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Unit of measure | Symbol
--- | ---
Each | Ea
Box | Bx
Bone Cements
SMARTSET™ Bone Cements
(Non-antibiotic)

SMARTSET MV ENDURANCE™

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Description</th>
<th>Set Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>3102020</td>
<td>SMARTSET MV ENDURANCE Bone Cement, 20g</td>
<td>10/Bx</td>
</tr>
<tr>
<td>3102040</td>
<td>SMARTSET MV ENDURANCE Bone Cement, 40g</td>
<td>10/Bx</td>
</tr>
</tbody>
</table>

Features
- A methyl methacrylate/styrene copolymer medium viscosity bone cement
- **Setting time:** approximately 16½ minutes at 19°C (66°F)*
- Gamma radiation sterilised powder
- Formally known as ENDURANCE, this cement has been available since 1995

SMARTSET HV

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Description</th>
<th>Set Qty</th>
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</thead>
<tbody>
<tr>
<td>3092020</td>
<td>SMARTSET HV Bone Cement, 20g</td>
<td>10/Bx</td>
</tr>
<tr>
<td>3092040</td>
<td>SMARTSET HV Bone Cement, 40g</td>
<td>10/Bx</td>
</tr>
</tbody>
</table>

Features
- A methyl acrylate/methyl methacrylate copolymer high viscosity bone cement
- **Setting time:** approximately 13½ minutes at 19°C (66°F)*
- Powder sterilised by ethylene oxide
- Available since 2003

*The setting times displayed are with digital (manual) mixing. Please note that mixing under vacuum will accelerate these times.*
SMARTSET Bone Cements
(Antibiotic)

SMARTSET GMV
ENDURANCE
GENTAMICIN

Features
- A methyl methacrylate/styrene copolymer medium viscosity bone cement
- Setting time: approximately 16½ minutes at 19°C (66°F)*
- Gamma radiation sterilised powder
- Formally known as ENDURANCE GENTAMICIN, this cement has been available since 1997
- Contains 1g of GENTAMICIN base (active) per 40g pack

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Description</th>
<th>Set Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>3105040</td>
<td>SMARTSET GMV ENDURANCE GENTAMICIN Bone Cement, 40g</td>
<td>10/8x</td>
</tr>
</tbody>
</table>

SMARTSET GHV
GENTAMICIN

Features
- A methyl acrylate/methyl methacrylate copolymer high viscosity bone cement
- Setting time: approximately 14½ minutes at 19°C (66°F)*
- Powder sterilised by ethylene oxide
- Available since 2003
- Contains 0.5g of GENTAMICIN base (active) per 20g pack
- Contains 1g of GENTAMICIN base (active) per 40g pack

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Description</th>
<th>Set Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>3095020</td>
<td>SMARTSET GHV GENTAMICIN Bone Cement, 20g</td>
<td>10/8x</td>
</tr>
<tr>
<td>3095040</td>
<td>SMARTSET GHV GENTAMICIN Bone Cement, 40g</td>
<td>10/8x</td>
</tr>
</tbody>
</table>

*The setting times displayed are with digital (manual) mixing. Please note that mixing under vacuum will accelerate these times.
Heritage Bone Cements
(Non-antibiotic)

DePuy CMW™ 1

Features
• A Polymethyl Methacrylate high viscosity bone cement
• High viscosity handling characteristics
• Setting time: approximately 12½ minutes at 19°C (66°F)*
• Gamma radiation sterilised powder
• Clinical heritage dates back to Sir John Charnley's first use of acrylic cement in hip arthroplasty in 1958

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Description</th>
<th>Set Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>3312020</td>
<td>DePuy CMW 1 Bone Cement, 20g</td>
<td>10/8x</td>
</tr>
<tr>
<td>3312040</td>
<td>DePuy CMW 1 Bone Cement, 40g</td>
<td>10/8x</td>
</tr>
</tbody>
</table>

DePuy CMW 2

Features
• A Polymethyl Methacrylate high viscosity bone cement
• High viscosity handling characteristics
• Setting time: approximately 6½ minutes at 19°C (66°F)*
• Fast setting
• Gamma radiation sterilised powder

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Description</th>
<th>Set Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>3322020</td>
<td>DePuy CMW 2 Bone Cement, 20g</td>
<td>10/8x</td>
</tr>
<tr>
<td>3322040</td>
<td>DePuy CMW 2 Bone Cement, 40g</td>
<td>10/8x</td>
</tr>
</tbody>
</table>

DePuy CMW 3

Features
• A Polymethyl Methacrylate medium viscosity bone cement
• Medium viscosity handling characteristics
• Setting time: approximately 12½ minutes at 19°C (66°F)*
• Gamma radiation sterilised powder

