

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, 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

NOW WITH 3000 MAH LITHIUM ION BATTERY

Reliable and High Performance with

Japanese Makita Technology Inside.

Low Noise and vibration level

Cannulated Drill High speed: <1350

rpm Oscillating Saw Speed <16000

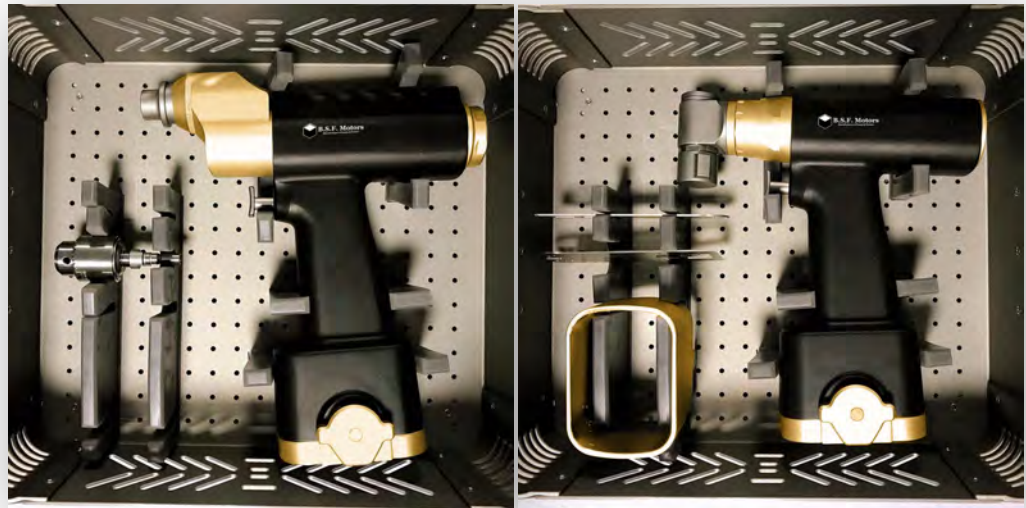
cpm Voltage: AC220V/50Hz

Sensitive trigger

with High speed and oscillating

drilling. Low speed drilling, screw driving and tapping.

Torque limiting for screw driving



Host part

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

Battert & 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

Sensitive trigger

With High speed and oscillating drilling



Host part

Parameter Category		No-Load speed	Frequency	Maximum Torque	5 Minutes Temperature	Noise
		rpm	Hz	N.m	°C	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

Battert & 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	≈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

Iii: 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

HIGH SPEED BUR DRILL

High speed burr drill is used in neurosurgery, spine surgery, ENT and microsurgery. Made of quality materials, the product is divided into straight-handle and angled-handle, support for optional long handles. It can withstand high temperature 135°, low noise, perfect ergonomic design safe and reliable performance reduces the risk of surgery. Making it suited for a wide range of surgeries, including spine, neurotology, and ENT procedures. Standard configuration



One motor One Straight Attachment One Angled Attachment One sterilizing box One digitized power controller (Console) One footrest Switch One aluminum case

MAXIMUM 40000 RPM



F SERIES

Brushless Multifunctional Precise Power
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.



**ALL OF OUR PRODUCTS COME WITH;
2 BATTERIES, CHARGER, ALUMINIUM CASE AND WITH ALL NECESSARY EQUIPMENT.
ALL OF OUR PRODUCTS OFFERED WITH 2 YEARS MOTOR WARRANTY AND 3 MONTHS WARRANTY
FOR LION BATTERIES.**



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