

MATTES

INSTRUMENTE GmbH
MEDIZINTECHNIK



AIR DRILL SYSTEM

■ Cordless Drill (Air) System

User's Manual No. 7 (GB)

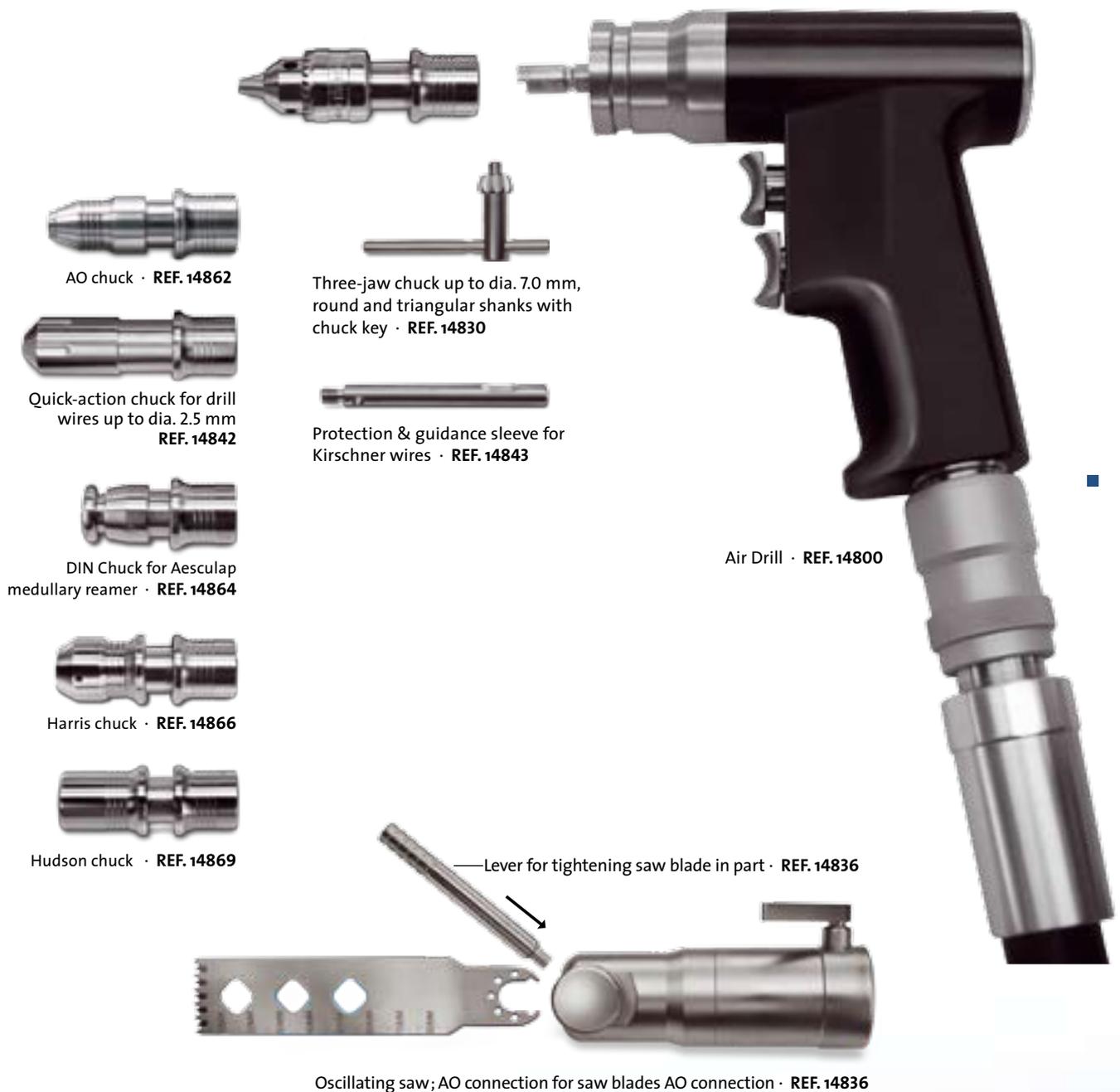
AIR SYSTEM

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



Cordless Drill (Air) System

Complete System include Attachments



CORDLESS DRILL (AIR) SYSTEM

■ Cordless Drill (Air) System

Complete System include Attachments

CORDLESS DRILL (AIR) SYSTEM



Sternum saw · REF. 14837



Reduction gears with AO standard clutch,
large, Speed 0-150 rpm · REF. 14834



Blade - cutting thickness =
1.00 mm / 0.39 in.
REF. 48371

Hose :