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Description</th>
<th>Set Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>3332020</td>
<td>DePuy CMW 3 Bone Cement, 20g</td>
<td>10/8x</td>
</tr>
<tr>
<td>3332040</td>
<td>DePuy CMW 3 Bone Cement, 40g</td>
<td>10/8x</td>
</tr>
</tbody>
</table>

*The setting times displayed are with digital (manual) mixing. Please note that mixing under vacuum will accelerate these times.
Heritage Bone Cements
(Antibiotic)

DePuy CMW 1 GENTAMICIN

Features
- A Polymethyl Methacrylate high viscosity bone cement
- High viscosity handling characteristics
- **Setting time:** approximately 12½ minutes at 19˚C (66˚F)*
- Gamma radiation sterilised powder
- Contains 0.5g of GENTAMICIN base (active) per 20g pack
- Contains 1g of GENTAMICIN base (active) per 40g pack

DePuy CMW 2 GENTAMICIN

Features
- A Polymethyl Methacrylate high viscosity bone cement
- High viscosity handling characteristics
- **Setting time:** approximately 6½ minutes at 19˚C (66˚F)*
- Fast setting
- Gamma radiation sterilised powder
- Contains 0.5g of GENTAMICIN base (active) per 20g pack
- Contains 1g of GENTAMICIN base (active) per 40g pack

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*The setting times displayed are with digital (manual) mixing. Please note that mixing under vacuum will accelerate these times.*
Heritage Bone Cements
(Antibiotic)

Features
- Polymethyl Methacrylate medium viscosity bone cement
- Medium viscosity handling characteristics
- Setting time: approximately 12½ minutes at 19°C (66°F)*
- Gamma radiation sterilised powder
- Contains 0.5g of GENTAMICIN base (active) per 20g pack
- Contains 1g of GENTAMICIN base (active) per 40g pack

*The setting times displayed are with digital (manual) mixing. Please note that mixing under vacuum will accelerate these times.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Description</th>
<th>Set Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>3335020</td>
<td>DePuy CMW 3 GENTAMICIN Bone Cement, 20g</td>
<td>10/8x</td>
</tr>
<tr>
<td>3335040</td>
<td>DePuy CMW 3 GENTAMICIN Bone Cement, 40g</td>
<td>10/8x</td>
</tr>
</tbody>
</table>
Mixing Systems
Bowl Mixing Systems

Open Mixing Bowl

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Description</th>
<th>Set Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>5401380000</td>
<td>Open Mixing Bowl</td>
<td>30/Bx</td>
</tr>
</tbody>
</table>

Optional Accessories:

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Description</th>
<th>Set Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>3201010</td>
<td>Syringe Kit</td>
<td>10/Bx</td>
</tr>
<tr>
<td>3210003</td>
<td>CMW MK III Cement Gun</td>
<td>1/Ea</td>
</tr>
</tbody>
</table>

Features

- Designed to mix all bone cement viscosities
- Contoured spatula is designed to increase contact between the spatula and the bowl
- Pouring spout for medium viscosity bone cement
- Holds two 40g packs of bone cement
- Angled ribs on the bowl and the spatula handle design provide comfort and grip
- If cement is to be subsequently syringed, the syringe kit (3201010) can be used

SMARTMIX® Bowl

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Description</th>
<th>Set Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>5401800000</td>
<td>SMARTMIX Bowl</td>
<td>10/Bx</td>
</tr>
</tbody>
</table>

Additional Products required:

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Description</th>
<th>Set Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>3210026</td>
<td>SMARTMIX CEMVAC™ Dual Vacuum Foot Pump + Air Hose</td>
<td>1/Ea</td>
</tr>
</tbody>
</table>

Optional Accessories:

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Description</th>
<th>Set Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>3201010</td>
<td>Syringe Kit</td>
<td>10/Bx</td>
</tr>
<tr>
<td>3210035</td>
<td>Airhose for Vacuum Foot Pump (Round Connector)</td>
<td>1/Ea</td>
</tr>
<tr>
<td>3210036</td>
<td>Airhose for Vacuum Foot Pump (Square Connector) for non-UK markets</td>
<td>1/Ea</td>
</tr>
<tr>
<td>3210003</td>
<td>CMW MK III Cement Gun</td>
<td>1/Ea</td>
</tr>
</tbody>
</table>

Features

- Bowl for mixing low, medium and high viscosity cements under vacuum
- Ratchet driven reciprocated paddle designed to ensure a reliable mix
- Handle provides a secure grip and ease of mixing
- Contoured ergonomic spatula for ease of mixing and cement collection
- Holds up to three 40g packs of bone cement
- To be used with the SMARTMIX CEMVAC Dual Vacuum Foot Pump + Air Hose (3210026)
- If cement is to be subsequently syringed, the syringe kit (3201010) can be used

