

A DIVISION OF NIRA GROUP



ABOUT US

NIRA SURGICALS PVT LTD :

NIRA SURGICALS was established in the year of 2008. Our aims at providing world class Orthopaedic/Spine/Neuro implants & All types of imported and Indian instruments at the affordable cost. Designed in line with statutory and regulatory requirements, our range is widely acknowledged for highly sterilized, safe to use, corrosion proof, application specific design and reliability. We have constantly been updating our knowledge strength and company profile as well NIRA SURGICALS PVT.LTD. (2019-2020). Also, as technical strength for producing supreme range of the premium quality products in Ortho/Spine Implants and Instruments' segment. We established with a vision to become an indigenous manufacture & nationwide Supplier of a wide verity of Orthopaedic/ Spine/Neuro implants &All types of imported and Indian instruments, including trauma and rehabilitative appliance that measure up to high standards of quality. The company has grown many leaps forwards to fulfil the requirement of the medical professional and the dedication of the company's professionals accelerated Ortho Surgical Company to Become one of the prime manufacturers of orthopaedic/Spine implants and All types of imported and Indian instruments. Because of the stringent quality measures adopted by the company, our products got self-introduced in the export marketing in a big way. The growing demand for our products in the international market.

Quality :

Quality has been the hallmark of success for the company. It manufactures implants made of 316 & 316L grade stainless steel as per BIS specification. All products marketed by the company undergo rigorous quality surveillance. The company has been keenly observing new trend of the international markets and is regularly updating itself regarding new technologies. Now, the company is able to compete in local, as well as international markets and has confidently consolidated its position in the business

Managment :

Our team comprises highly **motivated** members like managers, designers, product developers, marketing team, Sales team ,logistics team, consultants and more! Our senior management believes in the philosophy of driven by patients, focused by medical practitioners. We have always tried to develop products with international standards within the criteria of affordability.

Be it the top most management or the youngest member of the nira family, one thing is common in all of us: 'passion to achieve more and more milestones that makes the lives of patients healthier and happier day by day, minute by minute, moment by moment!'

Quality Control Checks:

Quality control checks are conducted in-house as a routine, but periodic testing through independent test house is also carried out

Methods Steps Involved in Quality Control:

Raw material used -The raw material of all products are tested for chemical composition and sample piece tested for physical properties.

In House Process and Finished Good Testing:

Calibrated plugs, Ring Gauges and Thread Gauges are used for inspection of standard implants & instruments. Standard vernier calliper's, Micro Meters, bone gauges, surface tester are used for inspection of custom-made implants/instruments.

Research & Development:

The company used the state-of-the-art machinery for its Research And Development Department of the company is working continuously to provide superior quality instrument & implants at economical prices to meet the ever increasing requirements of the medical profession.

Clients:

The company caters to an established clientele in the domestic and international market through its extensive marketing network. At present we are exporting our products to Singapore, Australia, south America, Bangladesh and Nepal. All our clients are satisfied with us, as a result of which we are getting repeated orders. It has trained service personnel, who provide demonstration and technical for fixing different implants and appliances. Distributors of the company are strategically located to reach all corners of the world. Apart from sale effected through dealers, the company is directly catering to institutional customers in India and across the globe.

TAI-901 PORTABLE AUTOCLAVE

- All body made of Stainless Steel or Aluminum.
- Fitted with pressure gauge.
- The unit has spring loaded safety valve of pressure adjustment and a dead weight safety valve.
- It is hydraulically tested up to 30 PSI & is supplied with Electric fitting, Cord & Plug, supplied complete with Tripod Stand.
- To work on 220/330Volt AC Supply



TAI-901A FULLY SS TABLE TOP DENTAL AUTOCLAVE

- All body made of stainless steel.
- The inner/outer chamber & boiler are made of heavy gauge S S with leak proof argon ARC welding.
- The space between the outer chamber is filled with wool to minimize thermal losses.
- Hydraulically tested to withstand 2.5 times the working pressure.
- Steam boiler is fitted with water level indicator, pressure gauge, low water cut off device.
- This afford complete safety to the working personnel against explosive opening.
- An automatic vacuum breaker is fitted to all units as a standard accessory in order to break vacuum in case of steam condensation.
- The flanged immersion type heating element made from very high grade material provides fast formation of pressure in the system & are protected through a electric low water cut off device.
- The chamber is fitted with spring loaded safety valve & a dead weight release valve.
- Sterilization temperature : 120°C, 135°C.
- Suitable to work on 230 volts, single phase and 50Hz AC supply.

Model No.	10 x 18	12 x 15	12 x 18
Inner Dimension	250 x 450	300 x 375	300 x 450
Capacity	22 Litres	25 Litres	30 Litres
Heater Load	3 KW	3 KW	3 KW

TECHNICAL SPECIFICATION

Gasket: made of joint less silicon rubber.
 Exhaust pressure: manual through the exhaust valve
 Sterilizing pressure: 1.2 to 1.5 kgf/cm² (15 to 20 psi) at 121°C
 Operating pressure: from 15 psi to 20 psi
 Pressure gauge: 0.2.1 kgf/cm² (30 psi)
 Tubular stand and supporting ring: made of mild steel or stainless steel

- INCLUDING**
1. Vacuum Breaker
 2. Tray
 3. Water level indicator
 4. Fully automatic PID Purging System





**ALUMINIUM
+ S.S**

**POWDER COATED
WITH TIMER**

TAI-901B COOKER TYPE AUTOCLAVE

- 1) Aluminium + S.S
- 2) Powder Coated With Timer

This is a portable pressure type vertical top loading cooker type steam sterilizer (Autoclave) made from Aluminium grade SALEM STAINLESS STEEL (Seamless construction).

Two versions are available, i.e. electrically operated and also non electric model to be used on gas, kerosene or wood.

It is used for sterilization of surgical instruments, dressing material, linen, rubber, special plastic materials by means of saturated steam under pressure of 15-20 psi. Apart from health centres, it is also used in scientific research institutions, colleges, departments laboratories & universities.

Cautions

1. At the time of opening/closing the lid of the autoclave, always keep the steam release valve open, never try to open the lid forcefully.
2. Before switching on the autoclave, check the lid is properly closed (the handles of lid & body are exactly on top of each other)
3. The weight type safety valves are preset at required pressures. Do not add extra weights to them otherwise they might malfunction.
4. Clean the vent holes of the weight valves regularly with a thin wire to avoid any jamming.
5. Also keep the autoclave gasket free from dirt otherwise it may result in leakage from lid gasket.
6. Never operate the autoclave without water or with insufficient water. It can damage the autoclave & the heater.
7. When the lid is removed off the autoclave, keep it gently in upright position and on leveled surface. Jerks may damage the pressure gauges.
8. In case of any problem, stop using the autoclave and contact authorized dealer.
9. Do not shift the instruments under working conditions.
 - i) Switch off electric supply
 - ii) Remove plug from socket
 - iii) Release steam if any
10. To avoid any electric shocks
 - i) Do not touch the autoclave bare feet or wet hands.
 - ii) Do not keep the autoclave on any wooden/rubber/insulated surface. Keep on marble floor/shelf.
 - iii) Check the internal wiring at your place has proper earthing.
11. For better looks, clean the autoclave with soft & moist cloth.
12. Tighten the handle screws every 15 days regularly.

