

Powered Instruments



MICROAIRE®
For Surgery. For Life.™

Orthopaedic Powered Instruments and Accessories

About MicroAire

Our Story

In 1977, a team of engineers working in San Fernando, California, developed a set of three powered surgical instruments that could be used by orthopaedic surgeons to operate on bones and joints. The instruments—a drill, an oscillating saw and a reciprocating saw—were made with miniature vane motors, and powered by compressed air found in most hospital operating rooms.

The instruments were about the length of a typical pencil and the diameter of a penny, and were operated by a fingertip lever. They quickly won praise from surgeons who valued the precise control, unobstructed vision, high degree of torque and smooth running without vibration.

Shortly after the success of these first three instruments, two more instruments were introduced. A wire-driver, used to secure bone sections with stainless steel wire, and a bone chisel. These were similar in size and shape to the first instruments, they functioned in the same way, and once again the community of orthopaedic surgeons embraced the new tools and the reliability of the company behind these innovations.

With this early success, the company became a member of the Marmon Group in 1979, and was named MicroAire Surgical Instruments. Two years later, MicroAire introduced the industry's first line of pre-sterilized, packaged, disposable burs, blades and drills for its instruments. Through the mid-1990s, the company continued to produce new and innovative products, and saw its sales expand into the global marketplace. MicroAire's brand became synonymous with quality, innovation, unsurpassed performance and outstanding customer service.

In 1995, MicroAire relocated to its current home in Charlottesville, Virginia. From this new location, MicroAire launched a new line of small-power orthopaedic surgical instruments powered by a separate microprocessor console controlling the rpm, torque limits, hand piece recognition and irrigation system.

MicroAire continued its growth in 1998 by acquiring a ground-breaking, minimally invasive instrument for endoscopic treatment of carpal tunnel syndrome. The company also introduced the first pneumatic-powered instrument made especially for plastic surgery lipoplasty. This new instrument, the PAL LipoSculptor, is now the number-one, power-assisted lipoplasty device in the world.

In 2002, MicroAire became part of a family of medical companies under Colson Associates, Inc. MicroAire continued its growth and innovation with the introduction of the industry's first Nickel Metal Hydride (NiMH) battery-operated instruments. MicroAire's NiMH batteries are the longest lasting, most powerful and best-warranted battery on the market.

MicroAire's cost-containment pricing and quality craftsmanship have kept MicroAire positioned as a top manufacturer in the medical device industry for over three decades. MicroAire cherishes its reputation as a company whose performance is matched by its commitment to integrity and to continuously improving surgeon and patient outcomes.

Visit us online at www.microaire.com.