Syringe Kit

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Description</th>
<th>Set Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>3201010</td>
<td>Syringe Kit</td>
<td>10/Bx</td>
</tr>
</tbody>
</table>

Additional Products required:

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Description</th>
<th>Set Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>3210003</td>
<td>CMW MK III Cement Gun</td>
<td>1/Ea</td>
</tr>
</tbody>
</table>

Features

- Syringe for delivery of bone cement into the cavity following mixing in a suitable mixing device
CEMVAC™ Mixing Systems

Features

- Vacuum mixing syringe system for mixing cements under vacuum and for direct delivery of cement into the bone cavity
- Can mix up to two 40g packs of bone cement
- High vacuum delivers low monomer fumes and reduced cement porosity
- Suitable for use with:
  - CEMVAC 1 Piece Gun (831205)
  - SMARTMIX CEMVAC Dual Vacuum Foot Pump + Air Hose (3210026)
  - Syringe Holder (831202)
  - Nozzle Cutter (3210016)
- Accessory nozzles are also available for specific surgical procedures:
  - Revision Nozzle 8.5 mm (831230)
  - Revision Nozzle 6.5 mm (831231)
  - Tibial Bone Applicator (831235)

Optional Accessories:

- Revision Nozzle (6.5 mm) 5/Bx
- Revision Nozzle (8.5 mm) 5/Bx
- Tibial Bone Applicator 5/Bx
- Airhose for Vacuum Foot Pump (Round Connector) 1/Ea
- Airhose for Vacuum Foot Pump (Square Connector) for non-UK markets 1/Ea

Standard CEMVAC Syringe

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Description</th>
<th>Set Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>831215</td>
<td>Standard CEMVAC Syringe (Single)</td>
<td>10x2/Bx</td>
</tr>
<tr>
<td>831220</td>
<td>Standard CEMVAC Syringe (Double)</td>
<td>10x2/Bx</td>
</tr>
</tbody>
</table>

Additional Products required:

- CEMVAC 1 Piece Gun 1/Ea
- SMARTMIX CEMVAC Dual Vacuum Foot Pump + Air Hose 1/Ea
- Syringe Holder 1/Ea
- Nozzle Cutter 1/Ea

Additional Products:

- CEMVAC 1 Piece Gun (831205)
- SMARTMIX CEMVAC Dual Vacuum Foot Pump + Air Hose (3210026)
- Syringe Holder (831202)
- Nozzle Cutter (3210016)
- Revision Nozzle 8.5 mm (831230)
- Revision Nozzle 6.5 mm (831231)
- Tibial Bone Applicator (831235)
SMARTMIX® CEMVAC Mixing Systems
(Empty)

SMARTMIX CEMVAC

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Description</th>
<th>Set Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>831615</td>
<td>SMARTMIX CEMVAC (Empty)</td>
<td>10/Bx</td>
</tr>
</tbody>
</table>

Additional Products required:

<table>
<thead>
<tr>
<th>Cat No.</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>831603</td>
<td>SMARTMIX CEMVAC Gun</td>
<td>1/Ea</td>
</tr>
<tr>
<td>3210026</td>
<td>SMARTMIX CEMVAC Dual Vacuum Foot Pump + Air Hose</td>
<td>1/Ea</td>
</tr>
</tbody>
</table>

Optional Accessories:

<table>
<thead>
<tr>
<th>Cat No.</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>831230</td>
<td>Revision Nozzle (8.5 mm)</td>
<td>5/Bx</td>
</tr>
<tr>
<td>831231</td>
<td>Revision Nozzle (6.5 mm)</td>
<td>5/Bx</td>
</tr>
<tr>
<td>831235</td>
<td>Tibial Bone Applicator</td>
<td>5/Bx</td>
</tr>
<tr>
<td>3210035</td>
<td>Airhose for Vacuum Foot Pump (Round Connector)</td>
<td>1/Ea</td>
</tr>
<tr>
<td>3210036</td>
<td>Airhose for Vacuum Foot Pump (Square Connector)</td>
<td>1/Ea</td>
</tr>
</tbody>
</table>

