

Integra®
CUSA® Excel+ Ultrasonic Surgical Aspiration System

INTEGRA®
LIMIT UNCERTAINTY



Limit uncertainty with power,
precision and control.

Product Description

The CUSA® Excel+ Ultrasonic Surgical Aspiration System offers specific features that make it a powerful ultrasonic tissue ablation system for assisting surgeons on different surgical applications:

- Exclusive function: TissueSelect™ Tissue Option Feature.
- TipSelect™ Ultrasonic Surgical Tip collection, broad selection of tips.
- Dedicated tips for special applications.
- Unique CEM™ nosecone for coagulation.
- User friendly control and set-up.

One of the Best Products in Ultrasonic Surgical Aspiration Systems

The CUSA® Excel+ Ultrasonic Surgical Aspiration System offers an expanded selection of handpieces and surgical tips. This flexibility allows the surgeon to select the most appropriate combination based on the surgical procedure. The user-friendly console, color coded tubing and tubing paths allows for easy set-up of the system. The CUSA® Excel+ Ultrasonic Surgical Aspiration System offers a refined user interface and a wide variety of handpieces and surgical tips.

23 kHz - Fragmentation Power for Tough Fibrous Tissues

- Powerful 23 kHz handpieces suitable for tough or fibrous tumors.
- Selection of 6 tip types, including MicroTip™ Ultrasonic Surgical Tip for improved visualization and MacroTip™ Ultrasonic Surgical Tip for greater tissue fragmentation.
- Laparoscopic tip available for General Surgery.



23 kHz handpieces

36 kHz - Precision and Tactile Feedback for Various Tissue Types

- Smallest and most powerful 36 kHz handpiece providing delicate control.
- Robust magnetostrictive technology provides reliable and enhanced performance.
- Selection of 12 tip types provides the flexibility to choose the appropriate tip for the procedure.
- Curved tips for the enhanced visibility under an operating microscope.