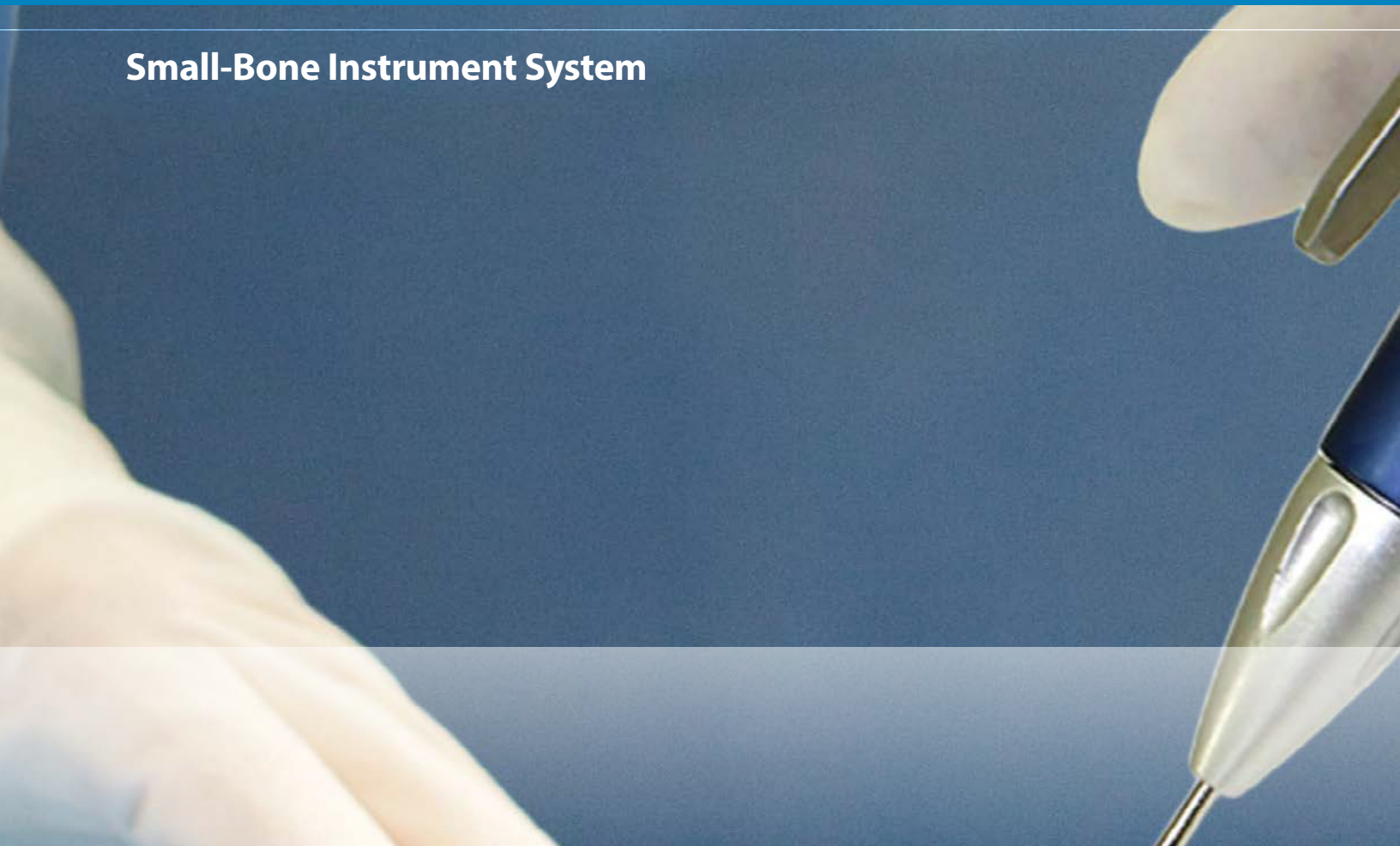


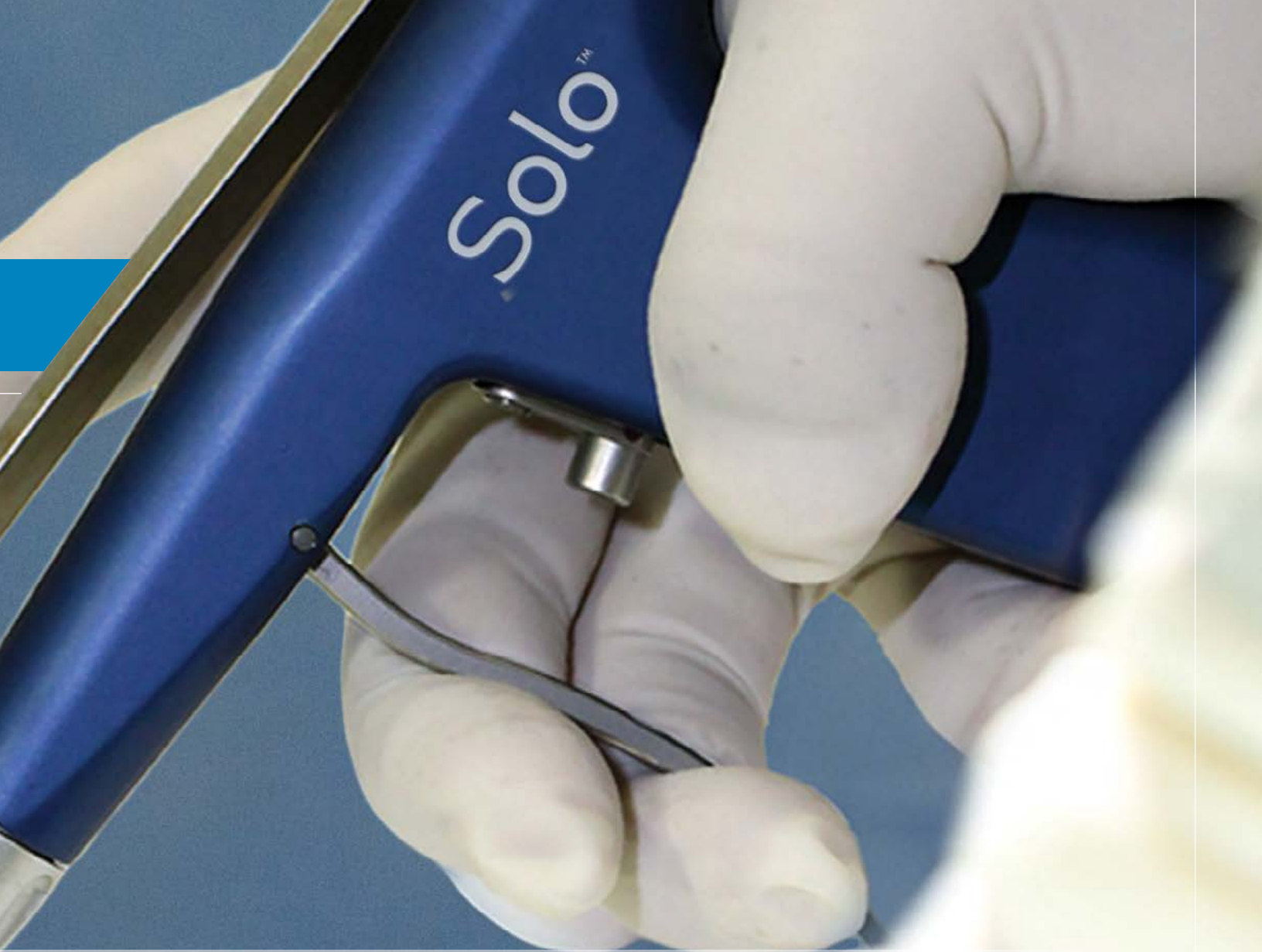
Table of Contents

Orthopaedic Powered Instruments	Series 5000 (Solo™)	1
	SmartDriver™ (Modular Trauma)	7
	Series 7000 (Large-Bone)	13
	Sternum Saw	18
	Pulse Lavage	19
Energy Supplies	Batteries, Chargers Consoles and Cables	23
Sterilization Cases	MicroAire Modular Sterilization Cases	26
Air Hoses	Pneumatic Air Hoses, Regulators, and Connection Manifolds	29

Series 5000

Small-Bone Instrument System





The ergonomic Solo™ Driver is the smallest wire driver with the widest range of wire sizes, part of the new 5000 Series small-bone power system developed with surgeons, for surgeons by MicroAire.

FEATURES AND BENEFITS

- Single-hand operation
- Fingertip control (forward, reverse, oscillate)
- Optimal visibility for hand and foot procedures
- Fully cannulated
- Light Weight and compact
- Ergonomic - resulting in less hand fatigue for surgeons
- No-fail wire guidance system
- Superior control for small delicate applications
- Ambidextrous

Every virtuoso requires
the right instrument.



5995U
Solo™ Driver
(Unitized) Wire Driver

The ergonomic Solo™ Driver is the smallest wire driver with the widest range of wire sizes, part of the 5000 Series small-bone power system developed with surgeons, for surgeons (for use with the new 5025 electric power console).

- Single-hand operation
- Fingertip control (forward, reverse, oscillate)
- Optimal visibility for hand and foot procedures
- Fully cannulated
- Wide range of wires (0.7mm to 2.0mm)
- Smaller than other wire-drivers
- Designed for ambidextrous use
- Ergonomic, comfortable and powerful

Accessories		
5025	Electric Instrument Control Console	p.25
5006-5000	Electric Instrument Cable for 5025 Console	p. 25
View K-Wires & Pins in the Power Disposables Catalog at www.microaire.com		



Modular Trauma Instrument System

5641

Dual Trigger Electric SmartDriver DUO®e

- Powered by the 5025 Console with onboard maximum speed setting
- Compliments 5000 Series Electric System
- Dedicated power
- Convenience of portability
- Quiet and smooth operation
- Variable-speed trigger
- Precise control
- Dual trigger forward/reverse and oscillate controls



5641-045

Automatic Wire Driver Coupler

Operating Speed: 1600 RPM

0.7mm – 1.6mm

Fits 5641 SmartDriver DUO®e Handpiece Only



5641-050

Automatic Pin Driver Coupler

Operating Speed: 1600 RPM

1.7mm – 3.2mm

Fits 5641 SmartDriver DUO®e Handpiece Only



Accessories

5641SC	SmartDriver DUO®e Sterilization Case	p. 28
5025	Electric Instrument Control Console	p. 25
5006-5000	Electric Instrument Cable for 5025 Console	p. 25
5000SC	Sterilization Case holds: Series 5000 Small-Bone Instrument System / 5641 SmartDriver DUO®e w/couplers	p. 27

Note: For full range of compatible couplers see pages 10 and 11.