Features

- Vacuum mixing syringe system for mixing cements under vacuum and for direct delivery of cement into the bone cavity
- Can mix up to 100g (as powder) of bone cement
- High vacuum delivers low monomer fumes and reduced cement porosity⁴
- Disposable base
- Break-off nozzle in two positions
- Integrated nozzle clip
- Large funnel for cement loading
- Suitable for use with:
  - SMARTMIX CEMVAC Gun (831603)
  - SMARTMIX CEMVAC Dual Vacuum Foot Pump + Air Hose (3210026)
- Accessory nozzles are also available for specific surgical procedures:
  - Revision Nozzle 8.5 mm (831230)
  - Revision Nozzle 6.5 mm (831231)
  - Tibial Bone Applicator (831235)
SMARTMIX CEMVAC Mixing Systems
(Pre-filled)

Features
• Combination of mixing system and cement.
• Supplied with powder prefilled in the syringe.
• Available with both HV and GHV Cements.
• Effective vacuum mixing of up to 80g of bone cement.
• High Vacuum delivers low monomer fumes and reduced cement porosity. 4
• Reduces the mass of glass introduced into the bone cement. 5
• Two predetermined breakpoints on the cartridge nozzle.
• Disposable cartridge stand
• Integrated nozzle clip
• Suitable for use with:
  – SMARTMIX CEMVAC Gun (831603)
  – SMARTMIX CEMVAC Dual Vacuum Foot Pump + Air Hose (3210026)
• Accessory nozzles are also available for specific surgical procedures:
  – Revision Nozzle 8.5 mm (831230)
  – Revision Nozzle 6.5 mm (831231)
  – Tibial Bone Applicator (831235)

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Description</th>
<th>Set Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>8192060</td>
<td>SMARTMIX CEMVAC Pre-filled with SMARTSET HV Bone Cement, 60g</td>
<td>10/Bx</td>
</tr>
<tr>
<td>8192080</td>
<td>SMARTMIX CEMVAC Pre-filled with SMARTSET HV Bone Cement, 80g</td>
<td>10/Bx</td>
</tr>
<tr>
<td>8195060</td>
<td>SMARTMIX CEMVAC Pre-filled with SMARTSET GHV GENTAMICIN Bone Cement, 60g</td>
<td>10/Bx</td>
</tr>
<tr>
<td>8195080</td>
<td>SMARTMIX CEMVAC Pre-filled with SMARTSET GHV GENTAMICIN Bone Cement, 80g</td>
<td>10/Bx</td>
</tr>
</tbody>
</table>

Additional Products required:
831603 SMARTMIX CEMVAC Gun 1/Ea
3210026 SMARTMIX CEMVAC Dual Vacuum Foot Pump + Air Hose 1/Ea

Optional Accessories:
831230 Revision Nozzle (8.5 mm) 5/Bx
831231 Revision Nozzle (6.5 mm) 5/Bx
831235 Tibial Bone Applicator 5/Bx
3210035 Airhose for Vacuum Foot Pump (Round Connector) 1/Ea
3210036 Airhose for Vacuum Foot Pump (Square Connector) for non-UK markets 1/Ea
VACU-MIX™ System
(Syringe Kit – Single)

**Features**
- Syringe system for mixing cements under vacuum and for direct delivery of cement into the bone cavity
- Capable of mixing and delivering medium and high viscosity cements
- Can mix up to two 40g packs of bone cement
- Features an economiser rod which maximises volume of cement delivered during syringing
- Suitable for use with:
  - CMW MK III Cement Gun (3210003)
  - VACU-MIX Mixing Stand (3210010)
  - Nozzle Cutter (3210016)
  - VACU-MIX Low Vacuum Foot Pump + Air Hose (3210025)

**VACU-MIX Syringe Kit**

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Description</th>
<th>Set Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>3203010</td>
<td>VACU-MIX Syringe Kit – Single</td>
<td>10/Bx</td>
</tr>
</tbody>
</table>

**Additional Products required:**
- 3210003 CMW MK III Cement Gun 1/Ea
- 3210025 VACU-MIX Low Vacuum Foot Pump + Air Hose 1/Ea
- 3210010 VACU-MIX Mixing Stand 1/Ea
- 3210016 Nozzle Cutter 1/Ea
VACU-MIX Plus System
(PRE-FILLED)

Features
• Syringe system for mixing cements under vacuum and for direct delivery of cement into the bone cavity
• Medium and high viscosity cements available in the pre-filled system
• Features an economiser rod which maximises volume of cement delivered during syringing
• Powder prefilled in syringe
• Comes in two sizes (50g and 80g powder)
• Suitable for use with:
  – CMW MK III Cement Gun (3210003)
  – VACU-MIX Mixing Stand (3210010)
  – Nozzle Cutter (3210016)
  – VACU-MIX Low Vacuum Foot Pump + Air Hose (3210025)

*Product is only available for Purchase in the following:
• Hong Kong
• Japan
• Italy