ALUMINIUM & POWDER COATED WITH TIMER

Model No.	11 x 9	12 x 12	12 x 20
Liter	13 Liter	23 Liter	40 Liter
Body	Aluminium + S.S	Aluminium + S.S	Aluminium + S.S



TAI-902 VERTICAL DOUBLE WALLED RADIAL LOCKING AUTOCLAVE

- Inner chamber, outer chamber & support ring are fully made of stainless steel.
- Heaters cover stand & carrier/bucket are made of stainless steel.
- Lid made of thick machined stainless steel plate.
- Radial locking lid ensures user safety & safe locking.
- Lid is fitted with pressure gauge, spring loaded safety valve, double safety valve, manual exhaust valve, vacuum breaker as a safety device & water level indicator.
- Drain valve facilitates easy cleaning of the chamber.
- Moulded joint less silicon rubber gasket.
- All internal joints are argon arc welded, ground & polished to give crevice free internals.
- Miniature circuit breaker for mains on/off plus safety of control panel.
- Industrial grade energy efficient heaters reduce power bills drastically.



Fully SS Radial Locking

Model No.	10 x 18	12 x 20	14 x 22	16 x 24	18 x 24	22 x 30
Inner Dimension	250 x 450	300 x 500	350 x 550	400 x 600	450 x 600	550 x 750
Capacity	22 Litres	40 Litres	50 Litres	78 Litres	98 Litres	150-180 Litres
Heater Load	1.5 KW	2 KW	3 KW	4 KW	4 KW	5 KW

TECHNICAL SPECIFICATION

Sterilizing Pressure=1.2kgf/cm² (15 psi) at 121°C
 Operating Pressure= from 15 psi to 22 psi (adjustable)
 Power Supply=220x230V AC, 50/60 Hz
 Pressure Vessel= SS 304 Grade Stainless Steel
 External Wall=SS 304 Grade Stainless Steel
 Top Lid=SS 304 Grade Stainless Steel
 Basket= SS 304 High Grade Stainless Steel

INCLUDING

1. Water Level Indicator
2. Stainless Steel Basket
3. Vacuum Breaker

OPTIONAL

- A. Automatic pressure control switch.
- B. Automatic low water cut off system.
- C. Microprocessor based digital temperature indicator cum controller with set value and process value/digital timer.
- D. Microprocessor based digital temperature indicator cum controller with set value and process value/ timer and purging on/off fully automatic.



SS Lining Radial Locking

TAI-903 VERTICAL TRIPLE WALLED HIGH PRESSURE RADIAL LOCKING AUTOCLAVE

- Inner chamber, outer chamber and support ring are fully made of stainless steel.
- Heaters cover stand and carrier/bucket are made of stainless steel.
- Lid made of thick machined stainless steel plate.
- Radial locking lid ensures user safety and safe locking.
- Lid is fitted with pressure gauge, spring loaded safety valve, double safety valve, manual exhaust valve, vacuum breaker as a safety device and water level indicator.
- Drain valve facilitates easy cleaning of the chamber.
- Moulded joint less silicon rubber gasket.
- All internal joints are argon arc welded, ground and polished to give crevice free internals.
- Miniature circuit breaker for mains on/off plus safety of control panel.
- Industrial grade energy efficient heaters reduce power bill drastically.



Fully SS Radial Locking (Delux Model)

Model No.	10 x 18	12 x 20	14 x 22	16 x 24	18 x 24	22 x 30
Inner Dimension	250 x 450	300 x 500	350 x 550	400 x 600	450 x 600	550 x 750
Capacity	22 Litres	40 Litres	50 Litres	78 Litres	98 Litres	150-180 Litres
Heater Load	1.5 KW	2 KW	3 KW	4 KW	4 KW	5 KW

TECHNICAL SPECIFICATION

Sterilizing pressure=1.2kgf/cm² (15 psi) at 121°C
 Operating pressure= from 15 psi to 22 psi (adjustable)
 Power supply=220x230V AC, 50/60 Hz
 Pressure Vessel= SS 304 Grade Stainless Steel
 External Wall=SS 304 Grade Stainless Steel
 Top Lid=SS 304 Grade Stainless Steel
 Basket= SS 304 High Grade Stainless Steel

INCLUDING

1. Water Level Indicator
2. Stainless Steel Basket
3. Vacuum Breaker

OPTIONAL

- A. Automatic pressure control switch.
- B. Automatic low water cut off system.
- C. Microprocessor based digital temperature indicator cum controller with set value and process value/digital timer.
- D. Microprocessor based digital temperature indicator cum controller with set value and process value/ timer and purging on/off fully automatic.



SS Lining Radial Locking Model

TECHNICAL SPECIFICATION

Temperature : 121° to 134°
 P.S.I : 15 to 32 PSI
 kgf/cm² : 1.2 to 2.5

TAI-904 VERTICAL TRIPLE WALLED HIGH PRESSURE WING NUT AUTOCLAVE

- Inner chamber, outer chamber and support ring are fully made of stainless steel.
- Heaters cover stand and carrier/bucket are made of stainless steel.
- Lid made of thick machined stainless steel plate.
- Brass knobs ensures user safety and safe locking.
- Lid is fitted with pressure gauge, spring loaded safety valve, double safety valve, manual exhaust valve, vacuum breaker as a safety device and water level indicator.
- Drain valve facilitates easy cleaning of the chamber.
- Moulded joint less silicon rubber gasket.
- All internal joints are argon arc welded, ground and polished to give crevice free internals.
- Miniature circuit breaker for mains on/off plus safety of control panel.
- Industrial grade energy efficient heaters reduce power bill drastically.

Model No.	10 x 18	12 x 20	14 x 22	16 x 24	18 x 24	22 x 30
Inner Dimension	250 x 450	300 x 500	350 x 550	400 x 600	450 x 600	550 x 750
Capacity	22 Litres	40 Litres	50 Litres	78 Litres	98 Litres	150-180 Litres
Heater Load	1.5 KW	2 KW	3 KW	4 KW	4 KW	5 KW

Sterilizing pressure=1.2kgf/cm² (15 psi) at 121°C
 Operating pressure= from 15 psi to 22 psi (adjustable)
 Power supply=220x230 AC, 50/60 Hz
 Pressure Vessel= SS 304 Grade Stainless Steel
 External Wall=SS 304 Grade Stainless Steel
 Top Lid=SS 304 Grade Stainless Steel
 Basket= SS 304 High Grade Stainless Steel



Fully SS Wing Nut Model

INCLUDING

1. Water Level Indicator
2. Stainless Steel Basket
3. Vacuum Breaker

OPTIONAL

- A. Automatic pressure control switch.
- B. Automatic low water cut off system.
- C. Microprocessor based digital temperature indicator cum controller with set value and process value/digital timer.
- D. Microprocessor based digital temperature indicator cum controller with set value and process value/ timer and purging on/off fully automatic.