Small-Bone System

5000ET

Electric Motor Handpiece with Hand Throttle

- Powered by the 5025 Electric Instrument Control Console
- Optional 5401 foot pedal
- Variable-speed throttle
- Also available without fingertip throttle (5000E)

Accessories

5000SC	Sterilization Case	p. 27
5025	Electric Instrument Control Console	p. 25
5006-5000	Electric Instrument Cable for 5025 Console	p. 25
5401	Foot pedal for 5025 console	p. 25
5025-5401	Foot pedal cable	p. 25



5000-100
Pneumatic Motor Handpiece

- Powered by compressed air or Nitrogen
- Various air-hose connectors available, to match your existing air-power source
- Variable-speed throttle

Pneumatic motor with throttle

- 5000-100 with MicroAire® connector
- 5000-200 with Hall® connector

Accessories		
5000SC	Sterilization Case	p. 27
9000-000	3-meter pneumatic hose with MicroAire® connector	p. 30
9013-000	3-meter pneumatic hose with Hall® connector	p. 30
9010-000	Throttle locking rings, 10 pack	p. 31
9500-000	Single-outlet regulator	p. 31
9502-000	Dual-outlet regulator	p. 31



Drill Modules



5930
Micro Drill Module

Operating Speed: 30,000 RPM

The work-horse of small bone surgery

Sculpting, drilling and reaming intramedullary canals for small bones

Built-in medium-length bur guard

Long and extra-long bur guards available

Accessories (See Power Disposables Catalog)	
1100-005	Long Bur Guard
1100-006	Extra-Long Bur Guard
Use with any of MicroAire's extensive selection of ZB-series burs	



5980
Jacobs® Style Drill Module

Operating Speed:
1,670 RPM

Accessories	
MicroAire 8051 and 8054-series twist drills	
Diameter between 1.0mm and 4.0mm, up to 127mm in length	
1645-004	Key (included)



5990
Synthes® Style Drill Module

Operating Speed:
1,670 RPM

Accessories	
MicroAire 8053-series quick-coupling twist drills	
Diameter between 0.1mm and 3.5mm, up to 127mm in length	

Saw Modules



5922 Micro Sagittal Saw Module

Operating Speed: 30,000 CPM

Sagittal saw module provides the ultimate in control, power, and maneuverability

Transverse or wedge osteotomies

Accepts a variety of ultra-thin (.3 mm) straight, angled, bent or offset blades



5945 Reciprocating Saw Module

Operating Speed: 16,000 CPM

Powerful, quick-cutting reciprocating saw

Oral and maxillofacial surgery

Shaping, contouring and preparing intramedullary canals of small bones



5950 Keyless Hall® Style Sagittal Saw

Operating Speed: 18,000 CPM

Powerful saw designed to operate longer and larger sagittal saw blades

Simple push-button release, eliminates the need for a hex wrench to lock blades

Blades positioned at any location along a 160° arc

Good visibility and optimal approach

Transverse or wedge osteotomies



5972 Oscillating Saw Module

Operating Speed: 30,000 CPM

For use with MicroAire Series 5000 motor module

Accepts MicroAire ZO series small oscillating blades

Accessories

1745-001	Locking Key (included)
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5130 High-Speed Drill

Coming Soon!

5932 20° Angled Drill

Coming Soon!

5970 Micro Oscillating Saw

Coming Soon!



5955 Hall® Style Sagittal Saw Module

Operating Speed: 18,000 CPM

Powerful saw designed to operate longer and larger sagittal saw blades

Blades positioned at any location along a 160° arc

Good visibility and optimal approach

Transverse or wedge osteotomies

Blades are secured in place with a 2250-001 Locking Tool (included)

Accessories

2250-001	Locking Key (included)
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1625
Pencil Grip Wire Driver

- Cannulated to 1.6mm
- Accepts K-wires with special plastic guides
- Also accepts special Twist Drills (wire guide 1600-012NS required, not included)
- Various air-hose connectors available to match your existing air-power source

Pencil Grip Wire Driver
1625-100 with MicroAire® connector
1625-200 with Hall® connector



Accessories		
9000-000	3-meter pneumatic hose with MicroAire® connector	p. 30
9013-000	3-meter pneumatic hose with Hall® connector	p. 30
9010-000	Throttle locking rings, 10 pack	p. 31
9500-000	Single-outlet regulator	p. 31
9502-000	Dual-outlet regulator	p. 31

2500
Impactor Power Osteotome

The 2500 Impactor is a unique, multi-purpose precision instrument that combines the control of a manual instrument with the efficiency of a powered instrument. The linear impulse motor impacts the cutting blade at high frequency. The blade remains essentially stationary, preventing jumping or heating at the blade tip. The 2500 Impactor is powered by compressed air or nitrogen at 35–100 psi. The greater the pressure, the greater the frequency of impulses. The autoclavable instrument requires no lubrication and is available with optional foot control.

- Shave precise layers and smoothly sculpt edges
- Minimal pressure allows delicate bone sculpting
- Perform dorsal hump reductions
- Decorticate the donor bone from the iliac crest and other sites
- Bone graft harvesting
- Rhinoplasty
- Orthopaedic/foot and ankle

Micro Impactor
2500-100 with MicroAire® Connector
2500-200 with Hall® Connector

Osteotomes		
2500-203	Osteotome 10mm x 50mm	
2500-205	Osteotome 06mm x 80mm	
2500-206	Osteotome 10mm x 80mm	
2500-209	Osteotome 15mm x 70mm	
2500-216	Osteotome 10mm x 80mm	
2500-316	Osteotome 06mm x 80mm	
Gouges		
2500-230	Gouge, Curved, 10mm x 80mm	
Accessories		
9000-000	3-meter pneumatic hose with MicroAire® connector	p. 30
9010-000	Throttle Locking Rings	p. 31
9500-000	Regulator, Single Outlet	p. 31
9502-000	Regulator, Dual Outlet	p. 31
9650-000	Sterilization Case	p. 28





SmartDriver™

Modular Trauma Instrument System

The MicroAire® SmartDriver™ is the first choice in power for orthopaedics, trauma and sports medicine.

SmartDrivers™ provide the versatility and choice of power sources including pneumatic, electric and the industry's first Nickel Metal Hydride Battery. The SmartDriver™ provides up to 140 in. oz. of torque and 1600 RPM of speed to insert K-wires and Steinmann pins up to 3.2mm for fixation. The high-torque drilling and light reaming couplers produce an impressive 31 in. lbs. of torque at 500RPM. The attachments are available for drilling, pinning, reaming, sawing and pulse lavage.

The Battery, Electric, and Pneumatic SmartDrivers™ accept the same wide selection of couplers, making all SmartDrivers an excellent choice for:

- ACL surgery
- I.M. Nailing
- Trauma
- Lavage
- Osteotomies
- Internal Fixation
- External Fixation
- Ilizarov fixation
- Drilling
- Reaming

6643
SmartDriver Duo®
Dual-Trigger Cordless Handpiece

Offering the ultimate in convenience and versatility, the SmartDriver Duo® functions as a cordless instrument. Choose between battery power: the industry's first autoclavable or aseptic transfer NiMH battery.

