The eXtraordinarily innovative, intuitive and powerful ATS system
Autotransfusion

A KEY ROLE IN AN EFFECTIVE BLOOD MANAGEMENT STRATEGY

The risks and costs related to homologous blood transfusion and its constantly decreasing worldwide availability have been widely documented.

Many health care providers and hospitals are now developing a Blood Management Strategy, a multidisciplinary approach to optimize the use of blood products, aiming to reduce the need for homologous blood, improve patient outcome and contain costs.

One of the key elements for a complete blood management strategy is autotransfusion, involving the collection, processing, and reinfusion of the patient’s own blood that is lost during the peri-operative period at the surgical site.

Autotransfusion drives:

**MAXIMUM SAFETY**

It significantly reduces the demand for homologous blood and prevents the risks involved in its transfusion:

- Mistransfusion
- Transfusion Related Acute Lung Injury (TRALI)
- Systemic Inflammatory Response Syndrome (SIRS)
- Transfusion Related Immunomodulation (TRIM)
- Immunosuppression

**SIGNIFICANT COST REDUCTION FOR THE HOSPITAL**

It provides fresh, autologous, vital RBCs to the patient eliminating the costs related to bank blood transfusion:

- The average total cost of transfusing a unit of homologous RBCs is $1,158*
- No direct costs related to blood screening
- Indirect long-term costs reduction: several studies show that the reinfusion of RBC’s recovered with autotransfusion improves post-operative outcome, and decreases hospital stay and additional medical treatments

**The complete solution for blood salvage**

For over 30 years, Sorin Group has treated more than 6.5 million patients with its ATS products. The experience and dedication towards research of innovative solutions allows Sorin Group to be recognized as a world leader in autotransfusion.

**Sorin XTRA** is the latest extraordinarily innovative, intuitive and powerful ATS system.

It is a compact, ergonomic and robust ATS device with an attractive design, developed by the same designers of Sorin S5 and C5 heart lung machines. It inspires to BRAT 2 and Electa, combining and improving their best features, and introducing further innovation, through S5 and C5-like design, graphic color touch screen user interface and advanced data management capabilities.

**Sorin Xtra is the eXtraordinarily innovative, intuitive and powerful ATS system at your fingertips**
Sorin Group Family Design
With design characteristics similar to the world-leading heart lung machines Sorin S5 and C5, Sorin XTRA perfectly blends into the Sorin Group product portfolio assuring high reliability and durability.
The First Graphic Color Touch Screen user interface

The full-color LCD, TFT (8.4") with a large view area (172x130 mm) and the innovative touch screen technology allow optimal visibility of the information displayed and total control at your fingertips.

Taking inspiration from our world leading HLM machines S5 and C5, the XTRA user interface displays all the information you need by means of modular displets that can be opened or closed at your desire and offers complete control of the system throughout extremely intuitive and easy-to-navigate menu pages.
**Advanced Data Management**

Experience complete control over your data. From the tally screen you will be able to visualize case information at anytime, print a report, or download multiple cases on a USB memory stick.

- Internal memory capable of storing thousands of past cases
- USB ports for simultaneous download of multiple cases in Ms® Excel format
- Integrated ink printer, producing a permanent case printouts, ensuring complete traceability
- RS232 ports for external PC connection
- Functional integration with S5 and C5 thanks to Sorin Group Data Management System (DMS) connection
Dual sensor technology

- The Dual RBC detector technology in Sorin Xtra is composed of two optical sensors allowing a high filling of the bowl and thus an excellent supernatant washout and high outlet haematocrit.
- The Hct sensor is an integrated, non-invasive, optical sensor providing information on RBC concentration of the inlet blood during Fill phase and outlet blood during the Empty phase.
- The waste line color indicator is an optical sensor providing on-screen information at-a-glance on the wash quality by a visual indicator.
Ergonomics
Special care was put in the design of the system ergonomics in order to improve interaction throughout all working phases and situations.

- **XTRA** has a small footprint that allows the machine to fit in narrow spaces
- The four pivoting wheels coupled with the front and rear handles ensure high maneuverability of the system
- The robust and transparent centrifuge lid protects the machine from any fluid spillage, helps reduce noise and allows complete visibility into the centrifuge
- The huge storage capacity of the machine allows transportation for all the necessary disposable to start the procedure. The cart was designed to transport more than 6 liters of fluids and maintain stability*  

Eg: 5 l of saline bags + 1 l of anticoagulant bags + 1 Bowl Set (or Reservoir)

- The IV poles offer several hooks for bags and also a compartment for storage of caps or pens

(*= with Xvac mounted)
Fast and intuitive setup

Experience the easy, fast and safe disposable setup. The newly designed XTRA top panel and disposables allow error proof setup, in a blink of an eye.