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Description</th>
<th>Set Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>3003050</td>
<td>VACU-MIX Plus Pre-filled with DePuy CMW 1 GENTAMICIN Bone Cement, 50g</td>
<td>10/Bx</td>
</tr>
<tr>
<td>3003080</td>
<td>VACU-MIX Plus Pre-filled with DePuy CMW 1 GENTAMICIN Bone Cement, 80g</td>
<td>10/Bx</td>
</tr>
<tr>
<td>3005050</td>
<td>VACU-MIX Plus Pre-filled with DePuy CMW 3 GENTAMICIN Bone Cement, 50g</td>
<td>10/Bx</td>
</tr>
<tr>
<td>3005080</td>
<td>VACU-MIX Plus Pre-filled with DePuy CMW 3 GENTAMICIN Bone Cement, 80g</td>
<td>10/Bx</td>
</tr>
<tr>
<td>3002050</td>
<td>VACU-MIX Plus Pre-filled with DePuy CMW 1 Bone Cement, 50 g</td>
<td>10/Bx</td>
</tr>
<tr>
<td>2002050</td>
<td>VACU-MIX Plus Pre-filled with DePuy CMW 3 Bone Cement, 50 g</td>
<td>10/Bx</td>
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<tr>
<td>2002080</td>
<td>VACU-MIX Plus Pre-filled with DePuy CMW 3 Bone Cement, 80 g</td>
<td>10/Bx</td>
</tr>
<tr>
<td>3172050</td>
<td>VACU-MIX Plus Pre-filled with ENDURANCE Bone Cement, 50 g*</td>
<td>6/Bx</td>
</tr>
<tr>
<td>3172080</td>
<td>VACU-MIX Plus Pre-filled with ENDURANCE Bone Cement, 80 g*</td>
<td>6/Bx</td>
</tr>
</tbody>
</table>

Additional Products required:
- 3210003 CMW MK III Cement Gun 1/Ea
- 3210025 VACU-MIX Low Vacuum Foot Pump + Air Hose 1/Ea
- 3210010 VACU-MIX Mixing Stand 1/Ea
- 3210016 Nozzle Cutter 1/Ea
Mixing System
Hardware
**Mixing Systems Hardware**

**Features**
- One piece construction
- Clutch drive mechanism
- Designed for ease of cleaning
- Stainless steel construction to ensure durability especially during sterilisation
- CEMVAC 1 piece gun (831205) suitable for:
  - Standard CEMVAC single (831215) and double (831220)
- SMARTMIX CEMVAC Gun (831603) suitable for:
  - SMARTMIX CEMVAC empty (831615)
  - SMARTMIX CEMVAC Prefilled with SMARTSET GHV GENTAMICIN Bone Cement range (8192060, 8192080, 8195060 and 8195080)

**CMW MK III Cement Gun**

**Features**
- One piece construction with dual ratchet drive allowing use of the economiser rod for maximum cement delivery
- Stainless steel and aluminium construction
- For use with:
  - VACU-MIX Syringe Kit – Single (3203010)
  - VACU-MIX Plus Pre-Filled range (3003050, 3003080, 3005050, 3005080, 3002050, 3002080, 3172050, 3172080)

**Syringe Holder**

**Features**
- Stainless steel construction
- Viewing window to assist correct positioning of mixing paddle
- For use with:
  - Standard CEMVAC single (831215) and double (831220) syringes
Mixing Systems Hardware

VACU-MIX Mixing Stand

- Aluminium construction
- Designed to hold up to two liquid ampoules for convenience
- Suitable for use with:
  - VACU-MIX Syringe Kit – Single (3203010)
  - VACU-MIX Plus Pre-Filled range (3003050, 3003080, 3005050, 3005080, 3002050, 2002050, 2002080, 3172050, 3172080)

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Description</th>
<th>Set Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>3210010</td>
<td>VACU-MIX Mixing Stand</td>
<td>1/Ea</td>
</tr>
</tbody>
</table>

Nozzle Cutter

- Reusable cutter
- Stainless steel blade
- Allows nozzle to be cut at required positions
- Suitable for use with:
  - Standard CEMVAC single (831215) and double (831220)
  - VACU-MIX Syringe Kit – Single (3203010)
  - VACU-MIX Plus Pre-Filled range (3003050, 3003080, 3005050, 3005080, 3002050, 2002050, 2002080, 3172050, 3172080)

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Description</th>
<th>Set Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>3210016</td>
<td>Nozzle Cutter</td>
<td>1/Ea</td>
</tr>
</tbody>
</table>
SMARTMIX CEMVAC
Dual Vacuum Foot Pump