TECHNICAL SPECIFICATION

Temperature : 121° to 134°
 P.S.I : 15 to 32 PSI
 kgf/cm² : 1.2 to 2.5

TAI-905 VERTICAL DOUBLE WALLED WING NUT AUTOCLAVE

- Inner chamber, outer chamber and support ring are fully made of stainless steel.
- Heaters cover stand and carrier/bucket are made of stainless steel.
- Lid made of thick machined stainless steel plate.
- Brass knobs ensures user safety and safe locking.
- Lid is fitted with pressure gauge, spring loaded safety valve, double safety valve, manual exhaust valve, vacuum breaker as a safety device and water level indicator.
- Drain valve facilitates easy cleaning of the chamber.
- Moulded joint less silicon rubber gasket.
- All internal joints are argon arc welded, ground and polished to give crevice free internals.
- Miniature circuit breaker for mains on/off plus safety of control panel.
- Industrial grade energy efficient heaters reduce power bill drastically.

Model No.	10 x 18	12 x 20	14 x 22	16 x 24	18 x 24	22 x 30
Inner Dimension	250 x 450	300 x 500	350 x 550	400 x 600	450 x 600	550 x 750
Capacity	22 Litres	40 Litres	50 Litres	78 Litres	98 Litres	150-180 Litres
Heater Load	1.5 KW	2 KW	3 KW	4 KW	4 KW	5 KW

TECHNICAL SPECIFICATION

Sterilizing pressure=1.2kgf/cm² (15 psi) at 121°C
 Operating pressure= from 15 psi to 22 psi (adjustable)
 Power supply=220x230 AC, 50/60 Hz
 Pressure Vessel= SS 304 Grade Stainless Steel
 External Wall=SS 304 Grade Stainless Steel
 Top Lid=SS 304 Grade Stainless Steel
 Basket= SS 304 High Grade Stainless Steel

INCLUDING

1. Water Level Indicator
2. Stainless Steel Basket
3. Vacuum Breaker

OPTIONAL

- A. Automatic pressure control switch.
- B. Automatic low water cut off system.
- C. Microprocessor based digital temperature indicator cum controller with set value and process value/digital timer.
- D. Microprocessor based digital temperature indicator cum controller with set value and process value/ timer and purging on/off fully automatic.



Fully SS Wing Nut Model

TAI-906 HORIZONTAL CYLINDRICAL TRIPLE WALLED HIGH PRESSURE AUTOCLAVE

- The inner/outer chamber, steam jacket and boiler are made of heavy gauge SS with leak proof argon arc welding.
- The space between the outer chamber and steam jacket is filled with glass wool to minimize thermal losses.
- Hydraulically tested to withstand 2.5 times the working pressure.
- Steam boiler is fitted with water level indicator, pressure gauge, low water cut off device and automatic pressure control devices. Fitted with safety valve as a safety device.
- Drain valve is fitted at the side bottom for easy draining/clearing.
- This affords a complete safety to the working personnel against explosive opening.
- Two separate valves are provided for evacuating steam from inner chamber and jacket as and when desired.
- Sterilization cycle is controlled by single point multiport valve.
- The chamber discharge line is fitted with a moisture trap to absorb the condensate automatically thus preventing moistening of the loaded material to be sterilized.
- An automatic vacuum breaker is fitted to all units as a standard accessory in order to break vacuum in case of steam condensation.
- The flanged immersion type heating element made from a very high grade material provide fast formation of pressure in the system and are protected through a electric low water level cut off device.
- All sterilizers are provided with triple safety features through a "Piezostate" (automatic pressure control system) and a spring loaded safety valve fitted to the boiler/steam generator.
- The chamber is fitted with spring loaded safety valve and a dead weight release valve.
- To work on 220/230 or 440 volts, 3 phase, 50 Hz AC supply.

Model No.	16 x 24	16 x 36	16 x 48	20 x 36	20 x 48
Inner Dimension	400 x 600	400 x 900	400 x 1200	500 x 900	500 x 1200
Capacity	78 Litres	115 Litres	162 Litres	165 Litres	221 Litres
Heater Load	6 KW	6 KW	9 KW	9 KW	9 KW

TECHNICAL SPECIFICATION

Gasket: made of joint less silicon rubber.
 Exhaust pressure: manual through the exhaust valve
 Sterilizing pressure: 1.2 to 1.5 kgf/cm² (15 to 20 psi) at 121°C
 Operating pressure: from 15 psi to 20 psi
 Pressure gauge: 0.2.1 kgf/cm² (30 psi)
 Tubular stand and supporting ring: made of mild steel or stainless steel
 Pressure Vessel= SS 304 Grade Stainless Steel
 External Wall=SS 304 Grade Stainless Steel
 Top Lid=SS 304 Grade Stainless Steel
 Basket= SS 304 High Grade Stainless Steel

INCLUDING

1. Automatic pressure cut off switch
2. Digital temperature indicator cum controller
3. Vacuum breaker
4. Water level indicator
5. Automatic self locking system
6. Automatic low water cut off switch
7. Moisture trap

OPTIONAL

- A. Fully automatic PID purging system
- B. Fully automatic system with HMI PLC based autoclave with data logger digital pressure indicator cum controller, digital temperature controlled system can be installed on order.
- C. Multiport Valve



TAI-906 (A) HORIZONTAL CYLINDRICAL TRIPLE WALLED HIGH PRESSURE AUTOCLAVE WITH OUTER SQUARE BODY

- The inner/outer chamber, steam jacket and boiler are made of heavy gauge SS with leak proof argon arc welding.
- The space between the outer chamber and steam jacket is filled with glass wool to minimize thermal losses.
- Hydraulically tested to withstand 2.5 times the working pressure.
- Steam boiler is fitted with water level indicator, pressure gauge, low water cut off device and automatic pressure control devices. Fitted with safety valve as a safety device.
- Drain valve is fitted at the side bottom for easy draining/clearing.
- This affords a complete safety to the working personnel against explosive opening.
- Two separate valves are provided for evacuating steam from inner chamber and jacket as and when desired.
- Sterilization cycle is controlled by single point multiport valve.
- The chamber discharge line is fitted with a moisture trap to absorb the condensate automatically thus preventing moistening of the loaded material to be sterilized.
- An automatic vacuum breaker is fitted to all units as a standard accessory in order to break vacuum in case of steam condensation.
- The flanged immersion type heating element made from a very high grade material provide fast formation of pressure in the system and are protected through a electric low water level cut off device.
- All sterilizers are provided with triple safety features through a "Piezostate" (automatic pressure control system) and a spring loaded safety valve fitted to the boiler/steam generator.
- The chamber is fitted with spring loaded safety valve and a dead weight release valve.
- To work on 220/230 or 440 volts, 3 phase, 50 Hz AC supply.