- The XTRA Bowl and the new patented centrifuge plate ensure easy 360° mounting
- The new centrifuge arm allow one-hand arm locking/unlocking
- The new cartridge and tubing design guarantees a straightforward setup, with lid-driven tubing positioning into the air sensor seat
Fully automated processing

1-Touch mode and Last Bowl function provide complete automation from the beginning to the end of the procedure.

I-Touch

- Automatic start at target volume in the reservoir
- Continuous processing of bowls in sequence
- Automatic stop when reservoir is empty

Last Bowl

- Continuous processing of bowls in sequence
- Automatic concentration, wash and empty
- Automatic RBC line emptying

Automatic start → Automatic Start at programmed volume → Continuous cycles until reservoir empty → Reservoir empty → Automatic stop

Press Last Bowl → Continuous cycles until reservoir empty → Reservoir empty & bowl partially filled → Automatic Concentration & Wash → Automatic bowl & RBC line emptying → Automatic stop - End of procedure → Safe management of bowl washing
Operating Protocols

INTRA-OPERATIVE FACTORY PROTOCOLS

**Popt**
Designed to obtain:
- Very high Hct, independently from inlet Hct*
- Excellent supernatant removal**
- Good processing speed**
Achieved by:
- Two step filling at different flow rates and automated stand-by
- Dual RBC detector technology for optimal bowl filling (active for XTRA BOWL 55 and XTRA BOWL 225)

**Pstd**
Designed to obtain:
- High processing speed (with XTRA BOWL 225)**
- Good hematocrit**
- Good wash quality**
Achieved by:
- One-step automatic filling
- Possibility to adjust flows (filling, washing, emptying)
- High wash and empty flows

POST-OPERATIVE FACTORY PROTOCOL

**Post-op**
Designed to obtain:
- A configuration suitable for post-op applications
Achieved by:
- Activating the same settings of the Popt protocol
- Automatically switching to gentle aspiration with the XVAC post-op mode

PREOPERATIVE SEQUESTRATION FACTORY PROTOCOL

The preoperative sequestration protocols enable the recovery of plasma and platelets from the patient whole blood into bags

Sources:
** In vitro performance evaluation study with human blood 25% Hct with XTRA Bowl 225. The result are consistent also with the other bowl sizes. Data on file at Sorin Group.
High RBC Hct and Wash Quality with Popt

The innovative RBC detector technology, combined with the new Popt factory protocol and disposable design, provides:

- Very high Hct*
- High Recovery Rate**
- Good processing time**
- High removal of undesired components**

<table>
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<tr>
<th>HCT</th>
<th>TIME</th>
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<td>60-65%</td>
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Heparin Protein Albumin Potassium

Removal Rate > 95%
Fast high volume processing with Pstd

Ready to meet your high volume challenges:
fast processing with the Pstd standard protocol,
turning into emergency protocol with only one touch.

- High Hct**
- High recovery rate**
- High processing speed in Pstd, turning into the
  fastest protocol available when activating emergency
  protocol**
- High removal of undesired components**

Sources:
  Geneve - Switzerland, 2010
** In vitro performance evaluation study with human blood 25% Hct with XTRA Bowl 225. The result are consistent also with the other bowl sizes. Data on file at
  Sorin Group.
**Quiet, Powerful Vacuum**

Xvac is a modular vacuum pump, designed to be extremely quiet and to deliver top performance and maximum flexibility by working as a standalone unit or fully integrated into the XTRA system.

When seated in its housing and connected to the system, Sorin XVac can be activated and operated from a dedicated displet on the XTRA user interface. When used standalone, the vacuum pump can be controlled from the XVac panel.
Sorin XvAc guarantees incomparable flexibility functioning in two operative modes, Intra and Post delivering an optimized solution for perioperative blood recovery. Moreover, XvAc can be activated right after power-on, reacting promptly to critical emergency situations.

