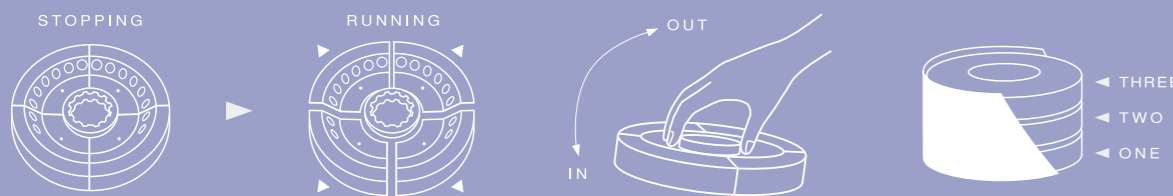


Rack-in-Rotor



TOMY "Rack-in-Rotor" —The Future of Centrifuge Rotor System

One of the most innovative features of the TOMY MX-Series High Speed Refrigerated Micro Centrifuge is its unique "Rack-in-Rotor" system using a combination of carbon fiber rotors and a variety of drop-in racks made of resin for greater convenience, higher performance and lower cost, including:

- 1 Stackable, drop-in/lift-out rotor racks for easy placement and removal**
Lightweight resin racks have a drop-in/lift-out design which allows for easy placement and replacement of tubes. These rotor racks are available in a wide variety of types, and can be stacked in layers to suit your application.
- 2 Lightweight, yet stable rotation, and excellent acceleration/deceleration performance**
Each rack has four slits so that the adhesion of the rack to the inner wall of the rotor is facilitated by centrifugal force, providing stable operation of the rotor. Lightweight rotors and racks can also increase acceleration and deceleration performance.
- 3 A wide variety of racks available at affordable prices**
A large selection of resin racks is provided at affordable prices to accommodate tubes and plates of different volumes and numbers, which supports a diverse array of sample processing applications.
- 4 A portable rack for sample tubes**
A resin rack can be used for a wide range of purposes, including storage and transportation. It can be used as a tube stand or carrier to hold or transport sample tubes.

MX-Series

HIGH SPEED REFRIGERATED MICRO CENTRIFUGE

TOMY "MX-Series" —Toward High Performance and Simplicity!

The MX-Series is a high speed refrigerated micro centrifuge that is designed for high performance and simplicity of operation.

1

Faster acceleration and deceleration than its predecessor shortens run times.

Speed
Up!

Acceleration/
deceleration time is
reduced by up to
50% or more.

2

All models are equipped with an imbalance detection system as a standard safety function.

3

User friendly, beautiful and functional design with human factors engineering in mind

4

Compact body design for easy installation and transportation

Easy-to-see, easy-to-use control panel

- User friendly center Jog Dial operation
- Highly visible dual color LED display for operating status indication
- Memory function storing up to three sets of operating parameters for more efficient centrifugation
- One touch key operation permits easy acceleration of the rotor to a maximum speed for the centrifugation protocol selected.
- 1 - 99 minutes timer with 1 minute increment



Standard Specifications:

Models	MX-305	MX-205	MX-105
Maximum Speed	16,000rpm		15,000rpm
Maximum RCF	21,130G	21,130G	20,380G
Maximum Capacity	4×50ml	6×30ml	24×2ml
Control System	Microprocessor control (feedback system)		
Drive Motor	Induction motor		
Drive System	Direct drive with an automatic alignment function		
Data Entry Device	Jog Dial		
Temperature Setting Range	-9 to 35°C (1°C increments)		
Speed Setting Range	300rpm to Maximum speed (100rpm increments)		
RCF Setting Range	100G to Maximum RCF (100G increments)		
Time Setting Range	0 to 99 minutes (1 minute increments) or <F-> for free		
Additional Functions	<ul style="list-style-type: none"> ●FLASH (momentary spin) function ●Memory function (three sets) ●Previous setting memory ●Soft Brake function 		
Safety Devices	<ul style="list-style-type: none"> ●Lid interlock ●Lid open/close detector ●Over-speed detector ●Over-current circuit breaker ●Motor over-current detector ●Abnormally high or low chamber temperature detector ●Rotor identification system ●Imbalance detector 		
Refrigerant	HFC134a (240g)	HFC134a (210g)	HFC134a (200g)
Power Requirements	Single phase AC110/120V 50/60Hz, 15A Single phase AC220/230/240V 50/60Hz, 8A		
Power Consumption (calorific heat value)	860W (740kcal/h)	790W (680kcal/h)	650W (560kcal/h)
Dimensions (except protrusion)	345W×465D×860H mm (table height:755H mm, lid in open position:1125H mm)		
Net Weight	68kg (110/120V) 73kg (220/230/240V)	67kg (110/120V) 72kg (220/230/240V)	66kg (110/120V) 71kg (220/230/240V)
Cord Length	3m		
Environmental Requirements	Ambient temperature range:10 to 35°C, Relative humidity:30 to 85%, Atmospheric pressure:700 to 1060hPa		
Accessories Included	<ul style="list-style-type: none"> ●Operator's manual ×1 copy ●Warranty card ×1 copy ●Customer card ×1 copy ●Inspection sheet ×1 copy ●Hexagon wrench ×1 pcs ●Clear storage case ×1 pcs ●Attaching screw ×1 pcs ●Caster holder × 2pcs ●Drain plug × 1pcs 		

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MX-305/205/105

HIGH SPEED REFRIGERATED MICRO CENTRIFUGE



MX-305

Flagship of the MX-Series, capable of accepting 50ml conical tubes

- Accommodates all TOMY Rack-in-Rotors ; TMA-100/200/300
- Stack up to three racks high, total 72×2ml can be processed.
- Accommodates a high g-force centrifugation rack ; AR510-04
- Accommodates a rack for up to 2 X 96-well PCR plate ; PCR96-02
- Provides large capacity performance in the same compact design applied to other models of the MX-Series



Rotors/Racks For MX-305 High Speed Refrigerated Micro Centrifuge

▼ Rack-in-Rotor (Carbon Fiber Material)	TMA-100	TMA-200	TMA-300
8×8-Strip PCR Tube	Cannot be stacked	Can be double-stacked	Can be triple-stacked
24×0.4ml			
24×0.5ml			
24×2ml			
12×5ml			
8×14ml		Cannot be stacked	Cannot be stacked
6×30ml			
8×14ml			
8×15ml			
4×50ml or 15ml			
4×50ml or 14ml			
2×96 Well PCR Plate			Cannot be stacked

*1 Culture tubes *2 50ml tubes cannot be centrifuged together with 15ml (or 14ml) tubes in the same rotor rack. *3 Maximum speed : 14,000rpm

▼ Fixed-angle Rotor/Swing-out Rotor/Horizontal Rotor						
TMP-21 18×2ml	TMP-24 24×2ml	TMA-20 8×10ml	TMA-21 18×2ml	TMA-22 18×2ml/18×0.5ml	TMA-23 6×30ml	TMA-26 12×2ml
TMA-27 4×15ml/4×50ml	TMA-29 24×2ml	TMA-30 36×2ml	TMA-32 8×14ml	TMA-25BH 4×50ml	TMS-21 16×2ml	TMH-21 36×2ml

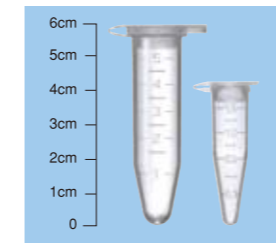
*4 High sealed rotor



MX-205

From 2ml micro tubes to 30ml tubes, the MX-205 supports a wide range of applications.

