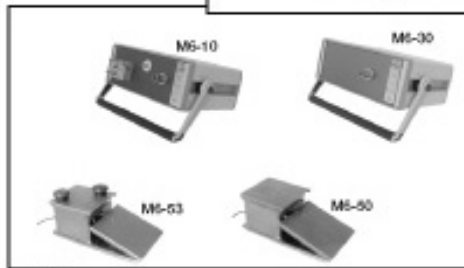
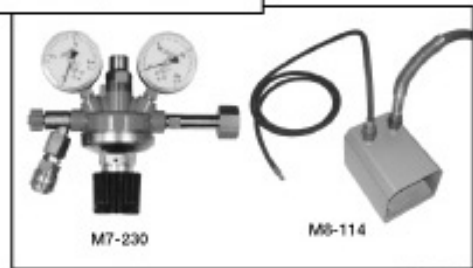


Electro-Surgical Motor Systems



Pneumatic-Surgical Motor Systems



Macro - Electro Surgery



M6-60 160 cm
M6-61 210 cm

Macro - Surgery



Macro - Air Surgery



Micro - Electro Surgery



M6-65 180 cm
M6-66 230 cm

Micro - Surgery



Micro - Air Surgery



**ELEKTRO-CERRAHİ MOTOR
SİSTEM ANA PARÇALARI**



**ELECTRO-SURGICAL MOTOR
SYSTEMS MAIN PARTS**

Voltage : 220 V
: 50 Hz
Watts : 500 w
Speed : 20.000 rpm
Size : 360 x 310 x 150 mm
Pump : 0-100 ml/min.



Volt : 220 V
: 50 Hz
Wat : 500 w
Hız : 20.000 rpm
Ölçü : 360 x 310 x 150 mm
Pompa : 0-100 ml/dk.

M6-10

Electro-surgical motor with forward and reverse gear and integrated cooling irrigation system to be used with flexible cables M4-137, M4-138, M6-60, M6-61, M6-65, M6-66 sound and light signal warning start at reverse running position.
Foot control M6-50, M6-53
(Foot control, flexible cable and hand piece have to be ordered separately)

*Elektro-Cerrahi Motor
İleri geri çalışma ve su soğutma entegre sistemli
M4-137, M4-138, M6-60, M6-61, M6-65, M6-66
flexibil kablolarla kullanılır.
Geri çalışma pozisyonunda ses ve ışıklı ikaz
Ayak pedalı M6-50, M6-53
(Ayak pedalı, flexible kablo ve başlıklar ayrı ayrı sipariş edilmeli)*

Voltage : 220 V
: 50 Hz
Watts : 500 w
Speed : 0-20.000 rpm
Size : 360 x 310 x 150 mm



Volt : 220 V
: 50 Hz
Wat : 500 w
Hız : 0-20.000 rpm
Ölçü : 360 x 310 x 150 mm

M6-30

Electro-surgical motor with forward and reverse gear to be used with flexible cables M4-137, M4-138, M6-60, M6-61, M6-65, M6-66 sound and light signal warning start at reverse running position.
Foot control M6-50, M6-53
(Foot control, flexible cable and hand piece have to be ordered separately)

*Elektro-Cerrahi Motor
İleri geri çalışmalı
M4-137, M4-138, M6-60, M6-61, M6-65, M6-66
flexibil kablolarla kullanılır.
Geri çalışma pozisyonunda ses ve ışıklı ikaz
Ayak pedalı M6-50, M6-53
(Ayak pedalı, flexible kablo ve başlıklar ayrı ayrı sipariş edilmeli)*



M6-50

Foot control pedal, For electronically controlled speed regulation. Connection to M6-10, M6-30 with 5 m. long cable. Size: 235 x 85 x 110 mm

Ayak Kumanda Pedali

Elektronik olarak hız kontrol ayarı için

5 metre uzunluğunda kablo ile birlikte

Bağlantı: M6-10, M6-30

Ölçü: 235 x 85 x 110 mm



M6-53

Foot control pedal, For electronically controlled speed regulation. Connection to M6-10, M6-30, including push button for forward and reverse gear. with 5 m. long cable. Size: 235 x 85 x 110 mm

Ayak Kumanda Pedali

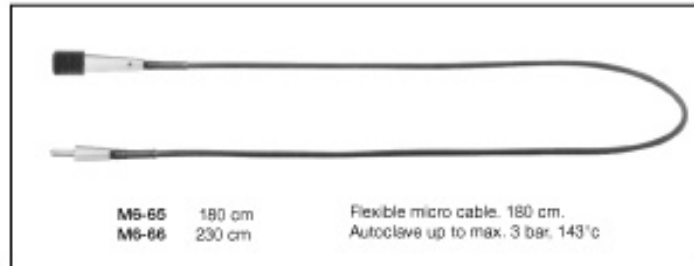
Elektronik hız kontrol ayarı için

Bağlantı: M6-10, M6-30, ileri-geri çalışma butonlu,

5 metre uzunluğunda kablo ile birlikte,

Ölçü: 235 x 85 x 110 mm

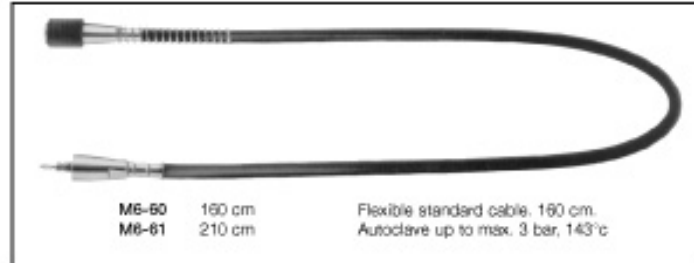
Micro-Electro Surgery



M6-65 180 cm
M6-66 230 cm

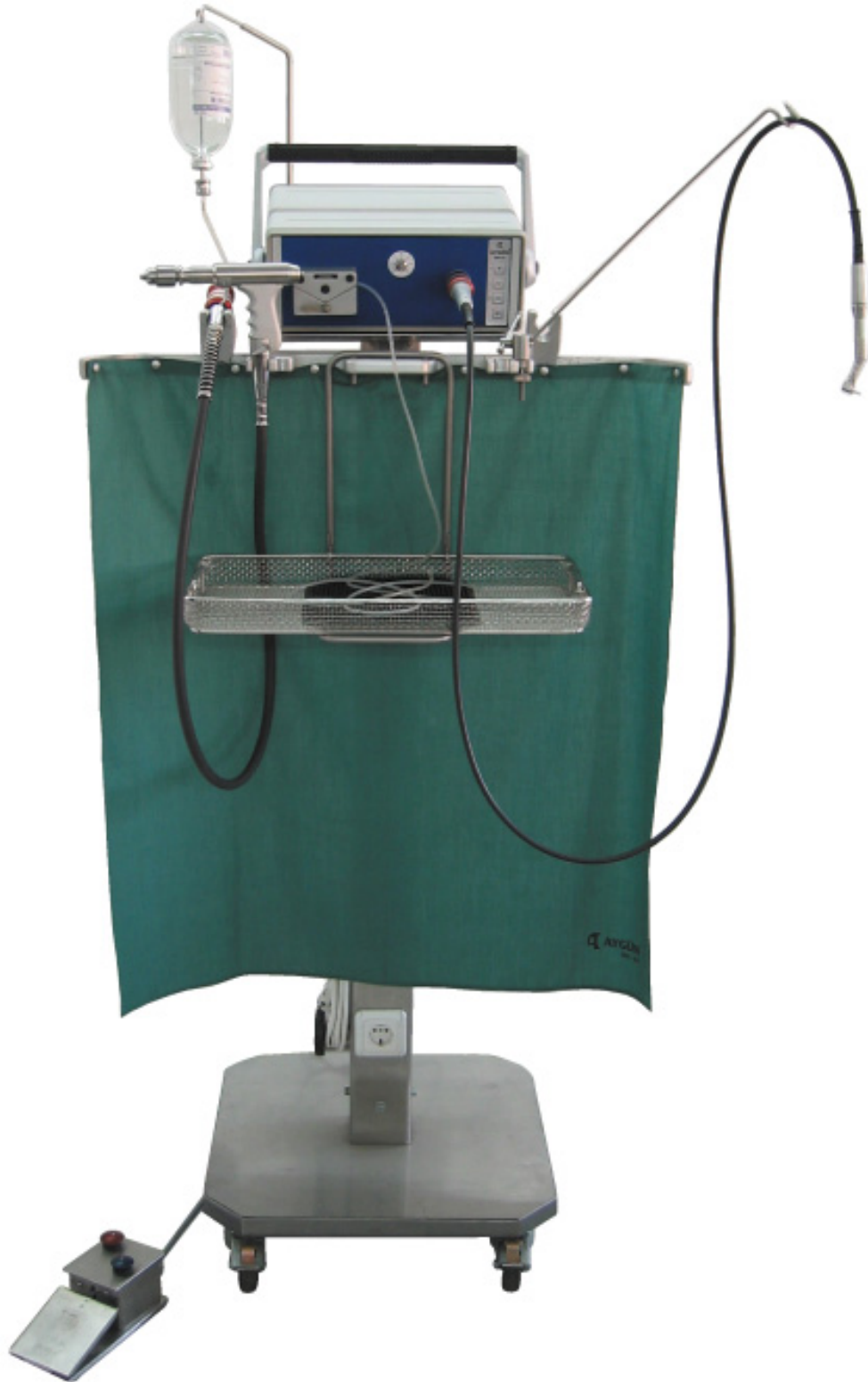
Flexible micro cable, 180 cm.
Autoclave up to max. 3 bar, 143°C

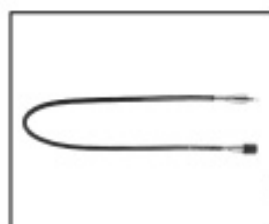
Macro-Electro Surgery



M6-60 160 cm
M6-61 210 cm

Flexible standard cable, 160 cm.
Autoclave up to max. 3 bar, 143°C





M6-60
Flexible standard cable
160 cm



M6-71
Holder (A)



M6-72
Holder (B)



M6-73
Holder for wire basket (C)



M6-80
Drape



M6-85
Mobil Stator



M6-52
Foot control,
cord



M6-51
Main
cord



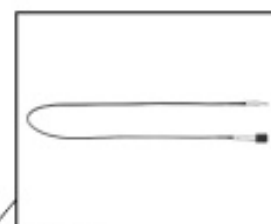
M6-50
Foot control



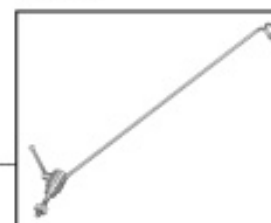
M6-30



M6-10



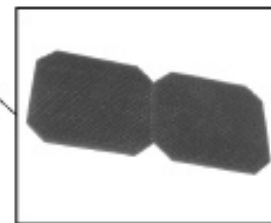
M6-65
Flexible micro cable
180 cm



M6-70
Holder for flexible cable (D)



