

B.S.F. Motors

Manufacturer of Surgical Motors



**Reliable and High Performance with
Japanese Makita Technology Inside.**

WHO WE ARE

BSF GROUP MEDICAL is established in 2010 and headquarters located in Antalya Turkey. Our service and workshop plants located in Istanbul and Adana Turkey.

We are market leader surgical motors company in Turkey.

We intended to provide high quality, reliable, long life surgical motors with competitive prices and with high service quality. We believe that surgical motor market needs reliable products with longer life and with reasonable prices.



Our Technology

We use Makita Engines inside most of our products. After long research program, we experienced that Makita Engines are best for our products. Turkish manufacturing experience with Japanese technology provide us high quality, reliable products with high performance and long life.

S SERIES

WITH 3000 MAH SONY LITHIUM
ION DIGITAL BATTERIES

FIRST SURGICAL MOTOR BRAND
HAVE 3000 Mah CAPACITY DIGITAL
LITHIUM BATTERIES.

Reliable and High Performance with
Japanese Makita Technology Inside.

Low Noise and vibration level

Cannulated Drill High speed:≤1350 rpm

Oscillating Saw Speed:≤18000 cpm

Voltage:AC220V/50Hz

Sensitive trigger with High speed
drilling,

Low speed drilling

screw driving and tapping.

Torque limiting for screw driving.



Host part

Parameter		No-Load speed	Frequency	Maximum Torque	5 Minutes Temperature	Noise
Category		rpm	Hz	N.m	°C	dB
BSF-SD	Bone drill	0-1350		≥3	≤25	≤75
	Reamer drill	0-300		≥3	≤25	≤75
	Oscillating Saw		0-18000		≤25	≤75
BSF-SD	AO Drill	0-1350		≥3	≤25	≤75
	Reamer	0-300		≥3	≤25	≤75
BSF-SS	Sternum Saw	0-18000	0-18000		≤25	≤75

Battent & Charger

Host	Voltage,	5.76 V Q ~ 17.28V
	power	≥150W
Charger	Input voltage	100V ~ 240V
	Input power	50Hz ~ 60Hz
	Input current,	0.5A (max)
	Output voltage,	7.2V ~ 14.4V
	Output current	1.0A (max)
Battery	Voltage	5.76V ~ 17.28V
	Charging time	≈1H
	Discharge time / 1A	≥30 min

M SERIES

Feel the power and long operation life
M Series come with 3000 Mah Lion Battery makes us feel confident against long operations.
Long Life, Reliable and High Performance with special Johnson Engine technology inside.

Low Noise and vibration level
Cannulated Drill High speed:<1350 rpm
Oscillating Saw Speed <16000 cpm
Voltage:AC220V/50Hz



Host part

Parameter Category		No-Load speed rpm	Frequency Hz	Maximum Torque N.m	5 Minutes Temperature °C	Noise dB
BSF-SD	Bone drill adapter	0-1350		≥3	≤25	≤75
	Reamer drill adapter	0-300		≥3	≤25	≤75
	Oscillating Saw adapter		0-16000		≤25	≤75
BSF-SD	Drill	0-1350		≥3	≤25	≤75
	Reamer drill	0-300		≥3	≤25	≤75
BSF-SS	Saw	0-16000	0-16000		≤25	≤75

Battart & Charger

Host	Voltage,	5.76 V Q ~ 17.28V
	power	≥150W
Charger	Input voltage	100V ~ 240V
	Input power	50Hz ~ 60Hz
	Input current,	0.5A (max)
	Output voltage,	7.2V ~ 14.4V
Battery	Output current	1.0A (max)
	Voltage	5.76V ~ 17.28V
	Charging time	≈2H
	Discharge time / 1A	≥30 min

B SERIES

Multi-function with Wide Range Options

B Series Multifunctional system is widely applied in joint surgery, trauma surgery, neurosurgery, thoracic surgery. Along with a wide selection of attachments (12 different coupler attachments), drilling, reaming, pinning, and wound debridement, offering the ultimate in convenience and versatility. The attachment can be easily assembled and disassembled. The main components are made of high-strength biomedical stainless steel



I: Quick chuck: Imported chuck ensures outstanding performance during operation.

Ii: Sternum saw: Both 360° Rotating head and blade guard protect soft tissue around sternum.

Iii: Sternum saw: 4000 r. P. M rates assure fast, efficient and safe process in craniotomy.

Iv: Cranial drill: Auto-pause after perforation ensures safety in neurosurgery

V: Cranial mill: 0-40000rpm rates of bur ensure the speed, high efficiency and safety during operation.

Vi: Oscillating saw: 360rotating head can be applied to any surgical sites. Can load and unload blades easy, fast and safe.

Vii: Reamer: Hi-torque, ideal for acetabulum or medullary operation, available to all brands' mill universal.

Viii: Wire and pin chuck: Applied to various intramedullary pin or kischner's wire fixing operation easily and conveniently.

