CORDLESS DRILL (BATTERY) SYSTEM AND AIR DRILL SYSTEM
Manufacturer of surgical implants and medical devices. Solutions for patient orthopaedic and osteosyntheses fracture treatments, osteosyntheses customized orthopaedic innovations and solutions.

**CORPORATE COMPANY PHILOSOPHY, SOLUTION WITHOUT COMPROMISE**

MAT GmbH & Co.KG. design, develop and manufacture implants and instruments for use in specific treatments of trauma orthopedic systems, fracture reconstruction treatment systems.

- Plate- and screw systems (mini, small- and large fragment systems)
- Locking plate- and screw systems (small- and large fragment systems)
- Interlocking nailing systems
- Cranio maxillo facial plate- and screw systems
- Cannulated screw system
- Flexible reamer systems
- Hand and Foot implants (screws- and staple systems)
- External fixator systems
- Oscillating saw blades
- Power tool systems, battery- and air drive systems
- General surgical instruments
- Hemi arthroplasty instruments for hip surgeries and cement extraction

MAT GmbH & Co.KG. innovative and exiting product portfolio is updated and expanded in line with technological advances to satisfy the current and future needs of both, patients and healthcare professionals. MAT GmbH & Co.KG. is committed to playing our part in achieving improved healthcare outcomes worldwide.
CORDLESS DRILL (BATTERY) SYSTEM

User’s Manual No. 6.1 (GB) (for download homepage www.mat-medical.com)

CORDLESS DRILL SYSTEM

- Easy to use
- Ergonomic design
- Simple, compact battery packs with high capacity
- Small, robust drill with an extensive range of attachments
- Steam-sterilisable
CORDLESS DRILL (BATTERY) SYSTEM

Complete System
include Attachments

- Mono Block Battery Oscillating Saw, used for connection AO/Synthes Saw Blades
  REF. 4-808
- Cordless Drill with end cap
  REF. 4-807
- Quick-action chuck for drill wires up to dia. 2.5 mm
  REF. 4-842
- Three-jaw chuck up to dia. 7.0 mm, round and triangular shanks with chuck key
  REF. 4-830
- Protection & guidance sleeve for Kirschner wires
  REF. 4-843
- Lever for tightening Saw Blade in part
  REF. 4-836
- Oscillating saw; AO connection for Saw Blades AO connection
  REF. 4-836
- AO chuck
  REF. 4-862
- Quick-action chuck for drill wires up to dia. 2.5 mm
  REF. 4-842
- DIN Chuck for Aesculap medullary reamer
  REF. 4-864
- Harris chuck
  REF. 4-866
- Hudson chuck
  REF. 4-868
Long rechargeable battery, with extension, delivered with long end cap for cordless drill · REF. 4-807 in Part · REF. 4-809

Standard rechargeable battery · REF. 4-810

Funnel for inserting rechargeable battery into Cordless Drill REF. 4-807 · REF. 4-811

Desktop Charger, dual 240V - charging time 60 minutes · REF. 4-816
Desktop Charger, dual 115V - charging time 60 minutes · REF. 4-817

Desktop Charger, mono 240V - charging time 60 minutes · REF. 4-814
Desktop Charger, mono 115 V - charging time 60 minutes · REF. 4-815

Reduction gears with AO standard clutch, large, Speed 0-150 rpm · REF. 4-834

Sternum saw · REF. 4-837

Sternum saw blades · REF. 4-837-1
CORDLESS DRILL (BATTERY) SYSTEM

Technical data, Electromagnetic compatibility and attachments

Technical data:

<table>
<thead>
<tr>
<th>Type of equipment: Type BF</th>
<th>Cordless Drill REF. 4-807</th>
<th>Mono Block Battery Oscillating Saw REF. 4-808</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>9,6 V</td>
<td>9,6 V</td>
</tr>
<tr>
<td>Rated capacity of the Rechargeable Battery REF. 4-810</td>
<td>1.2 Ah</td>
<td>1.2 Ah</td>
</tr>
<tr>
<td>Speed, infinitely adjustable</td>
<td>0-750 rpm</td>
<td>0-14000 rpm</td>
</tr>
<tr>
<td>Max. torque</td>
<td>4 Nm</td>
<td></td>
</tr>
<tr>
<td>Weight incl. battery</td>
<td>1250 grams</td>
<td>1500 grams</td>
</tr>
<tr>
<td>Motor output</td>
<td>70 W</td>
<td>70 W</td>
</tr>
</tbody>
</table>