Model No.	16 x 24	16 x 36	16 x 48	20 x 36	20 x 48
Inner Dimension	400 x 600	400 x 900	400 x 1200	500 x 900	500 x 1200
Capacity	78 Litres	115 Litres	162 Litres	165 Litres	121 Litres
Heater Load	6 KW	6 KW	9 KW	9 KW	9 KW

TECHNICAL SPECIFICATION

Gasket: made of joint less silicon rubber.
Exhaust pressure: manual through the exhaust valve
Sterilizing pressure: 1.2 to 1.5 kgf/cm² (15 to 20 psi) at 121°C
Operating pressure: from 15 psi to 20 psi
Pressure gauge: 0.2.1 kgf/cm² (30 psi)
Tubular stand and supporting ring: made of mild steel or stainless steel
Pressure Vessel= SS 304 Grade Stainless Steel
External Wall=SS 304 Grade Stainless Steel
Top Lid=SS 304 Grade Stainless Steel
Basket= SS 304 High Grade Stainless Steel

INCLUDING

- Automatic pressure cut off switch
- Digital temperature indicator cum controller
- Vacuum breaker
- Water level indicator
- Automatic self locking system
- Automatic low water cut off switch
- Moisture trap
- Fully automatic system with HMI PLC based autoclave with data logger digital pressure indicator cum controller, digital temperature controlled system can be installed on order.
- Vacuum Pump



TAI-907 HORIZONTAL RECTANGULAR HIGH PRESSURE AUTOCLAVE

- The inner/outer chamber, steam jacket and boiler are made of heavy gauge SS with leak proof argon arc welding.
- The space between the outer chamber and steam jacket is filled with glass wool to minimize thermal losses.
- Hydraulically tested to withstand 2.5 times the working pressure.
- Steam boiler is fitted with water level indicator, pressure gauge, low water cut off device and automatic pressure control devices. Fitted with safety valve as a safety device.
- Drain valve is fitted at the side bottom for easy draining/clearing.
- This affords a complete safety to the working personnel against explosive opening.
- Two separate valves are provided for evacuating steam from inner chamber and jacket as and when desired.
- Sterilization cycle is controlled by single point multiport valve.
- The chamber discharge line is fitted with a moisture trap to absorb the condensate automatically thus preventing moistening of the loaded material to be sterilized.
- An automatic vacuum breaker is fitted to all units as a standard accessory in order to break vacuum in case of steam condensation.
- The flanged immersion type heating element made from a very high grade material provide fast formation of pressure in the system and are protected through a electric low water level cut off device.
- All sterilizers are provided with triple safety features through a "Piezostate" (automatic pressure control system) and a spring loaded safety valve fitted to the boiler/steam generator.
- The chamber is fitted with spring loaded safety valve and a dead weight release valve.
- To work on 220/230 or 440 volts, 3 phase, 50 Hz AC supply.

Model No.	18 x 18 x 36	18 x 24 x 36	24 x 24 x 30	24 x 24 x 48	36 x 36 x 60	36 x 36 x 72
Inner Dimension	450 x 450 x 900	450 x 600 x 900	600 x 600 x 900	600 x 600 x 1200	900 x 900 x 1500	900 x 900 x 1800
Capacity	180 Litres	240 Litres	320 Litres	430 Litres	1300 Litres	1500 Litres
Heater Load	12 KW	12 KW	18 KW	18 KW	27 KW	27 KW

TECHNICAL SPECIFICATION

Gasket: made of joint less silicon rubber.
 Exhaust pressure: manual through the exhaust valve
 Sterilizing pressure: 1.2 to 1.5 kgf/cm² (15 to 20 psi) at 121°C
 Operating pressure: from 15 psi to 20 psi
 Pressure gauge: 0.2.1 kgf/cm² (30 psi)
 Tubular stand and supporting ring: made of mild steel or stainless steel
 Pressure Vessel= SS 304 Grade Stainless Steel
 External Wall=SS 304 Grade Stainless Steel
 Top Lid=SS 304 Grade Stainless Steel
 Basket= SS 304 High Grade Stainless Steel



INCLUDING

1. Automatic pressure cut off switch
2. Digital temperature indicator cum controller
3. Vacuum breaker
4. Water level indicator
5. Automatic self locking system
6. Automatic low water cut off switch
7. Moisture trap

OPTIONAL

- A. Fully automatic PID purging system
- B. Fully automatic system with HMI PLC based autoclave with data logger digital pressure indicator cum controller, digital temperature controlled system can be installed on order.
- C. Multiport Valve

TAI-908 VERTICAL SQUARE BODY DOUBLE WALLED AUTOCLAVE

- Inner chamber, outer chamber and support ring are fully made of stainless steel.
- Heaters cover stand and carrier/bucket are made of stainless steel.
- Lid made of thick machined stainless steel plate.
- Radial locking lid ensures user safety and safe locking.
- Lid is fitted with pressure gauge, spring loaded safety valve, double safety valve, manual exhaust valve, vacuum breaker as a safety device and water level indicator.
- Drain valve facilitates easy cleaning of the chamber.
- Moulded joint less silicon rubber gasket.
- All internal joints are argon arc welded, ground and polished to give crevice free internals.
- Miniature circuit breaker for mains on/off plus safety of control panel.
- Industrial grade energy efficient heaters reduce power bill drastically.

Model No.	10 x 18	12 x 20	14 x 22	16 x 24	18 x 24	22 x 30
Inner Dimension	250 x 450	300 x 500	350 x 550	400 x 600	450 x 600	550 x 750
Capacity	22 Litres	40 Litres	50 Litres	78 Litres	98 Litres	150-180 Litres
Heater Load	1.5 KW	2 KW	3 KW	4 KW	4 KW	5 KW

TECHNICAL SPECIFICATION

Sterilizing pressure=1.2kgf/cm² (15 psi) at 121°C
 Operating pressure= from 15 psi to 22 psi (adjustable)
 Power supply=220x230 AC, 50/60 Hz Pressure Vessel= SS 304 Grade
 Stainless Steel
 External Wall=SS 304 Grade Stainless Steel
 Top Lid=SS 304 Grade Stainless Steel
 Basket= SS 304 High Grade Stainless Steel

INCLUDING

1. Water Level Indicator.
2. Stainless Steel Basket.
3. Vacuum Breaker.
4. Automatic pressure control switch.
5. Automatic low water cut off switch.
6. Fully automatic PID purging system.



