

# Powered Instruments

for large bone surgery



# powered instruments for large bone surgery

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All products in this catalogue are supported by the De Soutter Medical fully comprehensive warranty

All instruments shown in this catalogue are CE marked.

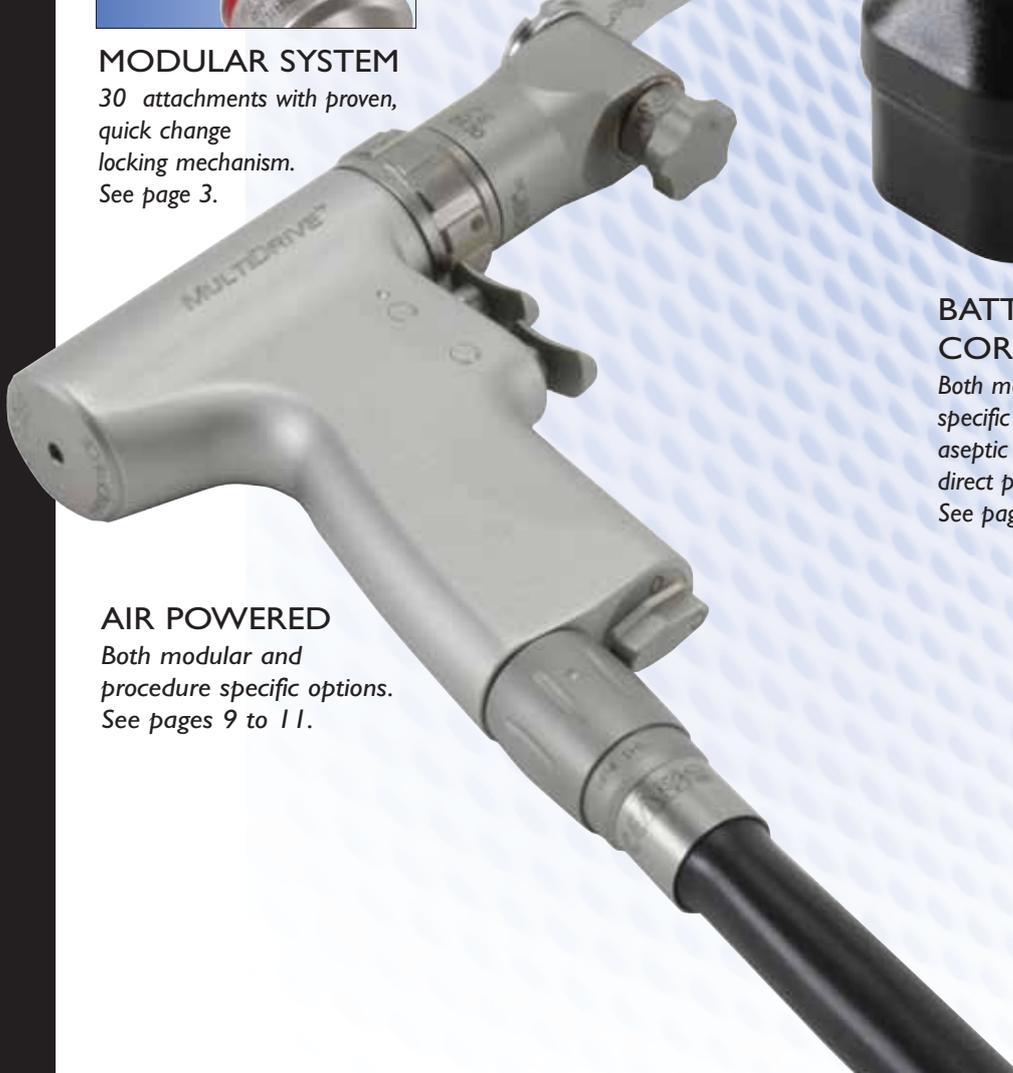
The technologically advanced De Soutter Medical large bone surgical system sets new standards for orthopaedic power tools. Enjoy the versatility of real power, compactness and lightness with a comprehensive range of quick change attachments. Be it large bone or trauma, the De Soutter Medical large bone system covers them both with precision, performance and reliability.

## The versatile large bone system



### MODULAR SYSTEM

30 attachments with proven, quick change locking mechanism.  
See page 3.



### AIR POWERED

Both modular and procedure specific options.  
See pages 9 to 11.

