Power Assisted Lipoplasty

PAL® LipoSculptor™ Electric Handpiece

MicroAire’s PAL® LipoSculptor™ is the only U.S.-patented liposuction instrument using a reciprocating motion (rather than rotating) to facilitate the movement of the cannula within tissue. This innovation reduces the amount of manual force and physical effort required to perform lipoplasty, especially in areas with fibrous tissue. The result is a better experience for both the surgeon and patient, compared to traditional liposuction.

- 2mm reciprocating stroke at 4000 cycles per minute
- Thumb-controlled speed throttle on handpiece
- Powered by a stand-alone electric console
- Special suction pumps are not necessary
- Autoclavable Instrument and electric cable
- High-grade stainless steel cannulas manufactured in the U.S.

Unlike ultrasonic and laser lipoplasty devices, the PAL® LipoSculptor™ does not heat, so there are no concerns for the accidental burning that can occur with other systems.

The innovative PAL® LipoSculptor™ is the only U.S.-patented liposuction instrument using a reciprocating motion (rather than rotating) to facilitate the movement of the cannula within tissue.

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Vaser® is a registered trademark of Sound Surgical Technologies LLC (SST), and is not affiliated with MicroAire Surgical Instruments LLC.

DERMATOLOGY TIMES, February 2003. “Liposuction Tools,” John Jesitus quoting Dr. Gerhard Sattler: “It’s dramatic how much better patients feel, how much more effectively we can treat them, how much more satisfied they are, and how far superior the results are compared to [traditional liposuction].”

MicroAire Surgical Instruments, LLC 3105 Grand Forks Boulevard Charlottesville, Virginia 22911 USA 800.722.0822 / +1 434.975.8000 Fax 800.648.4309 / +1 434.975.4131 www.microaire.com

1006-PAL[E] Electric Cable
PAL-730 LipoSculptor™ Manual Wand
PAL-900 Aspiration Tubing Set
PAL-1020 Standard Electric Console
PAL-700 Luer Lock Adapter
PAL-730 LipoSculptor™ Handpiece
PAL-500 Sterilization Tray
Components are autoclavable

Cannulas are autoclavable

Components are autoclavable

Components are autoclavable

Components are autoclavable
PAL® LipoSculptor™ Electric Handpiece

MicroAire’s PAL® LipoSculptor™ is the only U.S.-patented liposuction instrument using a reciprocating motion (rather than rotating) to facilitate the movement of the cannula within tissue. This innovation reduces the amount of manual force and physical effort required to perform lipoplasty, especially in areas with fibrous tissue. The result is a better experience for both the surgeon and patient, compared to traditional liposuction.

- 20mm reciprocating stroke at 4000 cycles per minute
- Thumb-controlled speed throttle on handpiece
- Powered by a stand-alone electric console
- Special suction pumps are not necessary
- Autoclavable Instrument and electric cable
- High-grade stainless steel cannulas manufactured in the U.S.

Unlike ultrasonic and laser liposuction devices, the PAL® LipoSculptor™ does not heat, so there are no concerns for the accidental burning that can occur with other systems.

PAL® LipoSculptor™ and Accessories

To order, call toll free 1-800-722-0822

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Turbo Cannulas

Provides significant increase in aspirant removal rate compared to standard cannulas.

- Special valve in the hub assembly allows ambient air to enter the cannula
- Makes Luer Lock cannulas compatible with the PAL® LipoSculptor™

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Unlike ultrasonic and laser lipoplasty devices, the PAL® LipoSculptor™ does not use heat, so there are no concerns for the accidental burning that can occur with other systems.

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**LipoSculptor™ Cannulas**

Small variations in the number of ports, as well as their size and location on the cannula, can have a significant impact on performance and outcome. Microline® has developed multiple cannula varieties, based on recommendations from surgeons.

**Mercedes**

The best overall, general-use LipoSculptor™ cannulas. Ranging from non-aggressive sculpting and extraction cannulas, to aggressive port sizes that are well-suited for large volume extraction and fibrous areas.