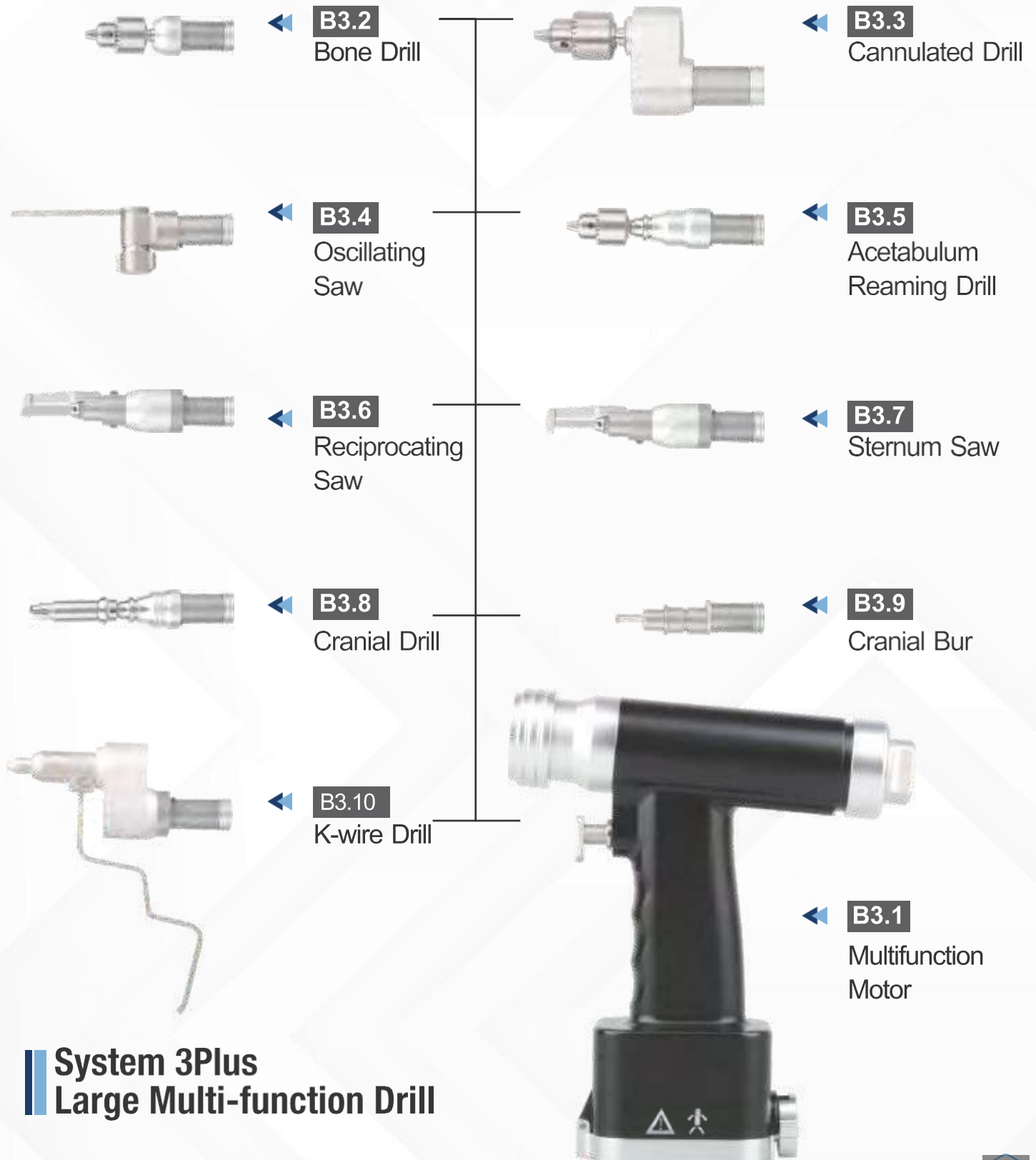


POWER TOOL SYSTEMS

- Quick Coupling Attchments
- 360°Rotating
- 135°C Autoclavable



- Light weight, Convenient and Durable
- CVT motor, Siamesed closed-back cover, Easy to use
- Imported motor, Powerful, High Coaxiality, Low noise
- High torque is more suitable for joint operation.



System 3Plus Large Multi-function Drill

Power Tools

B3-01



Bone Drill
For Trauma Operation

Output Power: 150 W
Diameter Of Drill Bit: $\Phi 0.8 \sim 8$ mm
Speed: 0-1200 rpm



B3-02



Cannulated Drill
For Trauma Operation

Output Power: 150 W
Diameter Of Drill Bit: $\Phi 0.8 \sim 8$ mm
Speed: 0-800 rpm



B3-02D



Quick Coupling Cannulated Drill
For Trauma Operation

Output Power: 150 W
Diameter Of Drill Bit: $\Phi 0.8 \sim 8$ mm
Speed: 0-800 rpm



B3-03



Oscillating Saw
For Joint Operation

Output Power: 150 W
Oscillating Frequency:
18000 Times/Min, Swing 5



B3-04D



Acetabulum Reaming Drill
For Joint Operation

Output Power: 150 W
Diameter Of Drill Bit: $\Phi 0.8 \sim 8$ mm
Speed: 0-300 rpm



Power, Precision and Innovation

B3-05



Reciprocating Saw
For Surgical Operation

Output Power: 150 W
Oscillating Frequency:
15000 Times/Min



B3-06



Sternum Saw
For Thoracic Operation

Output Power: 150 W
Oscillating Frequency:
15000 Times/Min



B3-07D



Self-stop Cranial Drill
For Cranial Operation

Output Power: 150 W
Speed: 0-800 rpm

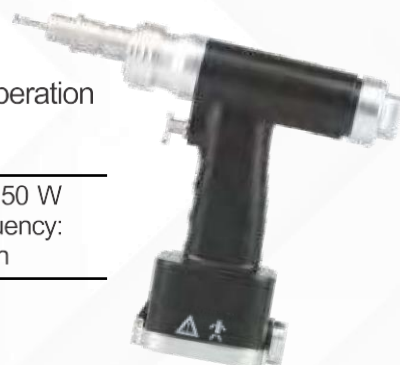


B3-08



Cranial Bur
For Cranial Operation

Output Power: 150 W
Oscillating Frequency:
15000 Times/Min



B3-09



K-wire Drill
For Joint Operation

Output Power: 150 W
Diameter Of Drill Bit: $\Phi 2.0 \sim 3.2$ mm
Speed: 0-1000 rpm



