

# PrO-Road Centrifuges

Road. Tarmac testing, Asphalt testing





# Welcome to our new PrO-Road range.

**Designed with an Analytical Chemist and Civil Engineers, we offer state of the art and best value centrifuges for Analytical purpose use.**

**Derived from our LED display centrifuges spanning over 27 years of Centrifuge manufacturing.**

## Ambient

Designed to keep sample heating to a minimum, our **“Through flow air system”** is unsurpassed.

Thus keeping not only the samples cool, but the motor too, allowing , if necessary, long run times.

Feature count is the best for your various needs.

## Refrigeration

Our Latest **“Dynamic efficiency control system”** in Led display format derived from our long running LCD series is now available to meet the needs of the market.

Our aim with all our refrigeration systems was to reduce power by 25% and was easily achieved.

New thicker stainless bowls and improved Heat exchanger, with larger, yet more efficient

## Compressors and condensers.

Our control is unsurpassed, by using bypass hot gas, against its own cooling we can control to levels beyond our competitors, who simply switch the fridge on and off.

A new, next generation PID control software system adds to the control too.

A body redesign has resulted in a simple access panel , should any mains voltage control parts need servicing.

## Rotors

We are aware of the needs of longevity and the need for corrosive or chemical resistance is paramount. NOTE all bowls in the centrifuges are stainless steel (Salt saturation tested).

To this end our fixed angle rotors are CNC machined from polypropylene as are the adaptors.

Giving the best strength and chemical resistance for your needs.

Other Swing out rotors and high speed rotors are made from aircraft grade high strength aluminium and then double anodised for protection.

As a manufacturer we are aware of your different needs, if you have such requests.

Please call us, If possible we can specialise or add a rotor from another range to assist.

**All Centrifuges and rotors carry a 3 year warranty.**

That is how confident we are of our Quality and resilience.

Please see our Specifications on our Features opposite for more information on this range.

# PrO-Road Centrifuges

User features to PrO-Road series	Advantages
Bright blue LED display	Clarity & ease of use
Rotor recognition	Safe selection of rotors
10 accelerations rates & 10 deceleration rates	Sample assistance
10 program memory	Multi department & Users
Timer 0-99 minutes & Hold in 30 second increments	Total flexibility
Pulse short run	Fast pelleting
Run in speed (rpm) or rcf (G) in 10 rpm increments	Accuracy
Sound <60db (rotor dependent)	Quiet
Orientation acceleration rate Prevents initial sample side deposits	

Standard to PrO-Road series	Advantages
Extra thick stainless steel bowl	Easy clean & rust free
Port to lid	Tachometer speed certification
Alloy & steel frame (zinc coated)	Strong light & quiet
World leading industrial grade inverter	Reliability & strength
Best quality European brushless motor	Quiet, cool & reliable
High technology airflow (ambient mode)	Cooler running
All centrifuges have user accessible service sections to access all safety parameters	

Safety features to PrO-Road series	Advantages
Multi point lid locking	Lid safety
Emergency lid release	Power failure release
Lid Spring	Strut Lid dropping safety
Lid lock detection	To run, lid must be shut
Imbalance detection	Eradicates user loading errors
Overspeed sensor	Safe detection of speed
Set inverter values	Electronic safety of speed
Barrier ring	Extra metal protection of chamber
Motor overheat sensor	Safe motor protection

Centurion Scientific Ltd Centrifuges comply to all relevant EU standards of quality and medical devices IEC 61010 and CE conformity test marks emission, immunity to EN/IEC 61326-1, Class B

Page 4 PrO-RoadRTL5 and PrO-RoadRTL5R Centrifuges

Page 5 Rotors available. 4 place Swing out or Fixed angle

Page 6 PrO-Road7

Page 7 Package supplied and other available items

PrO-RoadRTL5

(230V 50/60Hz)

1.PrO-RoadRTL5

(110V 60Hz)



Display indicative only

Speed	500-6000 Rpm (10 Rpm steps)
Rcf max	4,800 G
Timer	0-99 Mins & hold (30 Sec steps)
Dimensions	HWD 310 x 400 x 500mm
Weight	31.6 Kg (without rotor)
Power	300 watts
Accel rates	10
Decel rates	10

PrO-RoadRTL5R (230V 50/60Hz)

1.PrO-RoadRTL5R (110V 60Hz)

2.PrO-RoadRTL5R (230V 60Hz)