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**Flared Mercedes**

Aggressive, high volume cannula, ideal for debulking, separation, and post-massaging.

- **3.6mm Flared Mercedes**
  - Great aggressive of the Flared Mercedes, providing maximum extraction through a smaller cannula.
  - Good for breaking up fat without suction, prior to sculpting and extraction.

- **4.0mm Flared Mercedes**
  - More aggressive, best used for contouring and sculpting.

- **5.0mm Flared Mercedes**
  - Aggressive cannula providing maximum extraction.

**Single-Port**

- **360° of extraction.** Ideal for fine sculpting and feathering.
- Excellent for removing emulsified fat from the finer or in intercostal procedures.
- Well suited for lipolysis of the abdomen and flanks.

**Mirror Tri-Port II**

- **90° of extraction.**
- The least aggressive and most gentle cannula, available in varying lengths and diameters. Especially good for fine sculpting, and for lipolysis in sensitive areas such as the neck and back.

**Mirror Tri-Port III**

- **90° of extraction.**
- The Spatula is a shorter cannula with a buildup that makes it safer to use in small regions such as the neck, and in delicate areas such as the back.

**Double Mercedes**

60° of extraction.
- Good overall general-use cannula.
- Best for fibrous tissue and large-volume extraction.

**Tri-Port I**

- **270° of extraction.**
- High volume.

- **360° of extraction.**
- Ideal for feathering because of minimal volume.
- Small hole size. Similar to «©®» high-def cannulas.

**Flared Mercedes**

- **3.6mm Flared Mercedes**
  - Great aggressive of the Flared Mercedes, providing maximum extraction through a smaller cannula.
  - Good for breaking up fat without suction, prior to sculpting and extraction.

**Tri-Port II**

- **270° of extraction.**

**Helixeed Tri-Port III**

- **270° of extraction.**
- Aggressive cannula for high fibrous areas.
- Ideal for liposuction using. Small hole size.
- Similar to «©®» high-def cannulas.

**Tri-Port IV**

- **360° of extraction.**

**Spatula**

- **90° of extraction.**
- The Spatula is a shorter cannula with a buildup that makes it safer to use in small regions such as the neck, and in delicate areas such as the back.

**360° of extraction.**
- Good overall general-use cannula.
- Great for contouring and extraction.
- Ideal for fine sculpting and feathering.
- Excellent for removing emulsified fat from the finer or in intercostal procedures.
- Well suited for lipolysis of the abdomen and flanks.

**Offset Double Mercedes**

- **360° of extraction.**

- **360° of extraction.**
- More aggressive.
- Good overall general-use cannula.

- **3.6mm Offset Double Mercedes**
  - Good for fibrous tissue and large-volume extraction.

- **3.6mm Offset Double Mercedes**
  - Good for fibrous tissue and large-volume extraction.

**LipoSculptor™ Extraction Cannulas**

- **3mm Multi-Hole**
  - 3mm Multi-Hole
  - 3mm Double Mercedes
  - 3mm Flared
  - 4mm Flared

**LipoSculptor™ Feathering Cannulas**

- **3mm Tri-Port IV**
  - 3.6mm Tri-Port IV
  - 3.6mm Offset Double Mercedes
  - 4mm Offset Double Mercedes

**MIRRORED TRI-PORT II**

- **3.6mm Tri-Port IV**

- **3.6mm Tri-Port IV**

**TRI-PORT III**

- **3.6mm Tri-Port IV**

**TRI-PORT IV**

- **3.6mm Tri-Port IV**

**OFFSET DOUBLE MERCEDES**

- **3.6mm Tri-Port IV**

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**TRI-PORT I**

- **270° of extraction.**

**TRI-PORT II**

- **270° of extraction.**

**TRI-PORT III**

- **360° of extraction.**
- Moderately aggressive, general use cannula.
- Great for majority of cases.