- Accommodates two models of TOMY Rack-in-Rotors ; TMA-100/200
- Stack up to two racks high, total 48×2ml can be processed.
- A well balanced unit combining high speed centrifugation and large sample capacity
- Accommodates a rotor rack for up to 12×5ml ; AR050-12



Rotors/Racks For MX-205 High Speed Refrigerated Micro Centrifuge

▼ Rack-in-Rotor (Carbon Fiber Material)	TMA-100	TMA-200
8×8-Strip PCR Tube	Cannot be stacked	Can be double-stacked
24×0.4ml		
24×0.5ml		
24×2ml		
12×5ml		
8×14ml		
6×30ml		Cannot be stacked

▼ Fixed-angle Rotor/Swing-out Rotor/Horizontal Rotor					
TMP-21 18×2ml	TMP-24 24×2ml	TMA-20 8×10ml	TMA-21 18×2ml	TMA-22 18×2ml/18×0.5ml	TMA-23 6×30ml
TMA-26 12×2ml	TMA-29 24×2ml	TMA-32 8×14ml	TMS-21 16×2ml	TMH-21 36×2ml	



MX-105

Advanced centrifuge model with simple operation designed to spin micro tubes

- Accommodates a TOMY Rack-in-Rotor TMA-100 compatible with four types of racks
- Supports from 8-Strip PCR tubes to 24×2ml micro tubes
- Provides up to 15,000rpm high speed centrifugation
- All MX-105 compatible rotors can reach their maximum speed within 10 seconds.

Rotors/Racks For MX-105 High Speed Refrigerated Micro Centrifuge

▼ Rack-in-Rotor (Carbon Fiber Material)	▼ Rotor Rack (Maximum Speed : 15,000rpm) (Cannot be stacked)	
	Maximum Capacity	Rotor Rack Model
	8×8-Strip PCR Tube	AR002-64
	24×0.4ml	AR004-24
	24×0.5ml	AR005-24
	24×2ml	AR015-24
Fixed-angle Rotor ▶	TMP-21 18×2ml	TMP-24 24×2ml

Rotors/Racks For MX-Series High Speed Refrigerated Micro Centrifuge

▼ Rotor Rack					
AR002-64 8×8-Strip PCR Tube 15,000rpm/Outer row RCF:18,120G/ Inner row RCF:16,350G	AR004-24 24×0.4ml 15,000rpm/20,380G	AR005-24 24×0.5ml 15,000rpm/19,880G	AR015-24 24×2ml 15,000rpm/20,380G	AR050-12 12×5ml 15,000rpm/20,130G	AR141-08 8×14ml 15,000rpm/20,380G
AR300-06 6×30ml 15,000rpm/20,380G	AR140-08 8×14ml 15,000rpm/20,380G	AR150-08 8×15ml 15,000rpm/20,380G	AR510-04 *2 *1 4×50ml or 15ml 15,000rpm/20,380G	AR501-04 *2 *1 4×50ml or 14ml 15,000rpm/20,130G	PCR96-02 2×96 Well PCR Plate 14,000rpm Optional adapter, A96-01 PC is required.

*1 Culture tubes *2 50ml tubes cannot be centrifuged together with 15ml (or 14ml) tubes in the same rotor rack.

Fixed-angle Rotor/Swing-out Rotor/Horizontal Rotor

TMP-21 18×2ml 15,000rpm/17,860G	TMP-24 24×2ml 13,500rpm/17,730G	TMA-20 8×10ml 15,000rpm/18,370G	TMA-21 18×2ml 15,000rpm/18,370G	TMA-22 18×2ml/18×0.5ml 15,000rpm/Outer row RCF:19,120G Inner:14,840G	TMA-23 6×30ml 15,000rpm/18,870G	TMA-26 *5 12×2ml 16,000rpm/18,320G
TMA-27 *2 *1 4×50ml or 15ml 15,000rpm/21,130G	TMA-29 24×2ml 15,000rpm/21,130G	TMA-30 36×2ml 15,000rpm/Outer row RCF:21,130G Inner:18,620G	TMA-32 8×14ml 15,000rpm/20,630G	TMA-25BH *4 4×50ml 15,000rpm/19,120G	TMS-21 *6 16×2ml 15,000rpm/19,880G	TMH-21 *7 36×2ml 15,000rpm/17,360G

*4 High sealed rotor *5 The photo shows a rotor with a lid. *6 The photo shows a rotor with a bucket model M0415-04 installed. *7 The photo shows a rotor with a rack model HR022-09 installed.