### BATTERY AND CORDED

Both modular and procedure specific options with battery, aseptic battery and corded direct power.  
See pages 5 to 8.

# MultiDrive™ System

## Modular handpiece and attachment system



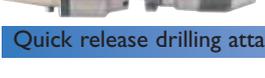
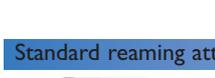
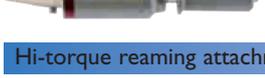
**MDX-610**

Battery or corded handpiece options. See pages 5 - 8.



**MPX-610**

Air powered handpiece. See page 9.

|   | Order Code  | Chuck Description                          | Type   | Speed rpm/cpm | Cannulation mm |
|---|---|--|--------|---------------|----------------|
| <b>Drilling attachments</b>   |   |  |        |               |                |
|    | 11710   | 0 - 6.35 mm (1/4") Jacobs                  | DX-600 | 0 - 950       | 4.1            |
|    | 11720   | 0 - 4 mm (5/32") Jacobs                    | DX-600 | 0 - 950       | 3.1            |
|    | 11860   | Hi-torque - 0 - 6.35 mm (1/4") Jacobs      | DX-600 | 0 - 500       | 4.1            |
|    | 11740   | 0 - 3.2 mm (1/8") keyless                  | DX-600 | 0 - 950       | 2.4            |
|    | 11750   | 0.8 - 6.35 mm (1/4") keyless               | DX-600 | 0 - 950       | 4.1            |
| <b>Quick release drilling attachments</b>   |   |  |        |               |                |
|    | 11730   | A.O. Synthes™/ASIF                         | DX-600 | 0 - 950       | 2.0            |
|    | 11780   | A.O. Synthes™/ASIF Hex                     | DX-600 | 0 - 950       | 4.1            |
|   | 11770   | Hudson                                     | DX-600 | 0 - 950       | 4.1            |
|  | 11790   | Trinkle                                    | DX-600 | 0 - 950       | 4.1            |
|  | 12420   | Zimmer                                     | DX-600 | 0 - 950       | 4.1            |
|  | 14480   | Hudson/Zimmer combi                        | DX-600 | 0 - 950       | 4.1            |
|  | 11760   | Oscillating drill - 130° oscillation arc   | OX-600 | 0 - 950       | -              |
|   | See page 14 for range of drill bits<br>See Accessory catalogue No. 162 for range of taps. |  |        |               |                |
| <b>Standard reaming attachments</b>   |   |  |        |               |                |
|  | 11800   | 0 - 6.35 mm (1/4") Jacobs                  | RX-600 | 0 - 260       | 4.1            |
|  | 11810   | Hudson                                     | RX-600 | 0 - 260       | 4.1            |
|  | 11820   | A.O. Synthes™/ASIF/PROTEK                  | RX-600 | 0 - 260       | 4.1            |
|  | 11830   | Zimmer                                     | RX-600 | 0 - 260       | 4.1            |
|  | 12900   | Hudson/Zimmer combi                        | RX-600 | 0 - 260       | 4.1            |
| <b>Hi-torque reaming attachments</b>  |   |  |        |               |                |
|  | 11850   | Hudson/Zimmer combi                        | HX-600 | 0 - 150       | -              |
|  | 11840   | A.O. Synthes™/ASIF/PROTEK                  | HX-600 | 0 - 150       | -              |
|   | See page 13 for acetabular reamer shafts and shells                                       |  |        |               |                |
| <b>Sawing attachments for MPX-610 only</b>  |   |  |        |               |                |
|  | 12390   | Reciprocating saw<br>Uses S22 type blades  | CX-600 | 0 - 9000      |                |
|  | 12380   | Large sagittal saw<br>Uses S87 type blades | KX-600 | 0 - 13000     |                |
|  | 14400   | Mini sagittal saw<br>Uses S83 type blades  | MX-600 | 0 - 12000     |                |
| <b>Sawing attachment for MDX-610 only</b>   |   |  |        |               |                |
|  | 12600   | Reciprocating saw<br>Uses S22 type blades  | CX-650 | 0 - 7500      |                |
| <b>Sawing attachments for both MPX-610 and MDX-610</b>                              |   |  |        |               |                |
|  | 12300   | Mini sagittal saw<br>Uses S88 type blades  | NX-600 | 0 - 25000     |                |

See page 13 for other chuck drive options.

