

# PrO-ASTM Centrifuges

Oil testing. Petroleum testing, ASTM methods

## Sales Literature 2016 <sup>(2)</sup>

230 Volt 50/60Hz and 110V 60Hz

27 years of  
Excellence

By

**CENTURION**  
SCIENTIFIC LIMITED

*"Making Science Look Good"*

# Contact us:

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# ASTM Analysis

The following Centrifuges are ALL heated types from Ambient to 90C

## Centurion Scientific Ltd, (Manufacturers of Centrifuges for 27 years)

Are offering a range unsurpassed in the market place, derived from our vast range of Centrifuges and knowledge.

### Choice Available to all models

Basic LED with button selection.  
PREMIUM 155 mm LCD touch screen format

### True Flexibility

#### Bench

**Bench with Trolley**, saving precious bench space, yet it can fit under the Bench

**Floor standing combined unit**, mobility in your Laboratory , can be used on any level strong surface, move anywhere, (lockable castors) or under the Bench too.

### Methodologies

ASTM D1290, ASTM D1796, ASTM D1966, ASTM D2273, ASTM D2709, ASTM D2711,  
ASTM D4007, ASTM D5546, ASTM D893, ASTM D91, ASTM D96

FTM 791, Methods 3000, 3003, 3004,, 3101, 3121,5661.  
API 2542, 2548

ISO 3734, ISO 9030

DIN 51793 NF M 07-020

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## PrO-ASTM Centrifuges



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CE marked and ISO 9001 regulator and now IVD certified too

### User features to PrO-ASTM

- Large LCD display with touch screen control
- Rotor Recognition
- 10 Accelerations rates, 10 deceleration rates
- 108 program memory (12 pages of 9)
- Timer 0-9999 minutes & hold in 30 second increments
- Pulse short run
- Run in speed (rpm) or rcf (G) in 10 rpm increments
- Sound <60db (rotor dependent)
- Orientation acceleration rate

### Advantages

- Clarity & ease of use
- Safe selection of rotors
- Sample assistance
- Multi department & users
- Total flexibility
- Fast pelleting
- Accuracy
- Quiet
- Prevents initial sample side deposits

### Standard to PrO-ASTM

- Extra thick stainless steel bowl
- Port to Lid
- Alloy & steel frame (zinc coated)
- World leading industrial grade inverter
- Best quality European brushless motor
- High technology airflow (ambient mode)
- All centrifuges have user accesible service sections to access all saftey parameters

### Advantages

- Easy clean & rust free
- Tachometer speed certification
- Strong light & quiet
- Reliability & strength
- Quiet, cool & reliable
- Cooler running

### Saftey features to PrO-ASTM

- Multi point lid locking
- Emergency lid release
- Lid Spring Strut
- Lid lock detection
- Imbalance detection
- Overspeed sensor
- Set inverter values
- Barrier ring
- Motor overheat sensor

### Advantages

- Lid safety
- Power failure release
- Lid dropping safety
- To run, lid must be shut
- Eradicates user loading errors
- Safe detection of speed
- Electronic safety of speed
- Extra metal protection of chamber
- 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

# ASTM Bench Centrifuge or ASTM Bench Centrifuge with Trolley

## True Flexibility

## Available accessory

### User features to Trolley Standing Centrifuge

Floor standing  
Yet under bench fit, only 71cm high

Gives an easy Loading height

Secure Locking castors

Strong design, with safe retention lip

### Advantages

Saves precious bench space  
Flexible area use

Ease of Ergonomics  
For tube loading

Portable, easily moved  
Safely

Gives safe & Quiet use

## Available for both LED and LCD models





# PrO-ASTM BC (230V.50/60Hz) 1.PrO-ASTM BC (110V 60Hz)

## Bench Model

|                         |                                      |
|-------------------------|--------------------------------------|
| Speed.....              | 500-4,000 Rpm<br>(1 Rpm steps)       |
| Rcf Max.....            | 3,800 G                              |
| Timer .....             | 0-9,999 Mins & Hold<br>(1 sec steps) |
| Dimensions.....         | HWD 375 x 630 x 630mm                |
| Weight.....             | 70 Kg (without rotor)                |
| Power.....              | 900 Watts                            |
| Memory.....             | 108 programs                         |
| Accel rates.....        | 10 programs                          |
| Decel rates.....        | 10 programs                          |
| Temp.....               | Ambient - 90°C                       |
| PID Controlled to + / - | 1°C (40 - 90)                        |