MINI MULTIFUNCTIONAL

Orthopedic Micro Multifunctional with

BRUSHLESS ENGINE TECHNOLOGY

LITHIUM ION BATTERIES

I: Portable and lightweight

Ii: Reliable and performance

Iii: Autoclavable

I: Hand Piece Working Voltage 14.4V Ii:

Hand Piece Output Power $\geq 20W$

Iv: Charger Input Voltage AC 220V, 50Hz

V: Charger Output Power 14.4V

Vi: Charger Input Power 30VA

Vii: Battery Voltage 14.4V LION

Standard Configuration

I: One hand piece

Ii: Two batteries

Iiii: One Charger

Iv: One drill chuck

V: One Sterilizing channel

Vi: One Aluminium box

Technical Merits

I: Axial run-out of cincentricity is within

0.05mm

Ii: Rotating speed: 1200 rpm

Iii: Ritated torque 3.5N/m

Iv: Supporting the interface of the brand

products: Semiluser surface treatment

technology gives the operator more

comfortable operation



Application:Orthopedic, Kirschner Wire, Intramedullary Nail

Material:Stainless Steel and Aluminium

Feature:Reusable Certification:CE, ISO13485

Medical Device Regulatory Type:Type 2

Weight:1700g Weight of Aluminium Box:2280g

Torque:3.5N/m

Non-Load Speed:600R. M. P. Rotating

Voltage:220V/50Hz-110V/60Hz

F SERIES

USA PORTESCAP BRUSHLESS ENGINE INSIDE

THE LATEST TECHNOLOGY of SURGICAL MOTORS

Brushless Multifunctional Precise Power with USA Brand **PORTESCAP** Engine Inside.

Brushless Multifunctional Medical Handpiece of surgical drills and saws with multifunctional attachments, quick-coupling, support customized various brand, motor maintains steady power output, Handpiece can drive a variety of quick connects, large battery capacity, perfect ergonomic design, can meet different kinds of joint surgery, trauma surgery.



Battery Capacity : 3000 MAH Lithium Batteries
Saw Speed: 0-18000 CPM
Cannulated Drill Speed: 0-1200 RPM
Reamer Speed: 0-300 RPM

PLASTER SAW with AUTOMATIC VACUUM UNIT

Vacuum cleaner with 1200 Watt power, mounted on four wheels.

Its robust construction and power offer support for the plaster saw.

The HEPA-compliant filters provide a standard filtration of 99.97 % of particles of 0.3 microns.

A power outlet allows the connection of the saw.

By connecting Plaster Saw to the vacuum unit, it is switched on and off automatically when operating the power tool. The vacuum cleaner starts automatically upon activation of the saw and stops a few seconds after the saw stops.

Antistatic hose minimises electrical discharge

Accessories are stored directly on the vacuum cleaner and immediately accessible during extraction. When stowed away, the cable and hose are attached in a space-saving manner.

Allows you to work flexibly thanks to the 2.2 meter long hose and 8 meter cable.

Automatic remote switch-on facility

Socket on top of the unit

Blowing function

Drain valve

Antistatic system



6 SPEED OPTION with AUTOMATIC POWERFUL SUNCTION



With 50 mm, 65 mm, 75 mm blade options
SS blades, Titanium and Nickel Coated Blades

1,9 m-4,5 m-8.0 m Electric Cable options

6 Speed option with 12.000-21.000 rpm

Low Noise (Max 78 db)

Low Vibration (Max 2,3 m/s²)

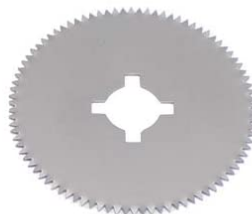
Low Weight (1.3 kg)

With Special Aluminium box

Easy blade replacement

Auto Cooler Fan inside

Able to used with Vacuum Unit or Individually



SAGGITAL STERNUM & REVISION SAW

3000 Mah CAPACITY DIGITAL SONY LITHIUM BATTERIES & JAPANESE MAKITA ENGINE INSIDE

Sagittal Sternum Saw was designed for use in cardiac and thoracic procedures, easily removable and mountable locking sternum guard system and easy blade change, high-strength Aluminium steel, low noise and less vibration, more comfortable, variable speed and lightweight for better precision and accuracy, Can be sterilized up to 140 C.



18.000 cpm oscillation power

Low weight, Even lighter with Lithium Batteries

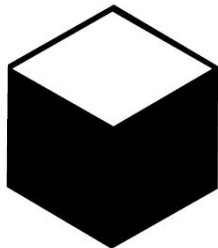
3000 Mah Capacity Digital Lithium ION Batteries.

Easy removable and mountable, locked sternum guard system and easy blade change.

Ergonomic design. Due to special surface coating avoids slippery while using the product.

Speed controlled, sensitive and progressive trigger sytem.

Sterilized aluminium container option.



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