| Order Code | Final drive | Type | Speed rpm |
|------------|-------------|------|-----------|
|------------|-------------|------|-----------|

Minimal invasive acetabular reamer attachment

|       |   |        |         |
|-------|---|--------|---------|
| 12100 | Accepts De Soutter acetabular reamer shells | MI-600 | 0 - 150 |
|-------|---|--------|---------|

See page 13 for range of acetabular reamer shells



Minimal invasive acetabular reamer attachment

|       |              |        |         |
|-------|--------------|--------|---------|
| 14990 | Hudson drive | MI-610 | 0 - 150 |
| 15180 | A.O. drive   | MI-610 | 0 - 150 |

See page 13 for range of acetabular reamer shells



Radiolucent drill adaptor

|       |   |        |         |
|-------|---|--------|---------|
| 11980 | Accepts A.O. radiolucent drill attachment | TX-600 | 0 - 950 |
|-------|---|--------|---------|



Pulse Lavage attachment

|       |                              |        |                      |
|-------|------------------------------|--------|----------------------|
| 15820 | Accepts P20 series pump kits | LX-620 | 0 - 1600 pulses/min. |
|-------|------------------------------|--------|----------------------|

MPX and MDX handpieces can be connected direct to P20 pump kits. Pulse rate 950 pulses/min when used in this configuration.

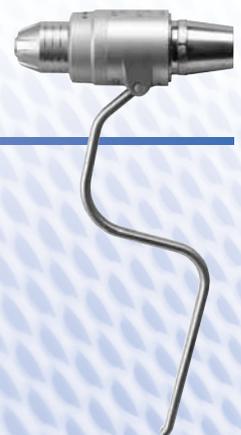


P20-100 pump kit  
See page 11 for range of pump Kits.

Wire/pin driving attachment

|       |                       |        |         |
|-------|-----------------------|--------|---------|
| 16100 | 0.8 - 4.0 mm capacity | WX-620 | 0 - 950 |
|-------|-----------------------|--------|---------|

See Stericut™ catalogue for wires.



# MDX MultiDrive™

Modular and procedure specific - battery and



**MDX-610 Hi-Torque**  
fitted with  
A.O. quick release  
drill attachment and  
sterile battery.

#### MDX-610 HANDPIECE SPECIFICATION

| Order Code | Speed       | Cannulation | Voltage* |
|------------|-------------|-------------|----------|
| 1286444    | 0 - 950 rpm | 4.1 mm      | 9.6 Vdc  |



\* Cordless 9.6 Vdc battery or corded direct from power supply module.  
See pages 7 and 8 for details of power options.  
See pages 3 and 4 for attachment range.  
See page 12 for sterilisation containers.

#### POWER OPTIONS



Small sterilisable  
battery



Large sterilisable  
battery



Small aseptic battery



Large aseptic battery



Cordless system

- Superior handpiece reliability with high performance, hermetically sealed, hybrid motor controller.
- Single handed, instant forward, reverse and safe mode on MDX handpiece.
- 2 speed trigger function on saw handpieces.
- State of the art battery charging technology means batteries are charged to optimum capacity.
- Class leading power to weight ratio.

## corded system



**CDX-600**  
fitted with saw blade  
and aseptic housing  
carrying small  
battery.

**KDX-600**  
fitted with saw blade  
and aseptic housing  
carrying large battery.

### HANDPIECE SPECIFICATION

| Type              | Type Code | Order Code | Speed                | Voltage* |
|-------------------|-----------|------------|----------------------|----------|
| Sagittal saw      | KDX-600   | I282554    | 0 - 14000 cycles/min | 9.6 Vdc  |
| Reciprocating saw | CDX-600   | I282664    | 0 - 9000 cycles/min  | 9.6 Vdc  |



\* Cordless 9.6Vdc battery or corded direct from power supply module. See pages 7 and 8 for details of power options.  
See Stericut™ catalogue for range of sagittal and reciprocating saw blades.  
See page 12 for sterilisation containers.

# Electric Power Options

Ultimate versatility with a choice of three po

## STERILE BATTERY

The packs are specifically designed to withstand flash sterilisation techniques.

Extended autoclaving and drying cycles may reduce the capacity and life of the battery pack.

If flash sterilisation is not permissible (please check your market requirements) then the use of aseptic batteries is strongly recommended.