Type according to Directive:
EN 60601-1 / IEC 601-1
EN 60601-1-2 / DIN EN 60601-1-2
used for medical electrical devices
MED.UMW
Degree of protection, as per DIN EN 5290 =>
IP66
IP66

Electromagnetic compatibility (EMC):

Manufacturer’s certificate:
It is hereby certified that the Cordless Drill REF. 4-807 / 4-808 has been tested and is interference-suppressed in compliance with the EMC provisions of EN60601-1-2.
This Cordless Drill REF. 4-807 / 4-808 has been tested by our notified body for a Class II.a product with internal or external energy source, as per 93/42 EEC Annex II.3

The electrical device are fully filled the standards:
- EN 60601-1 / IEC 601-1
- EN 60601-1-2 / DIN EN 60601-1-2

Medical electrical devices:
- EN 14155 (Clinical data: evaluation of evidence on the basis of literature and clinical trial MEDDEV 2.7.1 )
- EN 14971 (Risk analysis: evaluation of risk analysis )
- Evaluation of the check list of fundamental requirements for this electrical medical devices
### Attachments:

<table>
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<tr>
<th>Order of Number</th>
<th>Description</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>REF. 4-807</td>
<td>Cordless Drill with end cap</td>
<td>Medical Device</td>
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<td>REF. 4-808</td>
<td>Mono Block Battery Oscillating Saw, used for connection AO/Synthes Saw Blades</td>
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<tr>
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<td>Medical Device</td>
</tr>
<tr>
<td>REF. 4-814</td>
<td>Desktop Charger, mono 240V - charging time 60 minutes</td>
<td>Not a medical device</td>
</tr>
<tr>
<td>REF. 4-815</td>
<td>Desktop Charger, mono 115 V - charging time 60 minutes</td>
<td>Not a medical device</td>
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<tr>
<td>REF. 4-816</td>
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<td>Harris chuck</td>
<td>Medical Device</td>
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<td>REF. 4-868</td>
<td>Hudson chuck</td>
<td>Medical Device</td>
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AIR SYSTEM

⚠️ User's Manual No. 7 (GB) (for download homepage www.mat-medical.com)

AIR SYSTEM

- Easy handling
- Powerful
- Full line of attachments
- Stream & gas sterilizable
- CE/ISO/EMC approved
AIR SYSTEM

Complete System include Attachments

- AO chuck · REF. 4-862
- Quick-action chuck for drill wires up to dia. 2.5 mm · REF. 4-842
- DIN Chuck for Aesculap medullary reamer · REF. 4-864
- Harris chuck · REF. 4-866
- Hudson chuck · REF. 4-868
- Oscillating saw; AO connection for saw blades AO connection · REF. 4-836
- Three-jaw chuck up to dia. 7.0 mm, round and triangular shanks with chuck key · REF. 4-830
- Protection & guidance sleeve for Kirschner wires · REF. 4-843
- Lever for tightening saw blade in part · REF. 4-836
- Air Drill · REF. 4-800
AIR SYSTEM

Complete System include Attachments

Reduction gears with AO standard clutch, large, Speed 0-150 rpm · REF. 4-834

Sternum saw · REF. 4-837

Sternum saw blades · REF. 4-837-1

Hose:

Synthes-Synthes length 3 m · REF. 4-801/3
Synthes-Synthes length 5 m · REF. 4-801/5

Dräger-Synthes length 3 m · REF. 4-802/3
Dräger-Synthes length 5 m · REF. 4-802/5

Schrader-Synthes length 3 m · REF. 4-803/3
Schrader-Synthes length 5 m · REF. 4-803/5

Industrial-Synthes length 3 m · REF. 4-804/3
Industrial-Synthes length 5 m · REF. 4-804/5
AIR SYSTEM

Technical data and Attachments

Technical data:

Air drill
Speed range 0-1100 Rpm
Weight 800 g
Working pressure max 8.5 bar
Torque 5 Nm
Cannulation diameter 3.0 mm
Left and right turns as well as speed can be regulated by means of levers on the handpiece

Hoses
Length of hoses 3 and 5 meters
Connection Synthes-Synthes, Dräger-Synthes
Schrader-Synthes, Industrial-Synthes
Working pressure 8.5 bar

Air supply
Use only pure, dry compressed air filtered to 5 microns
Working pressure 8.5 bar

Warning!
Care has to be taken with systems having a recycling of exhaust air that the pressure in the exhaust air hose, with running motor does not exceed 0.2 bar

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