K2-461
Wire basket



M6-90
Silicon mat (pair)



M8-520
Holding set,
for operating table
Tutucu set,
ameliyat masası için



M8-521
Stator for operating table
Stand, ameliyat masası için



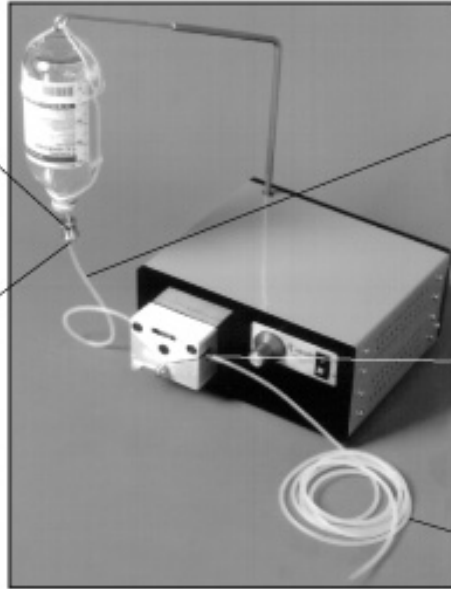
M6-99
Mobil stator
with K2-491 wire basket
for M6-10, M6-20, M6-30, M6-40
Seyyar stand
K2-491 tel sepet dahil
M6-10, M6-20, M6-30, M6-40 için



M6-105
Punch for 500 ml
Solution bottles



M6-106
Punch for 1000 ml
Solution bottles



M6-129
M.A. Cooling Irrigation System, with M6-120
M.A. İrigasyon Soğutma Sistemi, M6-120 dahil
220V. 50 Hz. 0100ml/min.
260 x 230 x 120 mm



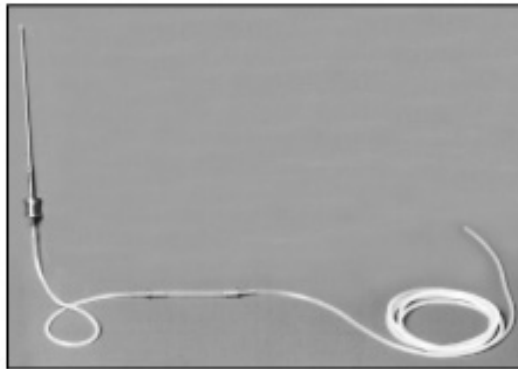
M6-107
Silicone tube, 1 pair
35 cm



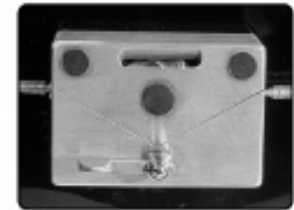
M6-109
Silicone tube,
10 cm



M6-112
Silicone tube,
240 cm



M6-120
Tubing Set
(M6-105, M6-107, M6-109, M6-112)



The lever is reversed to open and close the cooling pump.
Soğutma pompasını açıp kapatmak için kol tersine çevrilir.



M8-103

Pneumatic-Surgical motor (micro)
Speed= 35.000 rpm
Working Pressure= 6 Atm
Sterilization= 3 Atm, 143°C
Diameter= 22 mm
Length= 44 mm
Forward and reverse gear

Hava ile çalışan Mikro Cerrahi Motor
Hız= 35.000 rpm
Çalışma Basıncı= 6 Atm
Sterilizasyon= 3 Atm, 143°C
Çap= 22 mm
Uzunluk= 44 mm
İleri ve geri çalışır.



M8-102

Pneumatic-Surgical motor (micro)
Speed= 80.000 rpm
Working Pressure= 7 Atm
Sterilization= 3 Atm, 143°C
Diameter= 17 mm
Length= 116 mm

Hava ile çalışan Mikro Cerrahi Motor
Hız= 80.000 rpm
Çalışma Basıncı= 7 Atm
Sterilizasyon= 3 Atm, 143°C
Çap= 17 mm
Uzunluk= 116 mm



M7-150

Pneumatic-Surgical motor
Speed= 22.000 rpm
Working Pressure= 6 Atm
Sterilization= 3 Atm, 143°C

Hava ile çalışan Mikro Cerrahi Motor
Hız= 22.000 rpm
Çalışma Basıncı= 6 Atm
Sterilizasyon= 3 Atm, 143°C



M8-110 3 M

M8-111 5 M

Combined hoses for air supply
(for M7-230 and M8-102, M8-103)
Basınçlı hava için kombine hortumlar
(M7-230 ve M8-102, M8-103 için)

Sterilization= 3 Atm, 143°C



M7-220 3 M

M7-221 5 M

Combined hoses for air supply
(for M7-230 and M7-150)
Basınçlı hava için kombine hortumlar
(M7-230 ve M7-150 için)

Sterilization= 3 Atm, 143°C



M8-510

Spray oil, for motor and additional pcs before sterilization.

After cleaning of every use. Oil inside of all moving pcs of device by spraying method and run the device for 2-3 seconds. Practice spraying inside of the device until the black used oil comes out and new oil clearly appears out of device as clear color and then put the device in store or process sterilization.

Sprey yağı, sterilizasyon öncesi motor ve ilave parçalar için.

Her kullanım sonrası temizlik ardından, spreyleme yöntemiyle tüm hareketli parçaların iç kısmını 2-3 saniye süreyle yağlayın ve cihazı çalıştırın. Atık yağ temizlenip yeni spreylene yağ temiz renkte görülünceye kadar işlemi sürdürün bu işlemin bitiminde cihazı depolayınız veya sterilizasyona tabi tutunuz.



M7-230

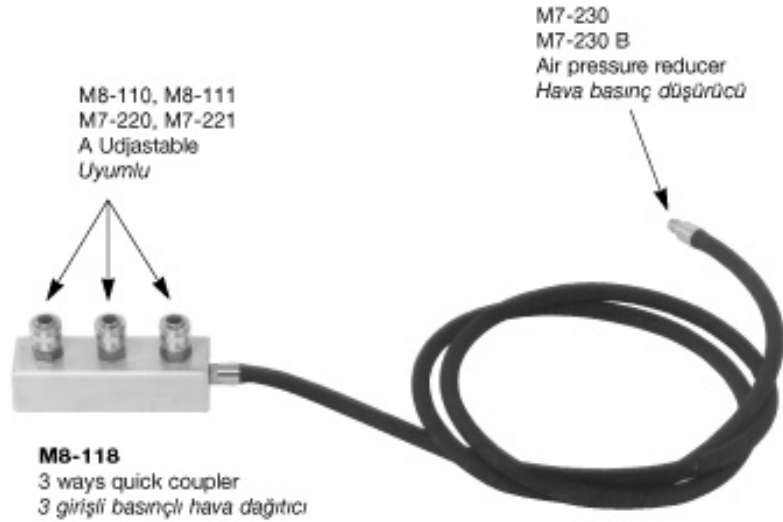
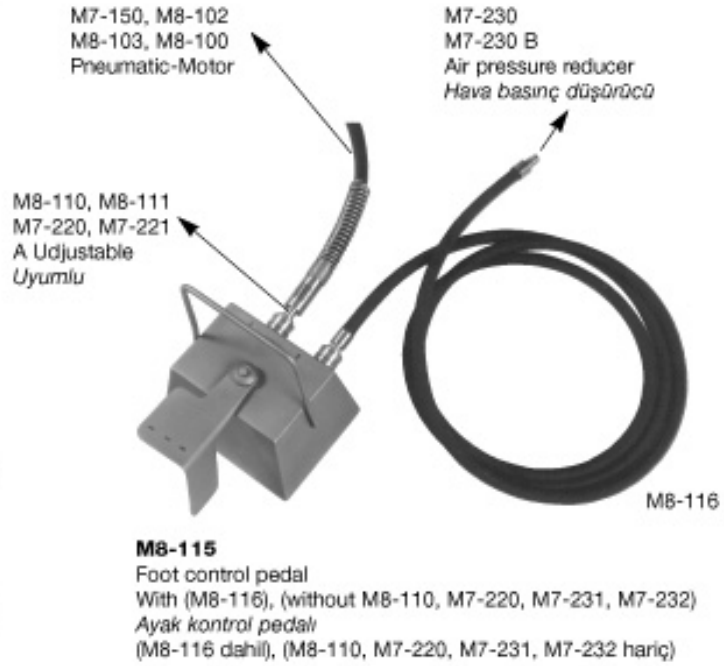
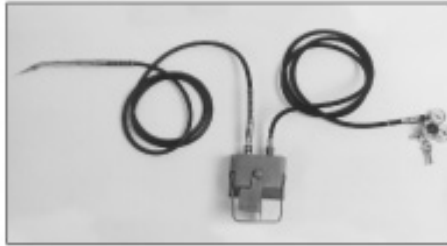
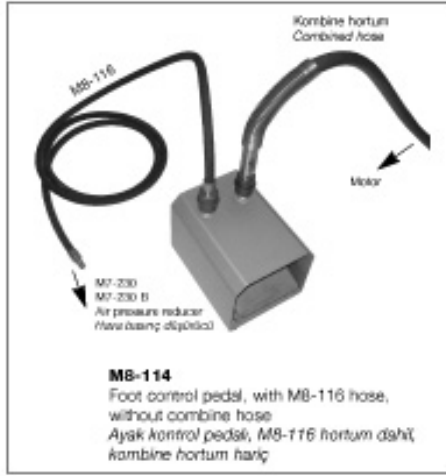
Air pressure reducer, one way
Hava basınç düşürücü, tek çıkışlı

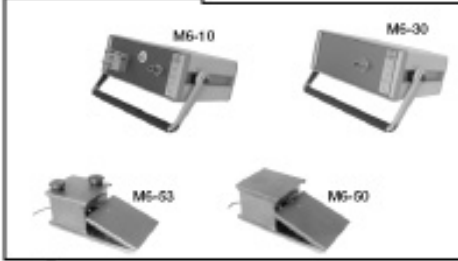
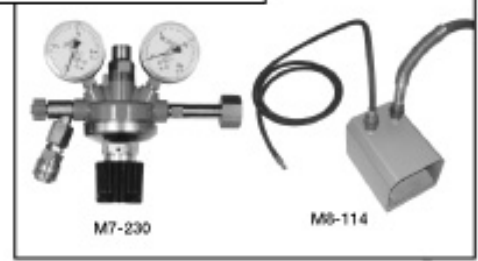


M7-230 B

Air pressure reducer, two way
Hava basınç düşürücü, iki çıkışlı

For security; the systems must be operated by using compressed dry air or nitrogen gas, the oxygen gas must never be used
Güvenlik için, sistemler basınçlı kuru hava veya azot gazı ile çalıştırılmalı, oksijen gazı kesinlikle kullanılmamalıdır.



