

Power System



HSM-2 *Neuro & Spine Surgery*

90.000 rpm



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TÜRKİYE

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2018

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SURGICAL INSTRUMENTS CO., INC.

STERILE CONTAINER SYSTEMS



SURGICAL MOTOR SYSTEMS



MEDICAL ILLUMINATION SYSTEMS



DISPOSABLE STERILE PRODUCTS



meeting point for
surgery...

AYGÜN®

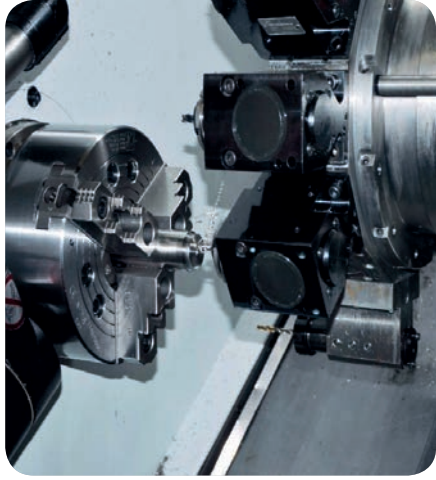
SURGICAL INSTRUMENTS CO., INC.

AYGÜN, one of the leading establishments of Turkey in the field of Medical Industry, was founded in 1988.

It manufactures Container Systems for sterilization, Surgical Motor Systems, Medical Illumination Systems and Single Use Medical Systems in its facility at Samsun Central Organized Industrial Zone. AYGÜN meets the needs of significant part of Turkey as a result of its continuous R&D works and the capacity increasing. It manufactures its products in international standards and put them to the world market with a high competitive power. Moreover with its integrated quality management system, it proves that it is a specialized establishment.

Besides being a manufacturer, AYGÜN is also a designer company and with its continuous product development works it increases number of its patents, on the other hand, is contributing career development of rising generation by acting as a school.

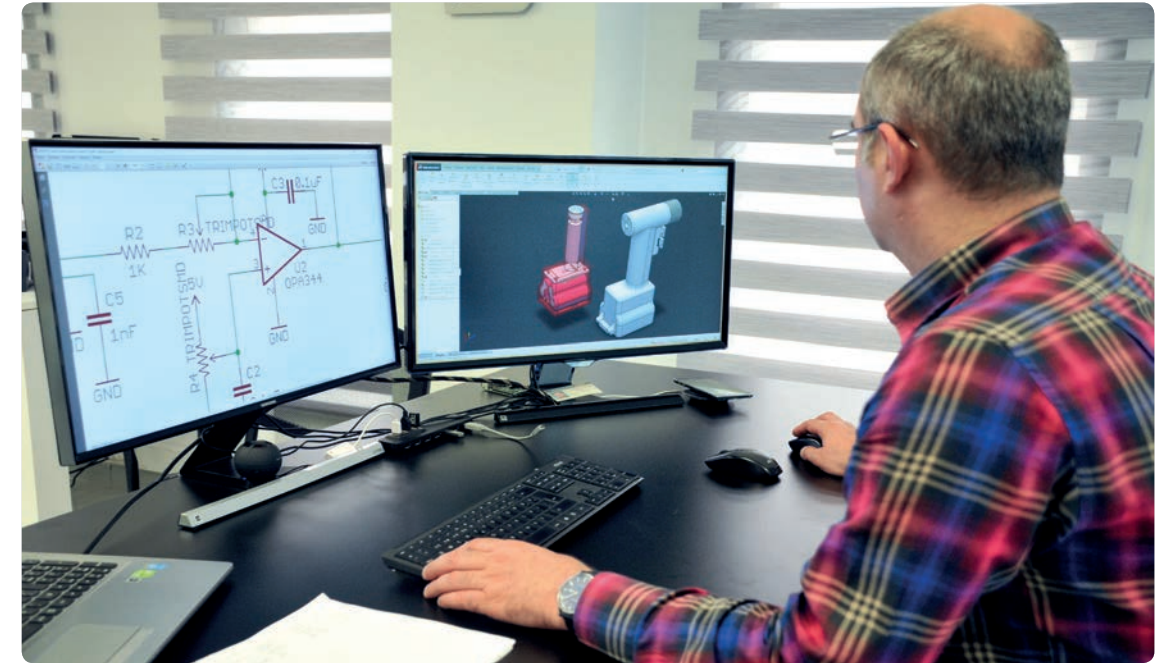




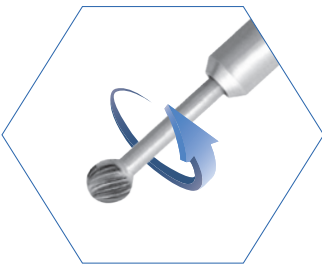
AYGUN®
SURGICAL INSTRUMENTS CO., INC.

