



**Thermo Scientific  
Sorvall ST 8 Centrifuge**

Fits in.  
**Stands out.**

**Thermo**  
SCIENTIFIC

Introducing the NEW!  
Thermo Scientific™  
Sorvall™ ST 8 small  
benchtop centrifuge



## Fits in.

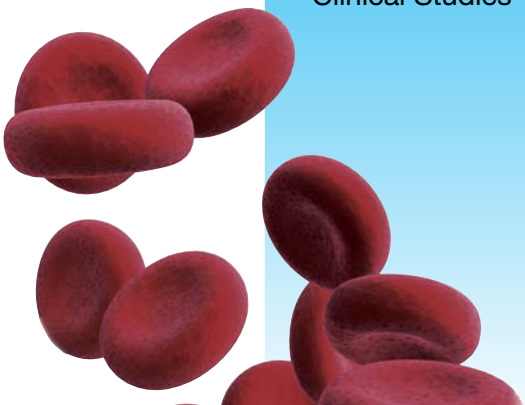
- ▶ to **your space**, with its compact footprint.
- ▶ to **your applications**, accommodating multi-laboratory settings with the flexibility to adapt with evolving clinical and research needs.

### CLINICAL APPLICATIONS

Clinical Chemistry  
Clinical Microbiology  
Hematology  
Immunology  
Clinical Studies

### RESEARCH APPLICATIONS

Cellular Biology  
Microbiology  
Genomics / Molecular Biology  
Proteomics  
Biochemistry  
Pharmaceutical Studies





# Stands out.

- ▶ designed for **solid reliability and consistent results.**
- ▶ featuring **innovative Thermo Scientific™ technologies:**
- ▶ anticipating and addressing your most pressing lab needs. Even those you don't know you have yet.



## Auto-Lock™ Rotor Exchange

Secure push-button application versatility and cleaning convenience



## ClickSeal™ Biocontainment Lids

One-handed, certified<sup>1</sup> sample protection



## Maximized Capacity

Process 8 x 50 mL conical tubes, 24 x 5/7 mL blood tubes, microplates and microtubes, all in one versatile unit

<sup>1</sup>  Biocontainment certification by the Public Health Laboratory Service, Microbiology Services, Porton Down, UK

# Fits in. **Stands out.**



## Simple solutions. **Flexible processing.**

Secure, push-button **Auto-Lock** rotor exchange in less than 3 seconds delivers:

- Trouble-free rotor installation and removal
  - 1 ] No tools are required
  - 2 ] No complicated rotor changing procedures
- Clear chamber access for cleaning convenience
- Quick switch between applications – from conical tubes to blood tubes, and from microtubes to microplates – and the flexibility to evolve with the changing needs of your laboratory

Optimize bench space with **maximized capacity**


- 8 x 50 mL swinging bucket rotor capacity or 4 microplates for research needs
- Clinical processing up to 24 x 5/7 mL blood tubes per run



## Reliable quality. **Safe operation.**

- Biocontainment sealing options, including certified<sup>1</sup> **ClickSeal** lids for glove-friendly, one-handed operation
- Manufactured with quality materials providing broad chemical resistance with exceptional strength for durability and reliability
- Quiet performance (<61 dBA) provides a safe, stress-free environment
- Conforms to the latest clinical and safety standards, such as UL, CE and IVD<sup>2,3</sup>



<sup>1</sup>  Biocontainment certification by the Public Health Laboratory Service, Microbiology Services, Porton Down, UK

<sup>2</sup> See full list of standards & certifications on final page

<sup>3</sup> IVD compliant regarding directive 98/79/EC, if used together with the hematocrit rotor and its accessories



## Sample-ready. User-friendly.

- One-touch operation with pre-saved protocols and password protection available
- Highly visible backlit display for easy reading of parameters across the lab
- Optional indicators at end of run, including automatic lid opening, flashing display or audible signal
- Glove- and detergent-friendly
- Multilingual instructions – English, Dutch, French, German, Italian, Russian and Spanish – on programming, run conditions, alerts and service messages



