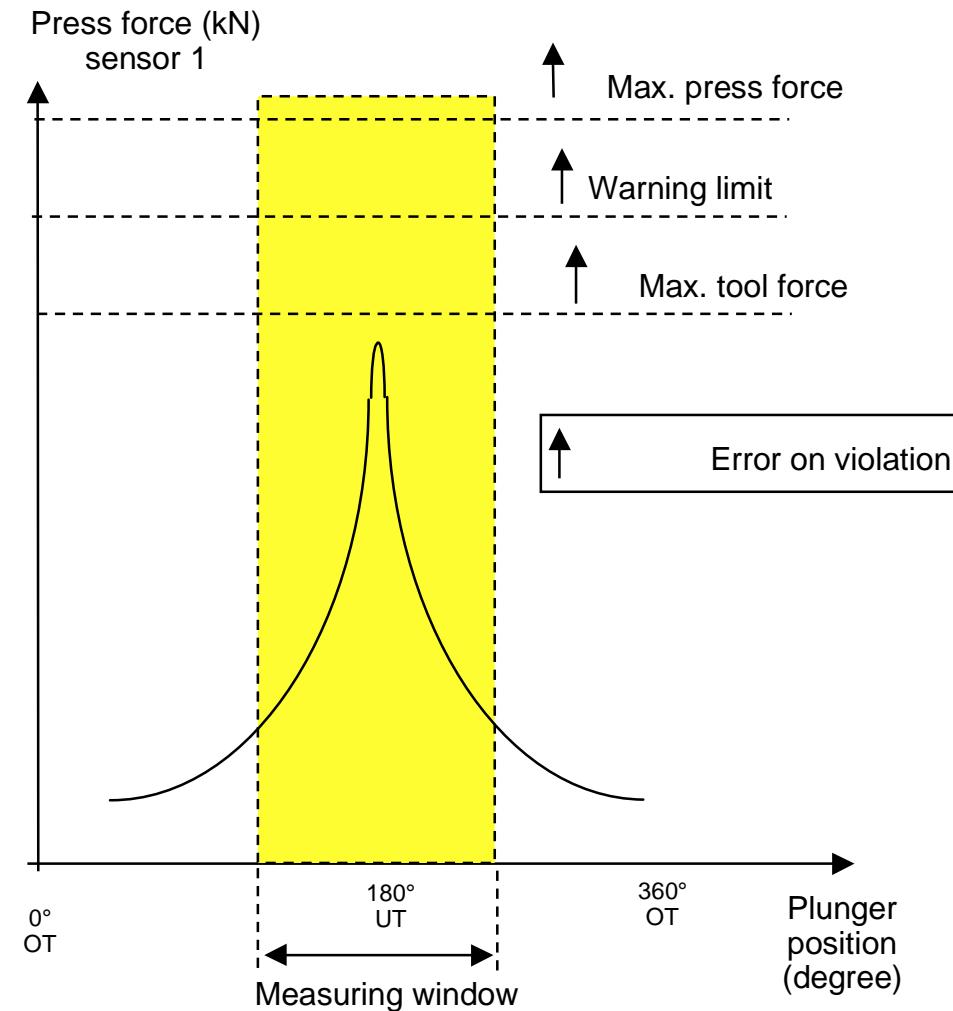
Press2000 technology functions:

Press force monitoring

- Monitoring of up to 4 channels**
- Machine- / tool protection via limit-value checks**
- Minimum, maximum and warning limit**
- Cumulative- and differential force monitoring**
- Storing of machine overloads**
- Recording and displaying of press force characteristic ***
- Envelope curve control***

* Prerequisite: Press2000 module, OP25/OP37 graphic display unit

Limit-value checks



Envelope curve control