Synthes-Synthes length 3 m · REF. 14801 30
Synthes-Synthes length 5 m · REF. 14801 50



Dräger-Synthes length 3 m · REF. 14802 30
Dräger-Synthes length 5 m · REF. 14802 50



Schrader-Synthes length 3 m · REF. 14803 30
Schrader-Synthes length 5 m · REF. 14803 50



Industrial-Synthes length 3 m · REF. 14804 30
Industrial-Synthes length 5 m · REF. 14804 50

Cordless Drill (Air) System

Technical data and Attachments

Technical data:

Air drill

Speed range	750 rpm
Weight	800 g
Working pressure	7 max 8 bar
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

Attachments:

Order of Number	Description:	
REF. 14800	Air drill	Medical Device
REF. 14830	Three-jaw chuck up to dia. 7.0 mm, round and triangular shanks with chuck key	Medical Device
REF. 14834	Reduction gears with AO standard clutch, large, Speed 0-150 rpm	Medical Device
REF. 14836	Oscillating saw; AO connection for saw blades AO connection	Medical Device
REF. 14837	Sternum saw	Medical Device
REF. 14842	Quick-action chuck for drill wires up to dia. 2.5 mm	Medical Device
REF. 14862	AO chuck	Medical Device
REF. 14864	DIN Chuck (Aesculap medullary reamer)	Medical Device
REF. 14866	Harris chuck	Medical Device
REF. 14869	Hudson chuck	Medical Device
REF. 14801 30	Synthes-Synthes length 3m	Medical Device
REF. 14801 50	Synthes-Synthes length 5m	Medical Device
REF. 14802 30	Dräger-Synthes length 3m	Medical Device
REF. 14802 50	Dräger-Synthes length 5m	Medical Device
REF. 14803 30	Schrader-Synthes length 3m	Medical Device
REF. 14803 50	Schrader-Synthes length 5m	Medical Device
REF. 14804 30	Industrial-Synthes length 3m	Medical Device
REF. 14804 50	Industrial-Synthes length 5m	Medical Device

Accessories



Concentric Jacobs chuck up to \varnothing 7,0 mm for round and triangular shanks with chuck key · **REF. 14830**



Drill Bits Cannulated hole \varnothing 2.1 mm Length 150 mm (recommended)
 \varnothing 3,5 mm · **REF. 1.11861**
 \varnothing 4,0 mm · **REF. 1.11862**
 \varnothing 3,5 mm · **REF. 1.11863**



Drill Bits Length 150 mm (recommended)
 \varnothing 2,7 mm · **REF. 1.11864**
 \varnothing 3,5 mm · **REF. 1.11865**
 \varnothing 4,0 mm · **REF. 1.11866**
 \varnothing 4,8 mm · **REF. 1.11867**



Twist Drills Length 305 mm
 \varnothing 3,5 mm · **REF. 1.11869**
 \varnothing 4,0 mm · **REF. 1.11870**
 \varnothing 4,8 mm · **REF. 1.11871**



Tapered Reamer, cannulated \varnothing 15.5 mm for Femoral MFN. / DNS. - U/R Nails · **REF. 1.11901**
 Tapered Reamer, cannulated \varnothing 13.5 mm for Femoral MFN. / DNS. - U/R Nails · **REF. 1.11906**



Cannulated Reamer \varnothing 9.0 mm · **REF. 1.11908**



Accessories



Quick-action chuck for drill wires from \varnothing 0,8 mm up to \varnothing 3,0 mm · REF. 14842

Kirschner Wires

Point	Trocar	Trocar
Shaft End	round	Trocar
Length	310 mm	310mm
\varnothing 1.0 mm	REF. 7120	REF. 7140
\varnothing 1.2 mm	REF. 7121	REF. 7141
\varnothing 1.4 mm	REF. 7122	REF. 7142
\varnothing 1.5 mm	REF. 7123	REF. 7143
\varnothing 1.6 mm	REF. 7124	REF. 7144
\varnothing 1.8 mm	REF. 7126	REF. 7145
\varnothing 2.0 mm	REF. 7127	REF. 7146
\varnothing 2.2 mm	REF. 7128	REF. 7147
\varnothing 2.5 mm	REF. 7129	REF. 7148
\varnothing 3.0 mm	REF. 7130	-

