

medical**bees**<sup>♂</sup>

**Powertools** **bee-system** II  
Li-Ion - Technology



BEST QUALITY  
Made in  
Germany



# medicalbees

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## bee-system||

Li-Ion - Technology

**The idea:** Unique durability - all integrated components: motor, battery and electronics in removable unit.  
No need to sterilize delicate components. Only outer housing goes into the autoclave.  
Innovative design with intuitive and easy-to-use symbols.

**Design:** Newest Li-Ion technology for long lifetime with no-memory effect.  
The innovative battery-driven Power System

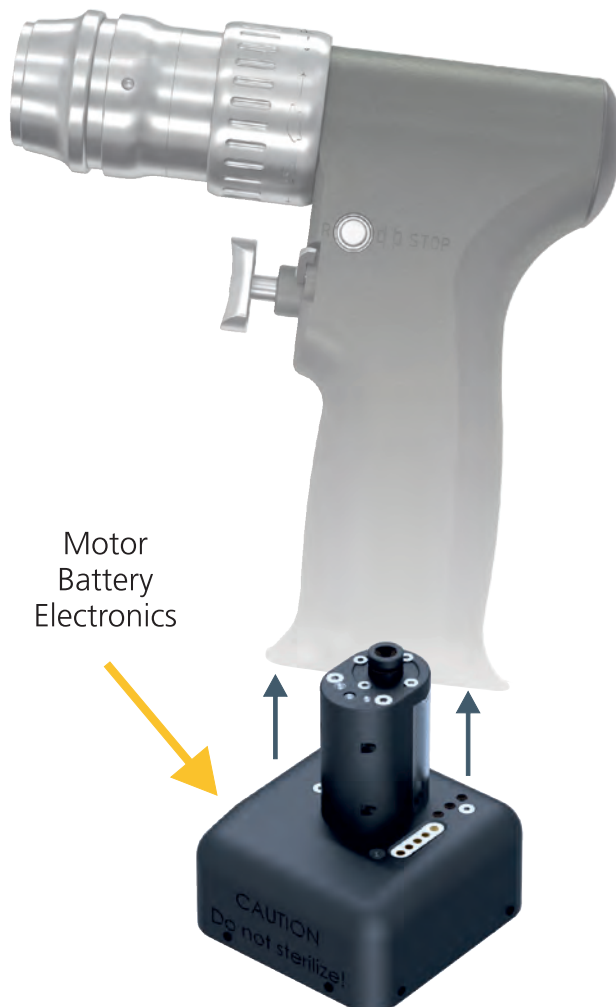
bee-system|| The new beesystem|| with a more ergonomic handpiece with slimmer handle and easier closing mechanism.





## 1 Powerpack for all 5 machines

**Technology:** Concept with newest battery technology and longer life time.  
 Li-Ion-Technology - Innovative solutions brought to the point  
 The innovative battery-driven Power-system concept with newest Li-Ion battery technology and longer lifetime.  
 With new ergonomic design, improved closing mechanism and easier cleaning/ maintenance.  
 All adapters and the Powerpack remain compatible with beesysteml and beesystemll.



### Table of contents:

Page: 2-3:	<b>bee-systemll</b>
Page 4:	<b>Drill &amp; Ream</b> F-31-100-00
Page 5:	<b>Standard Drill</b> F-31-150-00
Page 6:	<b>Oscillating reamer</b> F-31-700-00
Page 7:	<b>Oscilating saws</b> F-31-300-00 F-31-301-00 F-31-310-00
Page 8:	<b>Sternum reciprocating saw</b> F-31-601-00
Page 9:	<b>Powerpack</b> F30-900-00
Page: 10:	<b>Charger</b> F-30-900-50
Page 11:	<b>additional accessoires</b>
Page 12:	<b>medicalbees</b>

## Drill&Ream

F-31-100-00

The new beesystemII universal Drill& Ream handpiece for all orthopaedic indications and large bone surgery. Drill&Ream machine with Right/ Left (CW and CCW) rotation lever for oscillating mode on/off and trigger for manual speed regulation with ring for switch drill and ream mode.

- With Right/ Left (forward/ backward rotation)

**R L**

- Lockposition

**db STOP**

- Oscillating mode on



off



- Continuously adjustable rotation speed



- Drill with 2 speed ranges  
Switch to change from Drill to Ream mode



### Technical data **F-31-100-00 Drill&Ream machine**

Handpiece dimensions (without attachment)	162 x 93 x 198 mm
Weight of handpiece with power pack	1850 g
Continuously adjustable rotation speed	0 - 1000 rpm (drill mode) 0 - 250 rpm (ream mode)
Cannulation	Cannulation of Ø 4.3mm
Protection class	B, EN 60601-1
Power supply	Internal battery

For all available accessories please see page 9-11 and Catalogue for additional options (F-30-000-07)



# Standard Drill

F-31-150-00:



The new beesystemII small handpiece for all drill attachments incl. Kirschner pin driver with continuously adjustable rotation speed.