**Electro-Surgical
Motor Systems**

**Pneumatic-Surgical
Motor Systems**

Macro-Electro Surgery

Macro-Air Surgery

M7-100

WAGNER Dermatomy
WAGNER Dermatome

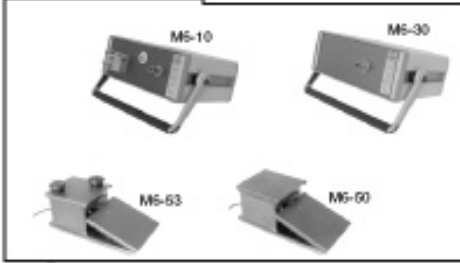
Cutting width: Adjustable up to 79 mm by 10 flaps with approx. 8 mm width.
Kesme genişliği: Yaklaşık 8 mm genişliğindeki 10 kanadıyla 79 mm'ye kadar ayarlanabilir.

Thickness of graft: Adjustable from 0.2 - 1.2 mm, scale divided in 1/10 mm
Graft kalınlığı: 1/10 mm taksimli skalada 0.2 - 1.2 mm'ye kadar ayarlanabilir.

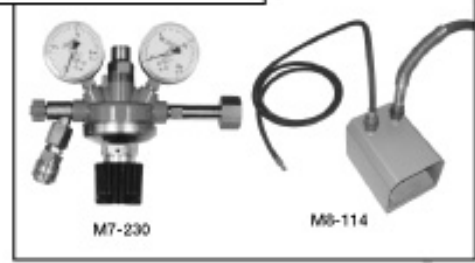

M7-105

Spare blades, one side cutting only, stainless steel.
Yedek Bıçaklar, sadece tek tarafı kesici, paslanmaz çelik

Electro-Surgical Motor Systems



Pneumatic-Surgical Motor Systems



Macro-Electro Surgery



Macro-Air Surgery



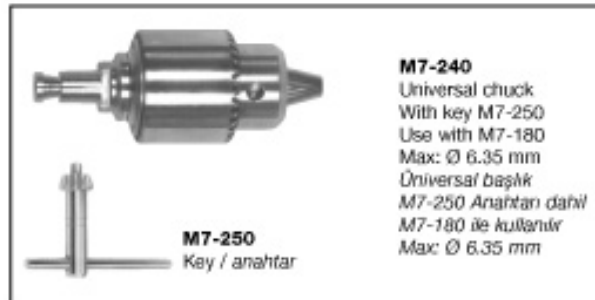
M7-180
Straight hand piece / düz sap
Speed reducing ratio= 20:1
Hız düşürme oranı= 20:1
for Hudson connection
Hudson bağlantı



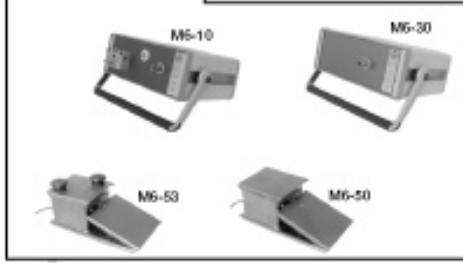
M7-170
Straight hand piece / düz sap
for drills max Ø 6.35 mm
with key M7-250
M7-250 anahtar ile
speed reducing ratio= 20:1
Hız düşürme oranı= 20:1



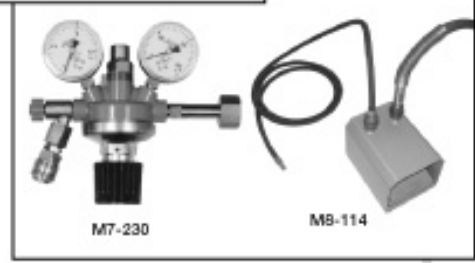
	M7-120 Ø 9 mm M7-121 Ø 12 mm M7-122 Ø 15 mm use with M7-180 or M7-600 M7-180 veya M7-600 ile kullanılır	* Skull trepans * With step-down drilling * Automatic cut-out * No key needed	<i>Kafa taşı trepanları Kademeli delici Otomatik stoplu Anahtarsız çalışır</i>
	M7-130 Ø 9 mm M7-131 Ø 12 mm M7-132 Ø 15 mm use with M7-170 or M7-600 M7-170 veya M7-600 ile kullanılır		
	M7-140 Ø 9 mm M7-141 Ø 12 mm M7-142 Ø 15 mm use with M7-180 or M7-600 M7-180 veya M7-600 ile kullanılır	* Skull trepans * With step-down drilling * Automatic cut-out * No key needed * The depth guard shows mm-graduation	<i>Kafa taşı trepanları Kademeli delici Otomatik stoplu Anahtarsız çalışır Milimetrik taksimatlı derinlik ayan</i>
	M7-145 Ø 9 mm M7-146 Ø 12 mm M7-147 Ø 15 mm use with M7-170 or M7-600 M7-170 veya M7-600 ile kullanılır		



Electro-Surgical Motor Systems



Pneumatic-Surgical Motor Systems



Macro-Electro Surgery



Macro-Air Surgery



M7-200
CASPAR Craniotome
for skull opening
Sterilization: 3 Atm, 143°C
No key is needed
with M7-207

*KASPAR Kraniotom
kafatası kemiği açmak için
Sterilizasyon: 3 Atm, 143°C
Anahtar gerekmez
M7-207 dahil*



M7-207
Dura guard, fixed

M7-208
Dura guard, turnable

M7-201
Spare Cutter
Yedek Kesici

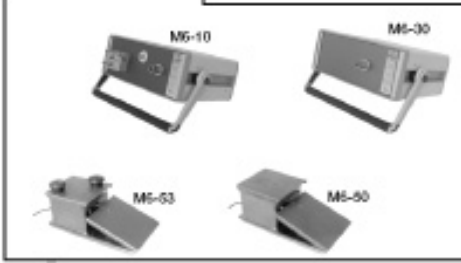


M7-202
Wire pass drill
Tel geçirme matkabı

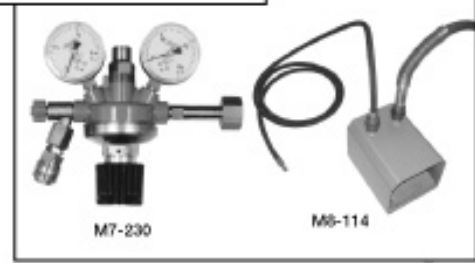


Ø 2 mm, L= 20 mm

Electro-Surgical
Motor Systems



Pneumatic-Surgical
Motor Systems



Macro-Electro Surgery



Macro-Air Surgery



M7-335

Sternum reciprocating saw,
with M7-330 / M7-331 / M7-320

Göğüs kemiği için vargel testere,
M7-330 / M7-331 / M7-320
Parçalar ile



M7-320

Key only,
for changing
saw blades

Sadece anahtar,
testere ağızlarını
değiştirmek için



M7-330

saw blade only
usable length 35 mm

Sadece testere ağızı,
kullanım uzunluğu 35 mm

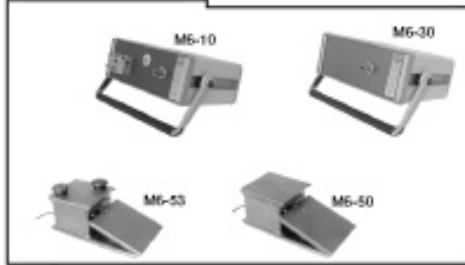


M7-331

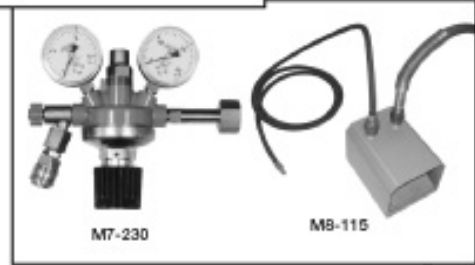
saw guide

testere klavuzu

**Electro-Surgical
Motor Systems**



**Pneumatic-Surgical
Motor Systems**



Macro-Electro Surgery



Macro-Air Surgery



M7-320
Key only,
for changing
saw blades

*Sadece anahtar,
testere ağızlarını
değiştirmek için*



M7-327
saw blade,
62 mm usable length
for M7-300 and M7-310

*testere ağızı,
kullanılabilir uzunluk 62 mm
M7-300 ve M7-310 için*



M7-300
Straight reciprocating saw
with key M7-320 and saw blade
M7-329 which can be mounted
in 4 different positions

*Düz vargel testere
M7-320 anahtarı ve M7-329
testere ağızı, buntar 4 farklı
pozisyonda takılır.*



M7-328
Saw blade,
60 mm usable length
for M7-300 and M7-310

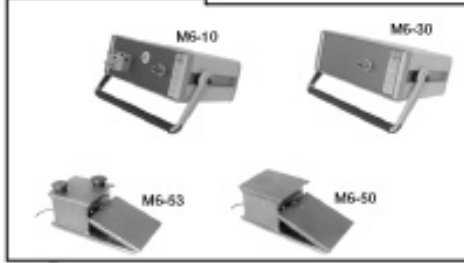
*Testere ağızı,
kullanılabilir uzunluk 60 mm
M7-300 ve M7-310 için*



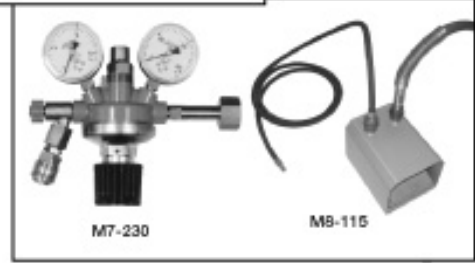
M7-329
Saw blade,
75 mm usable length
for M7-300 and M7-310