**SURGICAL
MOTOR
SYSTEMS**

Research, Development, Quality...
Combination of precious high technology production machines and perfect craftsmanship,



www.aygun.com



90.000 rpm



- ▶ ATTACHMENT
- ▶ CRANIOTOME
- ▶ PERFORATOR



AYGÜN HSM-2 system, which combines the innovative technology and aesthetics, highlights the user comfort. High speed, high torque and motor recognition which are the most requested features by surgeons, in combination with ergonomic and light hand tools prevent fatigue even after long hours of surgery. System parts can easily be removed and attached, which is an advantage when the surgeon needs to act fast. AYGÜN HSM-2 system, is the one that lets you carry out a large number of procedures with a small number of handpieces.

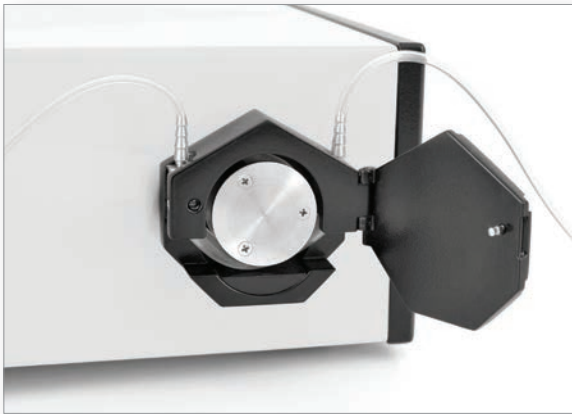
Motor recognition feature adjusts maximum speed and torque parameters automatically when the handpiece is connected.

IRRIGATION PUMP

- Easily attachable irrigation hose
- 15-100 ml irrigation rate per minute



M6-121
Tubing Set



TOUCHSCREEN CONSOLE & FOOT PEDAL



M14-405
Touchscreen Console

Main Screen

- Motor Recognition Feature
- Adjustable speed
- Forward / reverse mode
- Menu buttons

Torque Menu Max. 4,0 Nm

- Manual torque setting
- Cranial mode
- Spinal mode
- Metal cutter mode
- Light mode

Irrigation Menu

- On-off function
- Manual control between 15-100 ml
- Manual flow mode
- Continuous flush flow mode

Foot Pedal

- Progressive mode
- Fixed speed mode

Backlight Menu

- Adjustable low and high screen brightness



M6-058
Foot Pedal

- Motor Forward / Reverse button
- Irrigation On / Off button
- Foot pedal progressive / Fixed speed button
- 1 or 2 sec. delayed start function
- Delayed start function On / Off



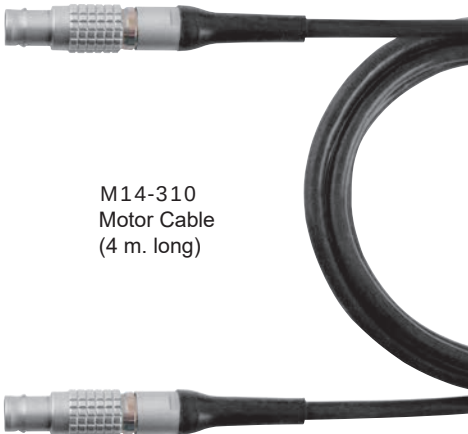
M14-311
Pedal Cable
(4 m. long)

HIGH TORQUE MOTOR & MOTOR CABLE

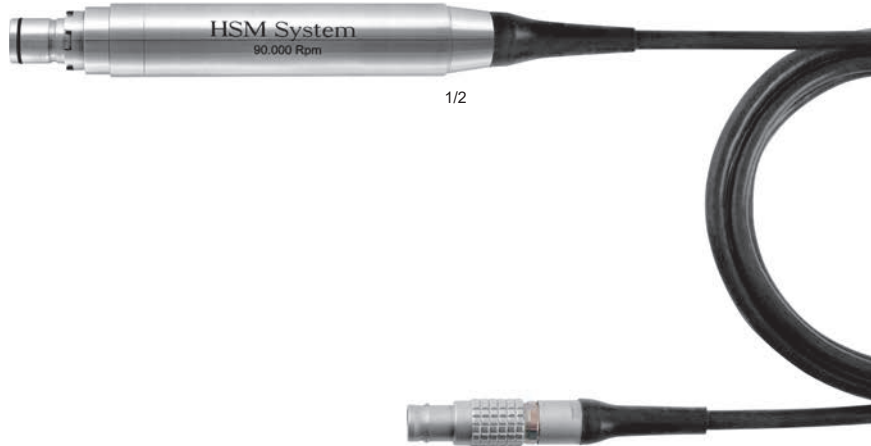
M14-302
HSM-2 Motor Handpiece
90.000 rpm / 4 N.cm
117 x 20 mm / 170 g