**360° of extraction.**
- Good overall general-use cannula.
- Best for fibrous tissue and large-volume extraction.

**MIRRORED TRI-PORT II**

- **3.6mm Tri-Port IV**

- **3.6mm Tri-Port IV**

**TRI-PORT IV**

- **3.6mm Tri-Port IV**

**MULTI-HOLE**

- **3.6mm Tri-Port IV**

**SINGLE PORT**

- **3.6mm Tri-Port IV**

**TRI-PORT IV**

- **3.6mm Tri-Port IV**

**SPATULA**

- **3.6mm Tri-Port IV**

**OFFSET DOUBLE MERCEDES**

- **3.6mm Tri-Port IV**

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**TRI-PORT I**

- **270° of extraction.**

**TRI-PORT II**

- **270° of extraction.**

**TRI-PORT III**

- **360° of extraction.**
- Moderately aggressive, general use cannula.
- Good for majority of cases.
### PAL® LipoSculptor™ Cannulas

Small variations in the number of ports, as well as their size and location on the cannula, can have a significant impact on performance and outcome.

MicroLine® has developed multiple cannula varieties, based on recommendations from surgeons.

#### Mercedez

- **Flared Mercedes**
  - Aggressive, high volume cannula, ideal for debulking, separation, derotation and post-mixing.
  - 3mm Flared Mercedes: 360° of extraction.
  - 3.6mm Flared Mercedes: More aggressive, best used for contouring and sculpting.
  - Double Mercedes: Offset Double Mercedes: 360° of extraction.
  - Good for flaccid tissue and large-volume extraction.

- **Offset Double Mercedes**
  - 360° of extraction.
  - More aggressive.
  - Best overall general-use cannula.
  - Good for flaccid tissue and large-volume extraction.

- **Multi-Hole**
  - 360° of extraction.
  - Ideal for fine sculpting and feathering.
  - Excellent for removing emulsified fat to help with skin or subcutaneous procedures.
  - Well suited for liposuction of the abdomen and flank.

- **Single-Port**
  - 90° of extraction.
  - The least aggressive and most gentle cannula, available in varying lengths and diameters. Especially good for fine sculpting, and for liposuction in sensitive areas such as the neck and back.

- **Spatula**
  - 90° of extraction.
  - The Spatula is a shorter, non-aggressive cannula with a blunt tip that makes it safer to use in small regions such as the neck, and in delicate areas such as the back.

### Mirrored Tri-Port III

- 270° of extraction.
- High volume.
- Ideal for feathering because of small hole size.
- Similar to MicroLine® high-def cannulas.

### Tri-Port III

- 90° of extraction.
- Moderate volume.

### Helixxed Tri-Port III

- 270° of extraction.
- Aggressive cannula for high-flaccid areas.
- Ideal for gynecomastia cases.

### Tri-Port II

- 270° of extraction.
- Maximum volume.

### Mirrored Tri-Port II

- 270° of extraction.
- High volume.

### LipoSculptor™ Extraction Cannulas

- 3mm Multi-Hole
- 3mm Double Mercedes
- 3mm Flared
- 4mm Flared

### LipoSculptor™ Feathering Cannulas

- 3mm Tri-Port IV
- 3.6mm Tri-Port IV
- 3.6mm Offset Double Mercedes
- 4mm Offset Double Mercedes

### Table: Cannula Specifications

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Microline™ has developed multiple cannula varieties, based on recommendations from surgeons.

#### Palms

**LipoSculptor™ Cannulas**

- **Mercedes**
  - The best overall, general-use LipoSculptor™ cannulas. Ranging from non-aggressive sculpting and extraction to aggressive port sizes that are well-suited for large volume extraction and fibrous areas.

- **Flared Mercedes**
  - Aggressive, high-volume cannula, ideal for debulking, separation, dissection and post-muscle texturing.

- **Double Mercedes**
  - Non-aggressive sculpting and extraction.

- **Offset Double Mercedes**
  - Ideal for fine sculpting and feathering.

- **Mercedes**
  - Good overall general-use cannula.

