



**PRODUCT DEVELOPMENT \*1**

- Drop tests
- Bending tests
- Key tests
- USB port tests

**DEVELOPMENT OF PRODUCTION PROCESSES \*2**

- Injection molding processes
- Joining processes
- Fastening processes
- Machining processes

**TESTING AND ANALYSIS OF JOINTS \*3**

Screws, fasteners

**TACTILE TESTS \*4**

Control elements like keys or displays

**PRODUCTION, ASSEMBLY AND TESTING PROCESSES \*5**

- Circuit board (pcb)
- Camera
- Display
- Battery
- Keys and switches

**MACHINING \*6**

- Milling
- Drilling
- Turning
- Grinding
- Cutting
- Stamping

- Plug connections
- Housing
- Keys

**INJECTION MOLDING \*7**

- Housing
- Antennas
- Protective covers
- Keys

\*1 Testing the resilience of components and products to external influences  
 \*2 Measurement and evaluation of critical variables such as force, pressure, torque and acceleration  
 \*3 Torque measurement  
 \*4 Force measurement

\*5 Force, acceleration, torque displacement sensors, vision inspection, evaluation units and process monitoring  
 Electromechanical joining systems with force-displacement monitoring  
 Smart Single Station: modular installation and test stand  
 \*6 Cutting force measurement with dynamometers  
 Tool monitoring and control for machining processes  
 \*7 Pressure sensors and process monitoring systems for injection molding processes  
 Data management software