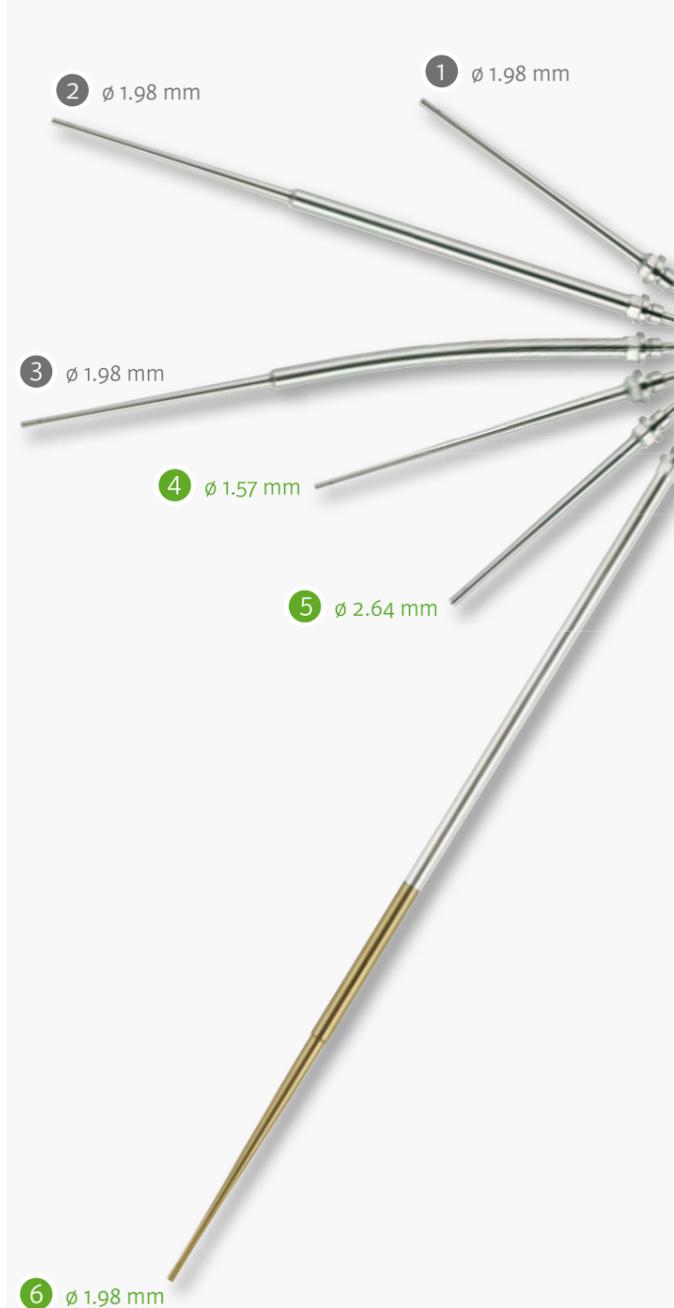


36 kHz Handpiece

23 kHz Range of Tips

Fragmentation Power for Tough and Fibrous Tissues

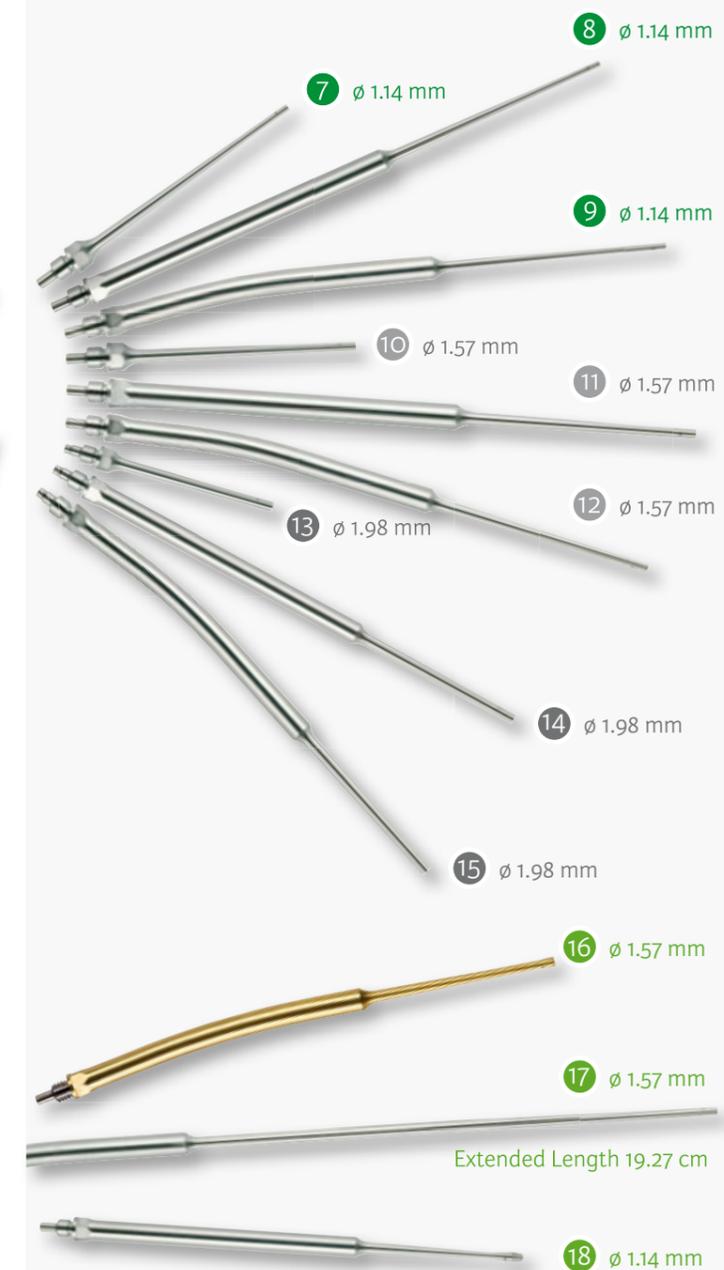
- 1 2 3 Standard Tip Series
- 4 MicroTip™
- 5 MacroTip™
- 6 Laparoscopic Tip



36 kHz Range of Tips

Precision and Tactile Feedback for Various Tissue Types

- 7 8 9 PrecisionTip Series
- 10 11 12 MicroTip™ Series
- 13 14 15 Standard Tip Series
- 16 ShearTip™
- 17 MicroTip™ Plus
- 18 SaberTip™



Advanced Features with CUSA® Excel+ Ultrasonic Surgical Aspiration System Exclusive TissueSelect™ Ultrasonic Surgical Tip

- Tissue strength affects tactile feedback, providing important clues to the type of tissue in contact with the tip enabling surgeons to avoid vital structures.
- As the setting is increased, “softer” tissue is still easily fragmented, but “stronger” tissue is more resistant providing superior tactile feedback to the surgeon.
- TissueSelect™ Tissue Option Feature maintains fragmentation capability for tumor removal while maximizing selectivity for surgeon control around critical structures.