Fits in. **CLINICAL APPLICATIONS.**

## Stands out.

**Outstanding capacity in a compact design  
with a smart, simple interface.**







- Runs up to 24 x 5/7 mL blood tubes at a time in swinging bucket configuration
- Expanded programming options including password protection
- Auto-Lock rotor exchange simplifies cleaning
- Conforms to the latest clinical and safety standards



### CLINICAL APPLICATIONS

Clinical Chemistry  
Clinical Microbiology  
Hematology  
Immunology  
Clinical Studies

# Rotors for Clinical Applications

Thermo Scientific Rotor	Description	Stand-out Features	Performance	Applications
<b>TX-150 Swinging Bucket Rotor</b>				
	Designed for a broad range of high-speed, high-capacity swing-out processing needs, with a capacity of 24 x 5/7 mL blood tubes per run and flexibility with available adapters.	<b>Certified<sup>1</sup> sample protection with ClickSeal biocontainment lids.</b>	4,500 rpm 3,260 x g	<ul style="list-style-type: none"> <li>Clinical Chemistry</li> <li>Hematology</li> <li>Immunology</li> <li>Clinical Studies</li> </ul>
<b>M10 Swinging Bucket Rotor</b>				
	Centrifuge up to 4 microplates or 2 deepwell plates.	<b>Transportable microplate carriers, complemented by Auto-Lock rotor exchange.</b>	4,400 rpm 2,576 x g	<ul style="list-style-type: none"> <li>Clinical Chemistry</li> <li>Clinical Microbiology</li> <li>Hematology</li> <li>Immunology</li> </ul>
<b>CLINIConic Fixed Angle Rotor</b>				
	Spin 30 blood tubes in fixed angle configuration with fast acceleration to optimize blood separation applications.	<b>Auto-Lock rotor exchange for ultimate ease-of-use.</b>	4,400 rpm 3,030 x g	<ul style="list-style-type: none"> <li>Clinical Chemistry</li> <li>Clinical Microbiology</li> <li>Hematology</li> <li>Immunology</li> <li>Clinical Studies</li> </ul>
<b>Hematocrit Rotor</b>				
	Dedicated blood processing to achieve capillary separations.	<b>Linear scale provided to read results.</b>	13,300 rpm 16,800 x g	<ul style="list-style-type: none"> <li>Hematology</li> </ul>

<sup>1</sup>  Biocontainment certification by the Public Health Laboratory Service, Microbiology Services, Porton Down, UK

## Dedicated Rotors for Routine Clinical Processing



### TX-100S Clinical Swinging Bucket Rotor with Sealed Carriers

Spin 8 tubes with biocontainment sealing  
4,500 rpm / 3,215 x g



### TX-100 Clinical Swinging Bucket Rotor with Carriers

Capacity of 16 tubes per run  
4,500 rpm / 3,260 x g

Fits in. **RESEARCH APPLICATIONS.**

## Stands out.

**Innovative design supports multiple users and applications to stay one step ahead of your evolving research needs.**

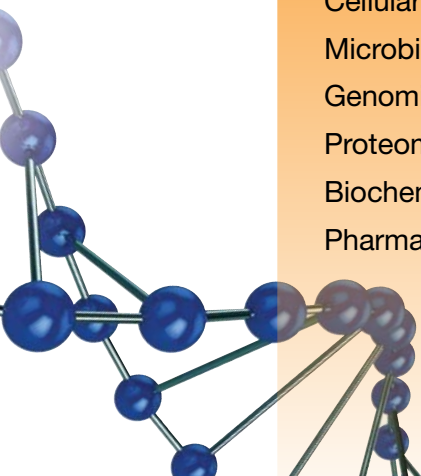


- 8 x 50 mL swinging bucket rotor capacity, 4 microplates, or 30 filtration columns for research needs
- Auto-Lock rotor exchange for application flexibility – go from 50 mL tube to microplates to microtubes effortlessly



### RESEARCH APPLICATIONS

Cellular Biology  
Microbiology  
Genomics / Molecular Biology  
Proteomics  
Biochemistry  
Pharmaceutical Studies