- Cordless freedom
- Dual-trigger (forward/reverse/oscillate)
- Variable-speed triggers
- Single-hand operation
- Wide selection of quick-connect couplers
- Designed for percutaneous drilling and fixation
- Advanced NiMH battery technology
- Quick charging
- More power, longer running time
- Autoclavable



Accessories		
6643-040	Sterilization Case and Washer Tray. Fits two handpieces and couplers.	p. 28
7500-700	Universal Battery Charger	p. 24
6640-710	NiMH SmartDriver™ Battery Pack	p. 24
7505-710	Large NiMH Battery Pack	p. 24
7500-615	Aseptic Battery Housing	p. 24
7500-620	Aseptic NiMH Battery Pack	p. 24
7500-625	Charging Adapter	p. 24
7500-630	Aseptic Transfer Shield	p. 24



A complete collection of SmartDriver™ couplers can be found on pages 10 - 11



6643-045
Automatic Wire Driver Coupler
(Fits 6643 SmartDriver Duo®)

Operating Speed: 1600 RPM
0.7mm – 1.6mm
Fits 6643 SmartDriver Duo® Handpiece Only



6643-050
Automatic Pin Driver Coupler
(Fits 6643 SmartDriver Duo®)

Operating Speed: 1600 RPM
1.7mm – 3.2mm
Fits 6643 SmartDriver Duo® Handpiece Only

5641

Dual Trigger Electric SmartDriver DUO®e



- Powered by the 5025 Console with onboard maximum speed setting
- Compliments 5000 Series Electric System
- Dedicated power
- Convenience of portability
- Quiet and smooth operation
- Variable-speed trigger
- Precise control
- Dual trigger forward/reverse and oscillate controls



5641-045 Automatic Wire Driver Coupler

(Fits 5641 SmartDriver DUO®e)

Operating Speed: 1600 RPM
0.7mm – 1.6mm



5641-050 Automatic Pin Driver Coupler

(Fits 5641 SmartDriver DUO®e)

Operating Speed: 1600 RPM
1.7mm – 3.2mm

Accessories

5641SC	SmartDriver DUO®e Sterilization Case	p. 28
5025	Electric Instrument Control Console	p. 25
5006-5000	Electric Instrument Cable for 5025 Console	p. 25
5000SC	Sterilization Case holds: Series 5000 Small-Bone Instrument System / 5641 SmartDriver DUO®e w/couplers	p. 27

6640

Pneumatic SmartDriver™



- Time-proven reliability of air power
- Adaptable to many existing air systems
- Compliments Series 5000 Pneumatic System
- Variable-speed trigger
- Precise control
- Forward/reverse control on instrument base



6645 Automatic Wire Driver Coupler

(Fits 6640 and 1641 SmartDrivers™)

Operating Speed: 1600 RPM
0.7mm – 1.6mm



6650 Automatic Pin Driver Coupler

(Fits 6640 and 1641 SmartDrivers™)

Operating Speed: 1600 RPM
1.7mm – 3.2mm

Connectors

6640-100	Pneumatic SmartDriver™ Handpiece (with MicroAire® Hose Connector)
6640-200	Pneumatic SmartDriver™ Handpiece (with Hall® Hose Connector)

Accessories

5641SC	SmartDriver™ Sterilization Case	p. 28
9000-000	3-meter pneumatic hose with MicroAire® connector	p. 30
9013-000	3-meter pneumatic hose with Hall® connector	p. 30
5000SC	Series 5000 Sterilization Case	p. 27

Drilling and Reaming Couplers

The SmartDriver™ line offers exceptional speed and torque for tunneling in ACL surgery, trauma drilling, and intramedullary reaming for I.M. nails.



**6665-M1
Hudson®
Coupler**

Operating Speed: 1600 RPM



**6680
Jacobs®-Style
Coupler 5/32"**

Operating Speed: 1600 RPM
1645-004 Key (included)



**6690
Synthes® Quick
Connect Coupler**

Operating Speed: 1600 RPM



**6660
Trinkle Coupler**

Operating Speed: 1600 RPM



**6686
Jacobs®-Style
Coupler 1/4"**

Operating Speed: 1600 RPM
4100-030 Key (included)



**6688
Keyless Drill
Coupler 1/4"**

Operating Speed: 1600 RPM



**6685
Jacobs®-Style
High-Torque
Reamer
Coupler 1/4"**

Operating Speed: 500 RPM
4100-030 Key (included)



**6665
Hudson®
High-Torque
Reamer Coupler**

Operating Speed: 500 RPM



**6687
Zimmer®
(Hudson®
Modified Trinkle)
Reamer Coupler**

Operating Speed: 500 RPM



**6689
Synthes®
Reamer
Coupler**

Operating Speed: 500 RPM

Wire and Pin Driving

Automatic wire and pin couplers allow for simple placement of wires, pins and guide wires. Use the oscillate feature for accurate placement without spooling of soft tissue.



5641-045 Automatic Wire Driver Coupler

(Fits 5641 SmartDriver DUO®e)

Operating Speed: 1600 RPM

0.7mm – 1.6mm

Fits 5641 SmartDriver DUO®e
Handpiece Only



5641-050 Automatic Wire Driver Coupler

(Fits 5641 SmartDriver DUO®e)

Operating Speed: 1600 RPM

0.7mm – 3.2mm

Fits 5641 SmartDriver DUO®e
Handpiece Only



6643-045 Automatic Wire Driver Coupler

(Fits 6643 SmartDriver Duo®)

Operating Speed: 1600 RPM

0.7mm – 1.6mm

Fits 6643 SmartDriver Duo®
Handpiece Only



6643-050 Automatic Pin Driver Coupler

(Fits 6643 SmartDriver Duo®)

Operating Speed: 1600 RPM

1.7mm – 3.2mm

Fits 6643 SmartDriver Duo®
Handpiece Only



6645 Automatic Wire Driver Coupler

(Fits 6640 and 1641 SmartDrivers™)

Operating Speed: 1600 RPM

0.7mm – 1.6mm



6650 Automatic Pin Driver Coupler

(Fits 6640 and 1641 SmartDrivers™)

Operating Speed: 1600 RPM

1.7mm – 3.2mm

Sawing

Three styles of sagittal saws and a reciprocating saw for precision and heavy-duty cutting. Sagittal saws are available with quick-connect keyless connections or with locking keys.