**Features**
- Dual pressure vacuum pump designed for use with:
  - SMARTMIX Bowl (540180000)
  - Standard CEMVAC Syringe single (831215) and double (831220)
  - SMARTMIX CEMVAC empty (831615)
  - SMARTMIX CEMVAC Pre-Filled range (8192060, 8192080, 8195060, 8195080)
- Selector switch for bowl or syringe vacuum setting
- Requires compressed inlet gas supply between 5-8 bar
- Produces a nominal vacuum of 0.66 bar (495mmHg) for Bowl setting and 0.92 bar (690mmHg) for Syringe setting
- Visible vacuum indicator
- Off/on foot switch
- Suitable for use with:
  - Airhose for Vacuum Foot Pump (Round Connector) (3210035)
  - Airhose for Vacuum Foot Pump (Square Connector) for non-UK markets (3210036)

### Cat. No. Description Set Qty

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Description</th>
<th>Set Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>3210026</td>
<td>SMARTMIX CEMVAC Dual Vacuum Foot Pump + Air Hose</td>
<td>1/Ea</td>
</tr>
<tr>
<td>3210035</td>
<td>Airhose for Vacuum Foot Pump (Round Connector)</td>
<td>1/Ea</td>
</tr>
<tr>
<td>3210036</td>
<td>Airhose for Vacuum Foot Pump (Square Connector)</td>
<td>1/Ea</td>
</tr>
</tbody>
</table>
VACU-MIX Low Vacuum Foot Pump

Features
- Single pressure vacuum pump specifically designed for use with:
  - VACU-MIX Syringe Kit – Single (3203010)
  - VACU-MIX Plus Pre-Filled range (3003050, 3003080, 3005050, 3005080, 3002050, 2002050, 2002080, 3172050, 3172080)
- Requires compressed inlet gas supply between 4-8 bar
- Produces a nominal vacuum of 0.40 bar (300mmHg)
- Simple colour indicator
- Off/on foot switch
- Durable, wipe clean surface
- Supplied with air hose

Cat. No. | Description | Set Qty
---------|-------------|---------
3210025  | VACU-MIX low vacuum foot pump + air hose | 1/Ea
Cement Accessories
Cement Pressurisers

**Acetabular T-Handle**

**Features**
- Used with acetabular pressurisers (3206045, 3206052, 3206055, 3206060, 3206065)
- Used to pressurise cement into the acetabular bone cavity

**SMARTSEAL™ Pressurisers**

**Features**
- Flexible material
- Designed to sit on the rim of the acetabulum and allow pressurisation of cement
- Gamma radiation sterilised
- Single use
- Available in 5 sizes (45 to 65 mm)

**SMARTSEAL Pressuriser, Wedge Femoral**

**Features**
- Designed for use during hip arthroplasty procedures for femoral pressurisation
- Flexible material
- Fits a variety of syringe nozzle diameters
- Gamma radiation sterilised
- Single Use

---

**Cat. No.** | **Description** | **Set Qty**
--- | --- | ---
3206022 | Acetabular T-Handle | 1/Ea

**Cat. No.** | **Description** | **Set Qty**
--- | --- | ---
3206045 | SMARTSEAL Pressurisers, Acetabular 45 mm Head | 5/Bx
3206052 | SMARTSEAL Pressurisers, Acetabular 52 mm Head | 5/Bx
3206055 | SMARTSEAL Pressurisers, Acetabular 55 mm Head | 5/Bx
3206060 | SMARTSEAL Pressurisers, Acetabular 60 mm Head | 5/Bx
3206065 | SMARTSEAL Pressurisers, Acetabular 65 mm Head | 5/Bx

**Cat. No.** | **Description** | **Set Qty**
--- | --- | ---
3206002 | SMARTSEAL Pressuriser, Wedge Femoral | 5/Bx
Cement Pressurisers

SMARTSEAL Pressuriser, Standard Femoral

Features
- Designed to assist femoral pressurisation
- Flexible material
- Gamma radiation sterilised
- Single use

Femoral Pressuriser

Features
- Shape allows two orientations to provide a choice of fit to the femoral neck opening
- Flexible material
- Gamma radiation sterilised
- Single Use

CEMVAC System Nozzles

Revision Nozzle

Features
- Suitable for use with the CEMVAC range (Standard, SMARTMIX and SMARTMIX Pre-Filled)
- Available in sizes 8.5 mm (831230) and 6.5 mm (831231)
- Securely grips the CEMVAC syringe nozzle
- Can be used to increase the nozzle length whilst allowing access into narrower cavities

Tibial Bone Applicator

Features
- Suitable for use with the CEMVAC range (Standard, SMARTMIX and SMARTMIX Pre-Filled)
- Used to assist pressurisation of cement into the tibia during knee replacement
- Attaches onto the CEMVAC Nozzle
## Cement Restrictors

