



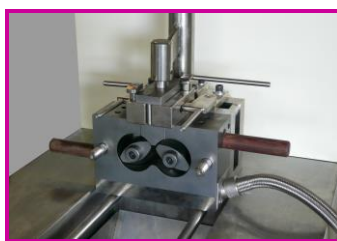
INTERNAL MIXER



CT Internal Mixer is suitable for many applications:

- Rubber and/or Plastic Blending
- Rubber and/or Plastic Compounding
- Thermoplastic Elastomer Preparation
- Food Product, i.e. Starch Modification

CT Internal Mixer is a machine for melt blending that involves the intimate mixing of polymer and chemical additives or between different kinds of polymers over a wide range of shear rates, flow patterns, and temperatures. Mixing chambers are exchangeable: Non-Intermeshing type and Intermeshing type. Rotors for CT Internal Mixer are exchangeable: Roller type, Cam type, Banbury type, CTEM type, and CTEF type. Front plate and mixing chamber can be detached by pulling side handles. Obtaining the well dispersion, polymer compounds and polymer composites are the proper products to the successful final fabrication.



ROTOR TYPES



Cam Type
For Internal Mixer



Roller Type
For Internal Mixer



Banbury Type
For Internal Mixer



CTEM Type
For Intermeshing Mixer



CTEF Type
For Intermeshing Mixer

Contact us for more information about CT products and services. We are keen on working with you:

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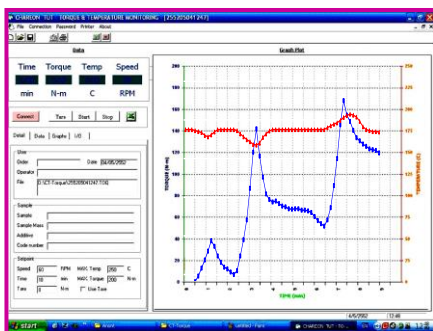
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SPECIFICATION

Chamber, rotors, and ram of CT Internal Mixer are made of hardened tool steel gaining the hardness of 50 – 53 HRC with C(CrN) surface treatment to gain surface hardness, increase wear resistance, increase corrosive resistance, increase oxidative resistance, decrease stain occurrence, and decrease friction coefficient.

MODEL	MX75	MX300	MX500
Heating	Electric Heaters Controlled by PID Digital Temperature Controller		
Air Cooling System – Cooling Channels in Mixing Chamber	Yes	Yes	Yes
Max. Operating Temperature (°C)	300	300	300
Free Volume of Mixer Chamber (mL) with CAM or CTEF Rotors Mounted	75	300	500
Speed Ratio Driven/Non Driven Rotors	Normal 1:1 (For Internal and Intermeshing Mixers) Normal 3:2 (For Tangential Internal Mixers only)		
Adjustable Rotor Speed (rpm) By Inverter	0 – 140 Digital Display		
Suggested Charge 70% of Total at 1.0 Specific Gravity (g)	53	210	350
Main Motor (kW)	3.7	5.5	7.5
Power Supply	AC 3 Phase / 380-440 V / 50-60 Hz		
Mixing Torque and Temperature Software / PC Computer	Optional (with "TQ" models)		

SOFTWARE



Chareon Tut - Torque and Temperature Monitoring Program (CT Torque) is the software to evaluate torque and temperature real-time during mixing and generate data necessary to characterize the material's flow behavior. Moreover, the measured data will be saved automatically to prevent losing of data and can be printed out and exported to MS Excel file.

This effective software is for further analyzing mixing torque and processing data. In practice, it is helpful for solving processing problems in new formulations.

CT can make the mixer upon your requirements:

- Any mixing capacity can be manufactured by CT from small size used in laboratory to big size in plant.
- We can supply custom rotor design for specific application.
- We will recommend the suitable material or combination of materials for your application.