

Morcellator moresolution

High performance the easy way!



The needs of surgeons evolve

Time for a new class on the market!

Gynecological surgeons of today have the choice between two basic systems for the use of morcellators.

Reusable products

The market segment of fully reusable morcellators is based on the use of stainless steel and technology integrated in the handle such as the motor, drive and other functional parts. The disadvantage of this widespread product concept is the considerable weight, which can have a negative effect on handling and precision, especially during longer surgical interventions. Moreover, when blades are re-used, their sharpness is not guaranteed.

Disposable products

This second market segment relies on disposable products made of plastic. These products are in fact lightweight, but do not provide the performance capacity and functionality of a full-fledged morcellator. The throwaway mentality is also extremely disadvantageous and questionable ecologically, particularly when the future is considered. Continually purchasing disposable products also constitutes a considerable financial expense.

So the time has come for a new way of thinking.

The solution lies in a completely new product which combines the advantages of both existing concepts and eliminates their disadvantages.

Requirements for a new class of product:

- Use of particularly light high-performance plastics for optimal handling even during longer operations.
- Reusable materials in the main parts for the greatest economy and conservation of resources.
- High-performance drive technology for efficient, minimally invasive surgical interventions.
- Guaranteed sharp cutting edges for ideal surgical conditions.

The new class

We consulted extensively with surgeons and specialist physicians around the world, which led to the development of a fascinating, innovative product system, a system which constitutes a new class of its own on the morcellator market.

Axtrocare is proud to present the new moresolution morcellator – a quantum leap in gynecology.



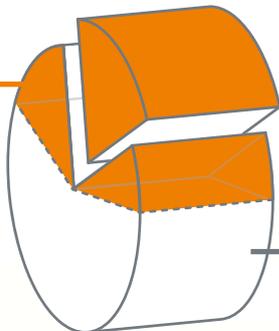
Disadvantages of stainless steel products

The heavy motor and gear mechanism are usually integrated in the handle of conventional models.

The high weight has a negative effect on handling and precision.

A lot of money is invested in a product design that is not at all optimal.

After several uses, the cutting edges may no longer be so sharp.



Disadvantages of disposable products

High costs for each operation, because the whole system is not reusable.

The product concept is not ecologically viable for the future.

There are limitations in performance and functionality.



The new moresolution morcellator

The incredible lightness of high performance!

The new moresolution morcellator system presented by Axtrocare is a quantum leap for gynecology and possibly one of the most innovative products introduced to the market in recent years.

In a product category all its own, the moresolution consistently reduces weight with high-performance plastics while delivering impressive performance capacity and extraordinary functionality.

How is that possible?

We have listened carefully to the needs of surgeons and specialist physicians throughout the world and met these with inspiring technology.



The new moresolution morcellator: performance, design and functionality perfected. The new class of lightweight on the market with knockout performance!

Handling:

The new lightweight construction ideally facilitates relaxed work.

Convenient click system for changing the cutting tube diameter during surgery.

On/off switch can be operated via the handle or foot pedal.

Functional selection for foot or hand operation via the control unit.

Greater safety with the cut/no-cut safety ring in combination with special trocar sleeves.

Change of rotational directions (left/right) and a unique oscillation mode for the highest efficiency during an operation.

Cutting tube with hardened tip for outstanding cutting quality.

Valve unit with special silicone valve as well as insertion and removal funnels for safe retrieval of the valve even when removing large amounts of tissue.

Reduced weight:

The handle is made of reusable, sterilizable high-performance medical grade plastic with an impressively lower weight than stainless steel, yet it is extremely impact-resistant.

In keeping with the goal of reducing the unit's weight, the powerful high-performance motor is integrated in the external control module.

There is also an integrated suspension device for the flexible shaft and control cabling to further reduce the weight load and enable optimal handling during surgery.

Higher performance:

Powerful high-performance motors delivering up to 1.5 Nm of torque.

Flexible drive via high-precision shaft.

Greater range of speed with the highest torques.

Highest cutting volume due to variable cutting tube sizes up to Ø 20 mm.



Convincing quality in every detail

Top form for performance and function!



1 Handpiece

The handle is made of reusable, sterilizable high-performance medical grade plastic with impressively lower weight compared to stainless steel, yet it is extremely impact-resistant.



2 On/off switch

For easy operation on the handpiece or with the foot switch.



3 Safety ring

For greater safety with an integrated cut/no-cut function in conjunction with the special trocar system.



4 Valve unit with special silicone valve

Includes insertion and removal funnels for safe retrieval of the valve. The disposable system ensures tight sealing.



5 Knife replacement

Convenient click system for changing the cutting tube diameter during surgery.

High-performance motor

The powerful, high-performance motor delivers up to 1.5 Nm of torque and is integrated in the external control module to save weight.



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Oscillation mode

Unique oscillation mode and change of rotational direction left/right for soft tissue.

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Special trocar system

With an adapter for the cut/no-cut safety function and valve locking.

8



Tissue rotation stop

Tissue stop function using a specially shaped trocar sleeve tube.