Point	Trocar	Trocar	Trocar
Shaft End	round	round	Trocar
Length	70 mm	150 mm	310mm
\varnothing 0.8 mm	REF. 7200	REF. 7250	REF. 7280
\varnothing 1.0 mm	REF. 7201	REF. 7252	REF. 7282
\varnothing 1.2 mm	-	REF. 7254	REF. 7284
\varnothing 1.4 mm	-	REF. 7256	REF. 7286
\varnothing 1.5 mm	REF. 7208	REF. 7258	REF. 7288
\varnothing 1.6 mm	-	REF. 7260	REF. 7290
\varnothing 1.8 mm	-	REF. 7262	REF. 7292
\varnothing 2.0 mm	-	REF. 7264	REF. 7294
\varnothing 2.2 mm	-	REF. 7266	REF. 7296
\varnothing 2.5 mm	REF. 7210	REF. 7268	REF. 7298
\varnothing 3.0 mm	-	REF. 7270	-

Kirschner Wires with thread and trocar points, round end

	Diameter	Length	Threades Lenght
REF. 7310	1.6 mm	150 mm	5 mm
REF. 7312	1.6 mm	150 mm	15 mm
REF. 7314	2.0 mm	150 mm	15 mm
REF. 7316	2.0 mm	200 mm	15 mm
REF. 7318	2.5 mm	200 mm	15 mm
REF. 7320	2.5 mm	230 mm	20 mm

Accessories



Adaptor for AO and Aesculap attachments · REF. 14862



Drill Bits

ø mm	AO shaft	Length mm	round shaft	Length mm
ø 1.1 mm	REF. 9010	60/35	REF. 9040	45/30
ø 1.5 mm	REF. 9012	85/60	REF. 9042	70/55
ø 2.0 mm	REF. 9014	100/75	REF. 9044	85/70
ø 2.5 mm	REF. 9016	110/85	REF. 9046	95/80
ø 2.7 mm	REF. 9018	100/75	REF. 9048	85/70
ø 3.2 mm	REF. 9020	145/120	REF. 9050	130/115
ø 3.2 mm	REF. 9021	195/170	REF. 9051	180/165
ø 3.5 mm	REF. 9022	100/85	REF. 9052	95/80
ø 3.5 mm	REF. 9023	195/170	REF. 9053	180/165
ø 4.5 mm	REF. 9026	145/120	REF. 9056	130/115
ø 4.5 mm	REF. 9027	195/170	REF. 9057	180/165



Taps

for screws ø mm	AO shaft	T-bar
ø 1.5 mm dental	REF. 9071	-
ø 2.0 mm dental	REF. 9072	-
ø 2.7 mm	REF. 9073	REF. 9060
ø 3.5 mm thread pitch 1.25	REF. 9074	REF. 9062
ø 3.5 mm thread pitch 1.75	REF. 9075	REF. 9064
ø 4.0 mm thread pitch 1.75	REF. 9076	REF. 9065
ø 4.5 mm short thread	REF. 9077	-
ø 4.5 mm long thread	REF. 9078	REF. 9068
ø 6.5 mm	REF. 9079	REF. 9070

Accessories



Adaptor for DIN attachments · REF. 14864



Flexible Medullary Reamer (Aesculap Drive Connection DIN 58809)

ø mm	REF.
ø 6.0 mm	REF. 11002
ø 6.5 mm	REF. 11004
ø 7.0 mm	REF. 11006
ø 7.5 mm	REF. 11008
ø 8.0 mm	REF. 11010
ø 8.5 mm	REF. 11012
ø 9.0 mm	REF. 11014
ø 9.5 mm	REF. 11016
ø 10.0 mm	REF. 11018

ø mm	REF.
ø 10.5 mm	REF. 11020
ø 11.0 mm	REF. 11022
ø 11.5 mm	REF. 11024
ø 12.0 mm	REF. 11026
ø 12.5 mm	REF. 11028
ø 13.0 mm	REF. 11030
ø 13.5 mm	REF. 11032
ø 14.0 mm	REF. 11034
ø 14.5 mm	REF. 11036