Display indicative only

## Bench with trolley

Trolley available

Part number: XMFS

Total height 71 Cm



# ASTM Swing out rotor, buckets & accessories



## BRK3020 Swing out rotor

Shown with B2020 Buckets  
(Required) Set 4

Adaptors and rubber support  
required see right.

|                          |                |
|--------------------------|----------------|
| <b>Tube Length Max</b>   | 205mm          |
| <b>Minimum Speed</b>     | 500 Rpm        |
| <b>Maximum Speed</b>     | 4000 Rpm       |
| <b>Radius Max</b>        | 21.5cm         |
| <b>Tube Angle</b>        | 0 degree       |
| <b>Accel/Decell Time</b> | 45 Seconds max |

### Adaptor Polypropylene

ASTM58-1 Pack of 4  
One tube per adaptor total 4

### Rubber Support

RS58 Pack of 4



Pear

58 x 158mm

### Adaptor Polypropylene

ASTM37-1 Pack of 4  
One tube per adaptor total 4

### Rubber support

RS37 Pack of 4



Long

37 x 203mm

### Adaptor Polypropylene

ASTM44-1 Pack of 4  
One tube per adaptor total 4  
ASTM44-2 Pack of 4  
Two tubes per adaptor total 8

### Rubber support

RS44 Pack of 4



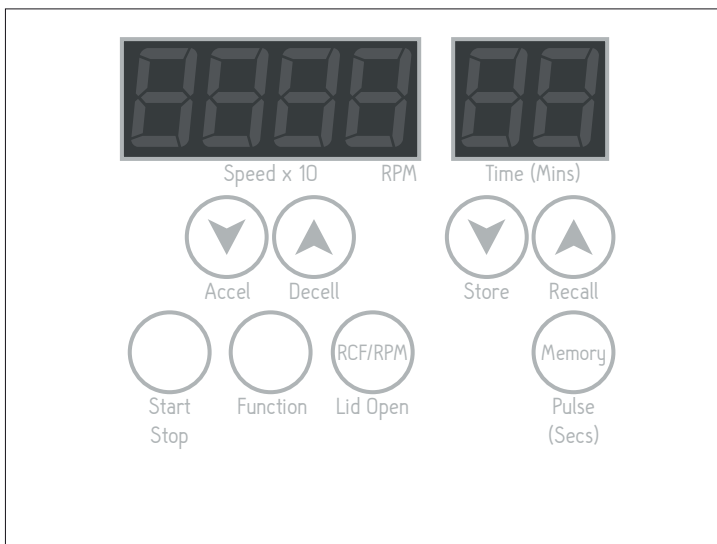
Short

44 x 166mm

**Other tubes available. Please call.**

# Centurion Scientific Ltd

## PrO-ASTM Centrifuges



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No compromises on quality only the best components are used in the manufacturing process.

By working with all our suppliers, our reliability has been retained and improved to give all our range a 3 year warranty as standard.



CE marked and ISO 9001 regulator and now IVD certified too

| User features to PrO-ASTM 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-ASTM 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 accesible service sections to access all saftey parameters |                                       |
| Saftey features to PrO-ASTM 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



# ASTM Bench Centrifuge or ASTM Bench Centrifuge with Trolley

## True Flexibility

## Available accessory

### User features to Floor Standing Centrifuge

Floor standing  
Yet under bench fit, only 71cm high

Gives an easy Loading height

Secure Locking castors

Strong design, with safe retention lip

### Advantages

Saves precious bench space  
Flexible area use

Ease of Ergonomics  
For tube and rotor variances

Portable, easily moved  
Safely

Gives safe & Quiet use

## Available for both LED and LCD models



# PrO-ASTM BE (230V 50/60Hz) 1.PrO-ASTM BE (110V 60Hz)



Display indicative only

## Bench Model

|                  |                                       |
|------------------|---------------------------------------|
| Speed.....       | 500-4,000 Rpm<br>(10 Rpm steps)       |
| Rcf Max.....     | 3,800 G                               |
| Timer .....      | 0-99 Mins & Hold<br>(30 sec steps)    |
| Dimensions.....  | HWD 375 x 630 x 630mm                 |
| Weight.....      | 70 Kg (without rotor)                 |
| Power.....       | 900 Watts                             |
| Memory.....      | 10 programs                           |
| Accel rates..... | 10 programs                           |
| Decel rates..... | 10 programs                           |
| Temp.....        | Ambient - 90°C                        |
|                  | PID Controlled to + / - 1°C (40 - 90) |



