SHEAR FIXTURES

Kramer Shear Cell for Food

Multi-blade shear-compression cell for firmness of foods



OVERVIEW

A Kramer shear cell for measuring the firmness of fruits, vegetables, meats and other foods. The sample is placed in the cell and a set of parallel blades is driven through it and out through matching slots in the base, combining compression, shear and extrusion. The complete fixture includes a guide system, fluid container and lower compression platen.

KEY FEATURES

- Standard 70 × 70 mm cell with 10 blades
- Blades 3 mm thick with 3 mm spacing
- Guide system keeps blades aligned in the cell
- Fluid container collects juice and liquids
- Stainless steel, aluminum and acrylic construction
- Full stainless version from -80 to +180 °C

TECHNICAL SPECIFICATIONS

Test type	Shear-compression (Kramer)
Max. load	20 kN
Cell size	70 × 70 mm
Blades	10x, 3 mm thick, 3 mm spacing
Coupling	Female clevis, Ø 15.9 mm (5/8 in) pin or M8 internal thread; others on request
Material	Stainless steel, aluminum, acrylic (Plexiglas)
Temperature range	-30 … +70 °C (full stainless version -80 … +180 °C)
Weight	9.6 kg complete
Scope of delivery	Cell, guide system, fluid container, lower platen Ø 156 mm

AVAILABLE VERSIONS

Standard cell	70 × 70 mm, 10 blades 3 mm, 3 mm spacing
Large cell (custom)	120 × 120 mm, 9 blades 5 mm, 7 mm spacing
Full stainless version	-80 … +180 °C

APPLICATIONS

- Fruits and vegetables
- Meat and poultry
- Processed foods
- Food texture research

Ordering & customization: Specify cell size and blade configuration, temperature range and the machine coupling.

Dimensional drawings
See page 2. Certified drawings and 3D models available on request.

Specifications are typical and may vary by configuration; confirm at time of quote. Custom versions, couplings and adapters available on request. Part ref. UGC-SF-260

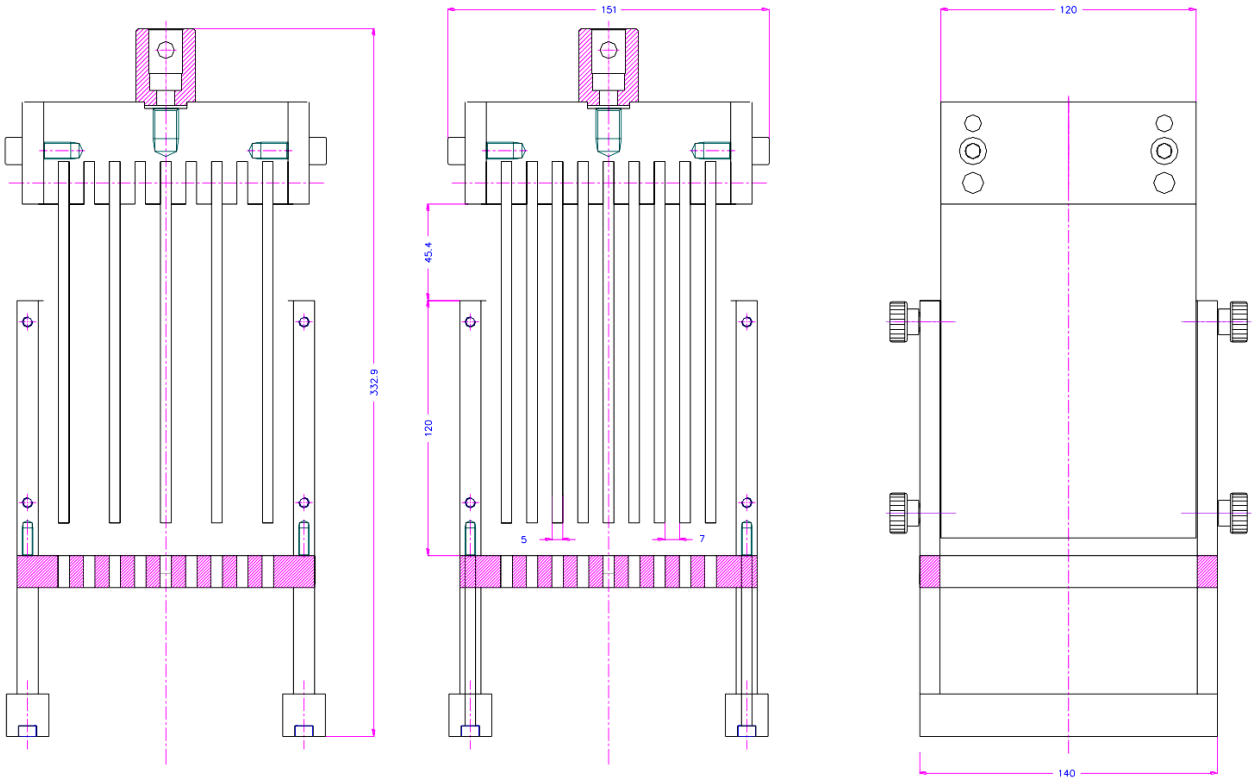
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DIMENSIONAL DRAWINGS

FIG. 1

Max. load:	20 kN
Coupling:	
Cell size:	120x120 mm
Blades:	9x 5 mm thick. Distance between blades: 7 mm
Material:	Stainless steel, aluminium, Plexiglas
Temperature range:	-30 … +70°C (full stainless steel version: -80 … +180°C)
Scope of supply:	1 fixture





Dimensions in mm. Drawings are representative of the product family and may show optional versions or accessories; dimensions are for reference only and may change without notice. Certified dimensional drawings and 3D models are available on request.