# Rotors for Research Applications

Thermo Scientific Rotor	Description	Stand-out Features	Performance	Applications
<b>TX-150 Swinging Bucket Rotor</b> 	Designed for a broad range of swing-out processing needs at high speed and high capacity with the flexibility of available adapters.	<b>Dedicated bucket available for 8 conical tubes capacity or round buckets with certified<sup>1</sup> ClickSeal biocontainment lids.</b>	4,500 rpm 3,260 x g	<ul style="list-style-type: none"> <li>Cellular Biology</li> <li>Microbiology</li> <li>Genomics/Molecular Biology</li> <li>Proteomics</li> <li>Biochemistry</li> <li>Pharmaceutical studies</li> </ul>
<b>M10 Swinging Bucket Rotor</b> 	Centrifuge up to 4 microplates or 2 deepwell plates.	<b>Transportable microplate carriers, complemented by Auto-Lock rotor exchange.</b>	4,400 rpm 2,576 x g	<ul style="list-style-type: none"> <li>Cellular Biology</li> <li>Microbiology</li> <li>Genomics/Molecular Biology</li> </ul>
<b>MT-12 Swinging Bucket Rotor</b> 	Unique design capable of spinning up to 12 x 1.5/2 mL microtubes and filtration columns, ideal for small-volume research applications.	<b>Individual swinging bucket rotors.</b>	13,000 rpm 16,438 x g	<ul style="list-style-type: none"> <li>Microbiology</li> <li>Genomics/Molecular Biology</li> <li>Biochemistry</li> <li>Pharmaceutical Studies</li> </ul>
<b>HIGHConic III Fixed Angle Rotor</b> 	Process 6 x 50 mL tubes in fixed angle configuration and at RCF above 10,000 x g in certified <sup>1</sup> sealed conditions.	<b>New transparent lid enables viewing for added safety and convenience, and Auto-Lock rotor exchange enhances ease-of-use.</b>	8,700 rpm 10,155 x g	<ul style="list-style-type: none"> <li>Cellular Biology</li> <li>Microbiology</li> <li>Genomics/Molecular Biology</li> <li>Proteomics</li> <li>Biochemistry</li> <li>Pharmaceutical Studies</li> </ul>
<b>CLINIConic Fixed Angle Rotor</b> 	Spin 30 x 15 mL round or conical tubes and ensure fast acceleration and throughput for cell culture applications.	<b>Support conical tubes in a fixed angle rotor with the flexibility of Auto-Lock rotor exchange.</b>	4,400 rpm 3,030 x g	<ul style="list-style-type: none"> <li>Cellular Biology</li> <li>Microbiology</li> <li>Genomics/Molecular Biology</li> </ul>
<b>Micro-Volume Rotors</b> 	<p><b>MicroClick 30 x 2 Fixed Angle Rotor</b></p> <p><b>MicroClick 24 x 2 Fixed Angle Rotor</b></p> <p><b>8 x 8 PCR Strip Fixed Angle Rotor</b></p>	<p>Capable of supporting micro-volume protocols, such as nucleic acid preparation, PCR reaction set-up and filtration columns, choose from the complete micro-volume rotor portfolio.</p> <p><b>With Auto-Lock rotor exchange, switch from swing-out to a microtube rotor in as little as 3 seconds, coupled with security of certified<sup>1</sup> ClickSeal biocontainment lids.</b></p>	<p>14,000 rpm 21,693 x g</p> <p>16,000 rpm 24,328 x g</p> <p>15,000 rpm 17,860 x g</p>	<ul style="list-style-type: none"> <li>Microbiology</li> <li>Genomics/Molecular Biology</li> <li>Biochemistry</li> <li>Pharmaceutical Studies</li> </ul>

<sup>1</sup>  Biocontainment certification by the Public Health Laboratory Service, Microbiology Services, Porton Down, UK