**SB-600**  
9.6 Vdc NiCd  
Capacity 1200 mAh  
Battery Pack  
Order Code I1630



**SB-450**  
10.8 Vdc NiMH  
Capacity 1000 mAh  
Battery Pack  
Order Code I4500

## ASEPTIC BATTERY SYSTEMS

The simple aseptic battery technique ensures the packs are maintained and used in their optimal condition.

Battery management is readily supervised by the theatre staff as the battery charger can be safely placed within the OR.

### Large Battery Pack

**AB-600**  
9.6 Vdc NiMH battery  
Capacity 2100 mAh  
Order Code I1520



**AH-610**  
Aseptic Housing  
Order Code I4430



**AS-610**  
Sterile Shield  
Order Code I4420



### Small Battery Pack

**AB-450**  
10.8 Vdc NiMH battery  
Capacity 1000 mAh  
Order Code I4510



**AH-450**  
Aseptic Housing  
Order Code I4520



**AS-450**  
Sterile Shield  
Order Code I4530



### Loading and replacing the aseptic battery pack



Sterile scrub technician places sterile shield onto the aseptic battery housing.



Circulating nurse presses the non sterile battery into the battery housing.



Circulating nurse removes the sterile shield.



Sterile scrub technician closes battery housing lid and secures locking knob.



Sterile scrub technician locks aseptic battery housing into the handpiece.

# Power options

## BATTERY CHARGER BC-700

The BC-700 Battery Charger requires minimal user input. Insert battery and the BC-700 will charge, recover and recondition it to an optimum state.

**The large touch-screen display** with intuitive menu navigation, provides instant battery charge status and condition. It also includes a multi-lingual display and other user settings.

The BC-700 also offers a **unique healthcheck facility**, profiling the condition of an individual battery, automatically reconditioning it, when applicable, to provide optimal capacity. Alternatively, a manual healthcheck can be easily selected.

The BC-700 Battery Charger accepts all De Soutter Medical batteries, ensuring product compatibility.



Battery Charger  
Order Code 16200

Mains power cordsets - 3 metres long.  
Please specify from options below.

|             |                   |
|-------------|-------------------|
| UK          | Order Code: 8290  |
| Euro        | Order Code: 8300  |
| US/Canada   | Order Code: 8310  |
| Australia   | Order Code: 8320  |
| New Zealand | Order Code: 8320  |
| Swiss       | Order Code: 14700 |



CA-450  
Small battery charging adaptor.  
For use with AB-450 battery.  
Order Code 14540

## CORDED DIRECT POWER

No set up required. Simply connect to the CM-600 Corded Module for instant use.

The PS-700 offers complete system versatility providing compatibility with De Soutter Medical 700 series handpieces.

CM-600  
Corded module 4m long.  
Order Code 11620



PS-700  
Power Supply  
Order Code 15710

Mains power cordsets -  
3m long

|                     |                   |
|---------------------|-------------------|
| UK                  | Order Code: 8290  |
| Euro                | Order Code: 8300  |
| US/Canada           | Order Code: 8310  |
| Australia/N Zealand | Order Code: 8320  |
| Swiss               | Order Code: 14700 |

Please specify option required.



# MPX MultiDrive™

Modular and procedure specific - air operate



MPX-610 Hi-Torque  
fitted with  
A.O. quick release  
drill attachment.



Three position trigger function control. Forward, reverse and safe operating mode.

## MPX-610 HANDPIECE SPECIFICATION

| Order Code | Speed       | Cannulation | Inlet connection | Operating pressure |
|------------|-------------|-------------|------------------|--------------------|
| 226464     | 0 - 950 rpm | 4.1 mm      | MPX standard     | 6 - 7 bar          |
| 226474     | 0 - 950 rpm | 4.1 mm      | Zimmer           | 6 - 7 bar          |
| 226484     | 0 - 950 rpm | 4.1 mm      | Aesculap         | 6 - 7 bar          |
| 226494     | 0 - 950 rpm | 4.1 mm      | A.O.             | 6 - 7 bar          |



## ANCILLIARY EQUIPMENT



Modular attachments  
See page 3 for details.



Sterilisation container.  
See page 12 for details.



Wash Assist hose system.  
See page 14 for details.