6670
Sagittal Saw Coupler with Key

Operating Speed: 18,000 CPM
Accepts MicroAire® ZS-0XX and ZS-3XX
Sagittal Blades
2250-001 Hex Wrench (included)



6672
Keyless Sagittal Saw Coupler

Operating Speed: 18,000 CPM
Accepts MicroAire® ZS-3XX Sagittal Blades



6673
**Heavy-Duty Sagittal
Saw Coupler**

Operating Speed: 18,000 CPM
Accepts MicroAire® ZO-7XXX (not longer than
71mm),
ZS-0XX and ZS-3XX Sagittal Blades
2250-001 Hex Wrench (included)



6400
Reciprocating Saw Coupler

Operating Speed: 16,000 CPM
Accepts MicroAire® 1400 Series and ZR Series
Reciprocating Blades and Rasps

Pulse Lavage Coupler



Used for debriding bone surfaces and cleaning of trauma
and other soft tissue wounds. MicroAire® offers a wide
range of tubing sets for specific surgical applications,
with extra nozzles and splash shields available.

6640-474
Pulse Lavage Coupler

*Note: See page 21 for complete list of
tubing sets and accessories.*



Series 7000

Large-Bone Instrument System

MicroAire proudly offers the Series 7000, a complete line of battery and pneumatic-powered instruments for large-power orthopaedic applications. The Series 7000 features three handpieces and a variety of modular reaming, sawing and drilling attachments.

Pneumatic

7105-200

Pneumatic Drill/Reamer

- Drill speed: 750 rpm
- Drill torque: 50 in. lbs (5.6 Nm)
- Reamer speed: 250 rpm
- Reamer torque: 150 in. lbs (16.9 Nm)



7205-200

Pneumatic Oscillating Saw

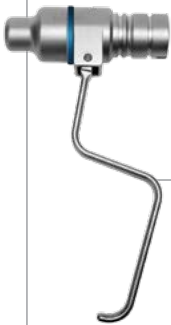
- Saw speed: 13,000 cpm
- Arc 4.5°
- 12-position rotating head
- Secure latch-style blade locking system



7405-200

Pneumatic Reciprocating Saw

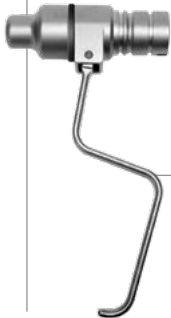
- Saw speed: 14,000 cpm
- 360° blade rotation
- Blade stroke 3.2 mm



7100-045 Wire/Pin Driver Coupler

(Used only with 7105)

Operating Speed: 750 RPM
Accepts wires and pins from 1.6mm to 2.8mm



7100-050 Pin Driver Coupler

(Used only with 7105)

Operating Speed: 750 RPM
Accepts wires and pins from 3.2mm to 4.0mm

Accessories		
9700-000	Sterilization Case for Series 7000 Pneumatic System	p. 27
7013-000	Large Power "Whisper" Air Hose with Hall® Connector – 3-meter	p. 30
9013-000	3-meter pneumatic hose with Hall® connector	p. 30

A complete collection of Series 7000 couplers can be found on pages 16 - 17.



Cordless

Offering the ultimate in convenience and versatility, Series 7000 handpieces function as a cordless instrument. The Series 7000 battery Large Power System features the industry's first autoclavable (or aseptic transfer) Nickel Metal Hydride (NiMH) Battery. This system includes a drill/reamer, oscillating saw and reciprocating saw, along with a wide selection of attachments.

7505

Cordless Drill/Reamer

- Operates at two speeds for multiple drilling and reaming applications
- 16 different coupler attachments
- Drilling, reaming, pinning, and wound debridement
- Drill speed: 750 rpm
- Drill torque: 50 in. lbs (5.6 Nm)
- Reamer speed: 250 rpm
- Reamer torque: 150 in. lbs (16.9 Nm)

7506

Cordless Oscillating Saw

- Dual speed control
- Secure latch-style blade locking system
- Cutting head may be rotated into 8 positions for cutting in any plane
- Unsurpassed power and speed for quick and complete osteotomies
- Saw speed: 15,000 cpm
Low speed: 12,000 cpm
- Arc 4°

7507

Cordless Reciprocating Saw

- Saw speed: 15,000 cpm
- New simple twist-lock blade hub
- Blade stroke 3.2mm
- 360° blade rotation



7505-045 Wire/Pin Driver Coupler

(Used only with 7505 Drill/Reamer)

Operating Speed: 750 RPM
Accepts Wires and Pins from 1.6 mm to 2.8 mm



7505-050 Pin Driver Coupler

(Used only with 7505 Drill/Reamer)

Operating Speed: 750 RPM
Accepts wires and pins from 3.2mm to 4.0mm

Accessories

7505-040	Sterilization Case and Washer Tray	p. 27
7500-700	Universal Battery Charger	p. 24
7505-710	Large NiMH Battery Pack	p. 24
7500-615	Aseptic Battery Housing	p. 24
7500-620	Aseptic NiMH Battery Pack	p. 24
7500-625	Charging Adapter	p. 24
7500-630	Aseptic Transfer Shield	p. 24

Drilling



7100-003
**Jacobs®-Style
Coupler 1/4" (with
key)**

Operating Speed: 750 RPM
4100-030 Key (included)



7100-004
**Keyless
Coupler 1/4"**

Operating Speed: 750 RPM



7100-005
**Keyless
Coupler 1/8"**

Operating Speed: 750 RPM



7100-006
**Synthes® Quick
Connect Coupler**

Operating Speed: 750 RPM



7100-051
**Zimmer®
(Hudson®
Modified Trinkle)
Coupler**

Operating Speed: 750 RPM



7100-058
Hudson® Coupler

Operating Speed: 750 RPM



7100-002
Trinkle Coupler

Operating Speed:
750 RPM

Pulse Lavage



7100-474
**Pulse Lavage
Coupler**

Uses 5740 tubing sets
*Note: See page 21 for
complete list of tubing sets
and accessories.*

Wire/Pin Driving



7505-045
**Wire/Pin Driver
Coupler**

(Used only with
7505 Drill/Reamer)

Operating Speed: 750 RPM
Accepts Wires and Pins
from 1.6 mm to 2.8 mm

Reaming



7100-001
Zimmer® Reamer
Coupler (Hudson®
Modified Trinkle)

Operating Speed: 250 RPM



7100-008
Hudson®
Reamer Coupler

Operating Speed: 250 RPM



7100-010
Jacobs®-Style
Coupler 1/4"

Operating Speed: 250 RPM
4100-030 Key (included)



7100-011
Harris/Aesculap®
Reamer Coupler

Operating Speed: 250 RPM



7100-111
Synthes® Reamer
Coupler

Operating Speed: 250 RPM



7100-112
Synthes®
Non-reversing
Reamer Coupler

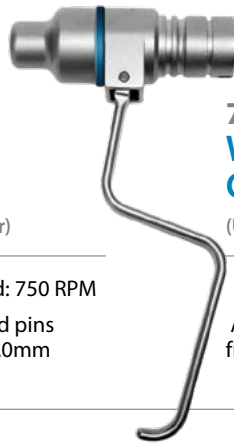
Operating Speed: 250 RPM



7505-050
Pin Driver
Coupler

(Used only with
7505 Drill/Reamer)