M14-303
HSM-2 Motor Handpiece,
Titanium
90.000 rpm / 4 N.cm
117 x 20 mm / 130 g



M14-310
Motor Cable
(4 m. long)



M14-304
HSM-2 Motor Handpiece,
with integrated cable
90.000 rpm / 4 N.cm
Cable length: 4 m

M14-320
Motor Stand, autoclavable





PERFORATOR

Hudson connection ➔



M14-352
HSM-2 Perforator Motor
1.100 rpm / 4 Nm
185 x 39 mm / 550 g



M7-120
Trepan (Ø 6/9 mm)



M7-121
Trepan (Ø 9/12 mm)



M7-122
Trepan (Ø 12/15 mm)



M14-310
Motor Cable
(4 m. long)

- Skull trepans
- With step-down drilling
- Automatic cut-out
- No key needed



CRANIOTOME



M14-330
Craniotome,
Modular dura guide for pediatric, adult and laminectomy applications.
Keyless connection of handpiece, craniotome-bur, dura guide and motors.
Clear identification of burs and dura guide by ring system (1-3 rings)
90 x 20 mm / 85 g

ROTATIONAL GUIDE



M14-346
Pediatric guide,
Rotational



M14-347
Adult guide,
Rotational

FIXED GUIDE



M14-340
Pediatric guide



M14-341
Adult guide



M14-342
Laminectomy guide



M14-331
Drill limit attachment



M14-343 Pediatric craniotome blade



M14-344 Adult craniotome blade



M14-345 Laminectomy craniotome blade



STRAIGHT ATTACHMENTS

ANGLED ATTACHMENTS

A

Burs Length: 60 mm



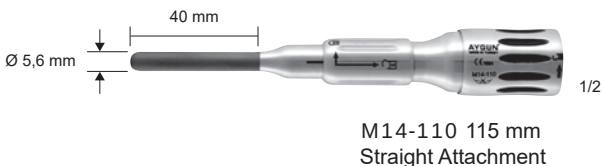
A

Burs Length: 60 mm



B

Burs Length: 80 mm



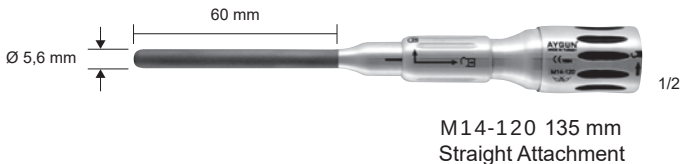
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Burs Length: 80 mm