Unique CEM™ Nosecone for Hemostasis*

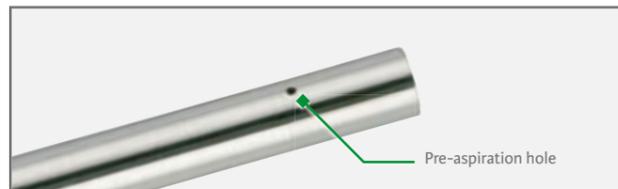
- Powerful combination of electrosurgery and ultrasonics in one handpiece.
- Simultaneous activation permits more rapid tissue debulking.
- Available with 23 kHz and 36 kHz handpieces.



36 kHz CEM™ Nosecone

Pre-aspiration Holes

- Minimizes clogging and decreases misting of the irrigation fluid, providing better visibility.
- Removes the heat generated by the vibrating tip, preventing thermal tissue damage or fracture of the tip.



Pre-aspiration hole

TipSelect™ Ultrasonic Surgical Tip Collection

- Versatile tissue removal system allows for the selection of the most appropriate tip based on consistency, location, depth and access of tumors.
- For added flexibility, tips can be changed in the sterile field, rather than the entire handpiece, optimizing the handpiece for the procedure.

Tissue Release Function

- Shuts off suction for 2 seconds after deactivation of the vibration footswitch to protect against delicate tissue trauma.
- Helps prevent inadvertent traction on sensitive tissue.

Completely Disposable Suction Path

- Suction tubing connects directly to tip base to provide a completely disposable suction path eliminating tissue traps.
- No contaminants pass through the inside of the handpiece.

User-friendly Control and Set-Up

- Color-coded control panel guides user through easy set-up.
- Console is simple to operate and easy to set-up with color coded tubing and tubing paths.



*The CEM™ nosecone combined with Force FX™ generator adds electrosurgery to the CUSA® Excel+ ultrasonic surgical aspirator system.

Clinical Applications

Neurosurgery

Meningioma
Glioma
Glioblastoma
Astrocytoma
Pituitary Adenoma
Ependymoma
Acoustic Neuroma
Neuroblastoma
Craniopharyngioma

General Surgery

Hepatic Resection
Partial Pancreatectomy
Partial Splenectomy
Adjuvant Node Dissection

Other Applications

Gynecological Surgery
Oncologic Tumor Debulking
Urological Surgery
Plastic and Reconstructive Surgery
Orthopedic Surgery
Thoracic Surgery
Laparoscopic Surgery
Thoracoscopic Surgery

CUSA Excel®+ Console

Height	117 cm (46 in)	Depth	65 cm (25.5 in)
Width	56 cm (22 in)	Weight	104.3 kg (230 lb) international
Suction Power	0-660 mmHg		



Specifications

36 kHz Handpieces

Length	13.9 cm (5.48 in)
Diameter	16.4 mm (0.65 in)
Weight	68 g (2.4 oz)
Maximum Amplitude	210 µm

36 kHz Tips

Description	Length (cm / in)	Inner Diameter (mm / in)	Outer Diameter (mm / in)
PrecisionTip™ Ultrasonic Surgical Tip	5.64 / 2.221	1.14 / 0.045	1.45 / 0.057
Straight Extended PrecisionTip™ Ultrasonic Surgical Tip	12.51 / 4.924	1.14 / 0.045	1.45 / 0.057
Curved Extended PrecisionTip™ Ultrasonic Surgical Tip	12.51 / 4.924	1.14 / 0.045	1.45 / 0.057
MicroTip™ Ultrasonic Surgical Tip	5.28 / 2.080	1.57 / 0.062	1.93 / 0.076
Straight Extended MicroTip™ Ultrasonic Surgical Tip	12.15 / 4.783	1.57 / 0.062	1.93 / 0.076
Curved Extended MicroTip™ Ultrasonic Surgical Tip	12.15 / 4.783	1.57 / 0.062	1.93 / 0.076
Standard Tip	4.57 / 1.800	1.98 / 0.078	2.54 / 0.100
Straight Extended Standard Tip	11.44 / 4.504	1.98 / 0.078	2.54 / 0.100
Curved Extended Standard Tip	11.44 / 4.504	1.98 / 0.078	2.54 / 0.100
SaberTip™ Ultrasonic Surgical Tip	11.49 / 4.523	1.14 / 0.045	2.85 / 0.112
ShearTip™ Ultrasonic Surgical Tip	11.79/4.643	1.57/0.062	2.33/0.091
MicroTip™ Plus Ultrasonic Surgical Tip	19.27 / 7.586	1.57 / 0.062	1.93 / 0.076

