

TECHMIX 6 Lab Mixer

New from RSI, the TECHMIX 6 is an internal batch mixer used for a wide range of testing applications; particularly thermoplastics, elastomers, ceramics and pastes. Designed for use with the rs5000 series Drives and Torque Rheometers as well as most competitors units, the TECHMIX 6 has three individual heating zones with an improved cartridge heater pattern that eliminates temperature variations on the bottom of the bowl.

DESIGN

- Three section mixing chamber with three independent heating zones
- Stock melt temperature probe in center section
- Quick loading ram assembly with removable loading chute
- Center section cooling
- Industry standard coupling
- Easily removable/interchangeable rotors
- Removable rear plate for easy bushing exchange
- Over-torque shear coupling
- Safety handles
- 3:2 Gear Ratio



SPECIAL FEATURES

- Improved economical way for removing and replacing bushings. This design allows the user to replace the bushings quickly and easily on their own, eliminating costly repairs and down time.
- Improved heater cartridge pattern eliminates temperature variances in the bowl chamber
- Vertical ram loading chute assembly provides a user friendly method for loading the sample material and minimizing user discrepancy.
- Easy access gearbox allows user to lubricate gears as needed without the extensive disassembly needed in some competitive designs.
- Removable rotors slide and lock into a sleeve designed for easy removability. The coupling remains in place during the cleaning process eliminating frustrating alignment issues found on some designs.

APPLICATIONS

- Thermoplastic flow behavior
- Flow and cure behavior of thermosets
- Mastication and cure behavior of elastomers
- Gelation and plasticization of PVC dry blends
- Oil absorption of carbon black
- Testing of additives such as fillers and lubricants in rubber compounds
- Fusion and degradation studies

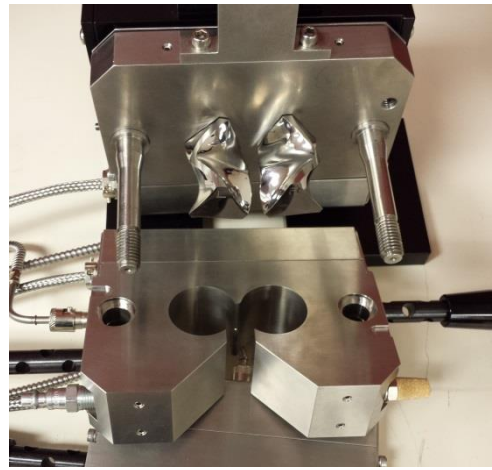


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Fusion curve

STANDARD EQUIPMENT

- 3 J-type control thermocouples
- 1 J-type stock melt thermocouple
- 1 loading chute
- 1 loading tray
- 1 5kgm weight
- 1 tube high temp lubricant
- 1 set cleaning tools
- 1 stainless steel cooling hose
- 1 extra set of shear pins



OPTIONS

- Clear front plate for viewing
- Custom bushing materials
- Rotors for different shear ranges
- Blade puller
- Special coatings

Several blade designs are available for use with the TECHMIX 6 including Roller, Banbury, Cam and Sigma style.



Blade Design	Volume	Load Charge*
Roller Blades	69cc	48cc
Banbury Blades	75cc	53cc
Cam Blades	85cc	60cc
Sigma Blades	90cc	63cc

*Suggested Charge 70% of total chamber volume at 1.0 specific gravity

TECHNICAL SPECIFICATIONS

Temperature range: Up to 425C

Temperature control: 3 zone cartridge heater

Cooling: air zone 2

Safety feature: 120 Nm shear coupling

Torque limit: 120 Nm

Chamber Volume: "without rotors" 120 ccm

Material: stainless steel

Heating Capacity: 3.9 kW overall