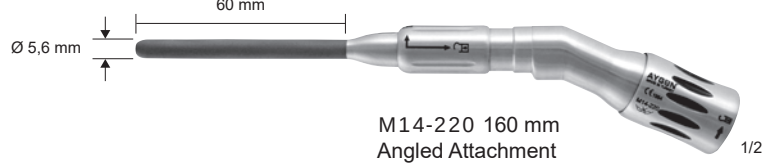
C

Burs Length: 100 mm



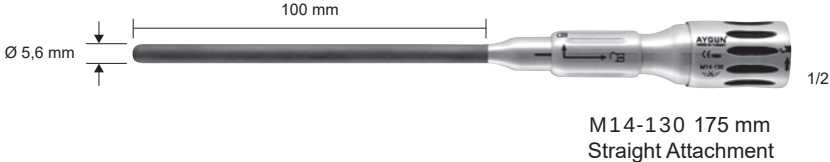
C

Burs Length: 100 mm



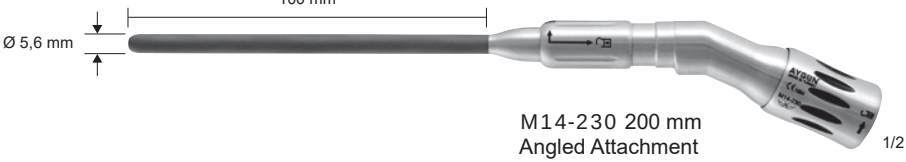
D

Burs Length: 140 mm



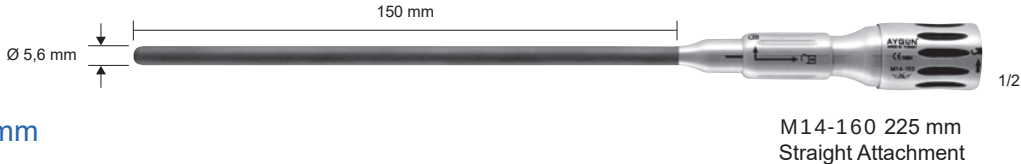
D

Burs Length: 140 mm



E

Burs Length: 195 mm



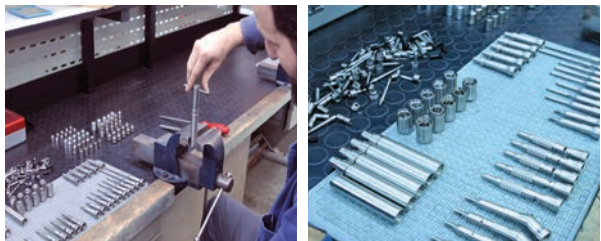
E

Burs Length: 195 mm



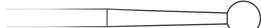
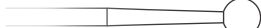
F

Burs Length: 255 mm



A ATTACHMENTS & BURS

Burs Length: 60 mm

	Ø mm	ROSEN	HIGH SPEED Tungsten	DIAMOND
	1,0	M14-410	M14-420	M14-430
	1,4	M14-411	M14-421	M14-431
	2,3	M14-412	M14-422	M14-432
	3,1	M14-413	M14-423	M14-433
	3,5	M14-900	M14-902	M14-904
	4,0	M14-901	M14-903	M14-905
	4,5	M14-414	M14-424	M14-434
	5,0	M14-415	M14-425	M14-435
	6,0	M14-416	M14-426	M14-436
	7,0	M14-417	M14-427	M14-437

CONE

	Ø mm	5,0	7,0
		M14-440	M14-442

NEURO

	Ø mm	1,8	2,2	3,0
		M14-443	M14-444	M14-445

ACORN

	Ø mm	7,9	9,5
		M14-447	M14-448



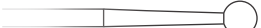
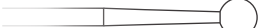
M14-200
Angled Attachment

M14-100
Straight Attachment

M14-740
Irrigation nozzle
for M14-100 and M14-200

B ATTACHMENTS & BURS

Burs Length: 80 mm

	Ø mm	ROSEN	HIGH SPEED Tungsten	DIAMOND
	1,0	M14-450	M14-460	M14-470
	1,4	M14-451	M14-461	M14-471
	2,3	M14-452	M14-462	M14-472
	3,1	M14-453	M14-463	M14-473
	3,5	M14-906	M14-908	M14-910
	4,0	M14-907	M14-909	M14-911
	4,5	M14-454	M14-464	M14-474
	5,0	M14-455	M14-465	M14-475
	6,0	M14-456	M14-466	M14-476
	7,0	M14-457	M14-467	M14-477



M14-760
Bur guard

CONE

	Ø mm	5,0	7,0
		M14-480	M14-482

NEURO

	Ø mm	1,8	2,2	3,0
		M14-483	M14-484	M14-485

ACORN

	Ø mm	7,9	9,5
		M14-487	M14-488



M14-210
Angled Attachment

M14-110
Straight Attachment

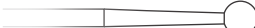
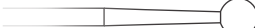
M14-743
Irrigation nozzle
for M14-110 and M14-210

C ATTACHMENTS & BURS

Burs Length: 100 mm



M14-760
Bur guard

	Ø mm	ROSEN	HIGH SPEED Tungsten	DIAMOND
	1,0	M14-490	M14-500	M14-510
	1,4	M14-491	M14-501	M14-511
	2,3	M14-492	M14-502	M14-512
	3,1	M14-493	M14-503	M14-513
	3,5	M14-912	M14-914	M14-916
	4,0	M14-913	M14-915	M14-917
	4,5	M14-494	M14-504	M14-514
	5,0	M14-495	M14-506	M14-515
	6,0	M14-496	M14-507	M14-516
	7,0	M14-497	M14-508	M14-517



M14-220
Angled Attachment



M14-120
Straight Attachment



M14-746
Irrigation nozzle
for M14-120 and M14-220

CONE

	Ø mm	
	5,0	M14-520
	7,0	M14-522

NEURO

	Ø mm	
	1,8	M14-523
	2,2	M14-524
	3,0	M14-525

ACORN

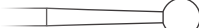
	Ø mm	
	7,9	M14-527
	9,5	M14-528

D ATTACHMENTS & BURS

Burs Length: 140 mm



M14-760
Bur guard

	Ø mm	ROSEN	HIGH SPEED Tungsten	DIAMOND
	1,0	M14-530	M14-540	M14-550
	1,4	M14-531	M14-541	M14-551
	2,3	M14-532	M14-542	M14-552
	3,1	M14-533	M14-543	M14-553
	3,5	M14-918	M14-920	M14-922
	4,0	M14-919	M14-921	M14-923
	4,5	M14-534	M14-544	M14-554
	5,0	M14-535	M14-545	M14-555
	6,0	M14-536	M14-546	M14-556
	7,0	M14-537	M14-547	M14-557