## Bench with trolley

Trolley available

Part number: XMFS

Total height 71 Cm

# ASTM Swing out rotor, buckets & accessories



## BRK3020 Swing out rotor

Shown with B2020 Buckets  
(Required) Set 4

Adaptors and rubber support  
required see right.

|                          |                |
|--------------------------|----------------|
| <b>Tube Length Max</b>   | 205mm          |
| <b>Minimum Speed</b>     | 500 Rpm        |
| <b>Maximum Speed</b>     | 4000 Rpm       |
| <b>Radius Max</b>        | 21.5cm         |
| <b>Tube Angle</b>        | 0 degree       |
| <b>Accel/Decell Time</b> | 45 Seconds max |

### Adaptor Polypropylene

ASTM58-1 Pack of 4  
One tube per adaptor total 4

### Rubber Support

RS58 Pack of 4



Pear

58 x 158mm

### Adaptor Polypropylene

ASTM37-1 Pack of 4  
One tube per adaptor total 4

### Rubber support

RS37 Pack of 4



Long

37 x 203mm

### Adaptor Polypropylene

ASTM44-1 Pack of 4  
One tube per adaptor total 4  
ASTM44-2 Pack of 4  
Two tubes per adaptor total 8

### Rubber support

RS44 Pack of 4



Short

44 x 166mm

**Other tubes available. Please call.**

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CE marked and ISO 9001 regulator and now IVD certified too

| User features to PrO-ASTM                          | Advantages                            |
|----------------------------------------------------|---------------------------------------|
| Large LCD display with touch screen control        | Clarity & ease of use                 |
| Rotor Recognition                                  | Safe selection of rotors              |
| 10 Accelerations rates, 10 deceleration rates      | Sample assistance                     |
| 108 program memory (12 pages of 9)                 | Multi department & users              |
| Timer 0-9999 minutes & hold in 1 second increments | Total flexibility                     |
| Pulse short run                                    | Fast pelleting                        |
| Run in speed (rpm) or rcf (G) in 1 rpm increments  | Accuracy                              |
| W2t plots tim, accel rpm and decel                 | True sample repeatability             |
| Sound <60db (rotor dependent)                      | Quiet                                 |
| Orientation acceleration rate                      | Prevents initial sample side deposits |

| Standard to PrO-ASTM                                                                 | 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 accesible service sections to access all saftey parameters |                                |

| Saftey features to PrO-ASTM | 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             |

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# Floor Standing Centrifuge

## True Flexibility

### User features to Floor Standing Centrifuge

Floor standing  
Yet under bench fit, only 71cm high

Smaller footprint than Bench model

Gives an easy Loading height

Secure Locking castors

### Advantages

Saves precious bench space  
Flexible area use

Space saving

Ease of Ergonomics  
For tube and rotor loading

Portable, easily moved around  
Safety

Available in both LCD and LED models





# PrO-ASTM FSC (230V 50/60Hz) 1.PrO-ASTM FSC (110V 60Hz)



Display indicative only

|                         |                                      |
|-------------------------|--------------------------------------|
| Speed.....              | 500-4,000 Rpm<br>(1 Rpm steps)       |
| Timer .....             | 0-9,999 Mins & Hold<br>(1 sec steps) |
| Dimensions.....         | HWD 710 x 630 x 630mm                |
| Weight.....             | 82 Kg (without rotor)                |
| Power.....              | 900 Watts                            |
| Memory.....             | 108 programs                         |
| Accel rates.....        | 10 programs                          |
| Decel rates.....        | 10 programs                          |
| Temp.....               | Ambient - 90°C                       |
| PID Controlled to + / - | 1°C (40 - 90)                        |

# ASTM Swing out rotor, buckets & accessories



## BRK3020 Swing out rotor

Shown with B2020 Buckets  
(Required) Set 4

Adaptors and rubber support  
required see right.

|                          |                |
|--------------------------|----------------|
| <b>Tube Length Max</b>   | 205mm          |
| <b>Minimum Speed</b>     | 500 Rpm        |
| <b>Maximum Speed</b>     | 4000 Rpm       |
| <b>Radius Max</b>        | 21.5cm         |
| <b>Tube Angle</b>        | 0 degree       |
| <b>Accel/Decell Time</b> | 45 Seconds max |