*Testere ağızı,
kullanılabilir uzunluk 75 mm
M7-300 ve M7-310 için*

**Electro-Surgical
Motor Systems**



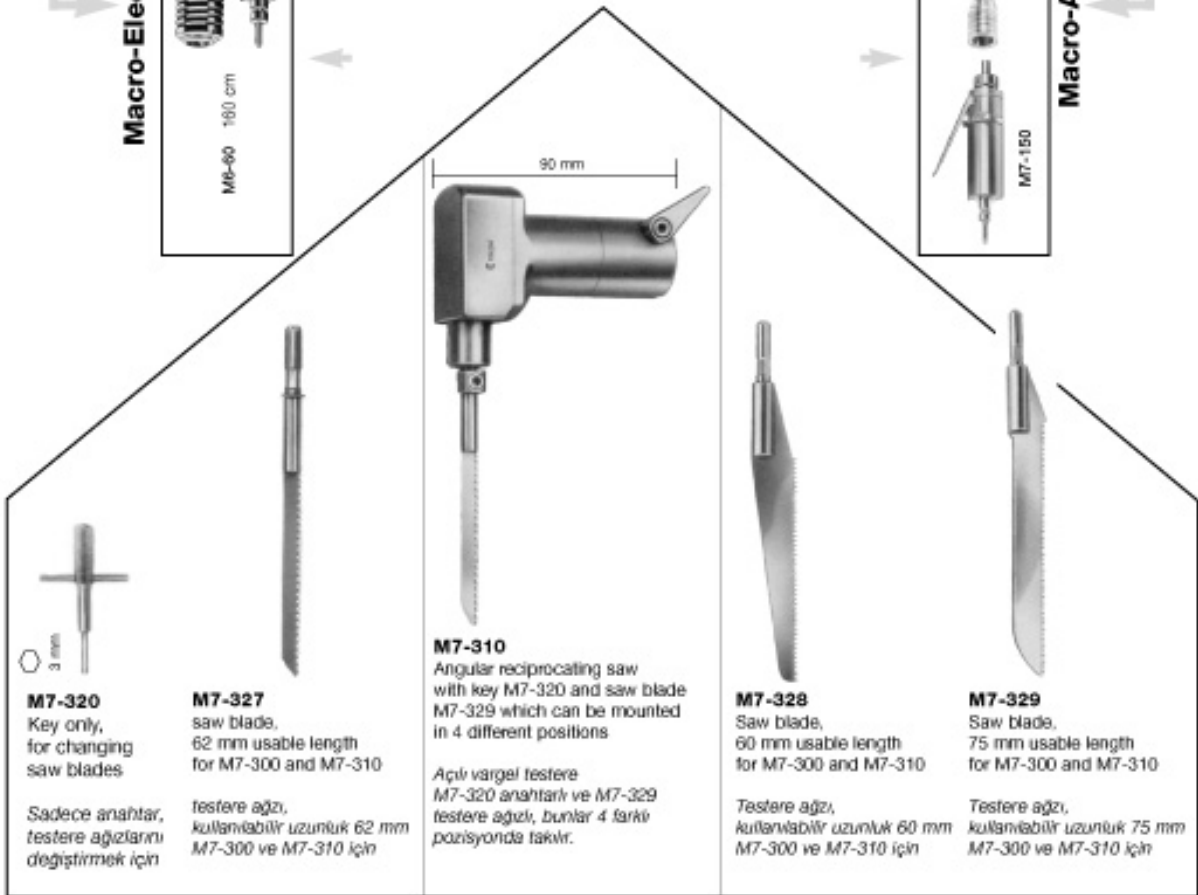
**Pneumatic-Surgical
Motor Systems**



Macro-Electro Surgery



Macro-Air Surgery



M7-320
Key only,
for changing
saw blades

Sadece anahtar,
testere ağzlarını
değiştirmek için

M7-327
saw blade,
62 mm usable length
for M7-300 and M7-310

testere ağzı,
kullanılabilir uzunluk 62 mm
M7-300 ve M7-310 için

M7-310
Angular reciprocating saw
with key M7-320 and saw blade
M7-329 which can be mounted
in 4 different positions

Açılı vargel testere
M7-320 anahtar ve M7-329
testere ağzı, bunlar 4 farklı
pozisyonda takılır.

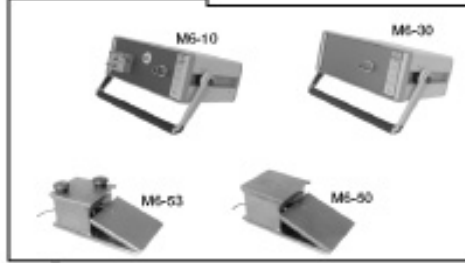
M7-328
Saw blade,
60 mm usable length
for M7-300 and M7-310

Testere ağzı,
kullanılabilir uzunluk 60 mm
M7-300 ve M7-310 için

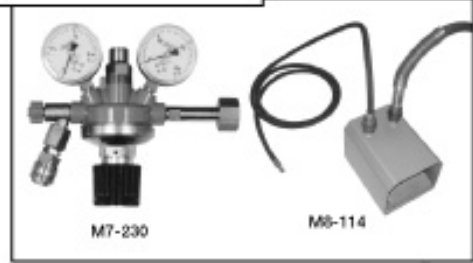
M7-329
Saw blade,
75 mm usable length
for M7-300 and M7-310

Testere ağzı,
kullanılabilir uzunluk 75 mm
M7-300 ve M7-310 için

**Electro-Surgical
Motor Systems**



**Pneumatic-Surgical
Motor Systems**



Macro-Electro Surgery



Macro-Air Surgery



M7-351
Spray nozzle with clamp
Klempili sprey başlığı



M7-352
Pair of wrenches,
for changing saw blades
Çiftli anahtar, testere
ağızlarını değiştirmek için



M7-320
Key only,
Sadece anahtar,



M7-350
Oscillating saw
Without Saw Blade
With key M7-320 / M7-352
Titreşimli kesen testere
Testere ağızı hariç
M7-320 / M7-352 Anahtar dahil



M7-353
Arbor, 39 mm long
Ana şaft, 39 mm uzunluk



M7-354
Arbor, 58 mm long
Ana şaft, 58 mm uzunluk

TİTREŞİMLE KESEN TESTERE AĞIZLARI



OSCILLATING SAW BLADES

Sterilization; 3 Atm, 143°C

M7-370

Deep cutting saw blade, narrow
Derin kesen testere ağız, dar

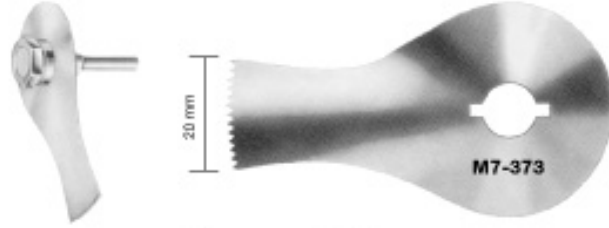
Arbor/Ana şaft M7-353
Blade/Ağız M7-371



M7-372

Deep cutting saw blade, wide
Derin kesen testere ağız, geniş

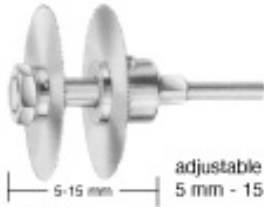
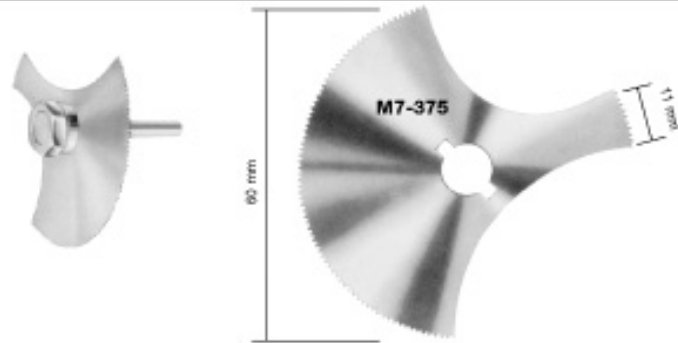
Arbor/Ana şaft M7-353
Blade/Ağız M7-373



M7-374

Saw blade with wide and narrow
serrated segments
Testere ağız,
geniş ve dar testere dişli
segmentler ile

Arbor/Ana şaft M7-353
Blade/Ağız M7-375



M7-376

Double circular saw / Çiftli halka testere

Arbor/Ana şaft M7-354
Blade/Ağız M7-377 + M7-378



M7-377

Ø 45 mm



M7-378

Ø 45 mm

M7-357

Circular saw blade
65 mm diameter,
with eccentric disc
to limit depth of
cut from 4-11 mm

Saw blade M7-361
Limiting disc M7-362

Halka testere ağız,
çap 65 mm
4-11 mm arası derinlik
kesme ayarlı
ekzantrik diskli

Testere ağız M7-361
Limitleme diskli M7-362



M7-355

Ø 6 mm

M7-356

Ø 8 mm

Trephine for extracting broken screws

Trepan, bozuk vidaları çıkartmak için



M7-358

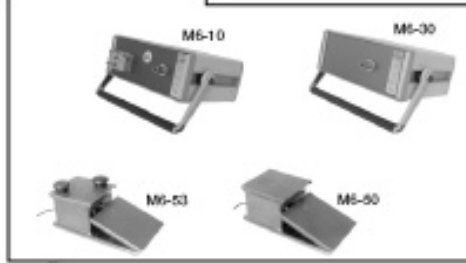
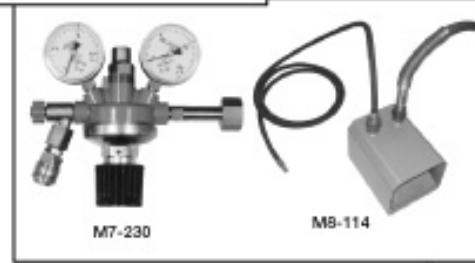
8 mm

M7-359

12 mm

Bone scoops

Kemik oyucu

**Electro-Surgical
Motor Systems**

**Pneumatic-Surgical
Motor Systems**

Macro-Electro Surgery

Macro-Air Surgery


M7-381
Spray nozzle with clamp
Klempli sprej başlığı

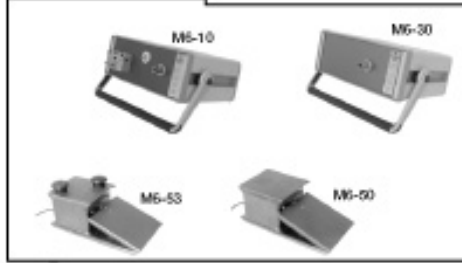


M7-841
Sagittal saw
Main piece for osteotomy saw
with M7-870 blade
No key needed
Ortopedik testere
Ortopedik testere ana gövdesi
M7-870 ağız ile
anahtarsız çalışır.