## Stands out. Extensive Rotor Portfolio for Application Flexibility

### Versatile Swinging Bucket Rotors



TX-150 Swinging Bucket Rotor



M10 Swinging Bucket Rotor



MT-12 Swinging Bucket Rotor

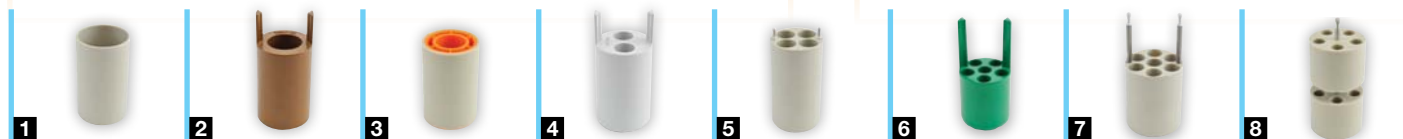
### Clinical Swinging Bucket Rotors



TX-100S Clinical Swinging Bucket Rotor



TX-100 Clinical Swinging Bucket Rotor



Cat. No.	Description	Rotor Capacity (places x volume, mL)	Max Tube Dimensions (O x L, mm)	Max Speed (rpm)	Max RCF (x g)
<b>Versatile Swinging Bucket Rotors</b>					
75005701	<b>TX-150 Swinging Bucket Rotor, 90°, R<sub>max</sub> 144 mm</b>	<b>4 x 145</b>	<b>50 x 100</b>	<b>4,500</b>	<b>3,260</b>
75005703	50 mL Conical Buckets (Unsealed, no adapter needed) (set of 4)	8 x 50	29.5 x 120	4,500	3,260
75005702	Round Buckets (set of 4)	4 x 145	50 x 100	4,500	3,260
75005707	ClickSeal Biocontainment Lids for Round Buckets (set of 4)				
75005724	Replacement O-rings for Lids (set of 4)				
<b>Adapters for 50 mL Conical Buckets (sets of 2)</b>					
75005808	15 mL Conical Tube	6 x 15	17 x 123		
<b>Adapters for Round Buckets (sets of 4)</b>					
no adapter needed	145 mL Bottle (75005734)	4 x 145	50 x 100		
<b>1</b>	75005735 100 mL Round Bottom Open-Top Tube	4 x 100	45 x 117		
<b>2</b>	75005736 50 mL Conical or Skirted Tube	4 x 50	29.5 x 120		
<b>3</b>	75005744 25 mL Universal Flat/Skirted Tube	4 x 25	25 x 199		
<b>4</b>	75005737 15 mL Conical Tube	8 x 15	17 x 122		
<b>4</b>	75005737 11 mL IVF Tube	8 x 11	17 x 122		
<b>5</b>	75005738 14 mL Urine Tube	16 x 14	18 x 124		
<b>5</b>	75005738 12 mL Blood Collection Tube (Greiner®)	16 x 12	16 x 100		
<b>5</b>	75005738 10 mL Blood Collection or 15 mL Corex®/Kimble® Tube	16 x 15	17 x 117		
<b>6</b>	75005739 5/7mL mL Blood Collection Tube	24 x 5/7	13 x 116		
<b>7</b>	75005740 3/5 mL Blood Collection Tube	28 x 3/5	12 x 124		
<b>8</b>	75005743 1.5/2 mL Microtube	80 x 2	11 x 65		
<b>Rotor Packages</b>					
75005760	<b>Cell Culture Package</b> , includes: TX-150 Rotor (75005701), Round Buckets (75005702), Adapters for 50 mL Conical Tubes (75005736)	4 x 50	29.5 x 120		
75005761	<b>High Capacity Cell Culture Package</b> , includes TX-150 Rotor (75005701), Conical Buckets (75005703), Adapters for 15 mL Conical Tubes (75005808)	8 x 50	29.5 x 120		
75005762	<b>Clinical Rotor Package</b> , includes: TX-150 Rotor (75005701), Round Buckets (75005702), ClickSeal Biocontainment Lids (75005707), Adapters for Blood Collection Tubes: 5/7 mL (75005739) and 10 mL (75005738)	24 x 5/7	18 x 124		
75005706	<b>M10 Swinging Bucket Rotor, 90°, R<sub>max</sub> 139 mm</b>	<b>4 Standard or 2 Deepwell</b>	<b>n/a</b>	<b>4,400</b>	<b>2,576</b>
75005723	Unsealed Buckets (set of 2)				
75005600	<b>MT-12 Swinging Bucket Rotor, 90°, R<sub>max</sub> 87 mm</b>	<b>12 x 2</b>	<b>11 x 50</b>	<b>13,000</b>	<b>16,438</b>
<b>Clinical Swinging Bucket Rotors</b>					
75005704	<b>TX-100S Clinical Swinging Bucket Rotor with Sealed Carriers, 90°, R<sub>max</sub> 142 mm</b>	<b>8 x 15</b>	<b>17 x 106</b>	<b>4,500</b>	<b>3,215</b>
75005705	<b>TX-100 Clinical Swinging Bucket Rotor with Carriers, 90°, R<sub>max</sub> 144 mm</b>	<b>16 x 15</b>	<b>17 x 121</b>	<b>4,500</b>	<b>3,260</b>
<b>Adapters for TX-100S Clinical Rotor and TX-100 Clinical Rotor (each)</b>					
11203666	13.5 mL Urine Tube	16/8 x 13.5	16 x 82		
11172596	5/7 mL BD Hemogard®/ BD Vacutainer® Tube	16/8 x 5/7	13 x 106		
11172595	5 mL BD Hemogard Tube	16/8 x 5	13 x 75		
11172287	3 mL Blood Collection Tube	16/8 x 3	11 x 70		
11172288	1.5/2 mL Microtube	16/8 x 1.5/2	10 x 41		

