

# CONSTANT VOLUME SAMPLE CUTTER

VOLUMETRIC DIE CUTTER FOR THE PREPARATION OF SAMPLES FOR MD  
RHEOMETER, OD RHEOMETER AND MOONEY VISCOMETER



## Standards the instrument complies with:

ASTM D1646; ASTM D2084; ASTM D5289; ISO 289-1; ISO 289-2; ISO 289-4; ISO 6502-1;  
ISO 6502-2; ISO 6502-3;

### Overview

Pneumatic cutter for the preparation of **constant-volume samples for MD Rheometer, OD Rheometer and Mooney Viscometer** from polymer or green rubber compounds.

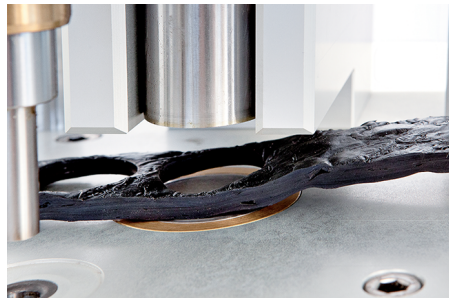
The solid construction of the machine and the double-piston system permit to obtain constant volume samples even with hard and high viscosity compounds.

By using samples with constant volume for your rheology tests you will increase test repeatability ensuring correct filling of test chamber.



### Key Features

- **Exclusive adjustment system, which permits to set the machine to obtain samples for:**
  - Moving Die Rheometer
  - Oscillating Disk Rheometer
  - Mooney Viscometer
- **Puncher for obtaining the central hole in the lower sample for the Mooney viscosity test**
- **Pneumatically-activated safety panel**
- **CE Labelling**



### Select the Type of Sample

The selector, located on the back of the instrument, allows you to select the type of specimen to be produced.



## Puncher for Hole for Mooney Sample

A puncher, incorporated in the instrument, permits the central hole to be made in the lower sample for the Mooney viscosity test.

The pneumatically-activated safety panel ensures the conformity of the instrument with CE safety requirements.



## Safety devices

The instrument is equipped with:

- Pneumatic activation of the safety protection screen
- Safety switch, which prevents the activation of the piston if the Safety Protection Screen is not closed.
- CE Labelling



## Development and production

The instrument is totally developed and produced in the plant of Gibitre Instruments in Italy.

All the mechanical parts are produced in the company workshop using modern CNC machines.

Components and sensors from well-known brands are selected in order to ensure the maximum reliability in the measures

Internal trained personnel takes care of all the production stages: **assembly, start-up, calibration, packing, shipment and installation.**



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**Instrument Characteristics**

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**Samples obtainable**            Moving Die Rheometer (MD): 5.1 cm<sup>3</sup>  
   Oscillating Disk Rheometer (OD): 8.1 cm<sup>3</sup>  
   Mooney Viscometer: 11.5 cm<sup>3</sup>

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**Selection of the type of sample** The Selector in the back part of the instrument permits to select the type of sample to produce

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**Force produced**                    1200 Kg (at six bar air pressure)

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**Safety Devices**

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**Safety devices**                    Transparent protection door with safety switch

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**Labelling**                            CE Labelling

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**Technical specifications**

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**Compressed air line pressure** 6 bar (min.)

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**Compressed air consumption** Approx. 14 NL/cycle

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**Instrument overall dimensions** (Depth x Width x Height) 400 x 400 x 1000 mm

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**Instrument weight**                80 Kg

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**GIBITRE INSTRUMENTS**

VIA DELL'INDUSTRIA, 18

BERGAMO (ITALY)

TE. +39 035 461146

[WWW.GIBITRE.IT](http://WWW.GIBITRE.IT)

[INFO@GIBITRE.IT](mailto:INFO@GIBITRE.IT)

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