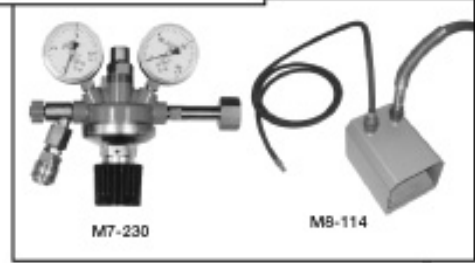


Code Kod	Working Length Çalışma Uzunluğu	Width Genişlik	Total Length Toplam Uzunluk	Thickness Kalınlık
M7-1110	25	5	50	0.5
M7-1111	25	10	50	0.5
M7-1112	35	5	60	0.5
M7-1113	35	10	60	0.5
M7-1114	35	20	60	0.5
M7-1115	50	10	75	0.5
M7-1116	50	15	75	0.5
M7-1117	50	20	75	0.7
M7-1118	50	25	75	0.7
M7-1119	50	30	75	0.7
M7-1120	65	20	90	0.7
M7-1121	65	25	90	0.7
M7-1122	65	30	90	0.7
M7-1123	65	40	90	0.7
M7-1124	65	50	90	0.7
M7-1125	35	75	60	0.5
M7-1126	50	40	75	0.5
M7-1127	75	20	106	1
M7-1128	75	30	106	1
M7-1129	90	15	114	1
M7-1130	90	20	114	1
M7-1131	90	30	114	1
M7-1132	90	25	114	0.9
M7-1133	90	25	114	1
M7-1134	90	25	114	1.27
M7-1135	90	25	114	1.5
M7-1136	105	19	129	1.27

**Electro-Surgical
Motor Systems**



**Pneumatic-Surgical
Motor Systems**



Macro-Electro Surgery



Macro-Air Surgery



M7-600

Bore Main Piece
for exchangeable chucks,
Speed reducing ratio: 10;1
Speed up to 2000 rpm
Matkap ana gövdesi
değiştirilebilir mandrenler için
Hız düşürme oranı: 10;1
Hız limiti: 2000 rpm



M7-605

Universal three-jaw chuck,
with key M7-250 max. Ø 6.35 mm
Mandren / Universal üç çeneli
M7-250 anahtar ile,
maksimum Ø 6.35 mm



M7-610

Universal three-jaw chuck,
with key M8-473 max. Ø 4 mm
Mandren / Universal üç çeneli
M7-250 anahtar ile, maksimum Ø 4 mm



M7-602

M7-600 with handle M7-601
M7-600 gövde M7-601 kabza ile



M7-611

HUDSON chuck,
for Hudson shanks
HUDSON mandreni
Hudson şaftlar için



M7-612

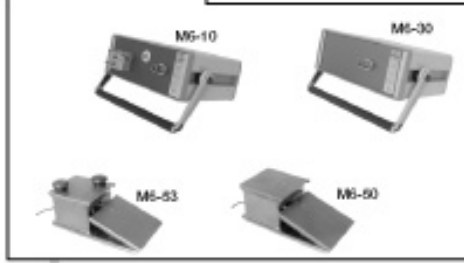
Spray nozzle with clamp
Klempli sprey başlığı



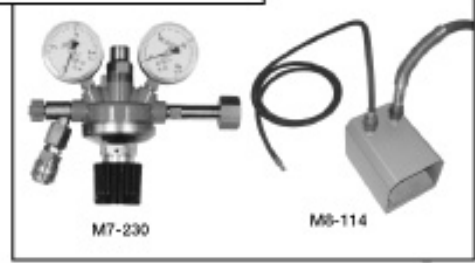
 M7-120 Ø 9 mm M7-121 Ø 12 mm M7-122 Ø 15 mm use with M7-180 or M7-600 M7-180 veya M7-600 ile kullanılır	* Skull trepans * With step-down drilling * Automatic cut-out *No key needed <i>Kafa taşı trepanları Kademeli delici Otomatik stoplu Anahtarsız çalışır</i>
 M7-130 Ø 9 mm M7-131 Ø 12 mm M7-132 Ø 15 mm use with M7-170 or M7-600 M7-170 veya M7-600 ile kullanılır	
 M7-140 Ø 9 mm M7-141 Ø 12 mm M7-142 Ø 15 mm use with M7-180 or M7-600 M7-180 veya M7-600 ile kullanılır	* Skull trepans * With step-down drilling * Automatic cut-out *No key needed * The depth guard shows mm-graduation <i>Kafa taşı trepanları Kademeli delici Otomatik stoplu Anahtarsız çalışır Milimetrik taksimatlı derinlik ayan</i>
 M7-145 Ø 9 mm M7-146 Ø 12 mm M7-147 Ø 15 mm use with M7-170 or M7-600 M7-170 veya M7-600 ile kullanılır	

 Twist drill, with round shaft Yuvarlak şaftlı matkap ucu		
Cod. Kod.	Ø Dia. mm Çap. mm	L Length mm Uzunluk mm
M7-500	1.5	60
M7-501	2.0	100
M7-502	2.5	100
M7-503	2.7	100
M7-504	3.0	100
M7-505	3.2	100
M7-506	3.5	100
M7-507	4.0	110
M7-508	4.5	130
M7-509	5.0	160
M7-510	6.0	160

**Electro-Surgical
Motor Systems**



**Pneumatic-Surgical
Motor Systems**



Macro-Electro Surgery



Macro-Air Surgery



M7-670
Spray nozzle with clamp
Klempli spray başlığı

M7-650

Main piece with forward and reverse gear.
Cannulated, Ø 2.5 mm
Without chuck,
Suitable for drilling
Thread cutting
Screwing and removing bone
Screws as well as for wire extension
up to 900 rpm

İleri geri çalışan ana gövde
Kanülü, Ø 2.5 mm
Başlıksız
Delmeye uygun
Vida dişi açar
Vidalama yapar ve kemik çıkarır
900 rpm'ye kadar tel sürer
vidalama yapar

**M7-680**

Attachment with small three - jaw chuck, with key, Ø 4 mm, exchangeable, use with M7-650
Ataçman, küçük üçlü çene başlığı ve anahtar ile, Ø 4 mm, değiştirilebilir, M7-650 ile kullanılır.

**M7-681**

Attachment with three - jaw chuck, with key, Ø 6.35 mm, exchangeable, use with m7-650
Ataçman, üçlü çene başlığı ve anahtar ile, Ø 6.35 mm, değiştirilebilir, M7-650 ile kullanılır.

**M7-682**

Adaptor for SQUARE shank, Adaptor SQUARE shaft için

**M7-683**

Adaptor for AO shank, Adaptor AO shaft için

**M7-684**

Adaptor for TRINKE shank, Adaptor TRINKE shaft için

**M7-685**

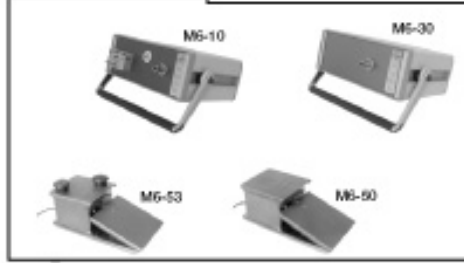
Adaptor for OSTEO shank, Adaptor OSTEO shaft için

**M7-686**

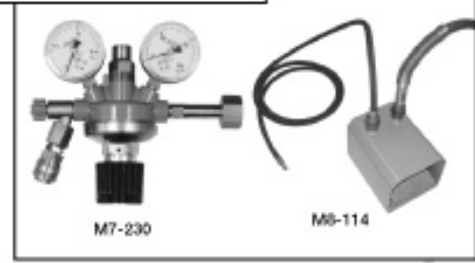
Quick-action chuck for boring wires up to Ø 2.5 mm,
Use with M7-650
Hızlı işlem başlığı, Ø 2.5 mm'ye kadar teller için

**M7-650 , M7-681****M7-650 , M7-686**

**Electro-Surgical
Motor Systems**



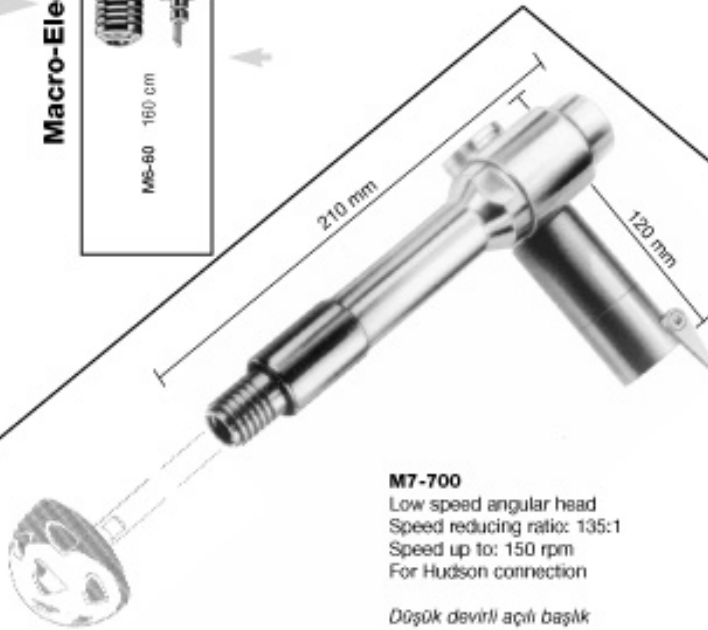
**Pneumatic-Surgical
Motor Systems**



Macro-Electro Surgery



Macro-Air Surgery



M7-700

Low speed angular head
Speed reducing ratio: 135:1
Speed up to: 150 rpm
For Hudson connection

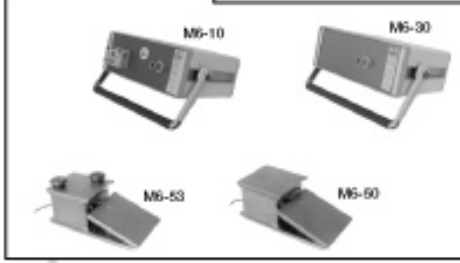
*Düşük devirli açılı başlık
Hız düşürme oranı: 135:1
Hız limiti: 150 rpm
Hudson bağlantılı*



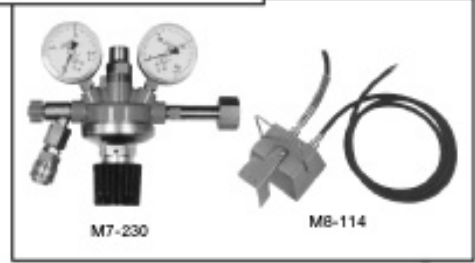
M7-704

Adaptor for HARRIS shaft
Adaptör, HARRIS bağlantı için

**Electro-Surgical
Motor Systems**



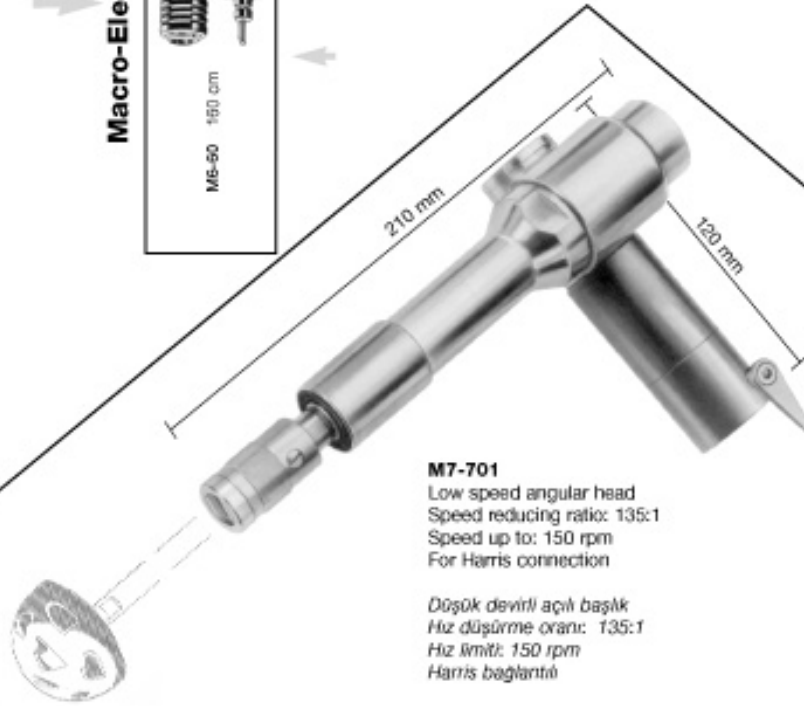
**Pneumatic-Surgical
Motor Systems**



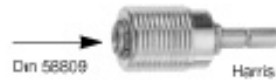
Macro-Electro Surgery



Macro-Air Surgery



M7-705
Adaptor for AO-Protek shaft
Adaptör, AO-Protek bağlantı için



M7-706
Adaptor for DIN 58809 shaft
Adaptör, DIN 58809 bağlantı için



M7-707
Adaptor for Hudson shaft
Adaptör, Hudson bağlantı için

**M7-710**

Shaft only,
With Harris connection
for M7-750, M7-757

Sadece şaft
Harris bağlantılı
M7-750, M7-757 için

Only acetabular reamer Sadece acetabular oyucu		M7-750	Ø 46 mm
		M7-751	Ø 48 mm
		M7-752	Ø 50 mm
		M7-753	Ø 52 mm
		M7-754	Ø 56 mm
		M7-755	Ø 60 mm
		M7-756	Ø 64 mm
		M7-757	Ø 68 mm

