Dia-Stron offers a wide range of instruments for personal care product testing applications. 25 years of experience helping our customers to deliver better products to consumers.

MTT175 Instrument
- Generic tensile tester for personal care applications
- Cost effective instrument to evaluate performance of hair & skin care products
- Several testing accessories can be easily fitted to the MTT175
- All In One solution for product testing

MTT175 Hair Friction accessory
- Measures hair friction
- Bi-directional coefficients of friction on hair tresses
- In the dry or wet state
- Used for “smoothness”, “damage repair” claims
- For screening surface active ingredients or formulations

MTT175 Combing accessory
- Measures hair combing
- Combing/detangling properties on hair tresses
- In dry or wet state
- Used for “ease of combing” or “detangling” claims
- Complementary to friction measurements

MTT175 Hair Curl Compression accessory
- Measures compressibility of hair curl
- Stiffness properties of hair curls treated with styling or wash & care products
- Claims such as “Softness” or “Retention” can be made

MTT175 3-point bending accessory
- Measures flexural properties of hair tresses
- Flexion properties of hair tresses and other materials
- Ideally suited to evaluate styling polymers and styling products
- Used for “hold”, “flexibility”, “stiffness” or “humidity resistant” claims

MTT175 Tress Volume accessory
- Measures the volume/body properties of hair tresses
- Designed to evaluate body and volume properties of hair tresses treated with shampoos, conditioners, and styling products
- Used for “Volumising”, “Body”, “Volume control” claims

MTT175 Substrate Friction accessory
- Measures tribological properties of flat samples
- Directional coefficient of friction on flat substrates such as artificial skin (Vitro-Skin®)
- In the dry or wet state
- Friction data are indicators of “skin smoothness”

MTT175 Tack/Adhesive accessory
- Measures product tack and adhesion properties
- Tack/adhesion profile of personal care products
- Extensional rheology: stringiness and string break
- Ideally suited for styling products to assess wet to tacky to dry phase transitions
the contribution of the shows bigger differences automated loading and can support “strength”, designed to measure precise fibre flexibility at specific in the dry or wet state based on laser scanning used for “breakage tensile cycles until break ideal to assess cuticle integrity and cuticle damage due to chemical & physical treatments assessment of hair damage hair movement driven by automated rotation and assessment of softness, cuticle state, film formers evaluation of the impact of mascara on eyelashes increased measurement productivity and quality