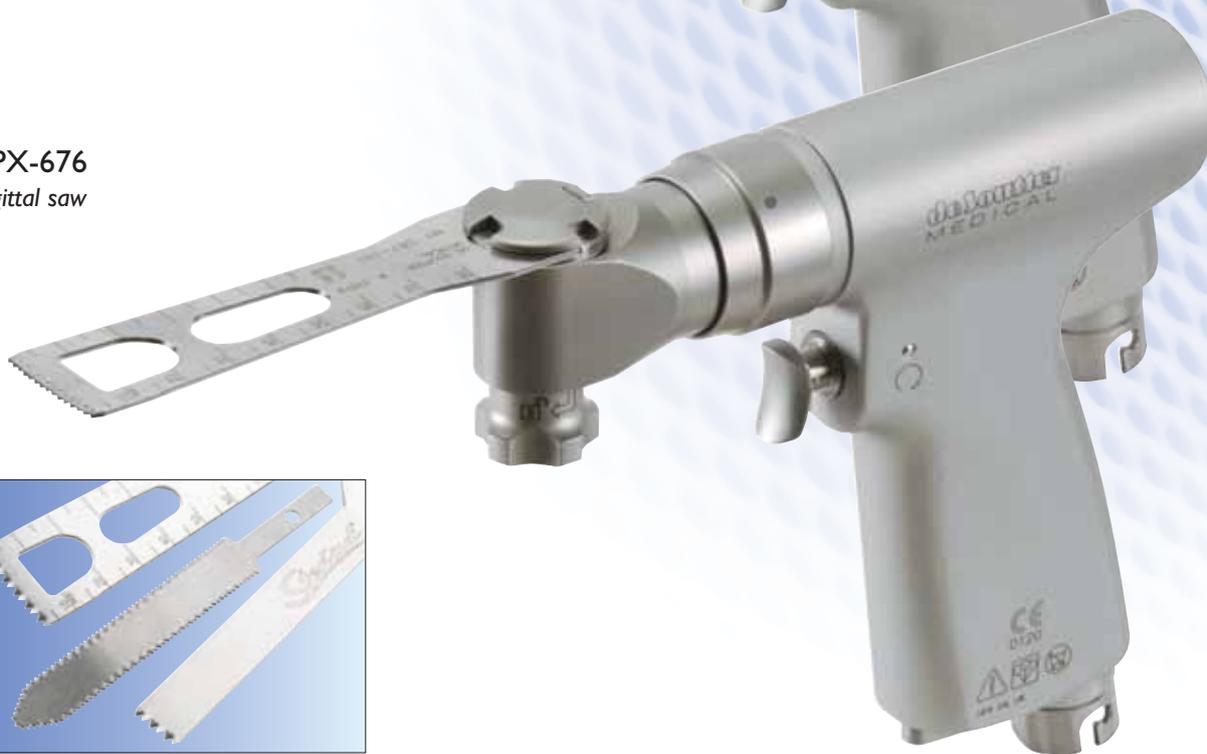
- Modular versatility for universal trauma and procedure specific handpieces for heavy duty orthopaedics.
- High power, high torque co-axial motor unit
- Single handed, instant forward, reverse.
- Fully machine washable.

d

**DPX673**  
Reciprocating saw



**DPX-676**  
Sagittal saw



A full range of sterile packed saw blades are available in the De Soutter Medical Stericut™ range. See references below.