ø mm	REF.
ø 15.0 mm	REF. 11038
ø 15.5 mm	REF. 11040
ø 16.0 mm	REF. 11042
ø 16.5 mm	REF. 11044
ø 17.0 mm	REF. 11046
ø 17.5 mm	REF. 11048
ø 18.0 mm	REF. 11050

Accessories



Chuck for acetabular and intramedullary reaming (100 r/min.) · REF. 14834



Reamer with quick locking device

ø mm	REF.
ø 40 mm	REF. 183440
ø 42 mm	REF. 183442
ø 44 mm	REF. 183444
ø 46 mm	REF. 183446
ø 48 mm	REF. 183448
ø 50 mm	REF. 183450
ø 52 mm	REF. 183452
ø 54 mm	REF. 183454
ø 56 mm	REF. 183456
ø 58 mm	REF. 183458
ø 60 mm	REF. 183460
ø 62 mm	REF. 183462
ø 64 mm	REF. 183464

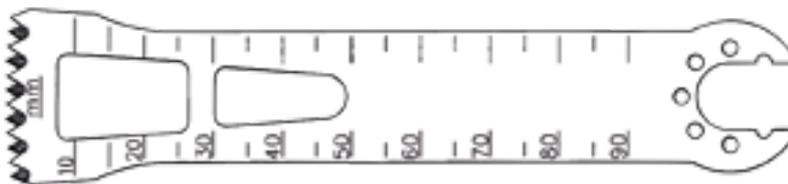


Acetabulum reamer:
The reamer heads are coupled with shafts without a key.
Only one shaft is necessary for the system. · REF. 183470

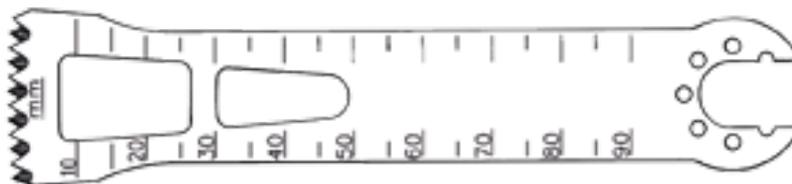
Accessories



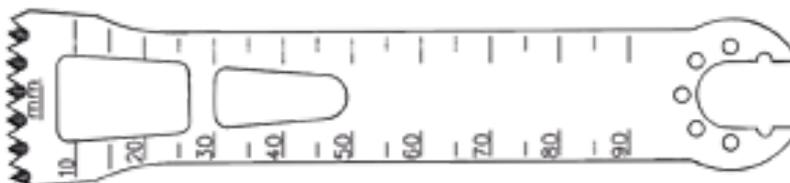
Oscillating saw standard connection for saw A0 · REF. 14836



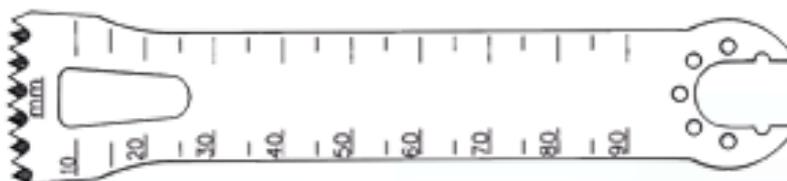
SYNTHES / AO SODEM
Depth: 90.0 mm, Width:19.05 mm, Material Thickness: 1.27 mm Cutting Thickness: 1.37 mm
REF. 142010



SYNTHES / AO SODEM
Depth: 90.0 mm, Width: 25.4 mm, Material Thickness: 1.47 mm Cutting Thickness: 1.47 mm
REF. 142012



SYNTHES / AO SODEM
Depth: 90.0 mm, Width: 25.4 mm, Material Thickness: 1.19 mm Cutting Thickness: 1.19 mm
REF. 142014

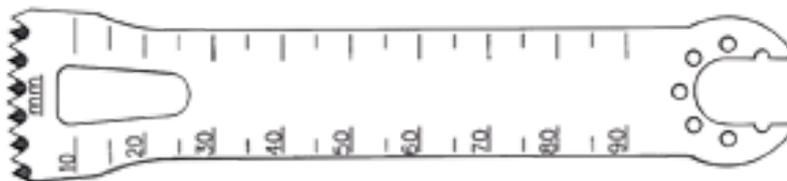


SYNTHES / AO SODEM
Depth: 90.0 mm, Width: 25.4 mm, Material Thickness: 0.89 mm Cutting Thickness: 1.00 mm
REF. 142016

