

CORDLESS DRILL (BATTERY) SYSTEM AND AIR DRILL SYSTEM



INTRODUCING OURSELVE

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.

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CORDLESS DRILL (BATTERY) SYSTEM

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

CORDLESS DRILL SYSTEM

Easy to use





CORDLESS DRILL (BATTERY) SYSTEM

Complete System include Attachments





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



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





REF. 4-809 · Long rechargeable battery = 12 V / Voltage, with extension, delivered with long end cap for cordless drills: REF. 4-805 / REF.4-807 / REF.4-808



REF. 4-810 · Standard rechargeable battery = 9,6 V / Voltage, with extension, delivered with long end cap for cordless drills: **REF. 4-805 / REF.4-807 / REF.4-808**



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



Technical data:

Type of equipment: BF		REF. 4-805 Sternum Saw REF. 4-805
Speed range 9,6 V battery	REF. 4-810	0-12 000 cpm
Speed range 12 V battery	REF. 4-809	0-14 000 cpm
Power 9,6V / 12V		150 Watt
Regulation		Stepless
Weight incl. battery 9,6 V		1100 grams
Weight incl. battery 12V		1350 grams
Saw blade connetion		Stryker
Noise level		62 db
Classified as type		BF
Degree of protection		As per DIN EN 5290 => IP 66
Type of equipment: BF		REF. 4-807 Cordless Drill
Speed range 9,6 V battery	REF. 4-810	0-750 rpm
Speed range 12 V battery	REF. 4-809	0-900 rpm
Power 9,6 V / 12 V		150 Watt
Regulation		Stepless
Weight incl. battery 9,6V		1250 grams
Weight incl. battery 12V		1500 grams
Max. Torque		4 Nm
Noise level		62 db
Classified as type		BF
Degree of protection		As per DIN EN 5290 => IP 66
Type of equipment: BF		REF. 4-808 Mono Block Battery Oscillating Saw
Speed range 9,6 V battery	REF. 4-810	0-12000 cpm
Speed range 12 V battery	REF. 4-809	0-14000 cpm
Power 9,6 V / 12 V		150 Watt
Regulation		Stepless
Weight incl. battery 9,6V		1250 grams
Weight incl. battery 12V		1500 grams
-		-
Noise level		62 db
Classified as type		BF
Degree of protection		As per DIN EN 5290 => IP 66
Type according to Directive: EN 60601-1 / IEC 601-1 EN 60601-1-2 / DIN EN 6060 used for medical electrical d MED.UMW	evices	
Degree of protection, as per	DIN EN 5290 =>	IP 66

Technical data, Electromagnetic compatibility and attachments

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 evedence 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

CORDLESS DRILL (BATTERY) SYSTEM



Attachments:

Order of Number	Description:	
REF. 4-805	Mono block reciprocator sternum saw	Medical Device
REF. 4-805-1	Blade guard-reciprocator sternum saw	Medical Device
REF. 4-805-2	Reciprocator Stryker saw blade 34 mm	Medical Device
REF. 4-807	Cordless Drill with end cap	Medical Device
REF. 4-808	Mono Block Battery Oscillating Saw, used for connection AO/Synthes Saw Blades	Medical Device
REF. 4-809	Long rechargeable battery, with extension	Medical Device
REF. 4-810	Standard rechargeable battery	Medical Device
REF. 4-811	Funnel for inserting rechargeable battery into Cordless Drill REF. 4-807	Medical Device
REF. 4-814	Desktop Charger, mono 240V - charging time 60 minutes	Not a medical device
REF. 4-815	Desktop Charger, mono 115 V - charging time 60 minutes	Not a medical device
REF. 4-816	Desktop Charger, dual 240V - charging time 60 minutes	Not a medical device
REF. 4-817	Desktop Charger, dual 115 V - charging time 60 minutes	Not a medical device
REF. 4-830	Three-jaw chuck up to dia. 7.0 mm, round and triangular shanks with chuck key	Medical Device
REF. 4-834	Reduction gears with AO standard clutch, large, Speed 0-150 rpm	Medical Device
REF. 4-836	Oscillating saw; AO connection for saw blades AO con- nection	Medical Device
REF. 4-837	Sternum saw	Medical Device
REF. 4-842	Quick-action chuck for drill wires dia. 0.5 mm up to dia. 3.0 mm	Medical Device
REF. 4-843	Protection & guidance sleeve for Kirschner wires	Medical Device
REF. 4-862	AO chuck	Medical Device
REF. 4-864	DIN Chuck (Aesculap medullary reamer)	Medical Device
REF. 4-866	Harris chuck	Medical Device
REF. 4-868	Hudson chuck	Medical Device



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













Complete System include Attachments





Complete System include Attachments



Technical data and Attachments

Technical data:

Air drill

Speed range0-1100 RpmWeight800 gWorking pressure7 max 8 barCannulation diameter3,0 mmLeft and right turns as well as speed can be regulated by
means of levers on the well

Hoses

Lenght of hoses	3 and 5 meters	
Connection	Synthes-Synthes, Dräger-Synthes	
	Schrader-Synthes, Industrial-Synthes	
Working pressure	8,5 bar	

Attachments:

Order of Number	Description:	
REF. 4-800	Air drill	Medical Device
REF. 4-830	Three-jaw chuck up to dia. 7.0 mm, round and triangular shanks with chuck key	Medical Device
REF. 4-834	Reduction gears with AO standard clutch, large, Speed 0-150 rpm	Medical Device
REF. 4-836	Oscillating saw; AO connection for saw blades AO connection	Medical Device
REF. 4-837	Sternum saw	Medical Device
REF. 4-842	Quick-action chuck for drill wires dia. 0.5 mm up to dia. 3.0 mm	Medical Device
REF. 4-862	AO chuck	Medical Device
REF. 4-864	DIN Chuck (Aesculap medullary reamer)	Medical Device
REF. 4-866	Harris chuck	Medical Device
REF. 4-868	Hudson chuck	Medical Device
REF. 4-801/3	Synthes-Synthes length 3m	Medical Device
REF. 4-801/5	Synthes-Synthes length 5m	Medical Device
REF. 4-802/3	Dräger-Synthes length 3m	Medical Device
REF. 4-802/5	Dräger-Synthes length 5m	Medical Device
REF. 4-803/3	Schrader-Synthes length 3m	Medical Device
REF. 4-803/5	Schrader-Synthes length 5m	Medical Device
REF. 4-804/3	Industrial-Synthes length 3m	Medical Device
REF. 4-804/5	Industrial-Synthes length 5m	Medical Device

Air supply

Use only pure, dry compressed air filterd 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 exees 0,2 bar



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