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Description</th>
<th>Set Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>546020000</td>
<td>Handle/Inserter for Plastic Restrictors and Trials</td>
<td>1/Ea</td>
</tr>
<tr>
<td>546010000</td>
<td>Sized Plastic Restrictor, Size 1 (8.25 mm)</td>
<td>1/Ea</td>
</tr>
<tr>
<td>546012000</td>
<td>Sized Plastic Restrictor, Size 2 (10.75 mm)</td>
<td>1/Ea</td>
</tr>
<tr>
<td>546014000</td>
<td>Sized Plastic Restrictor, Size 3 (13.25 mm)</td>
<td>1/Ea</td>
</tr>
<tr>
<td>546016000</td>
<td>Sized Plastic Restrictor, Size 4 (15.75 mm)</td>
<td>1/Ea</td>
</tr>
<tr>
<td>546018000</td>
<td>Sized Plastic Restrictor, Size 5 (18.25 mm)</td>
<td>1/Ea</td>
</tr>
<tr>
<td>546020000</td>
<td>Sized Plastic Restrictor, Size 6 (20.75 mm)</td>
<td>1/Ea</td>
</tr>
<tr>
<td>546022000</td>
<td>Sized Plastic Restrictor, Size 7 (23.75 mm)</td>
<td>1/Ea</td>
</tr>
<tr>
<td>546030000</td>
<td>Size 1 Trial (8.25 mm)</td>
<td>1/Ea</td>
</tr>
<tr>
<td>546032000</td>
<td>Size 2 Trial (10.75 mm)</td>
<td>1/Ea</td>
</tr>
<tr>
<td>546034000</td>
<td>Size 3 Trial (13.25 mm)</td>
<td>1/Ea</td>
</tr>
<tr>
<td>546036000</td>
<td>Size 4 Trial (15.75 mm)</td>
<td>1/Ea</td>
</tr>
<tr>
<td>546038000</td>
<td>Size 5 Trial (18.25 mm)</td>
<td>1/Ea</td>
</tr>
<tr>
<td>546040000</td>
<td>Size 6 Trial (20.75 mm)</td>
<td>1/Ea</td>
</tr>
<tr>
<td>546042000</td>
<td>Size 7 Trial (23.75 mm)</td>
<td>1/Ea</td>
</tr>
</tbody>
</table>

### Features
- Designed to stop cement flow beyond the level of the restrictor and facilitates cement pressurisation into the surrounding cancellous bone
- Not resorbable
- Available in 7 sizes (8.25 mm – 23.75 mm)

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Description</th>
<th>Set Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>963203000</td>
<td>Hardinge Femoral Cement Restrictor</td>
<td>10/Bx</td>
</tr>
<tr>
<td>963204000</td>
<td>Hardinge Cement Restrictor (Single Pack)</td>
<td>1/Ea</td>
</tr>
</tbody>
</table>

### Features
- Designed to stop cement flow beyond the level of the restrictor and facilitates cement pressurisation into the surrounding cancellous bone
- Universal size for various femoral canal diameters
- Not resorbable
**Features**

- Designed to eliminate the need for cement plug removal during any future revision surgery
- Designed to stop cement flow beyond the level of the restrictor and facilitates cement pressurisation into the surrounding cancellous bone
- Restrictor is resorbed following surgery
- Restrictor is available in seven sizes in 2 mm increments (8 to 20 mm) to securely fit most anatomies
- Suitable for use with:
  - *Introducer Rod 621AT01*
  - *Sizing Trials (621AO08, 621AO10, 621AO12, 621AO14, 621AO16, 621AO18, 621AO20)*
  - *Restrictor Holder (621AI04, 621AI05, 621AI06, 621AI07)*
  - *Cursor (621AA02)*
  - *Sterilisation Tray (621AB00)*

---

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Description</th>
<th>Set Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>546308000</td>
<td>BIOSTOP G Bioresorbable Cement Restrictor, 8 mm</td>
<td>1/Ea</td>
</tr>
<tr>
<td>546310000</td>
<td>BIOSTOP G Bioresorbable Cement Restrictor, 10 mm</td>
<td>1/Ea</td>
</tr>
<tr>
<td>546312000</td>
<td>BIOSTOP G Bioresorbable Cement Restrictor, 12 mm</td>
<td>1/Ea</td>
</tr>
<tr>
<td>546314000</td>
<td>BIOSTOP G Bioresorbable Cement Restrictor, 14 mm</td>
<td>1/Ea</td>
</tr>
<tr>
<td>546316000</td>
<td>BIOSTOP G Bioresorbable Cement Restrictor, 16 mm</td>
<td>1/Ea</td>
</tr>
<tr>
<td>546318000</td>
<td>BIOSTOP G Bioresorbable Cement Restrictor, 18 mm</td>
<td>1/Ea</td>
</tr>
<tr>
<td>546320000</td>
<td>BIOSTOP G Bioresorbable Cement Restrictor, 20 mm</td>
<td>1/Ea</td>
</tr>
</tbody>
</table>
BIOSTOP G Instrument Set