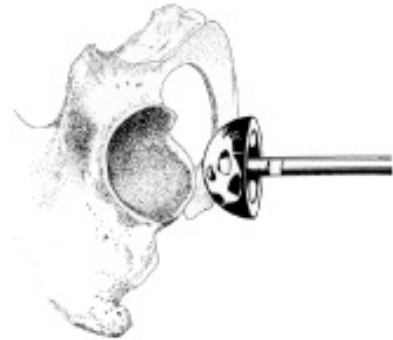
**M7-711**

Shaft only,
With Harris connection
for M7-760, M7-777

Sadece şaft
Harris bağlantılı
M7-760, M7-777 için

Head only fine stepped with key M7-320 Sadece başlık İnce kademeli M7-320 anahtar ile		M7-760	Ø 46 mm
		M7-761	Ø 48 mm
		M7-762	Ø 50 mm
		M7-763	Ø 52 mm
		M7-764	Ø 56 mm
		M7-765	Ø 60 mm
		M7-766	Ø 64 mm
		M7-767	Ø 68 mm

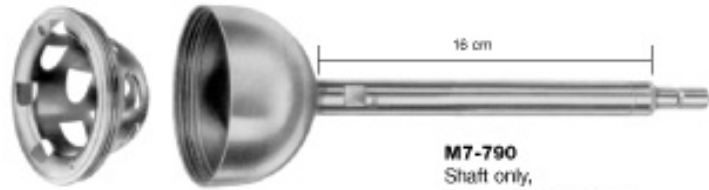
Head only with key M7-320 Sadece başlık M7-320 anahtar ile		M7-770	Ø 46 mm
		M7-771	Ø 48 mm
		M7-772	Ø 50 mm
		M7-773	Ø 52 mm
		M7-774	Ø 56 mm
		M7-775	Ø 60 mm
		M7-776	Ø 64 mm
		M7-777	Ø 68 mm



M7-780	Ø 32 mm
M7-781	Ø 35 mm
M7-782	Ø 39 mm
M7-783	Ø 43 mm
M7-784	Ø 47 mm

Head only
for femoral head
reamer

Sadece başlık
femoral başlıklı
oyucu için

**M7-790**

Shaft only,
With Harris connection
for M7-780, M7-784

Sadece şaft
Harris bağlantılı
M7-780, M7-784 için





M7-791
Movable protector case,
fitting all reamer shafts
Sterilization: 3 atm, 143°C

*Koruyucu oynar kovan
tüm oyucu şaftlara uyur
sterilizasyon: 3 atm, 143°C*



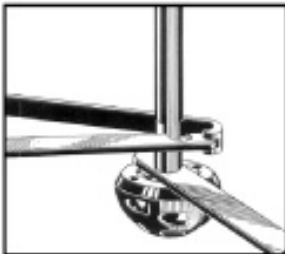
M7-792
Key, for locking and
unlocking the reamer
head inlays, 27 cm

*Anahtar, oyucu başlık
parçalarını açıp kapatmak için
27 cm*

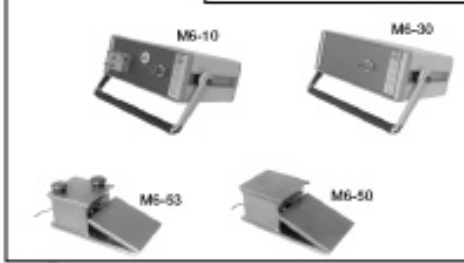


M7-793
Handle, for holding the shaft of
the reamer while changing the
reamer head inlays 26 cm

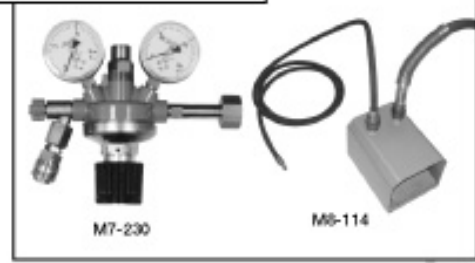
*Sap, oyucu başlık parçalarını
değiştirirken oyucu şaftını
tutmak için. 26 cm*



**Electro-Surgical
Motor Systems**



**Pneumatic-Surgical
Motor Systems**



Macro-Electro Surgery

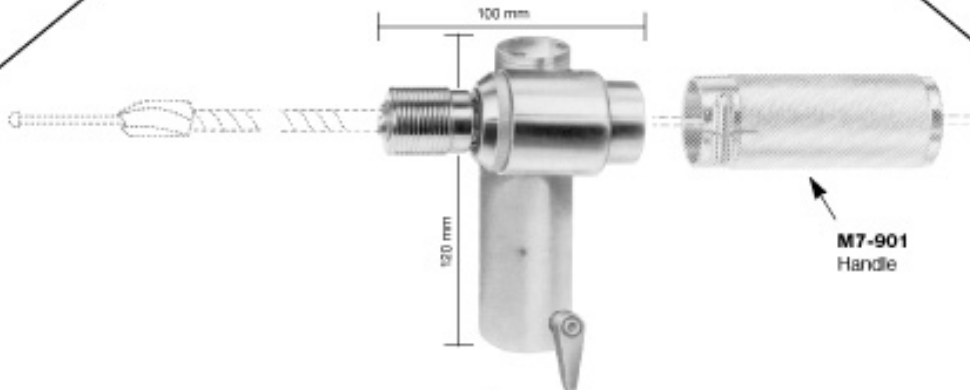


Macro-Air Surgery



M7-900
Low speed angular head
Speed reducing ratio: 67.5:1
Speed up to: 300 rpm
For DIN 58809 connection

*Düşük devirli açılı başlık
Hız düşürme oranı: 67.5:1
Hız limiti: 300 rpm
DIN 58809 bağlantısı*



M7-905
Adaptor for AO-Protek shank
Adaptör AO-Protek bağlantı için

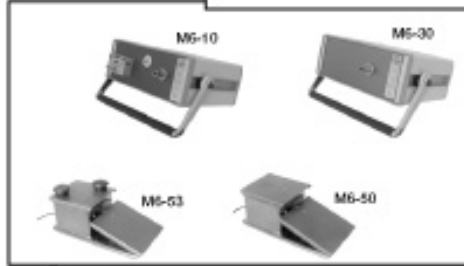


M7-906
Universal three-jaw chuck,
with key M7-250 max. Ø6.35 mm
Mandren / Üniversal üç çeneli
M7-250 anahtar ile, maksimum Ø 6.35 mm

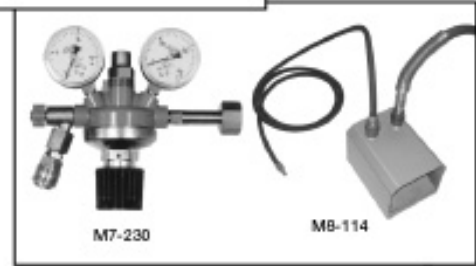
for **M7-900** için

 Intramedullary reamers with flexible shanks and rigid drilling heads		 Guides, blunt, made of material used for implants			 Guides made of material used for implants with drill tip		
Ø mm	Length 430 mm	Ø mm	Length 600 mm	Length 990 mm	Ø mm	Length 600 mm	Length 990 mm
5.5	M7-920	1.9	M7-960	M7-961	1.9	M7-962	
6.0	M7-921						
6.5	M7-922						
7.0	M7-923						
7.5	M7-924						
8.0	M7-925	3.4	M7-963	M7-964	3.4		M7-965
8.5	M7-926						
9.0	M7-927						
9.5	M7-928						
10.0	M7-929						
10.5	M7-930						
11.0	M7-931						
11.5	M7-932						
12.0	M7-933						
12.5	M7-934						
13.0	M7-935						
13.5	M7-936						
14.0	M7-937						
14.5	M7-938						
15.0	M7-939						
15.5	M7-940						
16.0	M7-941						
16.5	M7-942						
17.0	M7-943						
17.5	M7-944						
18.0	M7-945						
18.5	M7-946						
19.0	M7-947						
 DIN 58809							

**Electro-Surgical
Motor Systems**



**Pneumatic-Surgical
Motor Systems**



Macro-Electro Surgery

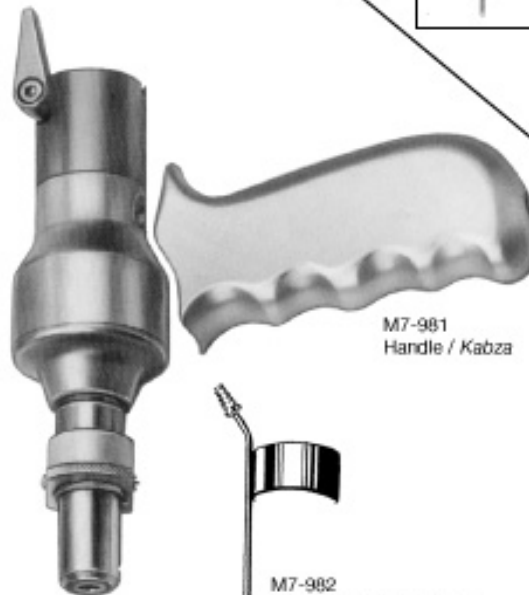


Macro-Air Surgery



M7-980

Bore Main Piece
For BORCHARDT shanks
Speed reducing ratio 10:1
Speed up to 2000 rpm
Matkap ana gövdesi
BORCHARDT şaftlar için
Hız düşürme oranı 10:1
Hız limiti: 2000 rpm



