



TUBE ROTATORS

Tube Rotators are the ideal instruments for applications requiring highly efficient and consistent mixing. They are widely used in clinical, research, and academic laboratories. Crystal Tech offers both a fixed speed Tube Rotator as well as a variable speed model with a timer. This High-Capacity Tube Rotator is well suited for the high throughput mixing of samples of various sizes.



**Standard Tube Rotator
TR-03A (90°)**



**Standard Tube Rotator
TR-03A (130°)**



**Standard Tube Rotator
TR-03A (180°)**



**Digital Tube Rotator
TR-04UA (90°)**



**Digital Tube Rotator
TR-04UA (130°)**



**Digital Tube Rotator
TR-04UA (180°)**



**High Capacity Tube Rotator
TR-05UA (45°)**



**High Capacity Tube Rotator
TR-05UA (95°)**



**High Capacity Tube Rotator
TR-05UA (180°)**



TUBE ROTATORS

The tube rotator is an ideal instrument for numerous applications where high efficiency and consistent mixing are needed.



Accessories and Specifications

PRODUCT FEATURES:

- Tilt angle is adjustable for accommodating different applications
- Variable sizes of Tube Holders and Carousels are available to accommodate various sizes of Tubes
- All units are compatible with cold room and incubator environment
- TR-04UA and TR-05UA models have speed adjustment, continuous and timer mode with automatic stop



Specifications

Model	TR-03A	TR-04UA	TR-05UA
Product Name	Fixed Speed Tube Rotator	Digital Tube Rotator	Large Capacity Tube Rotator
Speed	24 RPM	2~80 RPM	5~80 RPM
Speed Accuracy	NA	±1 RPM	
Tilt Angle	90°~180° (Any Angle in Range)		95°~180° (Six Steps: 95°, 112°, 129°, 146°, 163°, 180°)
Timer	NA	0~99hr 59min	
Carousel Diameter	Ø250 mm (Ø9.8 in)		Ø290 mm (Ø11.4 in)
Capacity	12x50mL / 18x15mL / 48x2mL / 9x50mL + 9x15mL + 12x2mL		15x50mL / 30x15mL / 10x10/15mL + 20x5/7mL / 64xØ18.5mm Culture Tubes / 64xØ14mm Culture Tubes
Display	NA	LCD	LED
Accessories Included in Standard Packaging	TRA22 (Carousel for 12x50mL Tubes)		TRA25 (Carousel for 15x50mL Tubes)
Operating Environment	Ambient Temperature: 4°C~40°C Relative Humidity: ≤ 80%		
Power Supply	AC110V, 60Hz		
Max. Power	11W	6W	8W
Dimensions WxDxH	215 x 334 x 405 mm (13.2 x 8.5 x 15.9 in)		296 x 440 x 466 mm (17.3 x 11.7 x 18.3 in)
Net Weight	3.5 kg (7.7 lb)	4 kg (8.8 lb)	8.1 kg (17.7 lb)
Protection Level	IP21		
Certifications	CE		cCSAus, CE, RoHS, WEEE

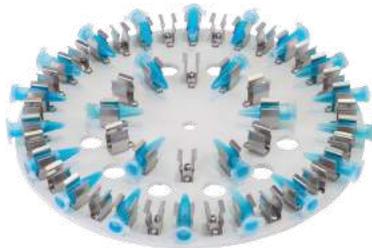


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Accessories for TR-03A and TR-04UA



**Carousel for 2mL, 15mL,
50mL Tubes
TRA19**



**Carousel for 2mL Tubes
TRA20**



**Carousel for 15mL Tubes
TRA21**



**Carousel for 50mL Tubes
TRA22**



**Tube Holders for 50mL Tubes
TRA15**



**Tube Holders for 5/10/15/20mL Tubes
TRA16**



**Tube Holders for 2mL Tubes
TRA17**

For over 25 years Crystal Technology and Industries has been driven to deliver exceptional value to the scientific marketplace by developing innovative equipment and Cryo Storage Solutions for today's scientist.

Specifications

Name	Part Number	Capacity
Carousel for 2mL, 15mL, 50mL Tubes	TRA19	9x50mL + 9x15mL + 12x2mL
Carousel for 2mL Tubes	TRA20	48x2mL
Carousel for 15mL Tubes	TRA21	18x15mL
Carousel for 50mL Tubes	TRA22	12x50mL
Tube Holders for 50mL Tubes	TRA15	N/A
Tube Holders for 5/10/15/20mL Tubes	TRA16	N/A
Tube Holders for 2mL Tubes	TRA17	N/A



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Accessories for TR-05UA



1.5ml and 2.0 ml Rotator Assembly
TRA23



15 ml Rotator Assembly
TRA24



10ml, 15ml, 5ml, 7ml Assembly
TRA 26



50ml Rotator assembly
TRA25



Drum for 14mm culture tubes Dia. 14mm
TRA27



Drum for 18.5mm culture tubes Dia. 18.5 mm
TRA28

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Specifications

Name	Part Number	Capacity
Carousel for 1.5/2mL Tubes	TRA23	50x 1.5 mL /50x2mL
Carousel for 15mL Tubes	TRA24	30x15mL
Carousel for 50mL Tubes	TRA25	15x50mL
Carousel for 10mL/15mL + 5mL/ 7mL Tubes	TRA26	10x15mL/10 x15mL + 20x5mL/ 20 x 7mL
Drum for Ø14mm Culture Tubes	TRA27	64xØ14mm Culture Tubes
Drum for Ø18.5mm Culture Tubes	TRA28	64xØ18.5mm Culture Tubes
Tube Holders for 50mL Tubes	TRA15	N/A
Tube Holders for 5/10/15/20mL Tubes	TRA16	NA
Tube Holders for 2mL Tubes	TRA17	N/A



Tube Holders for 50mL Tubes
TRA15



Tube Holders for 5/10/15/20mL Tubes
TRA16



Tube Holders for 2mL Tubes
TRA17