Main Accessories



A3-01
Battery



A3-02
Charger



A3-03
Aseptic Transfer Kit

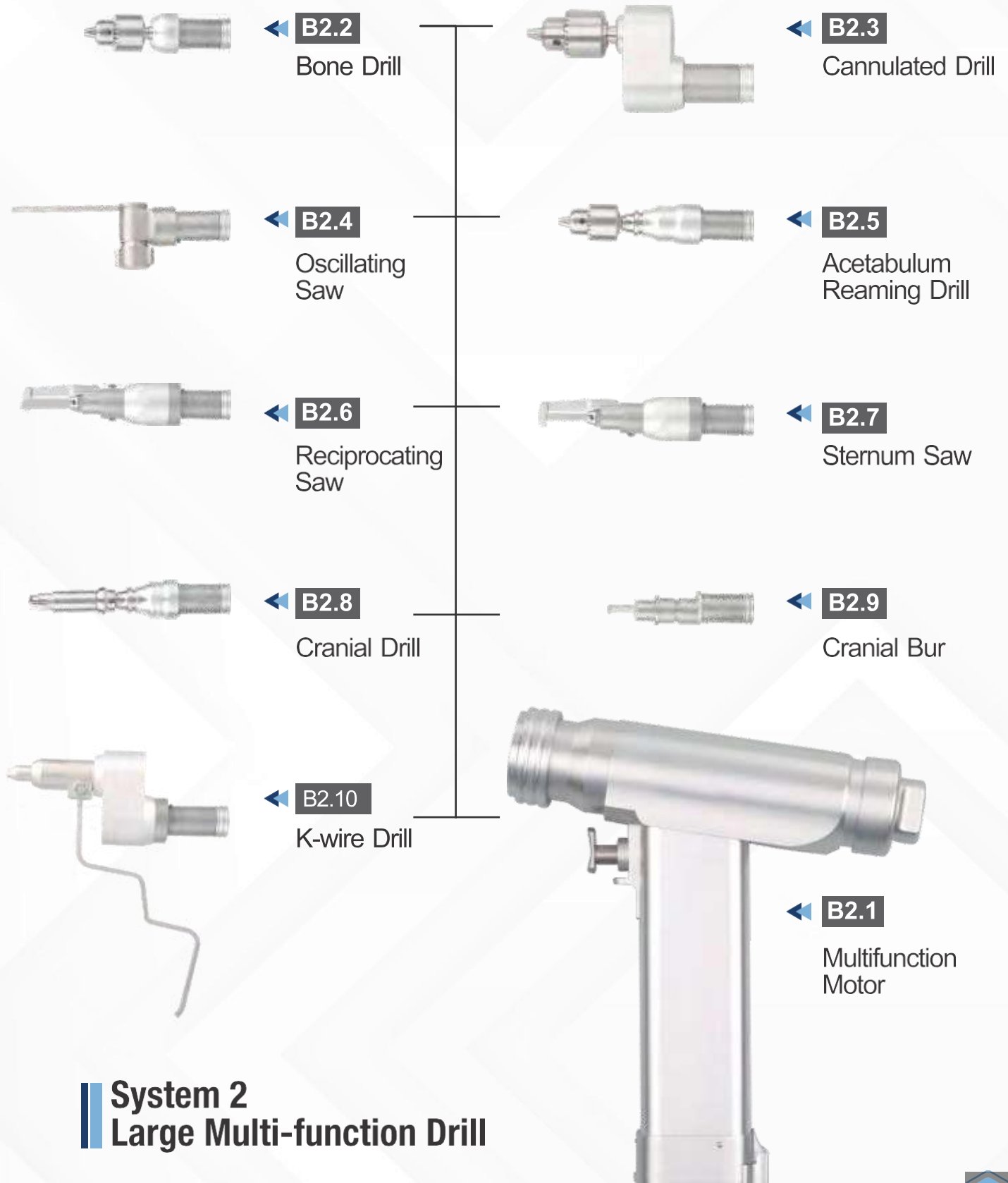


A3-04
Key

- Motor Compatable With Attachments ■ 360° Rotating ■ 135 °C Autoclavable
- Quick Coupling Attchments ■ High Strength Stainless Steel Componentry



- Light weight, Convenient and Durable
- CVT motor, Siamesed closed-back cover, Easy to use
- Imported motor, Powerful, High Coaxiality, Low noise



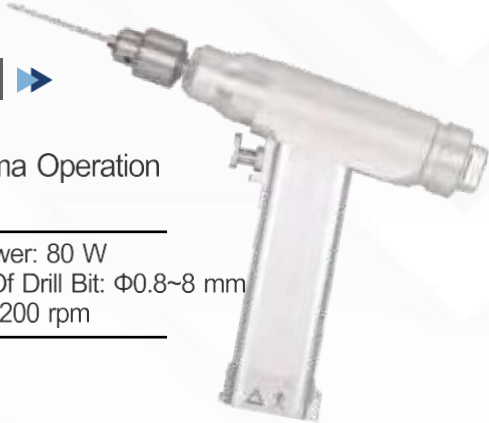
System 2 Large Multi-function Drill

Power Tools

B2-01

Bone Drill
For Trauma Operation

Output Power: 80 W
Diameter Of Drill Bit: $\Phi 0.8 \sim 8$ mm
Speed: 0-1200 rpm



B2-02

Cannulated Drill
For Trauma Operation

Output Power: 80 W
Diameter Of Drill Bit: $\Phi 0.8 \sim 8$ mm
Speed: 0-800 rpm



B2-02D

Quick Coupling Cannulated Drill
For Trauma Operation

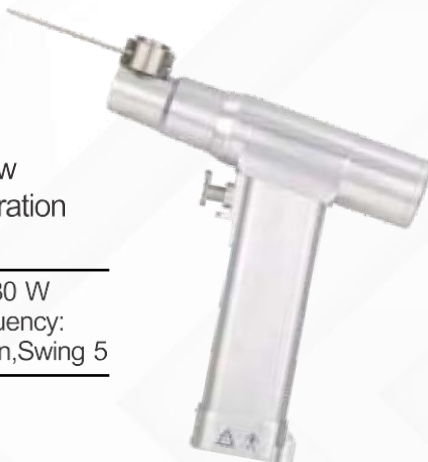
Output Power: 80 W
Diameter Of Drill Bit: $\Phi 0.8 \sim 8$ mm
Speed: 0-800 rpm



B2-03

Oscillating Saw
For Joint Operation

Output Power: 80 W
Oscillating Frequency:
18000 Times/Min, Swing 5



B2-04D

Acetabulum Reaming Drill
For Joint Operation

Output Power: 80 W
Diameter Of Drill Bit: $\Phi 0.8 \sim 8$ mm
Speed: 0-300 rpm

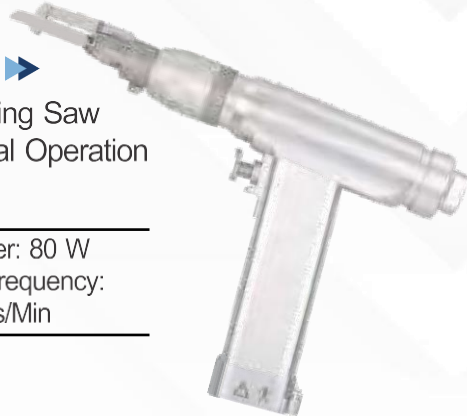


Power, Precision and Innovation

B2-05

Reciprocating Saw
For Surgical Operation

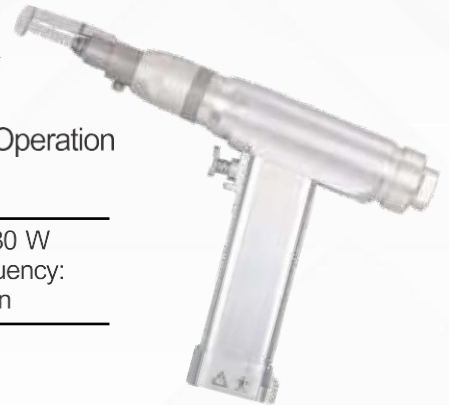
Output Power: 80 W
Oscillating Frequency:
15000 Times/Min