M7-981
Handle / Kabza

M7-982
Spray nozzle with clamp
Klempli sprey başlığı

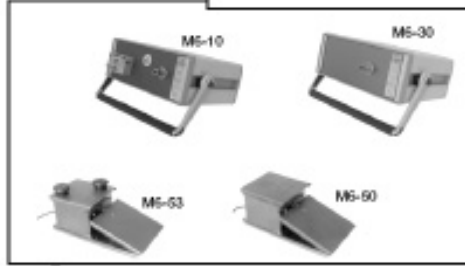


M7-985 Ø 6 / 9 mm
M7-986 Ø 9 / 12 mm
M7-987 Ø 12 / 15 mm

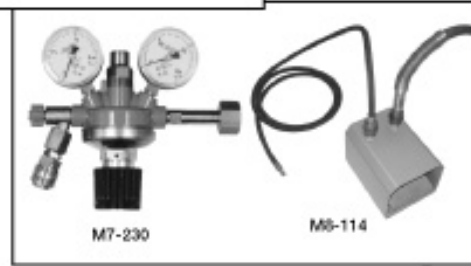
- * Skull trepans
 - * With step-down drilling
 - * Automatic cut-out
 - * No key needed
 - * Use with M7-980
- Kafa tası trepanları*
Kademeli delici
Otomatik stoplu
Anahtarsız çakır
M7-980 ile kullanılır

Twist drill, with BORCHARDT shaft BORCHARDT şaftlı matkap ucu		
Cod. Kod.	Ø Dia. mm Çap. mm	L= mm usable length kullanım uzunluğu
M7-988	1.5	38
M7-989	2.0	45
M7-990	2.5	53
M7-991	2.8	57
M7-992	3.0	57
M7-993	3.2	57
M7-994	3.5	65
M7-995	4.0	70
M7-996	4.5	70
M7-997	5.0	85
M7-998	6.0	120

**Electro-Surgical
Motor Systems**



**Pneumatic-Surgical
Motor Systems**



Micro-Electro Surgery



Micro-Air Surgery



M8-550
Spray nozzle
Sprey hortum başlığı

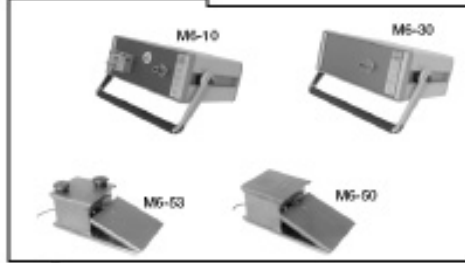


M8-201
INTRA Main Piece, Straight
No key needed for tightening
Tip 15 mm long
Transmission: 1:1
Color marked: Blue
Burs shank: Ø 2.35 mm
Burs length: 70 mm

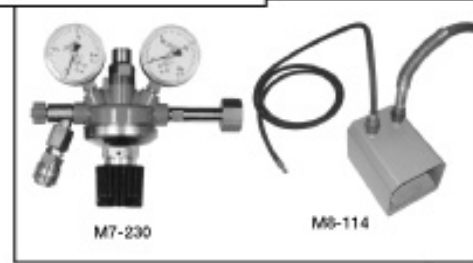


INTRA Piyasemen, Düz
Sıkıştırmak için anahtar gerekmez
Uç uzunluğu 15 mm
Hareket nakil: 1:1
Renk kodu: Mavi
Tır ucu şaftı: Ø 2.35 mm
Tır ucu uzunluğu: 70 mm

**Electro-Surgical
Motor Systems**



**Pneumatic-Surgical
Motor Systems**



Micro-Electro Surgery



Micro-Air Surgery



M8-551
Spray nozzle
Sprey hortum başlığı

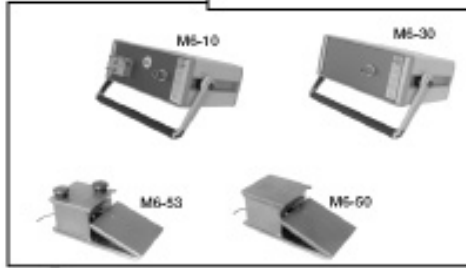


M8-202
INTRA Main Piece, Straight
No key needed for tightening
Tip 45 mm long
Transmission: 1:1
Color marked: Blue
Burs shank: Ø 2.35 mm
Burs length: 95 mm

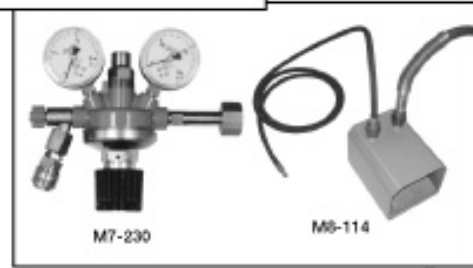


INTRA Piyasemen, Düz
Sıkıştırmak için anahtar gerekmez
Uç uzunluğu 45 mm
Hareket nakli: 1:1
Renk kodu: Mavi
Tır ucu şaftı: Ø 2.35 mm
Tır ucu uzunluğu: 95 mm

**Electro-Surgical
Motor Systems**



**Pneumatic-Surgical
Motor Systems**



Micro-Electro Surgery



Micro-Air Surgery



M8-552
Spray nozzle
Sprey hortum başlığı

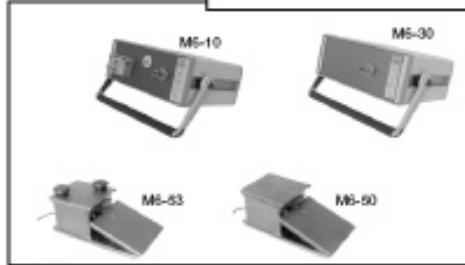


M8-203
INTRA Main Piece, Straight
No key needed for tightening
Tip 75 mm long
Transmission: 1:1
Color marked: Blue
Burs shank: Ø 2.35 mm
Burs length: 125 mm

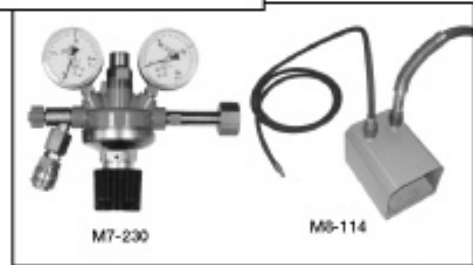


INTRA Piyasemen, Düz
Sıkıştırmak için anahtar gerekmez
Uç uzunluğu: 75 mm
Hareket nakli: 1:1
Renk kodu: Mavi
Tur ucu şaftı: Ø 2.35 mm
Tur ucu uzunluğu: 125 mm

**Electro-Surgical
Motor Systems**



**Pneumatic-Surgical
Motor Systems**



Micro-Electro Surgery



Micro-Air Surgery



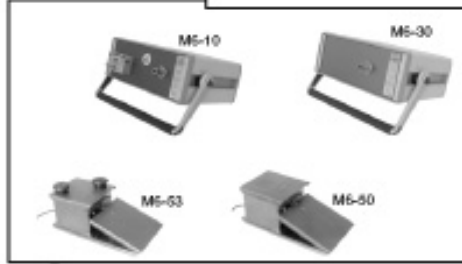
M8-553
Spray nozzle
Sprey hortum başlığı



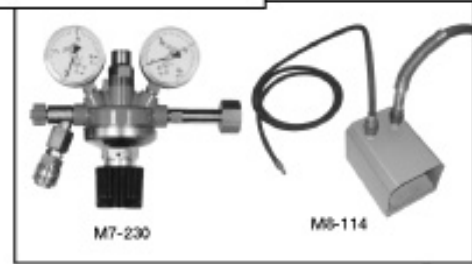
M8-210
INTRA Main Piece, Angular
No key needed for tightening
Tip 15 mm long
Transmission: 1:2
Color marked: Red
Burs shank: Ø 2.35 mm
Burs length: 70 mm

INTRA Piyasemen, Açılı
Sıkıştırmak için anahtar gerekmez
Uç uzunluğu: 15 mm
Hareket nakit: 1:2
Renk kodu: Kırmızı
Tır ucu şaftı: Ø 2.35 mm
Tır ucu uzunluğu: 70 mm

**Electro-Surgical
Motor Systems**



**Pneumatic-Surgical
Motor Systems**



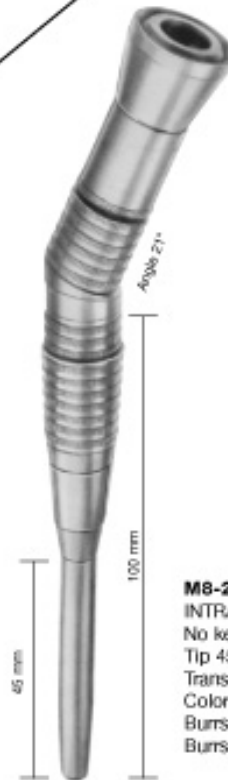
Micro-Electro Surgery



Micro-Air Surgery



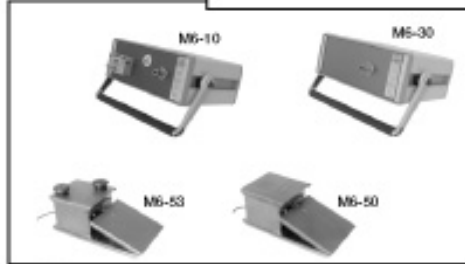
M8-554
Spray nozzle
Sprey hortum başlığı



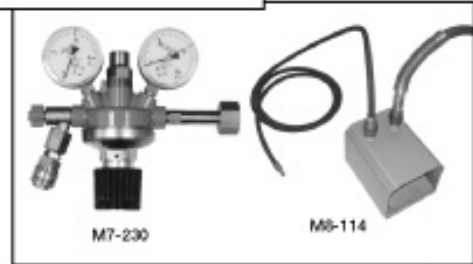
M8-211
İNTRA Main Piece, Angular
No key needed for tightening
Tip 45 mm long
Transmission: 1:2
Color marked: Red
Burs shank: Ø 2.35 mm
Burs length: 95 mm

İNTRA Piyasemen, Açılı
Sıkıştırmak için anahtar gerekmez
Uç uzunluğu 45 mm
Hareket nakli: 1:2
Renk kodu: Kırmızı
Tutucu ucu şaftı: Ø 2.35 mm
Tutucu ucu uzunluğu: 95 mm

**Electro-Surgical
Motor Systems**



**Pneumatic-Surgical
Motor Systems**



Micro-Electro Surgery



Micro-Air Surgery



M8-555
Spray nozzle
Sprey hortum başlığı



M8-212
İNTRA Main Piece, Angular
No key needed for tightening
Tip 75 mm long
Transmission: 1:2
Color marked: Red
Burs shank: Ø 2.35 mm
Burs length: 125 mm

İNTRA Piyasemen, Açılı
Sıkıştırmak için anahtar gerekmez
Uç uzunluğu 75 mm
Hareket nakli: 1:2
Renk kodu: Kırmızı
Tutucu çapı: Ø 2.35 mm
Tutucu uzunluğu: 125 mm

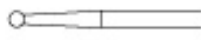
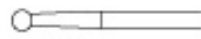
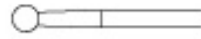
**TUR UÇLARI-ŞAFT UZUNLUĞU 70 mm,
ŞAFT Ø 2.35 mm, ŞAFT SİLİNDİRİK**