■ Oscillating Saw Blades / crossed „Synthes / AO“
Sagittal Saw Blades for Hip-Protetic

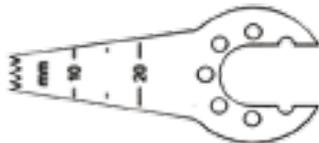


Oscillating saw standard connection for saw AO · REF. 14836



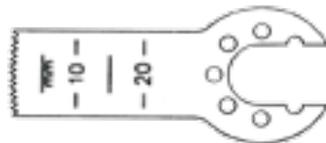
SYNTHES / AO SODEM

Depth: 90.0 mm, Width: 25.4 mm, Material Thickness: 1.00 mm Cutting Thickness: 1.00 mm
REF. 142018



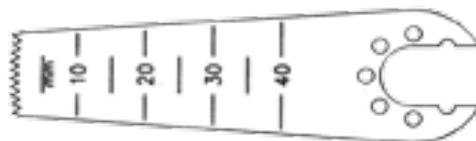
SYNTHES / AO SODEM

Depth: 27.0 mm, Width: 6.0 mm, Material Thickness: 0.4 mm Cutting Thickness: 0.6 mm
REF. 142030



SYNTHES / AO SODEM

Depth: 23.0 mm, Width: 14.0 mm, Material Thickness: 0.4 mm Cutting Thickness: 0.58 mm
REF. 142034



SYNTHES / AO SODEM

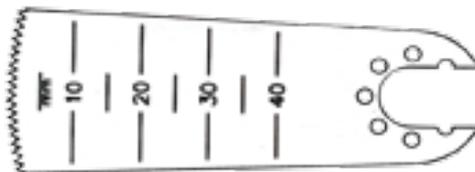
Depth: 48.0 mm, Width: 14.0 mm, Material Thickness: 0.4 mm Cutting Thickness: 0.66 mm
REF. 142038



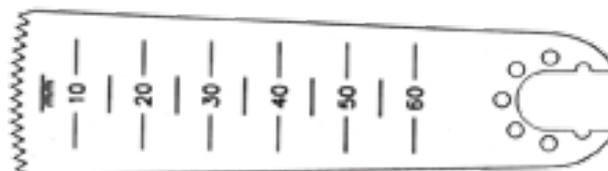
Accessories



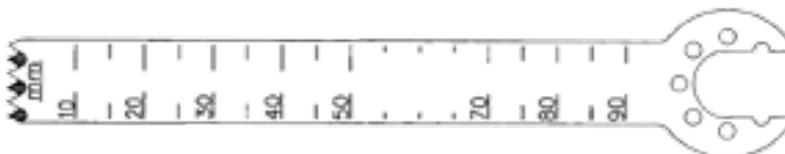
Oscillating saw standard connection for saw AO · REF. 14836



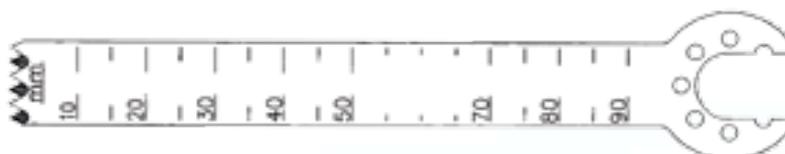
SYNTHES / AO SODEM
Depth: 48.0 mm, Width: 27.0 mm, Material Thickness: 0.4 mm Cutting Thickness: 0.66 mm
REF. 142042



SYNTHES / AO SODEM
Depth: 68.0 mm, Width: 27.0 mm, Material Thickness: 0.6 mm Cutting Thickness: 0.81 mm
REF. 142044



SYNTHES / AO SODEM
Depth: 90.0 mm, Width: 13.0 mm, Material Thickness: 1.27 mm Cutting Thickness: 1.37 mm
REF. 142020



SYNTHES / AO SODEM
Depth: 90.0 mm, Width: 13.0 mm, Material Thickness: 0.89 mm Cutting Thickness: 1.00 mm
REF. 142022

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