M14-230
Angled Attachment



M14-130
Straight Attachment



M14-749
Irrigation nozzle
for M14-130 and M14-230

CONE

	Ø mm	
	5,0	M14-560
	7,0	M14-562

NEURO

	Ø mm	
	1,8	M14-563
	2,2	M14-564
	3,0	M14-565

ACORN

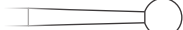
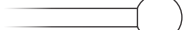
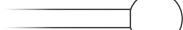
	Ø mm	
	7,9	M14-567
	9,5	M14-568

E ATTACHMENT & BURS

Burs Length: 195 mm



M14-760
Bur guard

	Ø mm	ROSEN	HIGH SPEED Tungsten	DIAMOND
	1,0	M14-570	M14-580	M14-590
	1,4	M14-571	M14-581	M14-591
	2,3	M14-572	M14-582	M14-592
	3,1	M14-573	M14-583	M14-593
	3,5	M14-924	M14-926	M14-928
	4,0	M14-925	M14-927	M14-929
	4,5	M14-574	M14-584	M14-594
	5,0	M14-575	M14-585	M14-595
	6,0	M14-576	M14-586	M14-596
	7,0	M14-577	M14-587	M14-597



M14-752
Irrigation nozzle
for M14-160 and M14-240



M14-240
Angled Attachment



M14-160
Straight Attachment

CONE

	Ø mm	
	5,0	
		M14-600
	7,0	
		M14-602

NEURO

	Ø mm	
	1,8	
		M14-603
	2,2	
		M14-604
	3,0	
		M14-605

ACORN

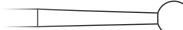
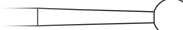
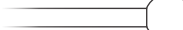
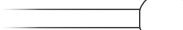
	Ø mm	
	7,9	
		M14-607
	9,5	
		M14-608

F ANGLED ATTACHMENT & BURS

Burs Length: 255 mm



M14-760
Bur guard

	Ø mm	ROSEN	HIGH SPEED Tungsten	DIAMOND
	1,0	M14-610	M14-620	M14-630
	1,4	M14-611	M14-621	M14-631
	2,3	M14-612	M14-622	M14-632
	3,1	M14-613	M14-623	M14-633
	3,5	M14-930	M14-932	M14-934
	4,0	M14-931	M14-933	M14-935
	4,5	M14-614	M14-624	M14-634
	5,0	M14-615	M14-625	M14-635
	6,0	M14-616	M14-626	M14-636
	7,0	M14-617	M14-627	M14-637



M14-755
Irrigation nozzle
for M14-250



M14-250
Angled Attachment

CONE

	Ø mm	
	5,0	
		M14-640
	7,0	
		M14-642

NEURO

	Ø mm	
	1,8	
		M14-643
	2,2	
		M14-644
	3,0	
		M14-645

ACORN

	Ø mm	
	7,9	
		M14-647
	9,5	
		M14-648

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CURVED ATTACHMENT & DISPOSABLE DRILLS



- M14-830
Curved Attachment
- Max 60.000 rpm
 - Length adjustment between 1 mm and 10 mm
 - In its own tube
 - Disposable with tube



ROSEN



Length ▶	60 mm	80 mm	100 mm	120 mm	140 mm	160 mm	180 mm	200 mm
Ø 3,0	M14-840	M14-841	M14-842	M14-843	M14-844	M14-845	M14-846	M14-847
Ø 4,0	M14-848	M14-849	M14-850	M14-851	M14-852	M14-853	M14-854	M14-855



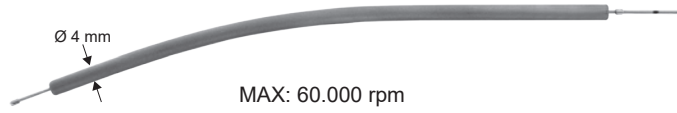
DIAMOND



Length ▶	60 mm	80 mm	100 mm	120 mm	140 mm	160 mm	180 mm	200 mm
Ø 3,0	M14-860	M14-861	M14-862	M14-863	M14-864	M14-865	M14-866	M14-867
Ø 4,0	M14-868	M14-869	M14-870	M14-871	M14-872	M14-873	M14-874	M14-875



NEURO



Length ▶	60 mm	80 mm	100 mm	120 mm	140 mm	160 mm	180 mm	200 mm
Ø 2,2	M14-880	M14-881	M14-882	M14-883	M14-884	M14-885	M14-886	M14-887
Ø 3,0	M14-888	M14-889	M14-890	M14-891	M14-892	M14-893	M14-894	M14-895