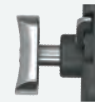
- With Right/ Left (CW/ CCW) rotation



- Lockposition



- Continuously adjustable rotation speed



## Technical data **F-31-150-00 standard drilling machine**

Handpiece dimensions (without attachment)	137 x 93 x 197 mm
Weight of handpiece with power pack	1660 g
Continuously adjustable rotation speed	0 - 1000 rpm
Cannulation	Cannulation of Ø 4.3mm
Protection class	B, EN 60601-1
Power supply	Internal battery

For all available accessories please see page 9-11 and Catalogue for additional options (F-30-000-07)

# Oscillating reaming machine

F-31-700-00

The new oscillating reaming machine for use in anterior cruciate ligament reconstruction

- With Right/ Left (CW/CCW) rotation

**R L**

- Lockposition

**db STOP**

- Continuously adjustable rotation speed



## Technical Data **F-31-700-00 oscillating reaming machine**

Handpiece dimensions (without attachment)	140 x 111 x 206 mm
Mass of handpiece with power pack	1550 g
Continuously adjustable rotation speed	0 - 9000 rpm (Step I) 0 - 11000 rpm (Step II)
Protection class	B, EN 60601-1
Power supply	Internal battery

For all available accessories please see page 9-11 and Catalogue for additional options (F-30-000-07)



## Oscillating saws

- F-31-300-00
- F-31-301-00
- F-31-310-00



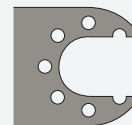
Sagittal oscillating saw in bone surgery:

- With rotatable saw blade clamping in 45° steps (8 positions)
- Manual speed adjustment and oscillating mode
- Shift lever for operating in two different speeds
- Available in 2 variants with 2° and 4° lateral saw blade movement.
- With AO-Synthes and Stryker connection of the saw blade

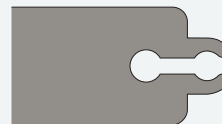
Oscillating saws are available in three version.

**F-31-300-00:** oscillating saw, 4° (lateral movement) - for Synthes / AO saw-blades

**F-31-301-00:** oscillating saw, 2° (lateral movement) - The lateral movement of the saw blade is set from the center line in this model to 2° (instead of 4°)



**F-31-310-00:** oscillating saw for Stryker sawblades



### Technical Data **F-31-300-00 / F-31-301-00 oscillating saws**

Handpiece dimensions (without attachment)	166 x 111 x 211 mm
Mass of handpiece with power pack	1760 g
Continuously adjustable rotation speed	0 - 9000 cpm (Step I) 0 - 11000 cpm (Step II)
Protection class	B, EN 60601-1
Power supply	Internal battery

For all available accessories please see page 9-11 and Catalogue for additional options (F-30-000-07)

## Sternum saw

F-31-601-00

Sternum saw with protection sleeve and keyless chuck with continuously adjustable rotation speed and switch lever from Step I to II. Basic model can be used as reciprocating saw.

Rotate the attachment/chuck to the desired position. Locking always at 90°

- Precise cutting guide with good visibility conditions
- Easy clamping of sawblade (no tools required),
- Use of saw blades with Stryker adaption
- Attachment of protection sleeve in 4' different positions possible ( Locking at 90°)
- basic model to be used as reciprocating



### F-31-601-00:

Sternum saw, includes F-30-400-05 Sternum protection sleeve, 70mm

### F-30-400-10:

XL-Sternum protection sleeve, 80mm

For all available accessories please see page 9-11 and Catalogue for additional options (F-30-000-07)



### Technical Data F-31-601-00 Sternum saw

Handpiece dimensions (without attachment)	185 x 111 x 206 mm
Mass of handpiece with power pack	1750 g
Continuously adjustable rotation speed	0 - 7500 cpm (Step I) 0 - 10000 cpm (Step II)
Protection class	B, EN 60601-1
Power supply	Internal battery





# Powerpack

(compatible to both beesystemI and beesystemII machines)  
F-30-900-00



**Do not sterilize**

Powerpack, universal drive unit for use with all beesystem handpieces, newest Li-Ion technology.