Introducer Rod

Sizing Trial

Restrictor Holder

Cursor

Sterilisation Tray

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Description</th>
<th>Set Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>621AT01</td>
<td>Introducer Rod</td>
<td>1/Ea</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Description</th>
<th>Set Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>621AO08</td>
<td>Sizing Trial 08</td>
<td>1/Ea</td>
</tr>
<tr>
<td>621AO10</td>
<td>Sizing Trial 10</td>
<td>1/Ea</td>
</tr>
<tr>
<td>621AO12</td>
<td>Sizing Trial 12</td>
<td>1/Ea</td>
</tr>
<tr>
<td>621AO14</td>
<td>Sizing Trial 14</td>
<td>1/Ea</td>
</tr>
<tr>
<td>621AO16</td>
<td>Sizing Trial 16</td>
<td>1/Ea</td>
</tr>
<tr>
<td>621AO18</td>
<td>Sizing Trial 18</td>
<td>1/Ea</td>
</tr>
<tr>
<td>621AO20</td>
<td>Sizing Trial 20</td>
<td>1/Ea</td>
</tr>
</tbody>
</table>

Features
- Used to select the appropriate size of BIOSTOP G bioreabsorable cement restrictor
- Available in 7 sizes (08-20)

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Description</th>
<th>Set Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>621AI04</td>
<td>Restrictor Holder 08</td>
<td>1/Ea</td>
</tr>
<tr>
<td>621AI05</td>
<td>Restrictor Holder 10-12</td>
<td>1/Ea</td>
</tr>
<tr>
<td>621AI06</td>
<td>Restrictor Holder 14-16</td>
<td>1/Ea</td>
</tr>
<tr>
<td>621AI07</td>
<td>Restrictor Holder 18-20</td>
<td>1/Ea</td>
</tr>
</tbody>
</table>

Features
- To place the BIOSTOP G implant into the bone canal
- Available in 4 sizes (08-20)

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Description</th>
<th>Set Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>621AA02</td>
<td>Cursor</td>
<td>1/Ea</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Description</th>
<th>Set Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>621AB00</td>
<td>Sterilisation Tray</td>
<td>1/Ea</td>
</tr>
</tbody>
</table>
Features

• Convenience
  – All items are in one kit
  – Reduces inventory by ensuring the correct size is available for each case

• Cement Restrictors
  – Available in two sizes: Small fits 10.5-16 mm (546100000) canal diameters, Large fits 16.5-22.5 mm (546112000) canal diameters
  – Designed with a third fin to increase resistance to “blowout” and cement leakage beyond the restrictor
  – Compatible with existing DePuy Restrictor Placement Tool (Cat. No. 546002000)

• Universal Pressuriser (546126000)
  – Shape allows two orientations to provide a choice of fit to the femoral neck opening
  – Flexible material
  – Gamma radiation sterilised
  – Single Use

• Femoral Sponge
  – Hydrophilic
  – Debris resistant – leaves canal dry and clean

• Femoral Brush
  – Designed to minimise shedding of bristles

• Curettes
  – Honeycomb design provides secure grip
  – Two tips per instrument are included: one tip for bone cement removal; and one tip for the accurate trimming and shaping of bone cement

• Restrictor Inserter
  – Rigid – resists bending and breakage
  – 320 mm length – adequate length for revision cases
  – Graduations clearly legible
Legal Manufacturer | Product
--- | ---
DePuy Orthopaedics, Inc | Femoral Prep Kit and Restrictors
 | Sized Plastic Restrictor Range
 | Femoral Pressuriser
DePuy International Ltd | Hardinge Cement Restrictors
Summit Medical Ltd | Open Mixing Bowl
 | VACUMIX Low Vacuum Foot Pump
 | SMARTMIX CEMVAC Dual Vacuum Foot Pump
 | Airhose for Vacuum Foot Pump (Round Connector)
 | Airhose for Vacuum Foot Pump (Square Connector)

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DePuySynthes™

Johnson & Johnson Medical Limited PO BOX 1988, Simpson Parkway, Livingston, West Lothian, EH54 0AB, United Kingdom.
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