23 kHz Handpieces (straight)

Length	22.2 cm (8.75 in)
Diameter	20.8 mm (0.82 in)
Weight	180 g (6.4 oz)
Maximum Amplitude	355 µm

23 kHz Tips

Description	Length (cm / in)	Inner Diameter (mm / in)	Outer Diameter (mm / in)
Standard Tip	7.98 / 3.140	1.98 / 0.078	2.54 / 0.100
Straight Extended Standard Tip	18.38 / 7.238	1.98 / 0.078	2.54 / 0.100
Curved Extended Standard Tip	18.38 / 7.238	1.98 / 0.078	2.54 / 0.100
MicroTip™	9.22 / 3.630	1.57 / 0.062	1.93 / 0.076
MacroTip™	7.95 / 3.130	2.64 / 0.104	3.18 / 0.125
Laparoscopic Tip	30.14 / 11.865	1.98 / 0.078	2.54 / 0.100

23 kHz Handpieces (angled)

Length	22.5 cm (8.85 in)
Diameter	20.8 mm (0.82 in)
Weight	180 g (6.3 oz)
Maximum Amplitude	185 µm

Integra®

CUSA® Excel+ Ultrasonic Surgical Aspiration System

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CUSA® Clarity

Ultrasonic Tissue Ablation System

REFERENCES

1. Data on file 510(K) Summary, K200774. Integra LifeSciences. Princeton, NJ, USA.
2. Single-use Integra products that come sterile.
3. CUSA Electrosurgery Module.
4. Includes footswitch and contamination guard (2 pack).
5. Precision (36 kHz) and Power (23 kHz) handpieces include one cleaning brush.

INDICATIONS

The CUSA Clarity Ultrasonic Surgical Aspirator System is indicated for use in surgical procedures where fragmentation, emulsification and aspiration of soft and hard (e.g. bone) tissue is desirable.

The CUSA Clarity Ultrasonic Surgical Aspirator is indicated for use in: Plastic and Reconstructive surgery, Orthopedic Surgery, Gynecological Surgery and Thoracic Surgery and the following specific uses:

Neurosurgery - including removal of primary and secondary malignant and benign brain and spinal tumors, including but not limited to meningiomas and gliomas

Gastrointestinal and Affiliated Organ Surgery – including removal of benign or malignant tumors or other unwanted tissue, including hepatic parenchyma, in open or laparoscopic procedures, hepatic resection, tumor resection, lobectomy or trisegmentectomy, or removal of tissue during liver allotransplantation and donor hepatectomy

Urological surgery- including removal of renal parenchyma during nephrectomy or partial nephrectomy

General Surgery – including removal of benign or malignant tumors or other unwanted soft or hard tissue in open or minimally invasive general surgical procedures

Laparoscopic Surgery - including removal of hepatic parenchyma in laparoscopic hepatic resection, lobectomy or trisegmentectomy, in laparoscopic donor hepatectomy or laparoscopic cholecystectomy or laparoscopic pancreatic jejunostomy, or pancreatectomy, or laparoscopic appendectomy, laparoscopic colon resection or laparoscopic partial gastrectomy

CONTRAINDICATION

This ultrasonic aspirator device is not indicated for and should not be used for the fragmentation, emulsification, and aspiration of uterine fibroids.

Please refer to the CUSA Clarity Operator's Manual for full indications, contraindications, cautions, and warnings.

For use in US only.

Availability of these products might vary from a given country or region to another, as a result of specific local regulatory approval or clearance requirements for sale in such country or region.

• Non contractual document. The manufacturer reserves the right, without prior notice, to modify the products in order to improve their quality.

• Warning: Applicable laws restrict these products to sale by or on the order of a physician.

• Consult product labels and inserts for any indication, contraindications, hazards, warnings, precautions, and instructions for use.

For more information or to place an order, please contact:

United States

USA 800-654-2873 ■ 888-980-7742 fax

International +1 609-936-5400 ■ +1 609-750-4259 fax

integralife.com

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CUSA® Clarity

Ultrasonic Tissue Ablation System

GENERAL CATALOG



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CUSA® Clarity
POWER. PRECISION. PERFORMANCE.



**STREAMLINED
SET UP.
READY
WHEN
YOU ARE.**

HOW DOES THE CUSA® CLARITY ULTRASONIC ASPIRATOR SYSTEM WORK?