B2-06

Sternum Saw
For Thoracic Operation

Output Power: 80 W
Oscillating Frequency:
15000 Times/Min



B2-07D

Self-stop Cranial Drill
For Cranial Operation

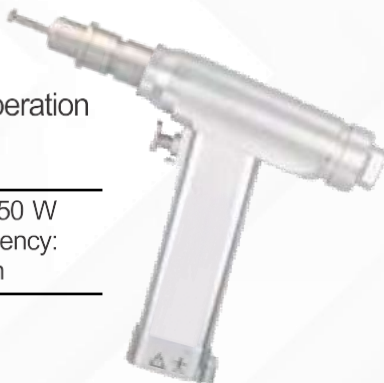
Output Power: 80 W
Speed: 0-800 rpm



B2-08

Cranial Bur
For Cranial Operation

Output Power: 150 W
Oscillating Frequency:
15000 Times/Min



B2-09

K-wire Drill
For Joint Operation

Output Power: 80 W
Diameter Of Drill Bit: $\Phi 2.0 \sim 3.2$ mm
Speed: 0-1000 rpm



Main Accessories



A2-01
Battery



A2-02
Charger



A2-03
Aseptic transfer kit



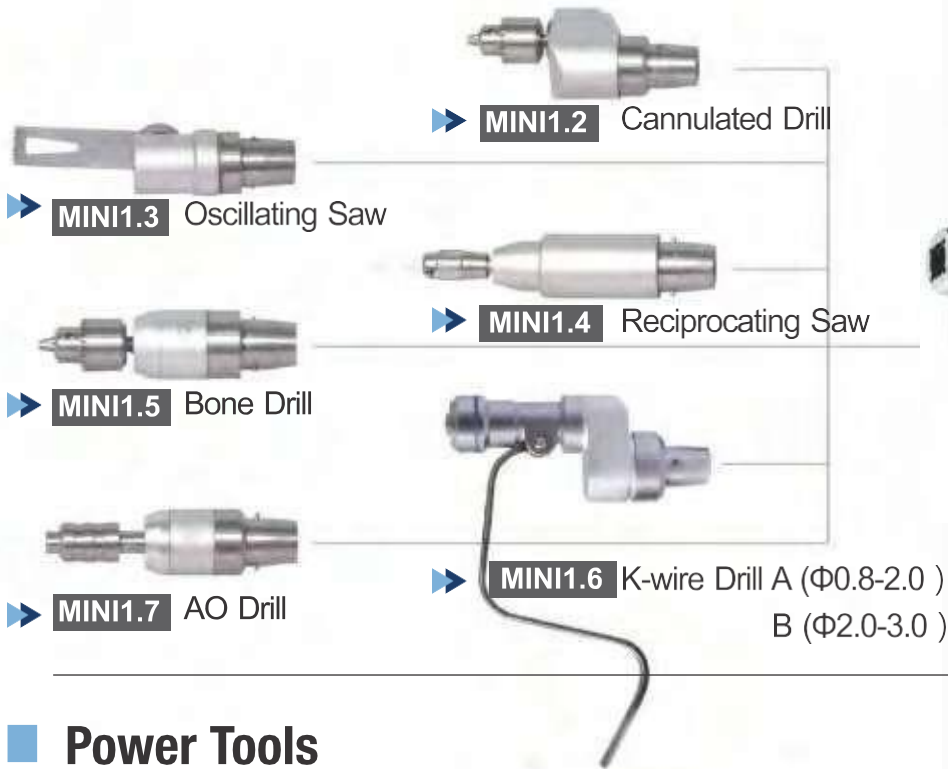
A2-04
Key

■ MINI MULTI-FUNCTION DRILL

■ Quick Coupling Attachments

■ 360° Rotating

■ 135 °C Autoclavable

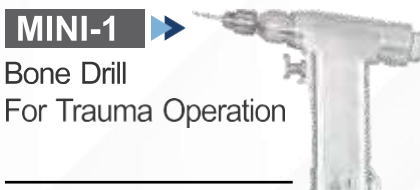


■ Power Tools

■ Mini Motor, Suitable for Hand and Foot Surgery

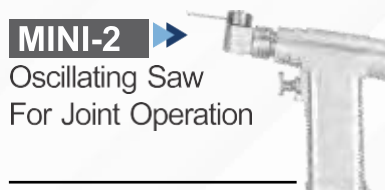
■ Enhanced Configuration-specific German Mirco-motor

■ 135 °C Autoclavable



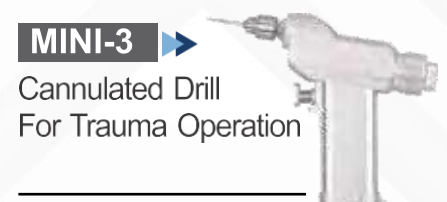
MINI-1 ▶
Bone Drill
For Trauma Operation

Output Power: 80 W
Diameter Of Drill Bit: Φ0.4-4 mm
Speed: 0-1200 rpm



MINI-2 ▶
Oscillating Saw
For Joint Operation

Output Power: 80 W
Oscillating Frequency:
14000 Times/Min, Swing 5



MINI-3 ▶
Cannulated Drill
For Trauma Operation

Output Power: 80 W
Diameter Of Drill Bit: Φ0.4-4 mm
Speed: 0-1200rpm

Main Accessories



◀ **AM-01**
Battery



◀ **AM-02**
Charger



◀ **AM-03**
Aseptic transfer kit



◀ **AM-04**
Key

BONE DRILL & PLASTER SAW

- High Quality and Economy Price

- High Quality and Excellent Performance

- Strong Power, Easy Working

- Various Accessories

B1-01



Bone Drill



Diameter Of Drill Bit: $\Phi 0.8-8$ mm
Speed: 0-1200rpm



B1-02



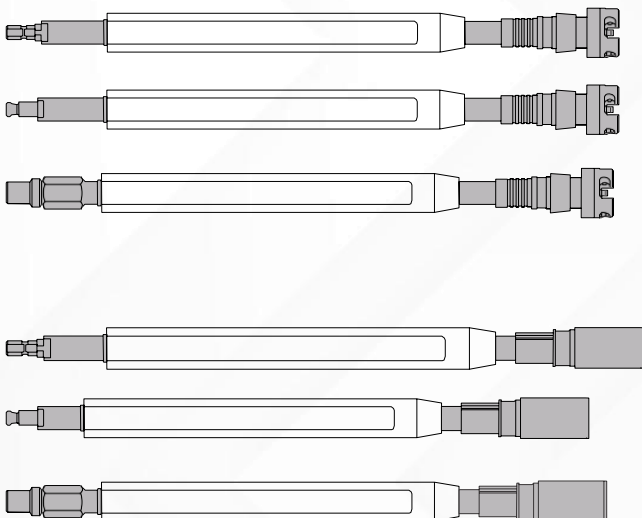
Plaster Saw



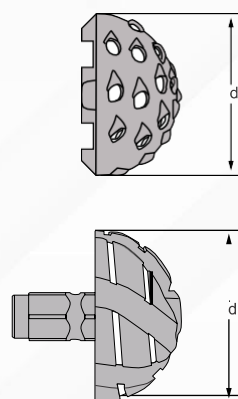
Output Power: 125 W
Oscillating Frequency:
18000 Times/Min