M14-761
Bur guard
for curved
attachment



METAL CUTTER & BURS

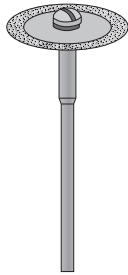
NEURO



M14-772



M14-773



M14-774



M14-770 115 mm
Metal Cutter

NEURO



Ø mm 1,5



2



2,5

M14-775

M14-776

M14-777



HSM-2 LARGE SET



M14-825 HSM-2 Large Set

Set Content

M14-405	Power console
M6-058	Foot pedal
M14-311	Pedal cable
M14-302	HSM-2 motor handpiece
M14-310	Motor cable
M14-100	Attachment, 95 mm
M14-110	Attachment, 115 mm
M14-120	Attachment, 135 mm
M14-130	Attachment, 175 mm
M14-200	Attachment, angled 120 mm
M14-210	Attachment, angled 140 mm
M14-220	Attachment, angled 160 mm
M14-740	Irrigation nozzle
M14-743	Irrigation nozzle
M14-746	Irrigation nozzle
M14-749	Irrigation nozzle
M14-760	Bur guard
M14-412	Bur, rosen (2 pcs)
M14-452	Bur, rosen (2 pcs)
M14-492	Bur, rosen (2 pcs)
M14-532	Bur, rosen
M14-330	Craniotome
M14-346	Pediatric guide, rotational
M14-347	Adult guide, rotational
M14-342	Guide, laminectomy
M14-331	Drill limit attachment
M14-343	Pediatric craniotome blade
M14-344	Adult craniotome blade
M14-345	Laminectomy craniotome blade
M14-770	Metal cutter
M14-772	for metal cutter
M14-773	for metal cutter
M14-774	for metal cutter
M14-352	HSM-2 perforator motor
M7-120	Trepan (Ø 6/9 mm)
M7-121	Trepan (Ø 9/12 mm)
M7-122	Trepan (Ø 12/15 mm)
M14-816	Sprey oil
M14-817	Spray nozzle, for attachment
M14-819	Spray nozzle, for handpiece
M6-121	Tubing set
M14-821	PPSU stand lid
M14-822	PPSU attachment stand
M14-823	PPSU perforator holder
K6-022	Sterile container



M14-405
Power Console



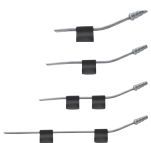
M6-058
Foot Pedal



M14-311
Pedal Cable



M14-760
Bur guard



M14-740
M14-743
M14-746
M14-749
Irrigation nozzle



M6-121
Tubing Set



M14-816
Spray oil



M14-817
M14-819
Spray nozzle

HSM-2 BASIC SET



M14-826 HSM-2 Basic Set

Set Content

M14-405	Power console
M6-058	Foot pedal
M14-311	Pedal cable
M14-302	HSM-2 motor handpiece
M14-310	Motor cable
M14-100	Attachment, 95 mm
M14-110	Attachment, 115 mm
M14-220	Attachment, angled 160 mm
M14-740	Irrigation nozzle
M14-743	Irrigation nozzle
M14-746	Irrigation nozzle
M14-760	Bur guard
M14-412	Bur, rosen
M14-452	Bur, rosen
M14-492	Bur, rosen
M14-330	Craniotome
M14-346	Pediatric guide, rotational
M14-347	Adult guide, rotational
M14-342	Guide, laminectomy
M14-331	Drill limit attachment
M14-343	Pediatric craniotome blade
M14-344	Adult craniotome blade
M14-345	Laminectomy craniotome blade
M14-352	HSM-2 perforator motor
M7-120	Trepan (Ø 6/9 mm)
M7-121	Trepan (Ø 9/12 mm)
M7-122	Trepan (Ø 12/15 mm)
M14-816	Sprey oil
M14-817	Spray nozzle, for attachment
M14-819	Spray nozzle, for handpiece
M6-121	Tubing set
M14-821	PPSU stand lid
M14-822	PPSU attachment stand
M14-823	PPSU perforator holder
K6-252T	Sterile container