## Fixed Angle Rotors



HIGHConic III Rotor



CLINIConic Rotor



MicroClick 30 x 2 Rotor



MicroClick 24 x 2 Rotor



8 x 8 PCR Strip Rotor



Hematocrit Rotor

Cat. No.	Description	Rotor Capacity (places x volume, mL)	Max Tube Dimensions (O x L, mm)	Max Speed (rpm)	Max RCF (x g)
<b>Fixed Angle Rotors</b>					
75005709	<b>HIGHConic III Rotor, 45°, R<sub>max</sub> 120 mm</b>	<b>6 x 50</b>	<b>38 x 105</b>	<b>8,700</b>	<b>10,155</b>
75005731	Replacement Lid (each)				
75003058	Replacement Sealing O-rings (set of 2 with grease)				
<b>Adapters for HIGHConic III Rotor (set of 6)</b>					
75005745	38 mL Round Bottom Tube	6 x 38	25.5 x 110		
75005746	16 mL Round Bottom Tube	6 x 16	18 x 123		
75005755	15 mL Conical Tube	6 x 15	17 x 123		
75005747	12 mL Round Bottom Tube	6 x 12	16 x 95		
75005748	6.5 mL Round Bottom Tube	6 x 6.5	13.5 x 114		
75005749	3.5 mL Round Bottom Tube	12 x 3.5	11 x 100		
75005750	1.5/2 mL Microtube	12 x 2	11 x 40		
<b>75003623</b>	<b>CLINIConic Rotor, 37°, R<sub>max</sub> 140 mm</b>	<b>30 x 15</b>	<b>16.5 x 131</b>	<b>4,400</b>	<b>3,030</b>
<b>Adapters for CLINIConic Rotor (each)</b>					
no adapter needed	15 mL Round/Conical Bottom Tube	30 x 15	16.5 x 131		
75003702	10 mL Round Bottom Tube	30 x 10	16.5 x 95		
11172596	5/7 mL BD Hemogard/ BD Vacutainer Tube	30 x 5/7	13 x 106		
11172595	5 mL BD Hemogard Tube	30 x 5	13 x 75		
75005719	<b>MicroClick 30 x 2 Rotor, 45°, R<sub>max</sub> 99 mm</b>	<b>30 x 1.5/2</b>	<b>11 x 45</b>	<b>14,000</b>	<b>21,693</b>
75005730	Replacement ClickSeal Biocontainment Lid (each)				
75005726	Replacement O-ring for Lid (each)				
75005715	<b>MicroClick 24 x 2 Rotor, 45°, R<sub>max</sub> 85 mm</b>	<b>24 x 1.5/2</b>	<b>11 x 45</b>	<b>16,000</b>	<b>24,328</b>
75005725	Replacement ClickSeal Biocontainment Lid (each)				
75003405	Replacement O-ring for Lid (each)				
<b>Adapters for MicroClick 30 x 2 Rotor and MicroClick 24 x 2 Rotor (sets of 30)</b>					
75005752	0.2 mL PCR Tube	30/24 x 0.25	6.5 x 20		
75005753	0.5 mL Microtube	30/24 x 0.5	8 x 44		
75005754	0.25 mL Microtube	30/24 x 0.25	6 x 46		
75005720	<b>8 x 8 PCR Strip Rotor, 45°, R<sub>max</sub> 71 mm</b>	<b>8 x 8 PCR strips</b>	<b>8 x 8</b>	<b>15,000</b>	<b>17,860</b>
75005730	Replacement ClickSeal Biocontainment Lid (each)				
75005726	Replacement O-ring for Lid (each)				
<b>75005733</b>	<b>Hematocrit Rotor, 45°, R<sub>max</sub> 80 mm, includes Linear Scale</b>	<b>24 Capillaries</b>	<b>n/a</b>	<b>13,300</b>	<b>16,800</b>
76000923	Capillaries (pack of 100)				
75000964	Sealing Kit				
76000938	Replacement Linear Scale Reading Graph				