ACETABLUM REAMER

Acetabulum Connector



Acetabulum Reamer

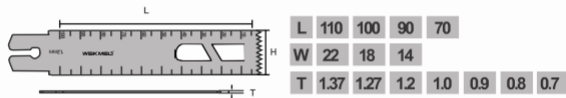


d	$\Phi 36$	$\Phi 38$	$\Phi 40$	$\Phi 42$	$\Phi 44$	$\Phi 46$
	$\Phi 48$	$\Phi 50$	$\Phi 52$	$\Phi 54$	$\Phi 56$	$\Phi 58$
	$\Phi 60$	$\Phi 62$	$\Phi 64$	$\Phi 66$	$\Phi 68$	$\Phi 70$

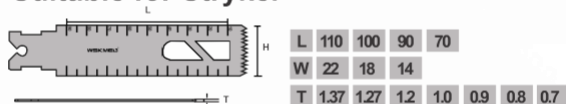
d	$\Phi 18$	$\Phi 19$	$\Phi 20$	$\Phi 21$	$\Phi 22$	$\Phi 23$
	$\Phi 24$	$\Phi 25$	$\Phi 26$	$\Phi 27$	$\Phi 28$	
	$\Phi 36$	$\Phi 38$	$\Phi 40$	$\Phi 42$	$\Phi 44$	$\Phi 46$
	$\Phi 48$	$\Phi 50$	$\Phi 52$	$\Phi 54$	$\Phi 56$	$\Phi 58$
	$\Phi 60$	$\Phi 62$	$\Phi 64$	$\Phi 66$	$\Phi 68$	

SAW BLADES

Suitable for WSK



Suitable for Stryker



Suitable for Stryker



Suitable for Linvatec



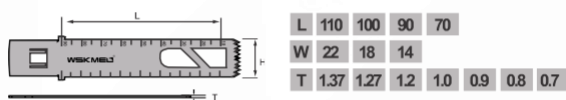
Suitable for Linvatec



Suitable for Synthes



Suitable for Aesculap



Suitable for MINI



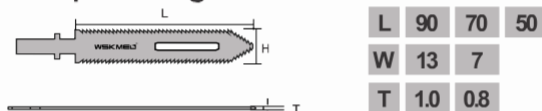
Suitable for MINI



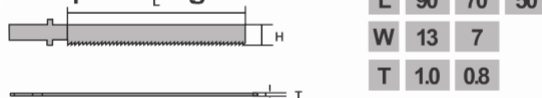
Suitable for MINI



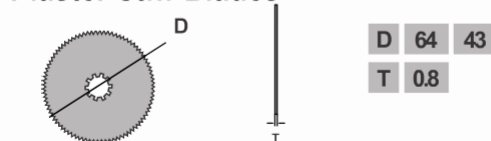
Reciprocating Saw Blades



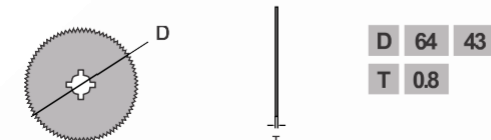
Reciprocating Saw Blades



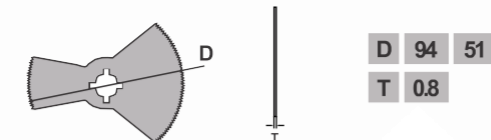
Plaster Saw Blades



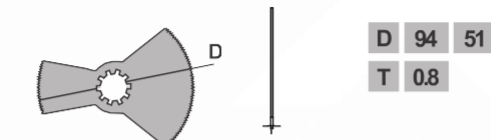
Plaster Saw Blades



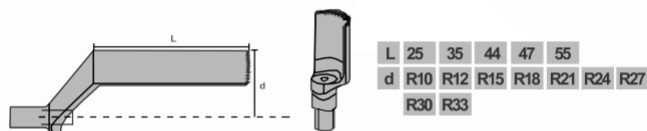
Plaster Saw Blades



Plaster Saw Blades



Circular Blades



A-type Hooks
For Joint Surgery

B-type Hooks
For General Surgery

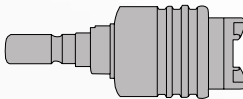
DRILL BIT

Cranial Drill Bit

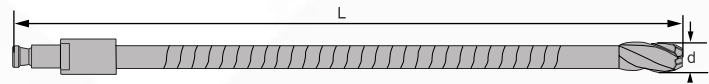
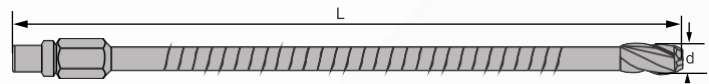
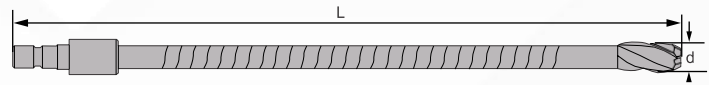


d	Φ4	Φ5	Φ6	Φ7	Φ8	Φ9
	Φ10	Φ11	Φ12	Φ13		

Quick Coupling Chuck



Medullary Reamer



L	250	470												
d	Φ7	Φ7.5	Φ8	Φ8.5	Φ9	Φ9.5	Φ10	Φ10.5	Φ11	Φ11.5	Φ12	Φ12.5		



Stainless Steel Bit



Cannulated Stainless Steel Bit



Extra Long Stainless Steel Bit



AO Cannulated Stainless Steel Bit



AO Bit Conversion Connector

Specification	Specification	Specification	Specification	Specification	Specification (Flexible Drill)	Specification (AO Connector)	Specification (Cannulated)
Φ1.2x80	Φ1.6x115	Φ2.0x125	Φ2.0x150	Φ2.8x180	Φ2.5	Φ1.8x100	Φ2.0x150
Φ1.5x80	Φ2.0x115	Φ2.2x125	Φ2.5x150	Φ2.9x180	Φ3.5	Φ2.0x100	Φ2.5x150
Φ1.2x100	Φ2.2x115	Φ2.5x125	Φ2.6x150	Φ2.7x200		Φ2.5x110	Φ2.8x150
Φ1.8x100	Φ2.5x115	Φ3.0x125	Φ2.9x150	Φ2.8x200		Φ2.5x150	Φ3.2x150
Φ2.0x100	Φ2.7x115	Φ3.5x125	Φ3.2x150	Φ2.5x250		Φ2.2x150	Φ3.5x150
	Φ2.8x115		Φ3.5x150	Φ3.2x250		Φ2.8x180	Φ4.3x250
	Φ3.0x115		Φ4.5x150	Φ3.8x250		Φ3.5x110	Φ4.5x250
	Φ3.2x115			Φ4.0x250		Φ4.0x280	Φ4.8x250
	Φ3.5x115			Φ2.8x280		Φ4.5x150	Φ5.0x250
	Φ3.8x115			Φ4.8x280			Φ5.5x250
	Φ4.2x115			Φ4.2x280			Φ6.0x250
	Φ4.5x115			Φ4.8x280			
				Φ5.8x280			
				Φ4.8x300			
				Φ4.2x300			
				Φ4.3x300			
				Φ4.5x300			
				Φ5.5x300			
				Φ4.0x350			