M14-405
Power Console



M6-058
Foot Pedal



M14-311
Pedal Cable



M14-760
Bur guard



M14-740
M14-743
M14-746
Irrigation nozzle



M6-121
Tubing Set



M14-816
Spray oil



M14-817
M14-819
Spray nozzle

ACCESSORIES



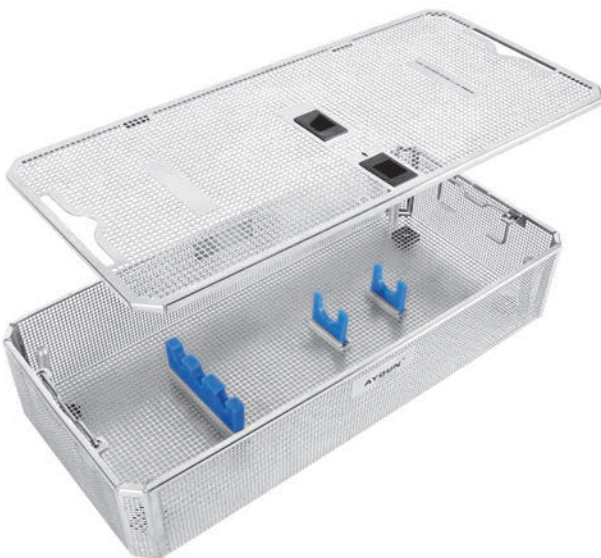
M14-812
PPSU attachment stand



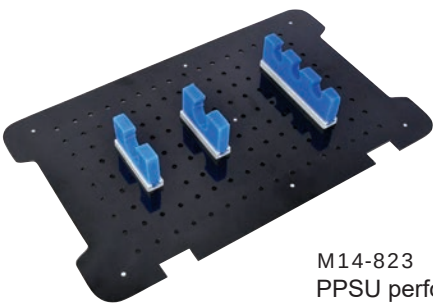
M14-821
PPSU stand lid



M14-822
PPSU attachment stand



M14-813
Basket with silicone fixations
540 x 253 x 113 mm



M14-823
PPSU perforator holder



K6-252T
Sterile Container
485 x 280 x 150 mm



K6-022
Sterile Container
600 x 280 x 150 mm



M14-817
Spray nozzle,
for attachments



M14-819
Spray nozzle,
for motor handpiece



M14-816
Spray oil

CONTAINER SET FOR STERILIZATION

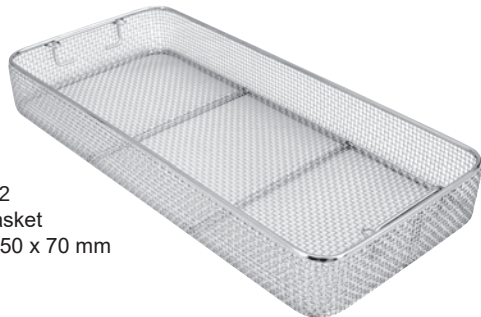


K8-123V
Lid, B3 Barrier Model
602 x 285 mm

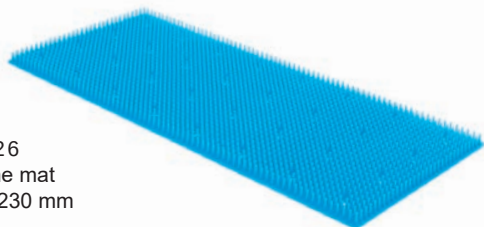
K6-107
Container, non perforated
600 x 272 x 138 mm



K3-742
Basket made from
stainless steel sheet (with stand)
540 x 253 x 80 mm



K2-462
Wire basket
540 x 250 x 70 mm



K2-526
Silicone mat
520 x 230 mm



K8-343V
Lid, B3 Barrier Model
477 x 285 mm

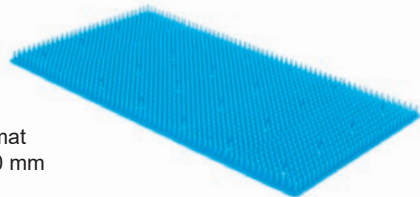
K6-307
Container, non perforated
475 x 272 x 138 mm



K3-750
Basket made from
stainless steel sheet (with stand)
405 x 253 x 80 mm



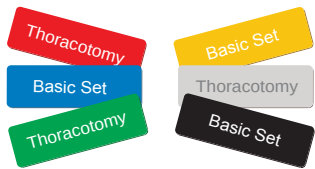
K2-1502
Wire basket
405 x 250 x 70 mm



K2-524
Silicone mat
380 x 230 mm



K2-674
Class 6 Emulating Indicator Card
1 Pack (250 pcs)

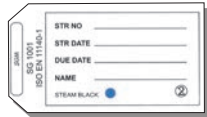


Identification labels (aluminium)
Coloured identification labels
Engraved to your specifications
Maximum 16 letters

code	color
K2-700	Red
K2-701	Blue
K2-702	Green
K2-703	Yellow
K2-704	Grey
K2-705	Black



K2-673
Labels (paper)
100 pcs. With indicator.
For small size and special
containers



K2-672
Labels (paper)
100 pcs. With indicator.
For full and half size containers



K1-900
Modular Auto Lock Mechanism (2 Pcs)



K2-660 red
Security seal
100 pcs made of plastic



K2-740
Single use paper
filter 100 pcs
with indicator.
Aygün mark.