The system performs three functions simultaneously:

1. Cavitation to fragment or rupture unwanted cells
2. Irrigation to cool the tip and provide a liquid medium to suspend tissue
3. Aspiration to clear the operative field and maintain tissue-tip coupling

The CUSA Clarity Ultrasonic Surgical Aspirator System is indicated for use in surgical procedures where fragmentation, emulsification and aspiration of soft and hard (e.g. bone) tissue is desirable.

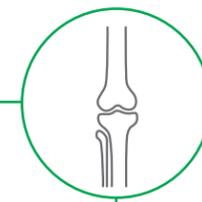
THE CUSA CLARITY ULTRASONIC SURGICAL ASPIRATOR IS INDICATED FOR USE IN:



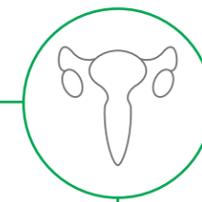
Neurosurgery



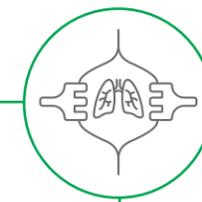
Plastic and Reconstructive Surgery



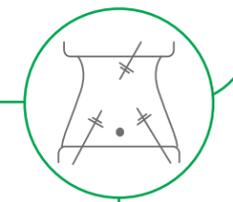
Orthopedic Surgery



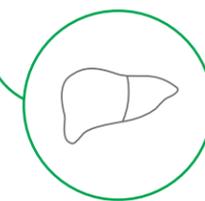
Gynecological Surgery



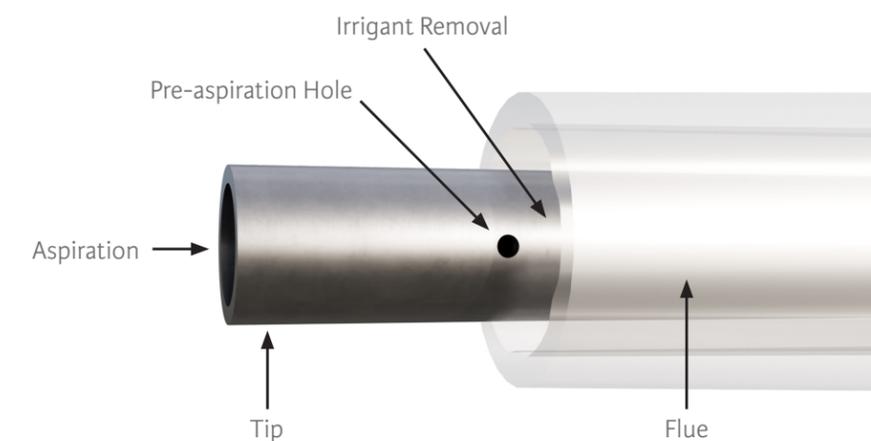
Thoracic Surgery



Laparoscopic Surgery



CUSA Clarity is indicated for Liver Resection and Liver Transplant Surgery



STREAMLINED SETUP, PRECISION, POWER AND SAFETY



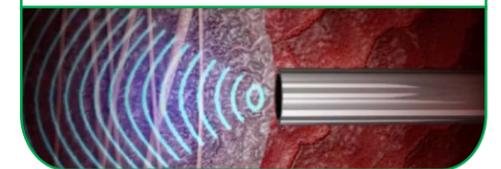
+ STREAMLINED

One-step tubing setup with CUSA Quick Connect™ Cartridge and Tubing Set. Users can also control amplitude, irrigation and aspiration levels during surgery using the scales and buttons on the touchscreen display.



36 kHz handpiece fully assembled

The 36 kHz handpiece is designed for safety and control in neurosurgical procedures, using high-frequency vibration to localize effect. The benefits are enhanced tissue selectivity, preservation of healthy tissue, and more efficient debulking and resection.¹



+ PRECISION & POWER

Choose the CUSA Clarity 36 kHz handpiece, which offers a lightweight and ergonomic design. Or choose the CUSA Clarity 23 kHz handpiece with an optional CEM™ nosecone for cautery at the touch of a button.



23 kHz handpiece fully assembled w/ CEM nosecone

A sterile, disposable "CUSA Electrosurgery Module" (CEM™) nosecone with button activation fits on the ultrasonic handpiece, allowing the user to remove unwanted tissue and coagulate tissue all with one handpiece assembly. When used with the CUSA Clarity CEM nosecone, the 23 kHz handpiece can provide both ultrasonics and coagulation, simultaneously or individually.

