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CTX™ Texture Analyzer

Advanced Texture Profiling for Method Development and Material Insight

When you reformulate, scale up, or compare materials, you need more than pass/fail results. The CTX Texture Analyzer – built for compression and tension testing – provides high-resolution texture data, flexible test design, and a broad accessory ecosystem so you can connect structure, process, and performance. CTX helps R&D, formulation, engineering, and advanced QC teams compare materials, quantify texture drivers, and document methods that scale from bench to production.

Why CTX

- **Compression and tension testing** support product consistency, formulation comparison, and material evaluation.
- **Interchangeable load cells from 100 g to 100 kg** provide flexibility across sensitive, mid-range, and high-force applications.
- **Deflection compensation** helps maintain distance accuracy across the full load range.
- **500 Hz data output rate** captures rapid transitions and subtle texture changes, including fracture, crispness, tack release, yield, or other fast events that can be missed at lower rates.
- **Optional Texture Pro Software** supports custom method creation, deeper analysis, data comparison, regulated workflows, and 'Advanced' version aligns to 21 CFR Part 11 needs.

- **21 CFR Part 11 Compliant Software**
- **Advanced Parameter Analysis & Insight**

What do I need to get started?

- Load cell
- Base table, if required – rotary, fixture, or adjustable
- At least one probe or test fixture matched to your sample

CTX Model Specifications

Speed Range	0.01-0.1 mm/s in increments of 0.01 mm/s; 0.1-40 mm/s in increments of 0.1 mm/s*
Speed Accuracy	±0.1% of set speed
Travel Capacity	0-280 mm
Position Resolution	0.1 mm
Position Accuracy	0.001 mm
Data Output rate	500Hz
Load Cell Accuracy	±0.2% Full Scale Range under most conditions
Dimensions (W x D X H)	10.5 x 16 x 25 in (26.7 x 40.6 x 63.5 cm)
Weight	50 lb (22.7 kg)

**Maximum test speed for 100 kg = 100 mm/s and 50 kg = 20 mm/s*

Interchangeable Load Cells

Load Cell	Range (g)	Resolution (g)
CTX001	0 - 100	0.01
CTX010	0 - 1,000	0.1
CTX015	0 - 1,500	0.1
CTX050	0 - 5,000	0.1
CTX100	1 - 10,000	0.1
CTX250	2 - 25,000	1.0
CTX500	5 - 50,000	1.0
CTX01K	10 - 100,000	1.0

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Repeatable Reliable Accurate

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What You Can Do with CTX

Method Development & Characterization

- Design custom test sequences to match real product use, including compression, tension, peel, bend, extrusion, and tack testing.

Correlation & Comparisons

- Compare test runs for repeatability, differentiate samples, and build richer datasets for formulation, material, and process decisions.

Advanced QC & Transfer to Production

- Use the same method framework to tighten tolerances and improve consistency when products move from development to production.

Which Texture Analyzer is right for you?

Choose CT3 if you need:

- Routine QC or production testing
- Fast pass/fail or batch-to-batch checks
- Simple setup with stand-alone operation
- No software

Choose CTX if you need:

- R&D, formulation, or method development
- Custom or complex test profiles
- Deeper insight from high-resolution data with software

Features

Method Development

- Create application-specific test methods for compression, tension, extrusion, peel, bend, tack, and other texture evaluations.
- Configure test parameters to simulate real-world product use, processing conditions, and manufacturing environments.
- Compare multiple test runs to evaluate repeatability, support formulation decisions, and improve product consistency.

Flexible and Easy to Use

- Extended 280 mm beam travel accommodates larger samples, specialized fixtures, and long-distance testing requirements.
- Standard, High Response, and Dampened filtering options help optimize signal performance for different materials and applications.
- Quick setup, intuitive operation, and touchscreen interface help users get up and running rapidly in both QC and R&D environments.

Stand-Alone or Software Driven

- Graphical stand-alone operation enables testing and integrated data review without a connected PC.
- Optional TexturePro Software provides advanced method management, analysis, and reporting, and TexturePro Advanced supports workflows aligned with 21 CFR Part 11 requirements.

Accessories Ecosystem

- Base tables – rotary, fixture, and adjustable
- Texture Pro Software – standard and advanced versions (aligned to 21 CFR Part 11 compliance)
- Bubble level
- Calibration weight set
- Bloom jar – industry approved
- Dual Extrusion Cell for forward/back extrusion of purees, pudding, yogurt, and similar products
- Back Extrusion Cell for applesauce, pudding, yogurt, and similar products
- 90° / 180° peel fixtures for adhesive and seal evaluation
- Loop Tack Test for pressure-sensitive adhesives (ASTM D6195)
- Sliding Friction Jig for coefficient of friction testing (ASTM D1894)
- Three-Point Bend Fixture for flex and fracture behavior
- Wide variety of probes and fixtures for food, pharmaceutical, cosmetic, packaging, adhesive, rubber, and mechanical device testing

CTX links physical measurements to real-world product behavior through application-specific test methods.

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