### Adaptor Polypropylene

ASTM58-1 Pack of 4  
One tube per adaptor total 4

### Rubber Support

RS58 Pack of 4



Pear

58 x 158mm

### Adaptor Polypropylene

ASTM37-1 Pack of 4  
One tube per adaptor total 4

### Rubber support

RS37 Pack of 4



Long

37 x 203mm

### Adaptor Polypropylene

ASTM44-1 Pack of 4  
One tube per adaptor total 4  
ASTM44-2 Pack of 4  
Two tubes per adaptor total 8

### Rubber support

RS44 Pack of 4



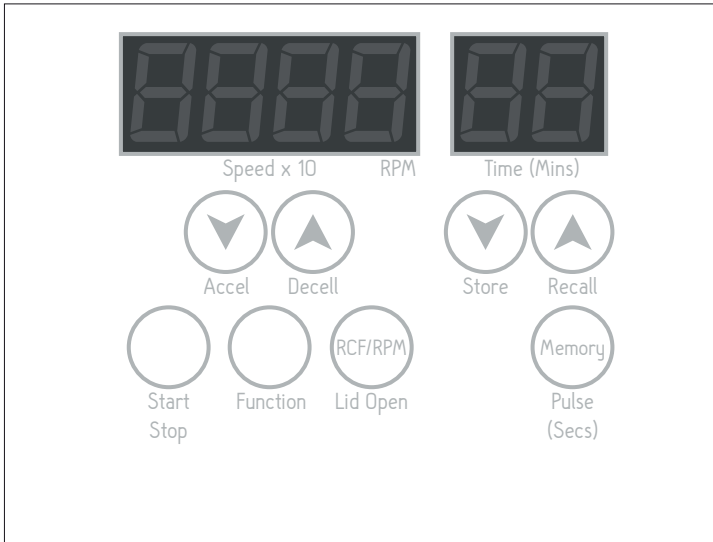
Short

44 x 166mm

**Other tubes available. Please call.**

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| User features to PrO-ASTM 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-ASTM 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-ASTM 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             |

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# Floor Standing Centrifuge

## True Flexibility

### User features to Floor Standing Centrifuge

Floor standing  
Yet under bench fit, only 71cm high

Smaller footprint than Bench model

Gives an easy Loading height

Secure Locking castors

### Advantages

Saves precious bench space  
Flexible area use

Space saving

Ease of Ergonomics  
For tube and rotor loading

Portable, easily moved around  
Safety

Available in both LCD and LED models



# PrO-ASTM FSE (230V 50/60Hz) 1.PrO-ASTM FSE (110V 60Hz)



Display indicative only

- Speed..... 500-4,000 Rpm  
[10 Rpm steps]
- Timer ..... 0-99 Mins & Hold  
[30 sec steps]
- Dimensions..... HWD 710 x 630 x 630mm
- Weight..... 82 Kg (without rotor)
- Power..... 900 Watts
- Memory..... 10 programs
- Accel rates..... 10 programs
- Decel rates..... 10 programs
- Temp..... Ambient - 90°C  
PID Controlled to + / - 1°C (40 - 90)



# ASTM Swing out rotor, buckets & accessories



## BRK3020 Swing out rotor

Shown with B2020 Buckets  
(Required) Set 4

Adaptors and rubber support  
required see right.

|                          |                |
|--------------------------|----------------|
| <b>Tube Length Max</b>   | 205mm          |
| <b>Minimum Speed</b>     | 500 Rpm        |
| <b>Maximum Speed</b>     | 4000 Rpm       |
| <b>Radius Max</b>        | 21.5cm         |
| <b>Tube Angle</b>        | 0 degree       |
| <b>Accel/Decell Time</b> | 45 Seconds max |

### Adaptor Polypropylene

ASTM58-1 Pack of 4  
One tube per adaptor total 4

### Rubber Support

RS58 Pack of 4



Pear

58 x 158mm

### Adaptor Polypropylene

ASTM37-1 Pack of 4  
One tube per adaptor total 4

### Rubber support

RS37 Pack of 4



Long

37 x 203mm

### Adaptor Polypropylene

ASTM44-1 Pack of 4  
One tube per adaptor total 4  
ASTM44-2 Pack of 4  
Two tubes per adaptor total 8

### Rubber support

RS44 Pack of 4



Short

44 x 166mm

**Other tubes available. Please call.**



### Head Office

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**Sales:** [sales@centurionscientific.co.uk](mailto:sales@centurionscientific.co.uk)

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