

# Rotary Suspension Mixer



Serving the Scientific, Medical and Research industries since 1945

**LABEC**

**LABEC**

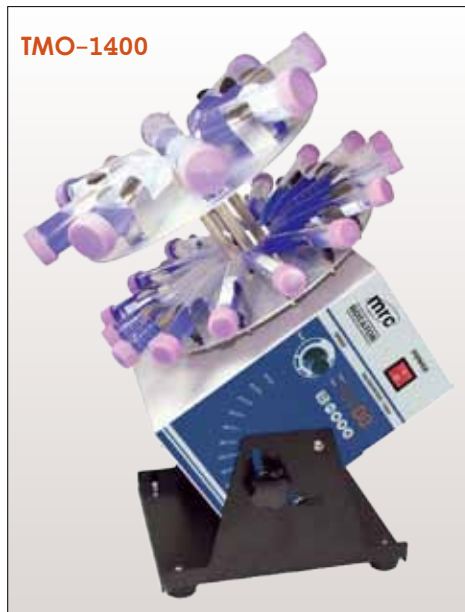
Laboratory Equipment Pty Ltd

Laboratory Equipment Pty Ltd

email: [sales@labec.com.au](mailto:sales@labec.com.au)

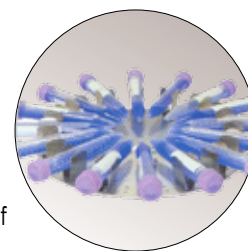
Ph: 02 9560 2811 • Fax: 02 9560 6131

[www.labec.com.au](http://www.labec.com.au)

**TMO-1400****TMO-1400, Rotator**

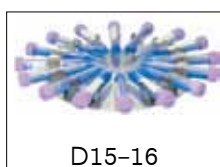
MRC tube rotator TMO-1400 is recommended for extractions, tissue culture specimens, dissolving slow reacting samples and resuspending blood solids in plasma. This unit comes equipped with a digital tachometer and timer along with a variable speed drive (10 – 50 rpm) that provides uniform rotary motion. Includes simple system for adjusting position of the tube adaptor in angles from 0° to 90°.

Elastic shaft drive allows you to load or remove tubes while motor is running. This lightweight unit uses aluminum tube adaptors, sold separately, to hold various tubes diameter. The tube adaptors are easily removable, and can be used as carrying trays. Adaptors sold separately.

**Adjustable speed & angle of rotation**

- Variable speed and adjustable mixing angle, 0° to 90°
- Continuous or timed operation
- Durable construction for long-term operation
- 5 different disks and 3 roller drums:
  - Disks are also available for 250ml flask
  - Add up to 2 disks together for application
- LED display for actual speed.

Model	TMO-1400
Angel range	0°~90°
Speed range	0~50 rpm
Timer	180min
Temp. Resist	Lower than 65°C (Dry air)
Weight	7.5kg
Dimensions(mm)	W220xD236xH246
Wattage	35W
Power	Free Voltage (AC100–240V)

**Optional Disks:**

Model Number	Description
D50-8	Disk / 50ml conical tube-capacity:8ea
D15-16	Disk / 15ml conical tube-capacity:16ea
D1.5-32	Disk / 1.5ml centrifuge tube-capacity:32ea
D1.5-60	Disk / 1.5ml centrifuge tube-capacity:60ea
D250-4	Disk / 250ml Flask-capacity:4ea

**Roller Drums:**

Model Number	Description
RD16-151	Roller Drum/Up to 15mm Diameter tube-capacity: 151ea
RD18-104	Roller Drum/Up to 17mm Diameter tube-capacity: 104ea
RD25-42	Roller Drum/Up to 24mm Diameter tube-capacity: 42ea

**Other Accessories:**

Model Number	Description
PO-4	Mount knobs for attaching one or 2 discs to the unit

## TMO-1500, Rotator



TMO-1500



### Use with a wide variety of accessories

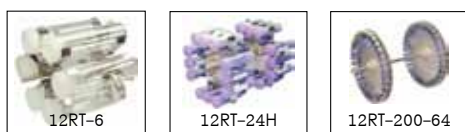
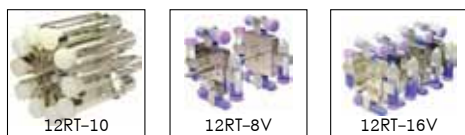
- Variable speed and adjustable mixing angle, 0° to 90°
- Continuous or timed operation
- A wide choice of accessories to be used, including conical tubes, bottles and 250ml flask
- Optional rocking platform for washing
- LED display for actual speed.

Model	TMO-1500
Angel range	0°~90°
Speed range	0~50 rpm
Timer	99 hours 59 min
Temp. Resist	Lower than 65°C (Dry air)
Weight	8kg
Dimensions(mm)	W502xD236xH246
Wattage	35W
Power	Free Voltage (AC100~240V)

### Optional Disks:

Model Number	Description
D50-8	Disk / 50ml conical tube-capacity: 8ea
D15-16	Disk / 15ml conical tube-capacity: 16ea
D1.5-32	Disk / 1.5ml centrifuge tube-capacity: 32ea
D1.5-60	Disk / 1.5ml centrifuge tube-capacity: 60ea
D250-4	Disk / 250ml Flask-capacity: 4ea

### Accessories:



### Roller Drums:

Model Number	Description
RD16-151	Roller Drum/Up to 15mm Diameter tube-capacity: 151ea
RD18-104	Roller Drum/Up to 17mm Diameter tube-capacity: 104ea
RD25-42	Roller Drum/Up to 24mm Diameter tube-capacity: 42ea

### Other Accessories:

Model Number	Description
PO-4	Mount knobs for attaching one or 2 discs to the unit