Operating Speed: 750 RPM
Accepts wires and pins
from 3.2mm to 4.0mm



7100-045
Wire/Pin Driver
Coupler

(Used only with 7105)

Operating Speed: 750 RPM
Accepts wires and pins
from 1.6mm to 2.8mm



7100-050
Pin Driver Coupler

(Used only with 7105)



Operating Speed: 750 RPM
Accepts wires and pins
from 3.2mm to 4.0mm

7800
Cordless Sternum Saw

- 7800-002 Sternum Guard included
- 14.4-volt NiMH battery
- Three battery types
- Autoclavable or aseptic-transfer batteries
- Variable-speed trigger
- Optimal balance
- Simple twist-lock blade hub
- Standard or aggressive saw blade
- Adjustable for inferior or superior sternotomy approaches

Accessories		
ZR-032M	Sternum Saw Blade	p.18
7800-002	Sternum Guard	p.18
6640-710	NiMH Battery Pack	p.24
7505-710	Large NiMH Battery Pack	p. 24
ZR-033M	Aggressive Saw Blade	p.18
7500-700	NiMH Battery Charger	p.24
7500-615	Aseptic Battery Housing	p. 24
7500-620	Aseptic NiMH Battery Pack	p. 24
7500-625	Charging Adapter	p. 24
7500-630	Aseptic Transfer Shield	p. 24



Part No.	Width	Usable Length	Cut Thickness	Material Thickness	TPI
ZR-032M	9.4 mm	34 mm	1.0 mm	0.6 mm	18
					
ZR-033M	9.4 mm	34 mm	1.0 mm	0.6 mm	16
					

Pulse Lavage

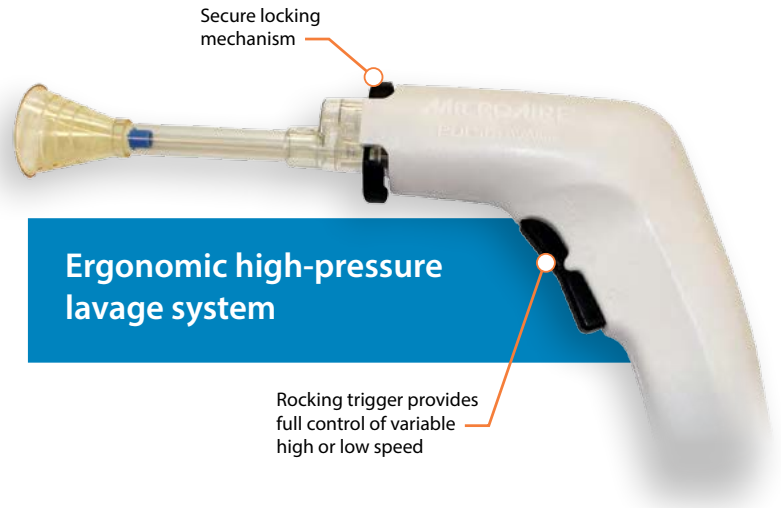
**Fully-Disposable and Semi-Disposable
Pulse Lavage System**



A high-pressure lavage system with an ergonomic shape to reduce muscle fatigue in total joint procedures.

Fully-Disposable Pulse Lavage

- For use in total joint procedures
- Concurrent suction with soft cone splash shield for optimal fluid containment without damaging soft tissue
- Ergonomic shape to reduce muscle fatigue
- Specific design to enhance suction capabilities
- Complete disposable system



Ergonomic high-pressure lavage system

201-02-00 Disposable Pulse Lavage Component Kit

- Includes Fully-Disposable Pulse Lavage, handpiece and battery

201-04-00 Disposable Pulse Lavage Hip Kit

- Includes Fully-Disposable Pulse Lavage, hand piece, battery, shower spray tip with splash shield and femoral spray tip

201-03-00 Disposable Pulse Lavage Knee Kit

- Includes Fully-Disposable Pulse Lavage, hand piece, battery, shower spray tip with splash shield

201-05-00 Disposable Pulse Lavage Fan Spray Kit

- Includes Fully-Disposable Pulse Lavage, handpiece, battery and fan spray tip with splash shield

Fully Disposable Pulse Lavage Compatible Tips



**201-00-52
Femoral Brush Tip**



**201-00-37
Shower Spray Tip w/ Splash Shield**



**201-00-46
Femoral Spray Tip**



**201-00-44
Fan Tip w/ Splash Shield**

201-00-80 Splash Shield

- 6 inch (15.2cm)



**201-00-50
Shower Spray Tip**



**201-00-51
Fan Spray Tip**

Semi-Disposable Pulse Lavage

- Ergonomic design
- Integrated suction
- Accepts integrated-suction or non-suction tubing sets
- Total knee and hip arthroplasty
- Trauma/wound debridement
- Flexible splash shields on suction tubing sets
- Rigid splash shields available for non-suction tubing sets



Accessories

6640-474	Pulse Lavage Coupler for MicroAire® SmartDriver Handpieces	p.11
7100-474	Pulse Lavage Coupler for MicroAire® Series 7000 Drill/Reamers	p.16
4740-013	Small Splash Shield (4 cm)	
4700-015	Large Splash Shield (15 cm)	
4700-016	Medium Splash Shield (10 cm)	
5740-100	MicroAire® Hose Connector Fits 9000-000 MicroAire® Standard Air Hose	
5740-200	Hall® Style Hose Connector Fits 9013-000 Hall® Style Air Hose	
5740-600	Synthes® Style Hose Connector Fits 9017-000 Stryker® Style Air Hose	

Tubing Sets, including integrated suction

- 40% increased flow
- Also compatible with 4740 handpiece and Pulse Lavage couplers

5740-020
Standard Tubing

5740-020S
Standard Tubing with Suction



5740-060 General Tubing Package

Includes:

- 5740-020 Standard Tubing
- 5740-005 Showerhead Nozzle

5740-061 Hip Tubing Set

Includes:

- 5740-020 Standard Tubing
- 5740-005 Showerhead Nozzle
- 5740-006 Femoral Spray Nozzle

5740-062 Knee Tubing Set

Includes:

- 5740-020 Standard Tubing
- 5740-008 Angled Showerhead Nozzle

5740-061S Hip Tubing Set with Suction

Includes:

- 5740-020S Standard Tubing with Suction
- 5740-005S Showerhead Nozzle with Suction
- 5740-006S Femoral Spray Nozzle with Suction

5740-062S Knee Tubing Set with Suction

Includes:

- 5740-020 Standard Tubing with Suction
- 5740-005S Showerhead Nozzle with Suction

Semi-Disposable Pulse Lavage Nozzles



5740-008
Angled Showerhead Nozzle



5740-006
Femoral Spray Nozzle



5740-004
Single Orifice Nozzle



5740-006S
Femoral Spray Nozzle with Suction



5740-004S
Single Orifice Nozzle with Suction



5740-010S
Femoral Brush with Suction



5740-005
Showerhead Nozzle



5740-009
Extended Femoral Spray Nozzle



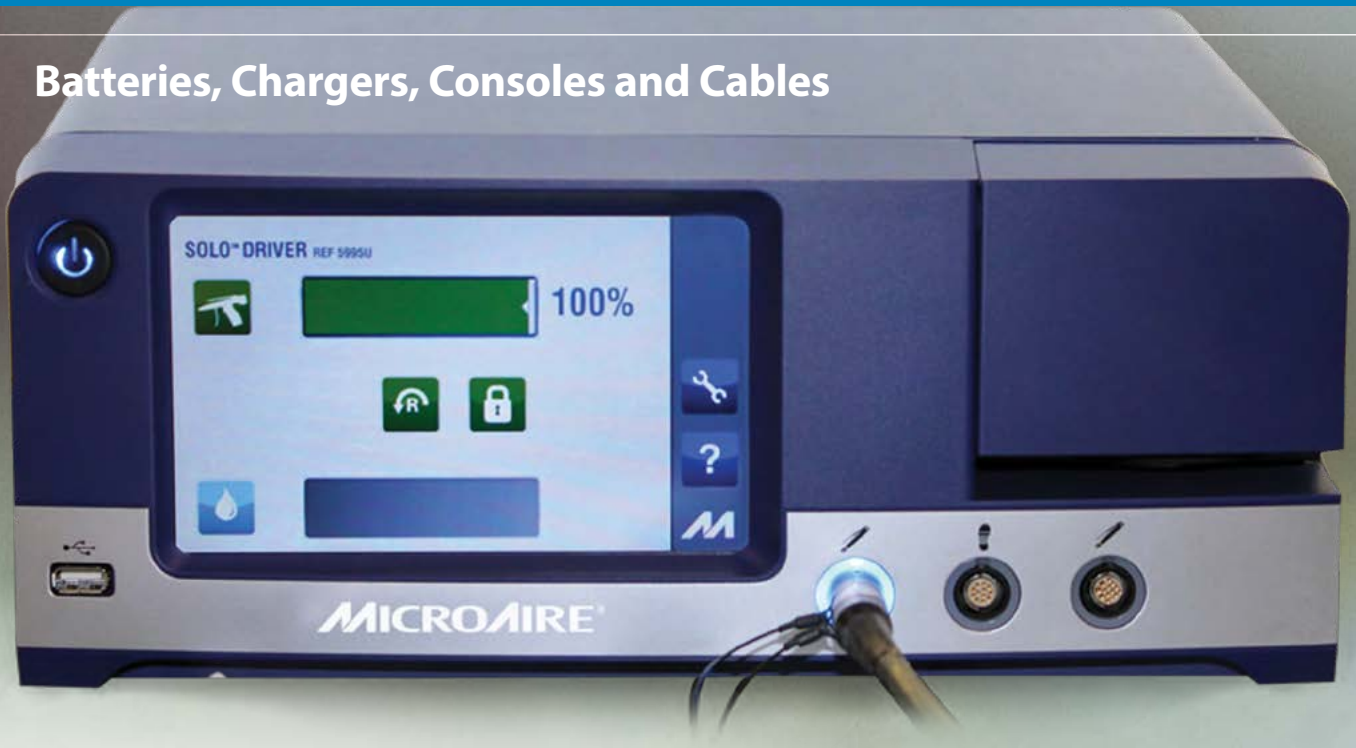
5740-005S
Showerhead Nozzle with Suction



5740-009S
Extended Femoral Spray Nozzle with Suction

Energy Supplies

Batteries, Chargers, Consoles and Cables



MicroAire® offers state-of-the-art power supplies through a variety of systems that will match your needs in the operating room.

MicroAire® NiMH batteries are the strongest and longest-lasting batteries in the industry. We'll keep you running strong through the toughest cases.

MicroAire Batteries

MicroAire Surgical Instruments is the market-leading pioneer of NiMH battery technology. With 14.4 volts of power, MicroAire batteries have plenty of power and capacity to last through even the toughest cases, including total joint arthroplasty. MicroAire NiMH batteries feature longer run times, more power, longer shelf lives, and the best warranties.

Benefits of NiMH

- Twice the run time
- Three times the battery life
- Batteries last an average of one year+
- No recharge-memory limits
- 30% more torque

Environmentally friendly

- No special disposal requirements
- No heavy metals
- Quick charging

Sterilization options

- Autoclave
- Sterrad®

7505-710 Large NiMH Battery

- Fits any of MicroAire's battery-powered orthopaedic instruments
- 14.4 volts
- Full one-year warranty—the best in the industry



6640-710 SmartDriver NiMH Battery

- Designed specifically for SmartDriver™ instruments
- Also fits MicroAire's 7800 Sternum Saw
- Smaller and lighter than the 7505-710 Large NiMH Battery
- 14.4 volts provide unparalleled strength and run time
- Full one-year warranty—the best in the industry



7500-700 Universal Battery Charger

- Charges 14.4-volt Nickel Metal Hydride (NiMH) autoclavable or aseptic-transfer battery
- Charge up to four MicroAire NiMH batteries at one time
- SmartDriver™ and Large-Bone batteries can be charged at the same time
- NiMH batteries have longer run times and do not require memory-based charging
- Batteries charged in 90 minutes or less
- MicroAire NiMH batteries last three times longer and have 30% more power than the leading NiCad system



Universal Drop-In Aseptic Battery Kit

- 7500-620 Aseptic NiMH Battery Pack 14.4-volts
- 7500-625 Charging Adapter
- 7500-630 Aseptic Transfer Shield
- 7500-615 Battery Housing

- Fits any of MicroAire's battery-powered orthopaedic instruments
- Battery is not autoclaved
- Contained within a sterile housing (7500-615) that is autoclaved
- Smaller and lighter than the 7505-710 Large NiMH Battery
- Full one-year warranty—the best in the industry



Power Console

5025

Electric Instrument Control Console

- Runs two handpieces simultaneously
- Intuitive graphical user interface
- Precise “smart loop” instrument control
- Integrated irrigation pump
- For use with 5000 series small-bone instruments, 1000 series small power instruments, SmartDriver DUO®e and Solo™ and 1641 Single Trigger electric SmartDriver™



5601-IT

Irrigation Tubing



5401

Electric Foot Pedal

- Compatible with 5025 console only
- Two pedals provide variable-speed control for forward or reverse rotation
- Irrigation control
- Needs 5025-5401



5025-5401

Foot Pedal Cable



5006-5000

Cable for 5000 Series Electric Instruments

Connects to 5025 Power Console



5006-1000

Cable for 1000 Series Electric Instruments

Connects to 5025 Power Console



1006-1000

Cable for 1000 Series Electric Instruments

Connects to 1025 Power Console



ELEC-220

Power Cord (EU)



A close-up photograph of the interior of a MicroAire sterilization case. The case is made of perforated metal. On the left, three black surgical instruments with silver-colored heads are mounted vertically. To the right, a rectangular metal plate holds a grid of 12 circular ports, arranged in three rows of four. The background is a blurred blue and green gradient.