**HANDPIECE SPECIFICATION**

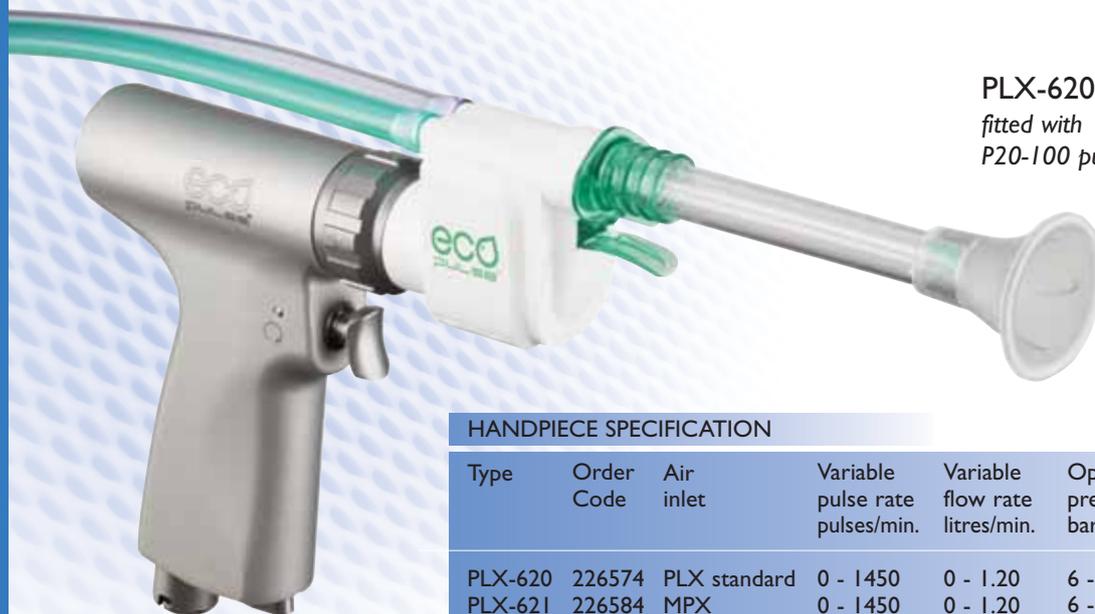
| Type              | Type Code | Order Code | Speed                | Operating pressure |
|-------------------|-----------|------------|----------------------|--------------------|
| Sagittal saw      | DPX-676   | 226384     | 0 - 14000 cycles/min | 6 - 7 bar          |
| Reciprocating saw | DPX-673   | 226394     | 0 - 11000 cycles/min | 6 - 7 bar          |



See Stericut™ catalogue for range of sagittal and reciprocating saw blades.  
See page 12 for details of sterilisation container.

# PLX EcoPulse™

## Pulsed irrigation system



PLX-620  
fitted with  
P20-100 pump kit



### HANDPIECE SPECIFICATION

| Type    | Order Code | Air inlet    | Variable pulse rate pulses/min. | Variable flow rate litres/min. | Operating pressure bar |
|---------|------------|--------------|---------------------------------|--------------------------------|------------------------|
| PLX-620 | 226574     | PLX standard | 0 - 1450                        | 0 - 1.20                       | 6 - 7                  |
| PLX-621 | 226584     | MPX          | 0 - 1450                        | 0 - 1.20                       | 6 - 7                  |
| PLX-623 | 226604     | A.O.         | 0 - 1450                        | 0 - 1.20                       | 6 - 7                  |

See page 14 for air supply hose options.

- Unique drive coupling designed for De Soutter rotary handpieces, providing maximum O.R. flexibility.
- Optimal power is maintained for longer periods owing to direct drive from the handpiece.
- Smaller packaged volume helps conserve valuable hospital storage - by up to 60%.
- Powerful lavaging performance ensures integrity of the bone/cement interface.
- No need to dispose of entire handpiece, just low cost pump kit, thus reducing costs and clinical waste.

### PUMP KITS



Pump kits are supplied with nozzles and 3 metres of tubing. Suction tubing is supplied with all suction types.

| Type   | Order Code | Supplied nozzles   |
|--|------------|--------------------|
| General purpose with suction                     | P20-100    | P20-121            |
| Hip arthroplasty with suction                    | P20-101    | P20-121<br>P20-123 |
| Hip arthroplasty brush with suction              | P20-102    | P20-124<br>P20-121 |
| General purpose without suction                  | P20-103    | P20-120            |
| Hip arthroplasty without suction                 | P20-104    | P20-120<br>P20-122 |
| Bone cleaning (high pressure) with suction       | P20-105    | P20-125            |
| Bone cleaning (high pressure) without suction    | P20-106    | P20-125            |
| Hip arthroplasty (high pressure) with suction    | P20-107    | P20-125<br>P20-123 |
| Hip arthroplasty (high pressure) without suction | P20-108    | P20-125<br>P20-122 |

### NOZZLES - only



| Type                                       | Length | Order Code |
|--|--------|------------|
| Soft tissue less suction                   | 10 cm  | P20-120    |
| Soft tissue with suction                   | 10 cm  | P20-121    |
| Bone cleaning with suction                 | 10 cm  | P20-125    |
| Femoral canal less suction                 | 25 cm  | P20-122    |
| Femoral canal with suction                 | 25 cm  | P20-123    |
| Femoral canal (high capacity) with suction | 25 cm  | P20-126    |
| Femoral brush with suction                 | 25 cm  | P20-124    |

All sterile packed pump kits are supplied 5 per box. All individual nozzles are supplied 5 per box.

