

■ Overview

The latest generation of the measuring finger for dynamic haptic testing (F₁₂₁) is the result of years of experience combined with continuous optimization processes. The dynamic impedance of the measuring finger is reproducible to more than 99%. The influence of uncontrollable variables, such as damping, approaches zero. Due to the adjustable preload of the test probe, highly dynamic systems can be positioned in a cycle-time-efficient way without any delay caused by the oscillation of the spring. The test probe can also be customized for special surface geometries.

■ Dynamic characteristic

| Parameter | Unit | Nominal | Tolerance |
|------------------|------|-------------------|-----------|
| Effective mass | g | 6.60 ¹ | ± 0.05 |
| Spring constant | N/mm | 1.83 ¹ | ± 0.01 |
| Damping constant | Nm/s | see note 2 | |

■ Technical data

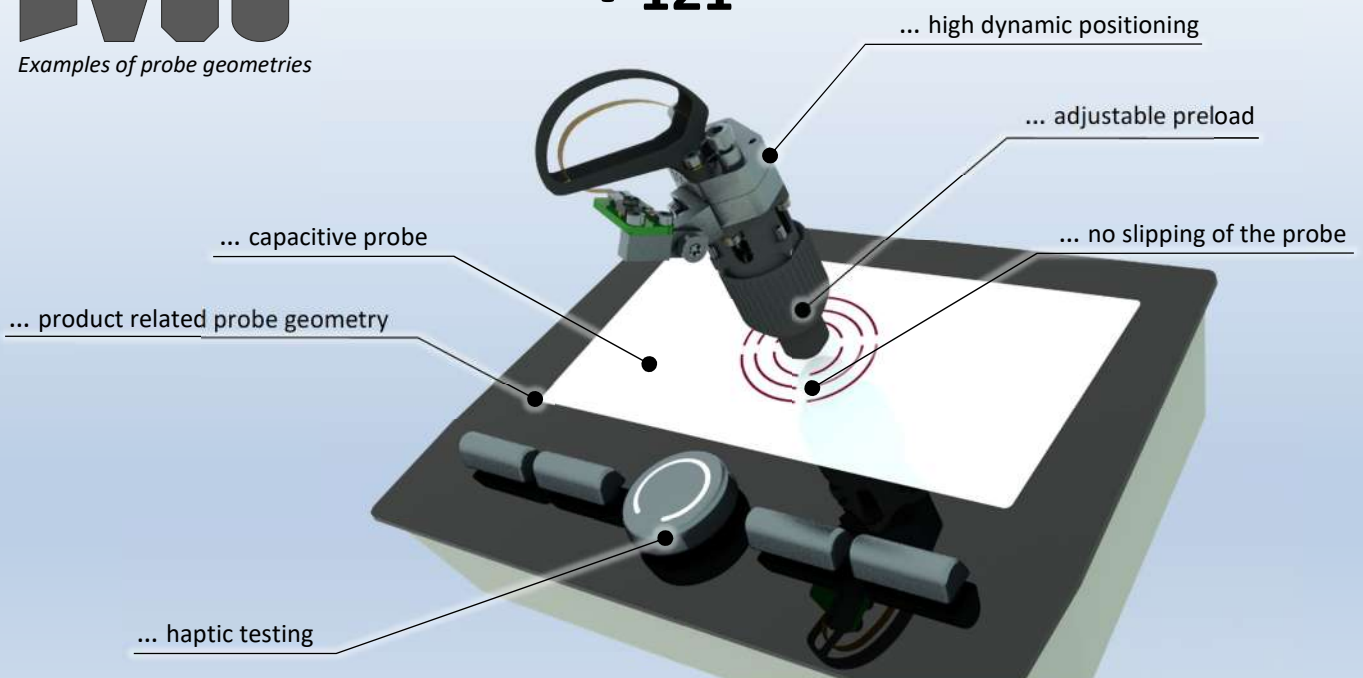
| | |
|------------------------------|------------------------------------|
| Measurement range | ± 50 g ¹ / 0.1 N – 15 N |
| Sensing element | Piezo-Ceramic |
| Frequency response (-1 dB) | 1 – 8000 Hz |
| Mech. dimensions (w x h x d) | 29 x 85 x 45 mm |

■ Typical application



Examples of probe geometries

F₁₂₁



¹ Custom values available, please contact PANOVO tec.

² Damping elements have no reproducible influence on the measurement. PANOVO tec has managed to almost completely eliminate damping and thus improve stability and comparability.