Sterilization Cases

MicroAire sterilization cases are modular systems built to provide easy maintenance and storage for MicroAire's Small Power, Large Power, and SmartDriver.

Each sterilization case is designed specifically for the instruments it holds, and each case is built using a medical-grade polymer or stainless steel; or a hybrid medical-grade polymer and aluminum. Cases are engineered to protect and prolong the life of your MicroAire surgical instruments.

5000SC

Series 5000

Small-Bone Modular Instruments Sterilization Case with Tray

- Modular tray
- Base fits all MicroAire® small-power surgical instrument sets
- High-quality, medical-grade polymer
- Withstands most sterilization procedures including temperatures up to 380°F
- 25cm × 52cm × 10cm



9700-000

Series 7000

Pneumatic Large-Bone System Sterilization Case

- Medical-grade polymer and aluminum construction provides durability
- Base holds 3 handpieces and hose
- Insert tray is molded with compartments for 11 couplers and pin driver
- Additional space for other accessories
- 25cm × 50cm × 10cm

7505-040

Series 7000

Battery Large-Bone System Sterilization Case

- First case from MicroAire designed for use in automated washer disinfectors
- Aluminum outer case and lid to minimize weight and maintain durability
- Nylon coated brackets protect the handpieces and couplers
- Inner tray is made from medical-grade stainless steel
- Inner tray may be used to hold instruments in the sterile field
- Inner tray is designed to hold three handpieces, fourteen drive couplers, and wire/pin couplers
- 24.28cm × 38.50cm × 19.86cm



Sterilization Cases

5641SC SmartDriver DUO®e Sterilization Case with Tray

- High-quality, medical-grade polymer
- Base holds the SmartDriver handpiece and air hose or electric cable
- Insert tray holds 10 couplers and wire/pin couplers
- Slots for measuring the diameter of K-wires and Steinmann Pins.
- Withstands most sterilization procedures including temperatures up to 380° F
- 25cm x 37.5cm x 10cm



6643-040 SmartDriver Duo® Battery Sterilization Case

- Aluminum outer case with polymer lid
- Stainless steel inner tray designed for use in automated washer disinfectors systems
- Nylon coated brackets protect the handpieces and couplers
- Inner tray may be used to hold instruments in the sterile field
- Tray holds two handpieces, eight drive couplers, saws, and wire and pin driver
- 23cm x 36cm x 17cm

9650-000 Single Handpiece Case

- Holds one handpiece and one air hose
- Stainless steel
- 18cm x 25cm



Accessories

9600-061 Drill/Reamer Cleaning Brush



Accessories	
9916-000	Micro Lube
CAP-100	fits MicroAire® Connectors
CAP-200	fits Hall® Connectors
CAP-600	fits Synthes® Connector
9600-063	Wire Driver Brush
9600-064	Drill Collet Brush
9600-161	19" Flexible Reamer Cannulations



Air Hoses

MicroAire® pneumatic air hoses, regulators and connection manifolds provide a reliable and time-proven source of power in the operating room. Smooth, consistent power, with a variety of adaptors for connections to most standard systems.



Air Hoses MicroAire 9000-Series Air Hoses

- Standard double-air hoses
- Vent at the diffuser end
- Outer hose is black silicone



7000-Series "Whisper" Hoses

- Standard double-air hoses
- Vent at the diffuser end
- Outer hose is gray, double-layer vulcanized rubber supported with nylon mesh
- Reduce instrument noise up to 40%.

MicroAire® Standard Hose

- 9000-000 Standard Hose (10 ft)
- 9000-020 Standard Hose (20 ft)
- 7000-000 "Whisper" Hose (10 ft)
- 7000-020 "Whisper" Hose (20 ft)

- Schrader Connector at Diffuser
- Fits all MicroAire instruments with product numbers ending with -100

Lintratec (Hall®) Style Hose

- 9013-000 Standard Hose (10 ft)
- 9013-020 Standard Hose (20 ft)
- 7013-000 "Whisper" Hose (10 ft)
- 7013-020 "Whisper" Hose (20 ft)

- Schrader Connector at Diffuser
- Fits all MicroAire instruments with product numbers ending with -200

Air Hose Extensions

9300-010 Extension Hose (10-foot)

Replaces:

- Lintratec/Hall® 5052-18
- Schrader to Schrader



9300-015 Extension Hose (15-foot)

Replaces:

- Lintratec/Hall® 5052-30
- Schrader to Schrader

9300-020 Extension Hose (20-foot)

Replaces:

- Lintratec/Hall® 5052-31
- Schrader to Schrader

9300-030 Extension Hose (30-foot)

Replaces:

- Lintratec/Hall® 5052-29
- Schrader to DISS (Ohio)



Multiple-Connection Manifolds

Connect multiple air hoses to a single pressure regulator. Includes 3-meter (~10-foot) extension hose that connects to Schrader coupler.

Connector Options

9500-001 Stryker®/ Schrader Adapter

9500-003 Stryker® Adapter

9500-004 Ohio/ Schrader Adapter

9500-002

Schrader Input Connector



Adapts Hall®, 3M®, and MicroAire® hoses to thread fitting, 1/4" NPT

- 100 PSI
- Accepts Schrader connectors (Hall®, 3M®, or MicroAire® standard hose)
- Plugs into standard Hall® type regulator

Regulators

- Accepts MicroAire®, Hall®, and 3M® air hoses
- Main tank and pressure output gauges
- Accepts Schrader connectors (Hall®, 3M®, or MicroAire® standard hose)

9500-000 Single regulator

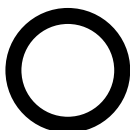
9502-000 Dual regulator



9010-000

Throttle-Locking Ring

- Foot control adaptor ring for finger throttle
- Enables small orthopaedic finger throttle handpieces to be used with foot control
- Package of 10



All dimensions shown are nominal values subject to standard variances and tolerances.

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MicroAire Surgical Instruments

3590 Grand Forks Boulevard
Charlottesville, VA 22911 USA
800 722 0822 or +434 975 8000
www.microaire.com

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