# Sterilisation containers

## MDX, CDX AND KDX



| Sterilisation case for system type         | Materials                                      | Complete case Order Code | Insert only Order Code |
|--|--|--------------------------|------------------------|
| Aseptic battery 3 handpieces <sup>1)</sup> | Aluminium base, lid and stainless steel insert | 12170                    | 12180                  |
| Aseptic battery 2 handpieces <sup>2)</sup> | Aluminium base, lid and stainless steel insert | 14440                    | 14450                  |
| Sterile battery 3 handpieces <sup>3)</sup> | Aluminium base, lid and stainless steel        | 11670                    | 11690                  |

<sup>1)</sup> Accommodates MDX-610 handpiece, seven attachments, CDX-600, KDX-600, three aseptic battery housings.

<sup>2)</sup> Accommodates MDX-610 handpiece, seven attachments, KDX-600, two aseptic battery housings and two sterile shields.

<sup>3)</sup> Accommodates MDX-610 handpiece, seven attachments, CDX-600, KDX-600 and three sterile battery packs.

## MPX



| Materials  | Complete case Order Code | Insert only Order Code |
|--|--------------------------|------------------------|
| <sup>1)</sup> Aluminium base, aluminium lid and stainless steel insert | 14640                    | 14650                  |
| <sup>2)</sup> Aluminium base, aluminium lid and stainless steel insert | 14630                    | 14660                  |

<sup>1)</sup> Accommodates one MPX handpiece, one DPX handpiece, seven attachments and air hose.

<sup>2)</sup> Accommodates one MPX handpiece, two DPX handpieces, seven attachments and air hose.

## DPX AND PLX



| Materials                      | Complete case Order Code | Insert only Order Code | Mat only Order Code |
|--------------------------------|--------------------------|------------------------|---------------------|
| Aluminium base, lid and insert | 9350                     | 631343                 | 616153              |

Accommodates air hose and other items in general purpose tray insert.

All sterilisation cases are DIN compatible. Size 538 mm x 254 mm x 142 mm

# Accessories

## Drive adaptors, reamer shells, drill bits and a

| DRIVE ADAPTORS  | Input drive     |                      |                     | Output drive                                |
|---|-----------------|----------------------|---------------------|---|
|   | Hudson Part No. | A.O. Reamer Part No. | A.O. Drill Part No. |   |
|    | 5440            | 7970                 | 11550               | 6.35 mm (1/4") Jacobs chuck                 |
|    | 5450            | 6590                 | -                   | Zimmer chuck                                |
|    | 5460            | 6550                 | -                   | Harris chuck                                |
|    | -               | 6560                 | 11580               | Hudson chuck                                |
|   | 7910            | 6580                 | -                   | Trinkle chuck                               |
|  | 5470            | 7980                 | -                   | A.O. Synthes quick release drill chuck      |
|  | 5480            | -                    | -                   | A.O. Synthes/Protek reamer chuck            |
|  | 5490            | 6570                 | -                   | DIN58809 reamer chuck                       |
|  | 11260           | 7770                 | -                   | DHS   |
|  | -               | -                    | 6270                | 4.0 mm Jacobs Chuck - fits A.O. drill chuck |

See Accessory Catalogue Publication No. 162 for other drives in the De Soutter Medical range.

### ACETABULAR REAMER SHAFT AND SHELLS



A.O. Synthes reamer shaft Part No. 6110  
Hudson reamer shaft Part No. 6100



| Part No. | Cutting dia mm |
|----------|----------------|----------|----------------|----------|----------------|----------|----------------|
| 5800     | 40             | 5880     | 48             | 5960     | 56             | 6040     | 64             |
| 5810     | 41             | 5890     | 49             | 5970     | 57             | 6050     | 65             |
| 5820     | 42             | 5900     | 50             | 5980     | 58             | 6060     | 66             |
| 5830     | 43             | 5910     | 51             | 5990     | 59             | 6070     | 67             |
| 5840     | 44             | 5920     | 52             | 6000     | 60             | 6080     | 68             |
| 5850     | 45             | 5930     | 53             | 6010     | 61             | 6090     | 69             |
| 5860     | 46             | 5940     | 54             | 6020     | 62             |          |                |
| 5870     | 47             | 5950     | 55             | 6030     | 63             |          |                |

Fits both standard reamer shaft and minimal invasive reamer attachment.