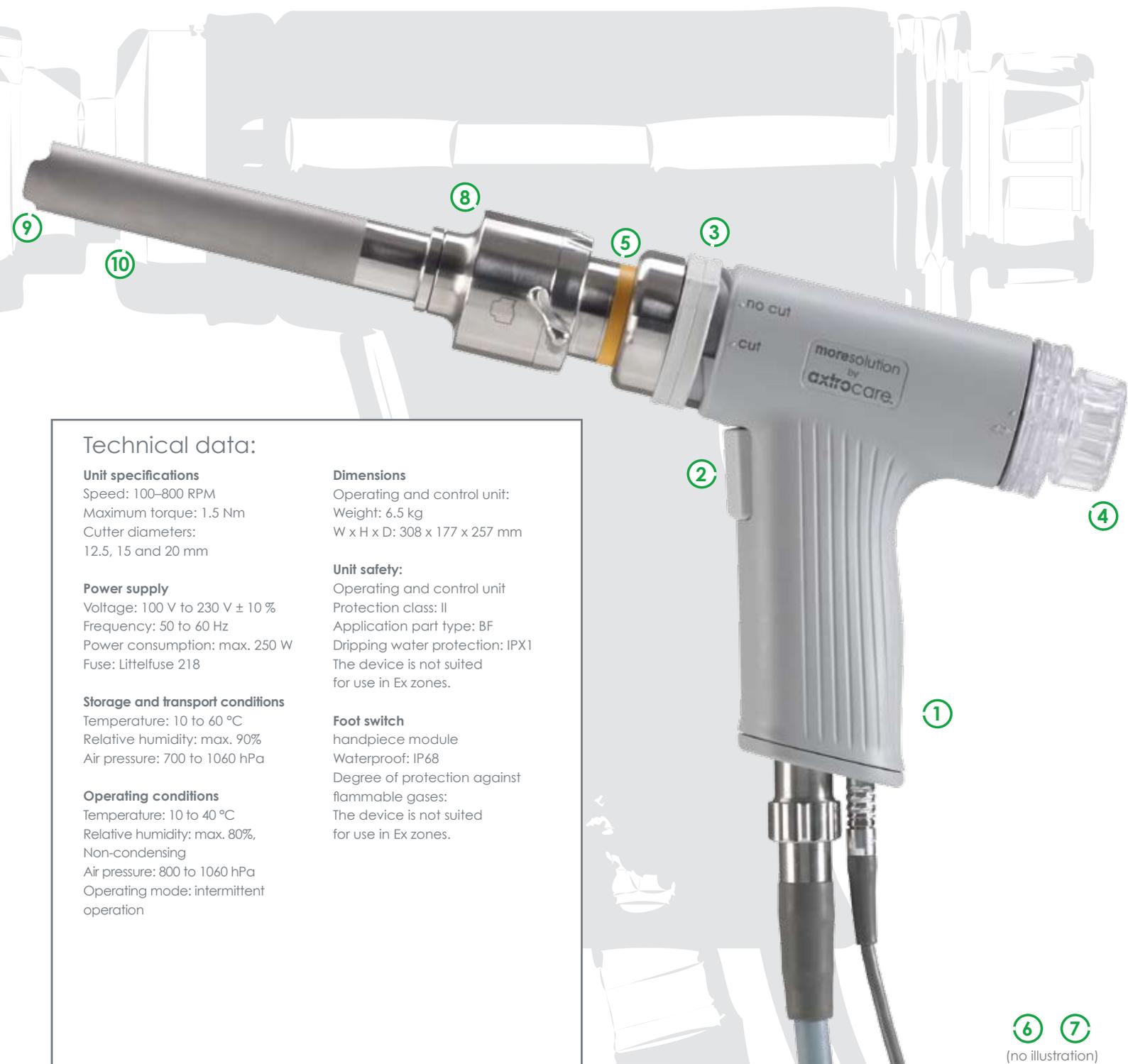
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Cutting knife

Hardened tip for guaranteed sharpness and outstanding cutting quality because it is a disposable product.

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Technical data:

Unit specifications

Speed: 100–800 RPM
 Maximum torque: 1.5 Nm
 Cutter diameters:
 12.5, 15 and 20 mm

Power supply

Voltage: 100 V to 230 V ± 10 %
 Frequency: 50 to 60 Hz
 Power consumption: max. 250 W
 Fuse: Littelfuse 218

Storage and transport conditions

Temperature: 10 to 60 °C
 Relative humidity: max. 90%
 Air pressure: 700 to 1060 hPa

Operating conditions

Temperature: 10 to 40 °C
 Relative humidity: max. 80%,
 Non-condensing
 Air pressure: 800 to 1060 hPa
 Operating mode: intermittent
 operation

Dimensions

Operating and control unit:
 Weight: 6.5 kg
 W x H x D: 308 x 177 x 257 mm

Unit safety:

Operating and control unit
 Protection class: II
 Application part type: BF
 Dripping water protection: IPX1
 The device is not suited
 for use in Ex zones.

Foot switch

handpiece module
 Waterproof: IP68
 Degree of protection against
 flammable gases:
 The device is not suited
 for use in Ex zones.

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 (no illustration)

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The new **moresolution morcellator**

is one of many fascinating products from Axtrocare. As an emerging company in the field, Axtrocare places great importance on direct dialog with surgeons and specialists around the world. This is the only way to achieve innovative, contemporary products which give users decisive advantages in handling, performance and economy.

Our partners are leading medical technology manufacturers whom we provide with detailed market studies, analyses and requirements specifications as a professional basis for developing exciting new products. The moresolution morcellator is the best example of this innovation strategy.

Experience the quantum leap in performance. Welcome to Axtrocare!

