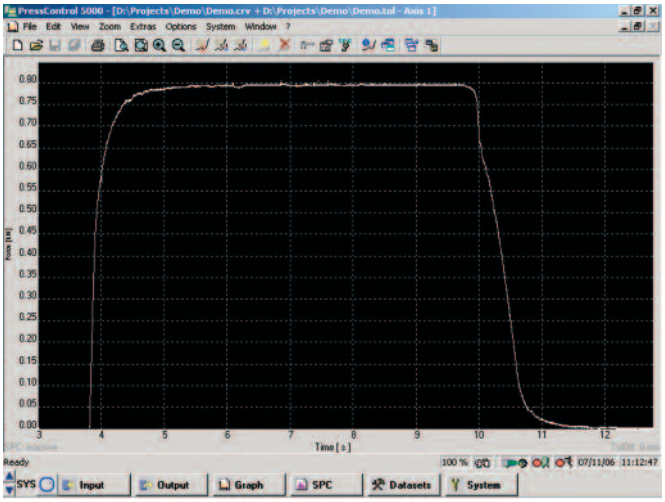
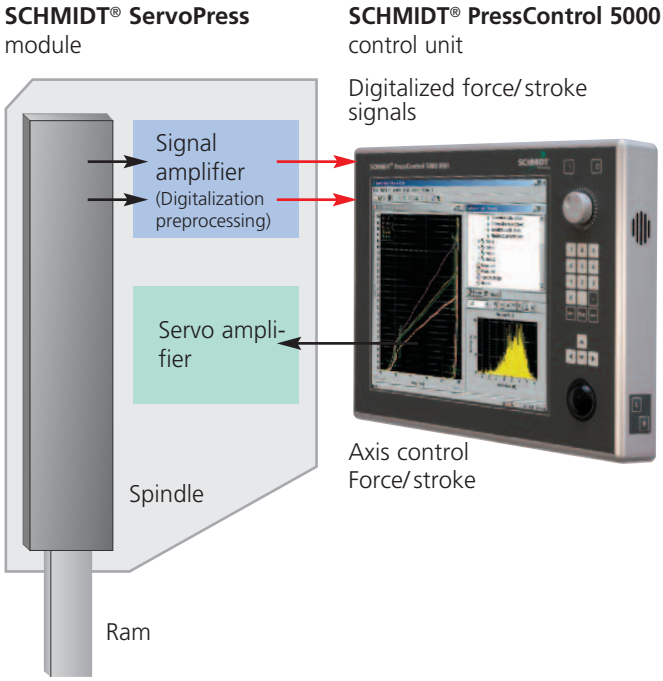
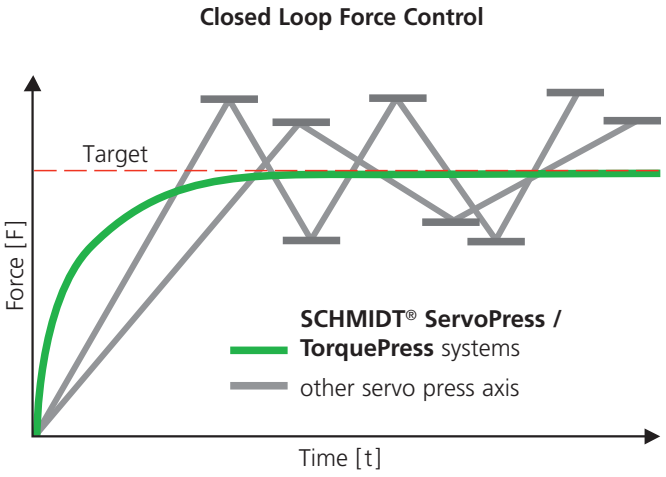
SCHMIDT® ServoPress / TorquePress
Superior controlled behavior

The combination of a spindle with a servo drive is not sufficient to achieve optimum joining results. The key for intelligent assembly is quick and exact controlled behavior of the press. This requires an integrated system consisting of drive unit, process measurement technology and control unit. These requirements have been taken into account in the system architecture of a **SCHMIDT® ServoPress / TorquePress**.







SCHMIDT® ServoPress / TorquePress work with real force controllers, unlike the simple switching controllers used by other manufacturers.
That means:
- Quickly reaching the nominal values
- No overtraveling of the target values
- Precise positioning in the 1/100 mm range, even with dynamically changing force outputs
- High precision force control

• The control parameters can be adjusted.
- Optimum adaptation to your application
- No PLC programming necessary
- The system works with predefined optimum acceleration values (no incorrect entries possible)

• Optimization of the processing times is possible due to an additional graphical display force/time **[F/t]**, stroke/time **[s/t]** for an analysis of the behavior of the process. The classic force/stroke **[F/s]** display of conventional electronic axis cannot be compared to the reliable recording and visualization possibilities of the **SCHMIDT® ServoPress / TorquePress**.

These characteristics are achieved exclusively by combining the following features:

• Integrated measurement technology [scanning rate 2000 Hz]
- Free-of-play distance measurement, force measurement without lateral forces

• Amplification of the process signals on the **SCHMIDT® ServoPress / TorquePress** module
- Insensitive against electromagnetic interferences (EMC)

• The system is completed by using **SCHMIDT® PressControl 5000** (PC-based system), i. e. servo amplifier and motor receive nominal values from the control unit
- Optimized PLC control algorithm
- Force [F], stroke [s] or other external control inputs are simultaneously processed
- The control input can be freely selected

• Quick signal processing on software-based PLC with integrated CNC

• CNC with extended command set, in particular for controlling force-regulated positioning tasks