Display indicative only

Speed	500-6000 Rpm (10 Rpm steps)
Rcf max	4,800 G
Timer	0-99 Mins & hold (30 Sec steps)
Dimensions	HWD 315 x 450 x 635mm
Weight	62.2 Kg (without rotor)
Power	690 watts
Memory	10 programs
Accel rates	10
Decel rates	10
Temp	-9 to +40°C PID controlled to +/- 1°C

# PrO-RoadRTL5/R Available Rotors

Fixed Angle  
Included



Optional extra  
Swing out



Optional extra  
Fixed Angle



Rotors	BRK5308	BRK5510	BRK5100
		Complete with buckets available	
Rotor type	8 x 50ml	4 x 250ml	6 x 100ml
Tube size max	30 x 120mm	45 x 110mm	45 x 125mm
Minimum Speed Rpm	500	500	500
Maximum Speed Rpm	6,000	4,000	6,000
Maximum Rcf (G)	4,800	2,600	4,800
Radius max cms	12	14.6	12
Sample tube angle (°)	30	0	30
Acceleration time (secs)	35	30	35
Deceleration time (secs)	35	30	35
Autoclavable (frequency)	121°C (10)	121°C (10)	121°C (10)

PrO-RoadRTL7

(230V 50/60Hz)

1.PrO-RoadRTL7

(110V 60Hz)



Display indicative only

Speed	500-6000 Rpm (10 Rpm steps)
Rcf max	3,800 G
Timer	0-99 Mins & hold (30 Sec steps)
Dimensions	HWD 275 x 325 x 470mm
Weight	21.8 Kg (without rotor)
Power	160 watts
Memory	10 programs
Accel rates	10
Decel rates	10

Fixed Angle

Included



Swing Out



Adaptors required see page 7  
**Optional extra**  
Sealed lids available set 4  
Part Nos 5419

Rotor	BRK5406	BRK5505
Rotor type (ml)	6 x 50	4 x 100
Tube size max (mm)	30 x 120	45 x 100
Minimum speed (Rpm)	500	500
Maximum speed (Rpm)	6,000	4,000
Maximum RCF (G)	3800	2200
Radius max (mm)	9	12.3
Sample tube angle (°)	30	0
Acceleration time (secs)	25	30
Deceleration time (secs)	25	30
Autoclavable (frequency)	121°c (20)	121°c (20)

## Adaptor Chart

### Adaptors for Swing out rotors

Tube type      Shape      Capacity      Size



Plain No cap	round	25ml	24x100
Plain No cap	round	50ml	34x100
Plain No cap	round	100ml	45x100
Plain No cap	round	150ml	52x100
Plain No cap	round	250ml	62x100



Falcon with cap	point	50ml	29x115
Falcon with cap	point	175ml	61x118
Falcon with cap	square	25ml	25x90
Falcon with cap	square	30ml	25x110
Falcon with cap	square	50ml	29x115



Nalgene/Oakridge	round	30ml	26x95
Nalgene/Oakridge	round	50ml	29x107
Nalgene/Oakridge	round	85ml	38x106
Nalgene/Oakridge*	flat	250ml	62x130

### Adaptors

To fit rotor BRK550S

Part nos      Nos of tubes  
per rotor

AR525*	8
AR550*	4
AR5100*	4
N/A	N/A
N/A	N/A

AF550*	4
N/A	N/A
AFS525	4
AFS530	4
AFS550	4

AN0530*	4
AN0550	4
AN0585	4
N/A	

### Adaptors

To fit rotor BRK5510

Needs buckets  
Part nos      Nos of tubes  
per rotor

AR625	12
AR650	4
AR6100	4
AR6150	4
BUCKET	4

AF650*	4
AF6175*	4
AFS625*	8
AFS630	8
AFS650	4

ANO630	4
ANO650	4
ANO685	4
Buckets 5250	4

Note:- We cannot be held responsible if the tube manufacturers change design and/or size of the tube.

\*Limited capacity with sealed bucket lids (B5419 and B5319).



If you cannot find the Adaptors required here, please contact us.  
As manufacturer we can machine accordingly.

## Reducers

Set of 4



Rotor	BRK5406	BRK5308
Part number (15ml)	RM15 (15ml)	RM15
Tube size max	17 x 120mm	17 x 120mm
Part number	RM25 (25ml)	RM25 (25ml)
Tube size max	25 x 100mm	25 x 100mm



All Centrifuges are complete with ONE fixed angle rotor.  
Reducers available please call.  
Swing out rotors, buckets and adaptors are extra.