### Roller Drum-TMO-1500 Only:

Model Number	Description
12RT-4	80mm Diameter X200mm length bottle capacity:4ea
12RT-6	60mm Diameter X200mm length bottle capacity:6ea
12RT-10	40mm Diameter X200mm length bottle capacity:10ea
	40mm Diameter X120mm length bottle capacity:20ea
12RT-8V	50ml Conical tube-capacity: 8ea - vertical mount
12RT-16V	50ml Conical tube-capacity: 16ea - vertical mount
12RT-24H	50ml Conical tube-capacity: 24ea - horizontal mount
12RT-200-64	1.5ml Centrifuge tube-capacity : 64ea
12RT-200-96	1.5ml Centrifuge tube-capacity : 96ea
12RT-200-128	1.5ml Centrifuge tube-capacity : 128ea
12RT-300-120	1.5ml Centrifuge tube-capacity : 120ea
12RT-300-180	1.5ml Centrifuge tube-capacity : 180ea
12RT-300-240	1.5ml Centrifuge tube-capacity : 240ea
12RK-TMO	Rocking platform(W285xD195xH65, tilt angle:±7°)



TMO-1650

**TMO-1550/1650, Rotators**

**Features:**

- Give gentle but effective mixing of biological samples
- Compact space-saving design fits easily in incubator and low temp. Chamber
- Used with a wide variety of accessories, available of micro tubes from volume range of 1.5ml-50ml
- Adjustable speed range of 0 to 80 rpm
- Rotator capacity:

1.5ml X 48

15ml X 16

50ml X 8.



TMO-1550

Model	TMO-1550	TMO-1650
Voltage (AVC)	100-240	
Frequency (Hz)	50/60	
Motor rating input (W)	16	
Motor rating output (W)	10	
Speed range (rpm)	10-80	
Shaking motion	Orbital	
Dimensions (W×H×D mm)	220X310X300	150X530X190
Weight (kg)	2.0	1.7
Permissible ambient temperature (°C)	5-40	
Permissible relative humidity	80%	



TMO-1600  
With 303-1-100004 included

**TMO-1600 Series**

- Features:** Suitable for mixing of blood and culture samples
- 360° rotating action
  - Continuous or timing operation (0-30 minutes)
  - Fixed mixing angle at 45°
  - Easy to load & unload the tubes
  - Adjustable speed
  - Smooth start and change of the stirring speed
  - Durable construction for long term operation
  - 3 Different disks (optional)
  - Included: Disk, 10x1.5ml & 10x15ml & 10x50ml tube holders.

303-1-100002  
30x15ml



303-1-100003  
15x50ml



303-1-100001  
30x1.5ml



OPTIONAL DISKS

Model Number	Disc Description
303-1-100001	Disk, 30x1.5ml tube holders (Optional)
303-1-100002	Disk, 30x15ml tube holders (Optional)
303-1-100003	Disk, 15x50ml tube holders (Optional)
303-1-100004	Disk, 10x1.5ml & 10x15ml & 10x50ml tube holders (Included)

Model	Angle Range	Speed Range (rpm)	Disc size (mm)	Net Weight	Dimensions (mm)	Power
TMO-1600	Fixed 45°	10~100	Ø 300	4.8kg	W250xD300xH250	AC 110V/60Hz or 220V/50Hz



TMO-1701

**TMO-1701, Suspension Mixer****Features:**

- Suitable for mix of blood and culture samples.
- 360° rotating action.
- Time mode or Continuous mode operation.
- Digital speed and time setting.
- Fully adjustable mixing angle from 0°~90°.
- Easy to load & unload the tubes.
- Quality certification: ISO 9001, ISO 13485.



303-1-100022 - 40xØ29mm diam

303-1-100021 - 114xØ18mm diam

Model	TMO-1701		
Capacity	Ø18mmx114	Ø29mmx40	Ø18mmx48 & Ø29mmx20
Speed	10~250rpm		
Time mode	Continuous mode / timed mode (99 hours and 59 minute digital timer)		
Display	Digital display for speed and time		
Disc dimension	Ø310mm		
Weight (N.W./G.W.)	6.5 / 8.0 kgs		
Overall dimension	W310xD280xH355mm		
Power Supply	AC 100~240V 50/60Hz		



TRO-1100

**TRO-1100, Multi Tube Rotator****3D Rotation Permits Gentle, Low Foaming Agitation!**

**Accommodates fourteen 2,7,10 and 15ml tubes for mixing blood samples, DNA extractions and hybridizations.**

**Features:**

3D gyratory movement provides consistently uniform specimen quality in one minutes • Large capacity of tray holds a variety of sizes and shapes of containers such as tubes and vials • Rubber dimple mat of tray firmly but gently holds containers • Test tubes can be easily loaded and unloaded without turning the unit off • Ideal for use in hematology, blood chemistry and other laboratory applications where a

continuous, gentle motion is necessary • Mechanical action of unit provides a circular motion coupled with a rocking pattern which keeps liquids and solutions gently mixed without the potential for shearing or other damage • Angle of rotation varies to 20° from the horizontal plane • Shaker has a fixed speed of 30 rpm • Portable, lightweight metal body is durable & easy to clean • Compact size permits easy transportability & use in areas with limited space • Black silicon, non-skid, dimpled platform surface & sides hold 2,7,10 or 15 ml tubes firmly in place. No need for racks or clamps • Removable Black silicone platform, easy to clean & can be used to transport tubes.

Model	Speed(fixed)	Movement	Switch	Tray size(mm)	Size (mm)	Weight
TRO-1100	30rpm at 60Hz 25rpm at 50Hz	3D gyratory movement on a central point	On/Off	W230xD125	W230xD125xH175	1.8/kg