# ir hoses

## STERILE PACKED DRILLS

### PLAIN SHANK DRILLS



| Part No. | Dia. mm | Length mm | Flute length mm |
|----------|---------|-----------|-----------------|
| D50-100  | 1.5     | 70        | 22              |
| D50-101  | 2.0     | 85        | 50              |
| D50-102  | 2.5     | 95        | 50              |
| D50-103  | 2.7     | 85        | 50              |
| D50-104  | 3.2     | 130       | 50              |
| D50-105  | 3.2     | 180       | 50              |
| D50-106  | 3.5     | 95        | 50              |
| D50-107  | 3.5     | 180       | 50              |
| D50-108  | 4.0     | 156       | 50              |
| D50-109  | 4.5     | 156       | 50              |
| D50-110  | 4.5     | 180       | 50              |
| D50-111  | 4.8     | 127       | 50              |
| D50-112  | 5.0     | 180       | 50              |

### A.O. DRIVE DRILLS



| Part No. | Dia. mm | Length mm | Flute length mm | Part No. | Dia. mm | Length mm | Flute length mm |
|----------|---------|-----------|-----------------|----------|---------|-----------|-----------------|
| D55-100  | 1.1     | 60        | 20              | D55-108  | 2.7     | 125       | 50              |
| D55-101  | 1.5     | 85        | 30              | D55-109  | 3.2     | 145       | 50              |
| D55-102  | 1.5     | 110       | 30              | D55-110  | 3.2     | 195       | 50              |
| D55-103  | 2.0     | 100       | 50              | D55-111  | 3.5     | 110       | 50              |
| D55-104  | 2.0     | 125       | 50              | D55-112  | 3.5     | 195       | 50              |
| D55-105  | 2.5     | 110       | 50              | D55-113  | 4.5     | 145       | 50              |
| D55-106  | 2.5     | 180       | 50              | D55-114  | 4.5     | 195       | 50              |
| D55-107  | 2.7     | 100       | 50              | D55-115  | 6.0     | 195       | 50              |



### 'WASH-ASSIST' CO-AXIAL AIR HOSES

The Wash Assist co-axial hose system is recommended where machine washing of air hoses is demanded. By releasing the probe end from hose, which is retained on the hose via the rubber strap, the two hose ends can be joined and sealed prior to machine washing.

| Probe | Instrument      | 3 metre hose - Part No. | 4 metre hose - Part No. | 5 metre hose - Part No. |
|-------|-----------------|-------------------------|-------------------------|-------------------------|
|       | MPX, DPX<br>PLX | 13000                   | 13100                   | 13200                   |
|       |                 | 13600                   | 13700                   | 13800                   |
|       | MPX, DPX<br>PLX | 13010                   | 13110                   | 13210                   |
|       |                 | 13610                   | 13710                   | 13810                   |
|       | MPX, DPX<br>PLX | 13020                   | 13120                   | 13220                   |
|       |                 | 13620                   | 13720                   | 13820                   |
|       | MPX, DPX<br>PLX | 13030                   | 13130                   | 13230                   |
|       |                 | 13630                   | 13730                   | 13830                   |
|       | MPX, DPX<br>PLX | 13040                   | 13140                   | 13240                   |
|       |                 | 13640                   | 13740                   | 13840                   |
|       | MPX, DPX<br>PLX | 13050                   | 13150                   | 13250                   |
|       |                 | 13650                   | 13750                   | 13850                   |
|       | MPX, DPX<br>PLX | 13060                   | 13160                   | 13260                   |
|       |                 | 13660                   | 13760                   | 13860                   |
|       | MPX, DPX<br>PLX | 13080                   | 13180                   | 13280                   |
|       |                 | 13680                   | 13780                   | 13880                   |
|       | MPX, DPX<br>PLX | 13070                   | 13170                   | 13270                   |
|       |                 | 13670                   | 13770                   | 13870                   |
|       | MPX, DPX<br>PLX | 13090                   | 13190                   | 13290                   |
|       |                 | 13690                   | 13790                   | 13890                   |

\* Made to special order

Replacement rubber strap Part No. 632393

### HANDPIECE WASHING CAPS

Prevents water entering the handpiece during washing prior to autoclaving



Washing cap for standard MPX and DPX series handpieces.

Part No. 608073



Washing cap for PLX series handpieces.

Part No. 8110

167-EN-5

**deSoutter**  
MEDICAL

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