The heart of the system:

1 Powerpack for all handpieces

- Includes control unit, battery, electronics and motor - all united in one Powerpack
- Automatic recognition of the performance parameters according to the used handpiece
- Unique durability, no need to sterilize delicate components
- Latest battery technology – long lifetime no memory effect
- Display for battery charging status: green, orange, red (discharged)
- White LEDs for additional illumination of the OR field

## Technical Data F-30-900-00 Powerpack (battery)

Dimensions	89 x 87 x 102 mm
Weight	760 g
Type	Li-ion
Max. voltage	16.8 V
Operating voltage (rated voltage)	14.4 V
Capacity	2.1 Ah
Typical charging time period	< 90 min

Accessories:

F-30-900-20: Sterile funnel (compatible to both beesystemI and beesystemII) handpieces

## Charging units

for use with Powerpack F-30-900-00

All charging units indicate the charging status of the Powerpacks:  
In addition to the charging status on the Powerpack the charger indicates per Powerpack slot the charging capacity:

Powercable (to be ordered separately)

F-30-900-53	Powercable EU
F-30-900-54	Powercable UK
F-30-900-55	Powercable USA
F-30-900-56	Powercable Australia
F-30-900-57:	POAG Cable



### Technical Data **F-30-900-50 charger (single)**

Dimensions	157 x 140 x 79 mm
Mass	1740 g
Type	Li-ion battery charger
Input	100 - 240 V AC 50 - 60 Hz 0,9 A
Output	16,8 V DC 2,0 A



### Technical Data **F-30-900-51 charger (double)**

Dimensions	240 x 190 x 130 mm
Mass	4939 g
Type	Li-ion battery charger
Input	100 - 240 V AC 50 - 60 Hz 0,9 A
Output	16,8 V DC 2,0 A



### Technical Data **F-30-900-52 charger (quadruple)**

Dimensions	636 x 140 x 79 mm
Mass	6960 g
Type	Li-ion battery charger
Input	100 - 240 V AC 50 - 60 Hz 0,9 A
Output	16,8 V DC 2,0 A



## Accessoires

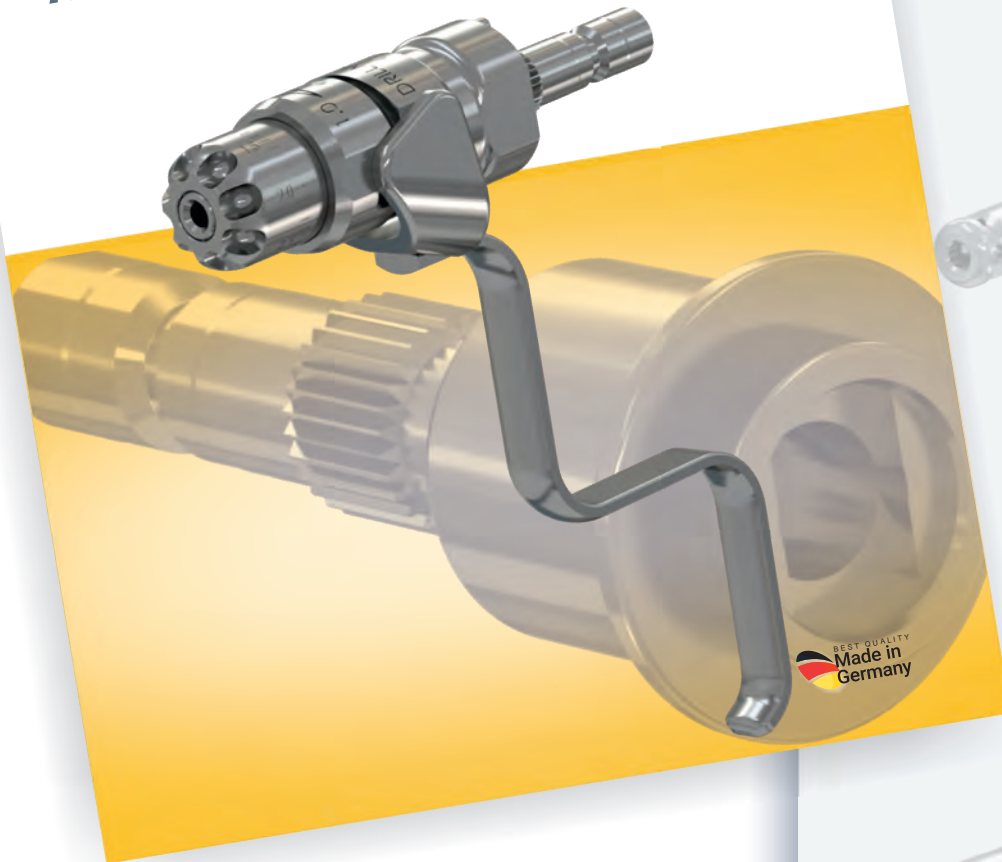
For all available accessories please see Catalogue for additional options (F-30-000-07)



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**Powertools  
Accessoires**

bee-system||  
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BEST QUALITY  
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➔ This could also interest you:

MF-cranial stabilization system



beesystem flyer



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