

Sample Preparation

Sample Cutters & Uncured Sample Prep System

The sample prep systems all prepare a piece of rubber in order to fit properly into the Alpha Technologies' testing instruments.

Pneumatic Sample Cutter Features

- Dual-action pneumatically operated sample press
- Compact size
- Produces ideal samples for MDR, RPA and MV instruments
- Improves repeatability of rheometers and viscometers
- Creates constant volume rubber sample in seconds

Pneumatic Sample Cutter Options

- MDR and RPA samples
 - Cuts solid, circular samples
 - Cuts samples that fit perfectly in the sample automation slots of the HC and 3D
- MV samples
 - Cuts a small hole in the center of the samples

Uncured Sample Prep System

The system consists of two separate units: the conditioner and the cutter. This ASTM D7723 compliant system produces perfect samples for testing with Alpha's DisperGrader.

Uncured Sample Prep System Features

- Cuts repeatable uncured samples for the DisperGrader
- Two step operation
 - Conditioner cools and compresses uncured sample
 - Cutter applies 10% tension bidirectionally before and during cut
- Tabletop design
- Reduces porosity in uncured rubber samples

Manual Sample Cutter

This is a manual lever-operated cutter with multiple die variations. This sample cutter cuts to size and not volume. Custom dies are available upon request.

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Pneumatic Sample Cutter Specifications

Electrical:	100-240 VAC 50/60 Hz, 10 watt maximum	Air Pressure:	83-115 psi (5.6 to 8.0 kg/cm ²)
Weight:	37 kg (81 lbs.)	Cutter	Width: 38 cm (15 in)
		Dimensions:	Height: 58 cm (23 in) Depth: 37 cm (14.5 in)

Uncured Sample Prep System Specifications

Electrical:	80-250 VAC ± 10%, 47-63 Hz, 2 amp	Air Pressure:	83-115 psi (5.6 to 8.0 kg/cm ²)
Case Size:	70 x 48 x 70 cm	Cutter Weight:	21 kg (46 lbs.)
		Conditioner Weight:	15 kg (34 lbs.)
Cutter	Width: 46 cm (18 in)	Conditioner	Width: 46 cm (18 in)
Dimensions:	Height: 29 cm (11.5 in) Depth: 40 cm (15.5 in)	Dimensions:	Height: 34 cm (13.5 in) Depth: 40 cm (15.5 in)

Manual Sample Cutter Specifications

Force Output:	600 kg (1323 lbs.)	Weight:	35 kg (77 lbs.)
Dimensions:	Width: 18 cm (7 in) Height: 77.5 cm (30.5 in) Depth: 37.5 cm (15 in)		