# Thermo Scientific Sorvall ST 8 Centrifuge

## Specifications

<b>Swing Bucket Rotors</b>	
Max Capacity	4 x 145 mL (with TX-150 rotor)
Max Speed	4,500 rpm (with TX-150 rotor)
Min Speed	300 rpm (with TX-150 rotor)
Max RCF	3,260 x g (with TX-150 rotor)
<b>Fixed Angle Rotors</b>	
Max Capacity	6 x 50 mL (with HIGHConic III rotor)
Max Speed	16,000 rpm (with MicroClick 24 rotor)
Min Speed	300 rpm (with MicroClick 24 rotor)
Max RCF	24,328 x g (with MicroClick 24 rotor)
<b>Control System</b>	
Drive System	Microprocessor
Rotor Locking System	Direct, brushless induction drive
Imbalance Detection System	Auto-Lock rotor exchange
Programs	SMARTSpin
Pulse (Short) Run	4 protocols via direct access key, with naming option and password protection available
Acceleration / Deceleration Rates	Yes
Centrifugation Chamber	2 (standard and soft)
Max Timer Range	Brushed stainless steel
Sound Level	9h, 99 min + continuous
Other Features	<58 dBA (with TX-150 rotor); <61 dBA (with MicroClick 24 rotor)
Max Power Consumption	• Certified <sup>1</sup> ClickSeal biocontainment lids • Multilingual selection: English, Dutch, French, German, Italian, Russian and Spanish
Dimensions	310 W
Height (lid open)	67 cm (26.8 in)
Height (lid closed)	31 cm (12.2 in)
Width	37 cm (14.6 in)
Depth	48 cm (18.9 in)
Weight	35 kg (77 lb)
<b>Standards &amp; Certifications</b>	
Standards	IEC 61010-1, IEC 61010-2-020, IEC 61010-2-101, EN 61326-1
Certifications	UL Listed / CE marked / IVD compliant <sup>3</sup> / Certified <sup>1</sup> biocontainment

## Ordering Information

75007201	Sorvall ST 8 centrifuge, ventilated, 230 V, 50/60 Hz
75007200	Sorvall ST 8 centrifuge, ventilated, 120 V, 60 Hz
75007202	Sorvall ST 8 centrifuge, ventilated, 100 V, 50/60 Hz

<sup>1</sup>  Biocontainment certification by the Public Health Laboratory Service, Microbiology Services, Porton Down, UK

<sup>3</sup> IVD compliant regarding directive 98/79/EC, if used together with the hematocrit rotor and its accessories

The Project was defined for JQC, Regulation 862.2050 – Clinical Centrifuges

[thermoscientific.com/smallbenchcentrifuge](http://thermoscientific.com/smallbenchcentrifuge)

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