- **Microline**
  - Good for fibrous tissue and large-volume extraction.

#### Multi-Hole Cannulas

- **3mm Multi-Hole**
  - Good overall general-use cannula.

- **4mm Flared**
  - Good for fibrous tissue and large-volume extraction.

#### Single-Port Cannulas

- **3mm Single Port**
  - Good overall general-use cannula.

- **4mm Single Port**
  - Good overall general-use cannula.

#### Spatula Cannulas

- **3.6mm Spatula**
  - Good overall general-use cannula.

- **4mm Spatula**
  - Good overall general-use cannula.

#### Mirrored Tri-Port Cannulas

- **Tri-Port**
  - 270° of extraction.
  - High volume.
  - Ideal for fine sculpting and feathering.

- **Helixed Tri-Port**
  - 270° of extraction.
  - Aggressive cannula for large-volume extraction.

- **Tri-Port IV**
  - 360° of extraction.
  - Ideal for fine sculpting and feathering.

- **Single Port**
  - 90° of extraction.
  - Moderately aggressive, general-use cannula.

- **3mm Tri-Port IV**
  - 360° of extraction.
  - Ideal for fine sculpting and feathering.

- **3.6mm Tri-Port IV**
  - 360° of extraction.
  - Ideal for fine sculpting and feathering.

- **3mm Offset Double Mercedes**
  - 360° of extraction.
  - Ideal for fine sculpting and feathering.

- **4mm Offset Double Mercedes**
  - 360° of extraction.
  - Ideal for fine sculpting and feathering.

### Cannula Specifications

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To order, call toll free 1-800-722-0822.
Power Assisted Lipoplasty

PAL® LipoSculptor™ Electric Handpiece

MicroAire’s PAL® LipoSculptor™ is the only U.S.-patented liposuction instrument using a reciprocating motion (rather than rotating) to facilitate the movement of the cannula within tissue. This innovation reduces the amount of manual force and physical effort required to perform lipoplasty, especially in areas with fibrous tissue. The result is a better experience for both the surgeon and patient, compared to traditional liposuction.¹

- 2mm reciprocating stroke at 4000 cycles per minute
- Thumb-controlled speed throttle on handpiece
- Powered by a stand-alone electric console
- Special suction pumps are not necessary
- Autoclavable Instrument and electric cable
- High-grade stainless steel cannulas manufactured in the U.S.

1Dermatology Times, February 2003. “Liposuction Tools,” John Jesitus quoting Dr. Gerhard Sattler: “It’s dramatic how much better patients feel, how much more effectively we can treat them, how much more satisfied they are, and how far superior the results are compared to [traditional liposuction].”

Unlike ultrasonic and laser lipoplasty devices, the PAL® LipoSculptor™ does not use heat, so there are no concerns for the accidental burning that can occur with other systems.

Power Assisted Lipoplasty

PAL-650 PAL® LipoSculptor™ and Accessories To order, call toll free 1-800-722-0822

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The innovative PAL® LipoSculptor™ is the only U.S.-patented liposuction instrument using a reciprocating motion (rather than rotating) to facilitate the movement of the cannula within tissue.

1020 Electric Console

- Maximum-speed control
- Accepts a single 1006-PAL[E] Electric Cable
- Available in 110v or 220v

1006-PAL[E] Electric Console

- Provides significant increase in aspirant removal rate compared to standard cannulas
- Special valve in the hub assembly allows ambient air to enter the cannula
- Luer Lock Adapter
- Makes Luer Lock cannulas compatible with the PAL® LipoSculptor™
- Special valve in the hub assembly allows ambient air to enter the cannula
- Makes Luer Lock cannulas compatible with the PAL® LipoSculptor™

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www.microaire.com

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¹- Dermatology Times, February 2003. “Liposuction Tools,” John Jesitus quoting Dr. Gerhard Sattler: “It’s dramatic how much better patients feel, how much more effectively we can treat them, how much more satisfied they are, and how far superior the results are compared to [traditional liposuction].”