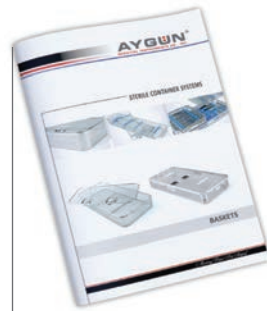
For more information and alternative please see
our Sterile Container System catalog.
From our website www.aygun.com



■ Standart Model



■ Accessories



■ Baskets



■ Bio-Barrier Model



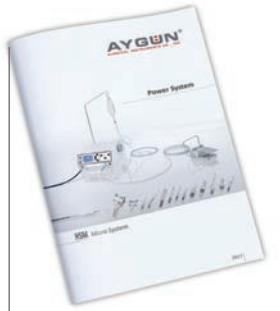
■ Compact 2



■ Dermotome



■ Electro Pneumatic Surgical Motor



■ HSM Micro System



■ Dental, Mini Model



■ High Performance Polymers PPSU Lids



■ PTFE - Valve - Biostop



■ HSM Neuro System



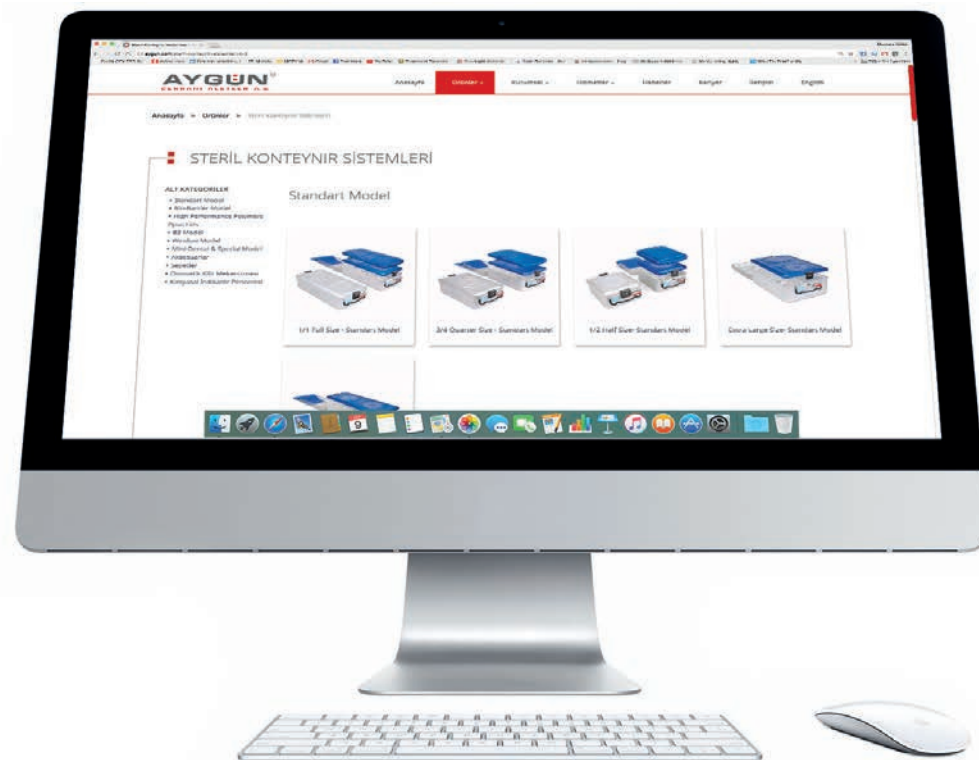
■ Macro Compact 2



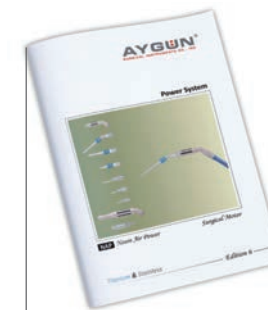
■ Mini Compact



■ Mini Surgical Motor



■ Mobil Stator



■ NAP Neuro Air Power



■ Praxis 2



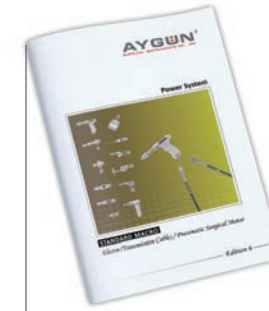
■ Praxis 3



■ Praxis 3B



■ Skin Graft Mesher



■ Standart Macro



■ Standard Micro

HSM 2 *Neuro & Spine Surgery*



Meeting Point For Surgery™

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