The vacuum power ranges from:

- -50 to -300 mmHg (Intra-operative mode - High vacuum capacity)
- -10 to -100 mmHg (Post-operative mode - Gentle aspiration for wound drainage connection)
## Technical Information

### XTRA

| Unit Dimensions | Height = 660 mm (1055 mm*) - pole lowered  
|                | Height = 1585 mm (1980 mm*) - pole completely lifted  
|                | Height = 835 mm (1230 mm*) - display lifted  
|                | Width = 375 mm - (including the side hangers)  
|                | Width = 800 mm - with poles completely open  
|                | Depth = 500 mm - 680 mm including the front and rear handles  

* = with cart.

| Cart dimensions | Height = 500 mm  
|                | Width = 480 mm  
|                | Depth = 595 mm  

| Unit Weight | 37 Kg (81.4 LBS)  
| Cart Weight | 22.5 Kg (49.5 LBS)  
| Display Type | Graphic color LCD TFT 8.4" 172 mm x 130 mm (screen)  
| Main Voltage | 230 V- or 100-120 V (Power Supply)  
| Frequency | 50 - 60 Hz  
| Fuse Ratings | 2xT6.3 A  
| Centrifuge Speed | 1500 ÷ 5600 rpm (steps of 100 rpm)  
| Pump Speed | 25 - 1000 ml/min (adjustable)  

### XVAC

| Unit Weight | 15Kg (33 LBS)  
| Functioning Range | -50 to -300 mmHg (-6.6 kPa to -40 kPa) 
|                | (steps of 10 mmHg [1.3 kPa]) – intra and pre-operatively  
|                | -10 to -100 mmHg (-1.3 to -13.3 kPa)  
|                | (steps of 10 mmHg [1.3 kPa]) – post-operatively  

Disposable Offering
**Xres Blood Collection Reservoir**

The reservoir which sets the standards of blood collection to the highest levels

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**High Capacity and Filtration Quality**
- 4-liter capacity
- Advanced, multi-layer filtration system, with:
  - Internal defoaming polyurethane layer (30 ppi)
  - Intermediate woven, non-woven filter (40 μm)
  - External screen (120 μm)

**Easy and Safe Setup**
- New locking mechanism to firmly secure the reservoir to the holder
- 360° reservoir rotation capability within the holder
- Separate holder available for use with IV pole and vacuum regulator

**Clear All-Around Visibility**
- Transparent, flat body to allow constant monitoring of the collected blood
- Transparent, flat lid to allow visibility inside the inner filter
**Broad Flexibility**

- Three 1/4” suction ports, for the collection of blood both intra-operatively and post-operatively: 45° angled, to prevent occlusion from debris produced during surgery
- One 3/8” suction port, for intra-operative procedures where a 3/8” aspiration and anticoagulation line is used
- One filtered and one non-filtered luer lock port, for blood transfer or drugs administration

**Safety Features**

- Self regulated pressure relief valve
- Safe overflow level valve

**Two Configurations Available**

- **XRES T Blood Collection Reservoir**
  - Top outlet connection to the bowl
  - Quick reinfusion port for immediate transfusion of non-processed blood in case of extreme emergency
- **XRES B Blood Collection Reservoir**
  - Bottom outlet connection to the bowl
  - Reservoir outlet clamp included
**Collection & Processing**

**Xtra Bowl**

The most complete range of processing bowl sizes to face all operational situations

<table>
<thead>
<tr>
<th><strong>BROAD FLEXIBILITY</strong></th>
<th><strong>Minimal Bleeding Orthopedic Surgery</strong></th>
<th><strong>Orthopedic Surgery (Total Joint Replacement)</strong></th>
<th><strong>High Bleeding Orthopedic Surgery (Revisions)</strong></th>
<th><strong>Cardiovascular Surgery (Bypass, Abdominal Aortic Aneurysm)</strong></th>
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<tr>
<td><strong>XTRA BOWL 55</strong></td>
<td>Small Size Patients</td>
<td>Obstetric Surgery</td>
<td>Low Bleeding Cardiac Surgery (Mini-Bypass)</td>
<td>Emergency &amp; Trauma</td>
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<td>The smallest bowl for minimal bleeding</td>
<td>Pre-operative Sequestration (PPP/PRP)</td>
<td>Pre-Operative Sequestration (PPP/PRP)</td>
<td>Cardiovascular Surgery</td>
<td>Transplant</td>
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<td><strong>XTRA BOWL 125</strong></td>
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<td>The standard bowl for low bleeding</td>
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<td>The intermediate bowl for medium bleeding</td>
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<td><strong>XTRA BOWL 225</strong></td>
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<tr>
<td>The largest bowl for high bleeding</td>
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EASY, FAST AND SAFE SETUP