+ SAFETY

The unique and proprietary CUSA Clarity Tissue Select® Safety Setting enhances selectivity, enabling greater control when resecting near critical structures.

- Gives surgeon greater control and precision when resecting near critical structures
- Enhances tissue selectivity while maintaining fragmentation capability. The power to the site is limited while strength and efficacy in tissue removal are still provided.
- Provides maximum tissue selectivity
- Gives surgeon superior tactile feedback

CLARITY TIPS*

CUSA® Clarity 36 kHz Tips

Catalog#	Description	Length mm (in)	Inside Dimension mm (in)	Outside Dimension mm (in)	Qty.
C7411S	36 kHz Curved Extended MicroTip™	121.5 (4.78)	1.6 (0.06)	2.0 (0.08)	5 Pack
C7412S	36 kHz Standard Tip	45.7 (1.80)	2.0 (0.08)	2.6 (0.10)	5 Pack
C7414S	36 kHz Curved Extended Standard Tip	114.4 (4.50)	2.0 (0.08)	2.6 (0.10)	5 Pack
C7415S	36 kHz Curved Extended MicroTip™ Plus	192.7 (7.59)	1.6 (0.06)	2.0 (0.08)	5 Pack
C7417S	36 kHz Curved Extended ShearTip™	120.5 (4.74)	1.6 (0.06)	2.3 (0.09)	5 Pack



36 kHz handpiece fully assembled



36 kHz Standard Tip
C7412S



36 kHz Curved Extended ShearTip™
C7417S



36 kHz Curved Extended Standard Tip
C7414S



36 kHz Curved Extended MicroTip™ Plus
C7415S



36 kHz Curved Extended MicroTip™
C7411S

CUSA® Clarity 23 kHz Tips

Catalog#	Description	Length mm (in)	Inside Dimension mm (in)	Outside Dimension mm (in)	Qty.
C7401S	23 kHz Standard Tip	78.5 (3.09)	2.0 (0.08)	2.6 (0.10)	5 Pack
C7405S	23 kHz MacroTip™	77.2 (3.04)	2.6 (0.10)	3.2 (0.13)	5 Pack
C7418S	23 kHz Tough Tissue Tip	78.7 (3.10)	2.0 (0.08)	2.8 (0.11)	5 Pack
C7420S	23 kHz Bone Tip	167.1 (6.58)	1.1 (0.05)	3.7 (0.14)	5 Pack



23 kHz handpiece fully assembled



23 kHz Standard Tip
C7401S



23 kHz Tough Tissue Tip
C7418S



23 kHz MacroTip
C7405S



23 kHz Bone Tip
C7420S

*Single-use, sterile tip pack includes a tip, nosecone, flue, and stylet

SYSTEM AND ACCESSORIES

CUSA® Clarity Accessories

Catalog#	Description	Qty.
C7136	36 kHz Sterilization Tray	Each 1
C7636	36 kHz Sterilizable Torque Base	Each 1
C7602 ²	36 kHz Torque Wrench	5 Pack
C7300 ²	CUSA Quick Connect™ Cartridge & Tubing Set	5 Pack
C7500	Cleaning Brush	Each 1
C7005	Contamination Guard	2 Pack
C7550	Specimen Trap	12 Pack

Catalog#	Description	Qty.
C7123	23 kHz Sterilization Tray	Each 1
C7623	CUSA Clarity 23 kHz Sterilizable Torque Base	Each 1
C7601 ²	CUSA Clarity 23 kHz Torque Wrench	5 Pack
C7502	CUSA Clarity 23 kHz Handpiece Cleaning Brush	Each 1
C7523 ^{2,3}	CUSA Clarity 23 kHz CEM™ Sterile Nosecone	5 Pack



CUSA Quick Connect™
Cartridge & Tubing Set
C7300



Sterilization Tray
C7136 and C7123



Sterilizable Torque Base
C7623 and C7636



Torque Wrench
C7601 and C7602



Contamination Guard
C7005



Cleaning Brush
C7500 and C7502



Specimen Trap
C7550



CEM Nosecone
C7523

CUSA® Clarity System

Catalog#	Description	Qty.
C7000	Console ⁴	Each 1
C7001	Custom Cart	Each 1
C7036	36 kHz Handpiece ⁵	Each 1
C7023	23 kHz Handpiece ⁵	Each 1
C7002	Replacement Footswitch	Each 1



Console
(fully assembled)

Custom Cart
C7001