- Innovative disposable design:
  - New XTRA BOWL design, with no bottom ring, for quick 360° snap-in mounting onto the centrifuge plate
  - New one-hand mechanism for locking/unlocking the bowl to/from the centrifuge arm
  - New cartridge and tubing design, to ensure straightforward setup
  - Lid-guided tubing positioning into seat when closing the clamp lid
  - Automatic pump loading/unloading at the beginning/end of case

HIGH QUALITY WITH THE OPTIMIZED PROTOCOL

- Optimized protocol (Popt), to achieve high hematocrit, red blood cell recovery rate and waste contaminants removal rate with the XTRA BOWL 55 or XTRA BOWL 225

FAST PROCESSING WITH THE STANDARD PROTOCOL

- Standard protocol (Pstd), to achieve the fastest processing times (comparable to the Baylor Bowl 250ml) with the XTRA BOWL 225
Modular & All in One Solutions

**Advantages**
- All-in-one solution for blood collection and processing
- Suitable for all surgical conditions with 4-liter reservoir and 4 bowl sizes
- Integrated solution to connect the oxygenator to the XRES reservoir with Cardio Kit (only available in Procedure Set TX)

**Indications**
- Cardiac surgery
- Abdominal/aortic aneurysm
- Emergency and trauma
- Transplant

**Collection Set** (TX, TX Cardio, BX or BX Cardio)
Provides XRES reservoir and related items to collect blood recovered from intra-operative field or post-operative drains

**Content**
- XRES T Blood Collection Reservoir (or XRES B Blood Collection Reservoir)
- AAL Aspiration and Anti-coagulation Line
- VEL Vacuum Extension Line
- Cardio Kit (only in Cardio configuration)

**Advantages**
- Modular solution where each item is packed and sterilized separately, allowing a cost effective stand-by strategy: collect first and process later
- Separate holder available to use XRES on IV pole and with vacuum regulator
- Available in standard and cardio configurations (with Cardio Kit)

**Indications**
- Standard configuration: orthopedic surgery, spinal surgery, other non-cardiac applications (e.g. cardiovascular, obstetrics, urology)
- Cardio configuration: cardiac applications

**Procedure Set** (TX Cardio or BX) (55, 125, 175 or 225)
Provides XRES reservoir, XTRA Bowl and all the necessary components to collect and process the blood recovered from the intra-operative field or post-operative drains

**Content**
- Collection Set (TX Cardio or BX)
- Bowl Set X (55, 125, 175 or 225)
**Bowl Set X (55, 125, 175 or 225)**

Provides Xtra Bowl and related items to process the blood recovered from the intra-operative field and post-operative drains or separate hemocomponents in pre-operative sequestration procedures.

**Content**
- Xtra Bowl with pre-connected color-coded tubing and cartridge
- Pre-connected BRB1 Blood Reinfusion Bag (1 liter)
- Waste Bag X (10 liters)

**Advantages**
- Flexibility with 4 bowl sizes suitable for minimal, small, medium and high bleeding
- New bowl, tubing and cartridge design for easy, fast and safe setup

**Indications**
- Intra-operative and post-operative processing
- Pre-operative sequestration
**Miscellaneous Components**

**Cardiovascular Surgery**

**Cardio Kit**
Includes all the adaptors, components and lines to connect the oxygenator to the autotransfusion system to recover and process the blood during and post bypass.

**Tandem Reservoir “Y”**
Allows the connection of two XRES reservoirs to the XTRA system in procedures where large volumes of blood need to be recovered and processed.

**Orthopedic Surgery**

**Fluid Collection Bag for Orthopedics**
Designed to collect the blood lost during orthopedic operations, such as hip replacement/revision, and transfer it to the XRES reservoir through a preconnected aspiration and anticoagulation line. The 45 cm long adhesive strip suits any kind of wound size.

**4-Way Adapters***
Connect patient drain tubes of various diameters to the aspiration & anticoagulation line during post-operative blood collection. Available with luer-locks or with multidiameter adapters.

**Wound Drainage “Y” Connector**
Used to connect either one or two orthopedic wound drains (sizes 1/8”, 3/16” or 1/4”) to the suction assembly. Step-down “Y” connector with 1/4” capped connector. Available also with pre-connected aspiration and anticoagulation line.
**Pre-operative Sequestration**

**Sequestration Set X**
Intended for pre-operative sequestration (PPP and PRP) with transfer bag technique. To be used in combination with a Bowl Set X.

**Miscellaneous**

**AAL Aspiration and Anticoagulation Line**
Allows aspiration and anticoagulation of the blood coming from the operative site, collecting it into the XRES reservoir. A double woven non-woven layer protects the sterility when passing the line into the sterile field. Various diameters available: 1/4", 1/4" – 3/8", 3/8"

**BRB I Blood Reinfusion Bag**
Designed to collect 1 liter of concentrated RBCs during blood salvage procedures.

**Waste Bag X**
Used in connection with the Bowl Set X, it collects up to 10 liters of waste fluids during processing.

**Goccia Filters**
Designed to remove microaggregates and protect the patient pulmonary micro-circulation.

*not available in US and Japan
Clinical Applications

SORIN XTRA

Clinical Applications
Clinical Applications

**Interventions**
- Concentration of residual extra-corporeal circulation volume during/after bypass
- Mini Bypass
- Off-Pump
- Valve Replacement
- Surgical Repair of Great Vessels
- Suction Blood Washing

**What you need**
- Procedure Set or Collection Set (TX Cardio or BX Cardio) + Bowl Set X
- 20/40μm Microaggregate Goccia Filter*

*not for US and Japan

**Sorin Xtra Advantages**
- S5- and C5-like touch screen user interface, ensuring a straightforward learning curve for all operators already familiar with Sorin Group heart-lung machines
- Functional integration with S5 and C5 through Sorin Group Data Management System (DMS)
- High quality or fast processing by simply selecting the appropriate protocol, either the optimized protocol (Popt) or the standard protocol (Pstd)
- Cardio Kit, for direct access to the oxygenator during and after bypass
- Broad spectrum of bowl sizes, to address different levels of bleeding
**Interventions**
- Cardiovascular Surgery
- Organ Transplant
- Trauma Surgery
- Obstetric Surgery

**High Bleeding Surgery / Emergency**

**What you need**
- Procedure Set or Collection Set (TX or BX) + Bowl Set X
- 20/40μm Microaggregate Goccia Filter*
- Additional Components:
  - Tandem Reservoir “Y”
  - BRB1 Blood Reinfusion Bag
  - Waste Bag X

*not for US and Japan

**Sorin Xtra Advantages**
- Live on-screen indication of critical data: volume and hematocrit of the fluid collected from the field, as well as of the red blood cells recovered after processing
- Powerful and silent blood aspiration with the integrated Xvac vacuum pump
- Immediate aspiration, independent from the Xtra system boot-up time, by powering Xvac on from the control panel
- Fast processing with the standard protocol (Pstd)
- Dedicated Emergency button available in all screens to face critical situations
- Bowl Set X/225, to meet high volume challenges
**Clinical Applications**

**Orthopedic Surgery**

**Interventions:**
- Primary Hip and Knee Replacement
- Hip and Knee Revision
- Spine Surgery

**What you need:**
- Procedure Set or Collection Set (TX or BX) + Bowl Set X
- 20/40μm Microaggregate Goccia Filter*
- Additional Components:
  - Intra-operatively: Fluid Collection Bag for Orthopedic
  - Post-operatively: 4-Way Adapter* or Wound Drainage “Y” Connector

*not for US and Japan

**Sorin Xtra Advantages**
- Option to mount the Xres reservoir on an IV pole by means of the separate holder, and connect it to the Xvac vacuum pump used in stand-alone mode, to easily move between ICU beds when collecting blood from post-operative wound drains
- Reduced footprint, to allow processing of the blood collected post-operatively from wound drains also in the narrow spaces of the ICU
- Dedicated post-operative protocol (Post-Op), assuring the same high quality setting of Popt protocol and turning the Xvac into a gentle mode to be safely connected to wound drains
- Modular disposable solutions, to allow collection first and process when enough blood has been shed
- Small to intermediate bowl sizes, to face minimal bleeding orthopedic surgery as well as joint replacements and revisions
**Pre-operative Sequestration**

**Interventions:**
- All cases where bleeding may occur during the post-operative course

**What you need:**
- Bowl Set X
- 20/40μm Microaggregate Goccia Filter*
- Additional Components:
  - Sequestration Set X

*S not for US and Japan

**Sorin Xtra Advantages**
- Full on-screen description of the actions to be performed, to guide the operator throughout the entire procedure
- Broad spectrum of pre-operative sequestration protocols:
  - PPP (for collection of platelet poor plasma in a single bag),
  - PRP1 (for collection of both platelets and plasma in a single bag)
  - PRP2 (for collection of platelet poor plasma in one bag and platelet rich plasma in a separate bag)
- Easy and quick conversion from pre-operative sequestration to intra-operative collection and processing by using the same Bowl Set X
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<th>DESCRIPTION</th>
<th>QUANTITY / BOX</th>
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*Not Available in US and J