**BURRS-SHANK 70 mm LONG,
SHANK Ø 2.35 mm, ROUND SHANK**



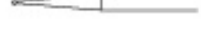
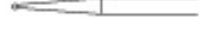
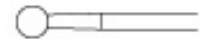
Standard
Burrs
Stainless Steel



Code	Size	Ø mm	ISO - NO
M8-300	20	5.0	050
M8-302	16	4.0	045
M8-304	12	3.1	035
M8-306	8	2.3	027
M8-308	4	1.4	018
M8-310	0	0.8	008
M8-312	000	0.6	006



High speed
Burrs
Carbide



Code	Size	Ø mm	ISO - NO
M8-320	24	7.0	070
M8-322	20	5.0	050
M8-324	16	4.0	045
M8-326	12	3.1	035
M8-328	8	2.3	027
M8-330	4	1.4	018
M8-332	0	0.8	008
M8-334	000	0.6	006



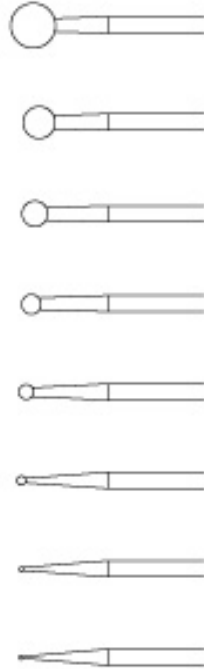
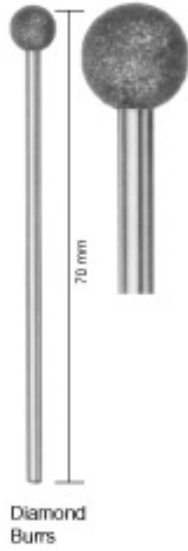
M8-201



M8-210



M8-160



Code	Size	Ø mm	ISO - NO
M8-340	24	7.0	070
M8-342	20	5.0	050
M8-344	16	4.0	045
M8-346	12	3.1	035
M8-348	8	2.3	027
M8-350	4	1.4	018
M8-352	0	0.8	008
M8-354	000	0.6	006



M8-201



M8-210

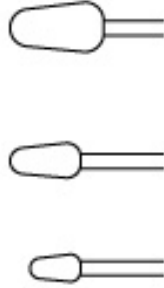


M8-160

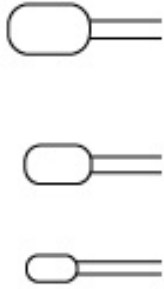
**TUR UÇLARI-ŞAFT UZUNLUĞU 70 mm,
ŞAFT Ø 2.35 mm, ŞAFT SİLİNDİRİK**

AYGÜN®

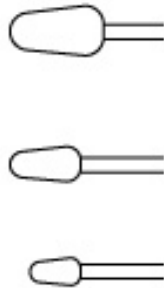
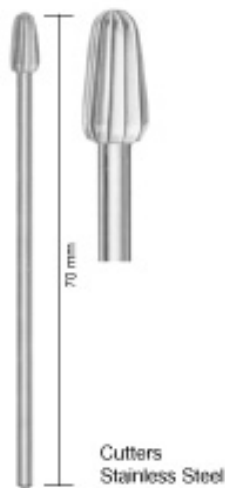
**BURRS-SHANK 70 mm LONG,
SHANK Ø 2.35 mm, ROUND SHANK**



Code	Size	Ø mm	ISO - NO
M8-380	26	8.0	080
M8-382	22	6.0	060
M8-384	16	4.0	040



Code	Size	Ø mm	ISO - NO
M8-390	26	8.0	080
M8-392	22	6.0	060
M8-394	16	4.0	040



Code	Size	Ø mm	ISO - NO
M8-400	26	8.0	080
M8-402	22	6.0	060
M8-404	16	4.0	040



M8-201



M8-210



M8-160

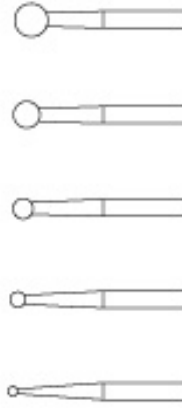
**TUR UÇLARI-ŞAFT UZUNLUĞU 95 mm,
ŞAFT Ø 2.35 mm, ŞAFT SİLİNDİRİK**



**BURRS-SHANK 95 mm LONG,
SHANK Ø 2.35 mm, ROUND SHANK**



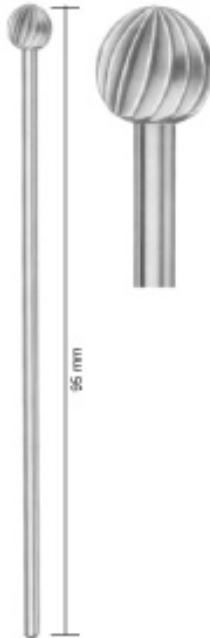
Diamond
Burrs



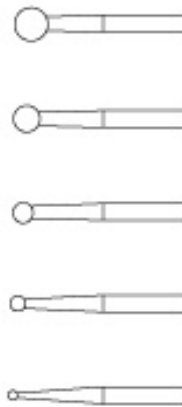
Code	Size	Ø mm	ISO - NO
M8-410	20	5.0	050
M8-412	16	4.0	040
M8-414	12	3.1	031
M8-416	8	2.3	023
M8-418	4	1.4	014



M8-202



Standart
Rosen Burrs
Stainless Steel



Code	Size	Ø mm	ISO - NO
M8-420	20	5.0	050
M8-422	16	4.0	040
M8-424	12	3.1	031
M8-426	8	2.3	023
M8-428	4	1.4	014



M8-211



Rosen Burrs
Stainless Steel



Code	Size	Ø mm	ISO - NO
M8-430	24	7.0	070
M8-432	20	5.0	050



Rosen Burrs
Stainless Steel



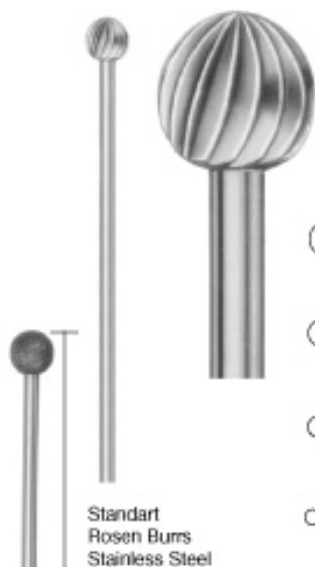
Code	Size	Ø mm	ISO - NO
M8-440	24	7.0	070
M8-442	20	5.0	050



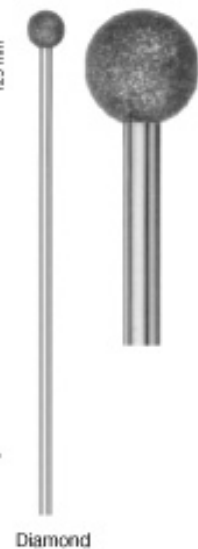
M8-203



M8-212



Standart
Rosen Burrs
Stainless Steel



Diamond

Code	Size	Ø mm	ISO - NO
M8-450	20	5.0	050
M8-452	16	4.0	040
M8-454	12	3.1	031
M8-456	8	2.3	023
M8-458	4	1.4	014

Code	Size	Ø mm	ISO - NO
M8-460	20	5.0	050
M8-462	16	4.0	040
M8-464	12	3.1	031
M8-466	8	2.3	023
M8-468	4	1.4	014

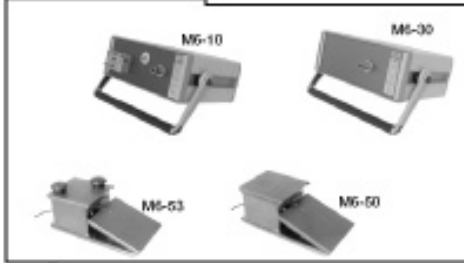


M8-203

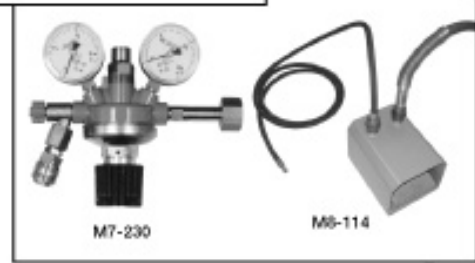


M8-212

**Electro-Surgical
Motor Systems**



**Pneumatic-Surgical
Motor Systems**



Micro-Electro Surgery



Micro-Air Surgery

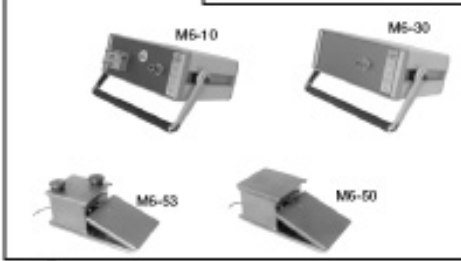


M8-556
Spray nozzle
Sprey hortum başlığı

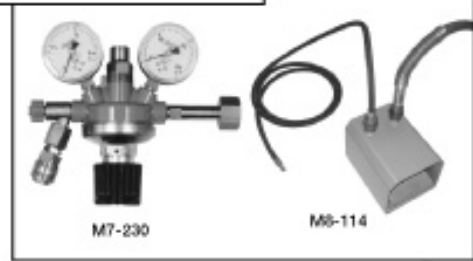
M8-150
INTRA Main piece, angular
No key needed for tightening
Angle: 21°
Transmission: 1:1
Color marked: One Blue Ring
The burrs can be mounted
with M8-160 imperator

INTRA Ana parça
Sıkıştırmak için anahtar gerekmez
Açı: 21°
Hareket nakli: 1:1
Renk Kodu: Bir mavi halka
Tür uçları M8-160 imperator
ile monte edilebilir.

Electro-Surgical Motor Systems



Pneumatic-Surgical Motor Systems



Micro-Electro Surgery



M5-65 180 cm

Micro-Air Surgery



M8-110 300 cm
M8-111 500 cm

M8-102
M8-103



M8-557
Spray nozzle
Sprey hortum başlığı

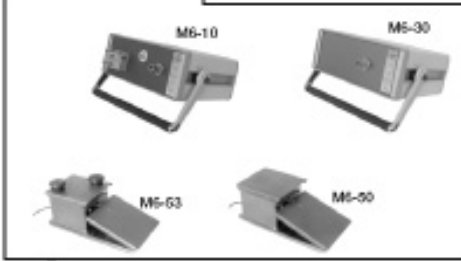


75 mm

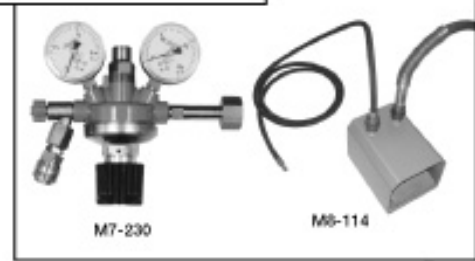
M8-151
INTRA Main piece, angular
No key needed for tightening
Angle: 21°
Transmission: 1:2
Color marked: Two Red Rings
The burs can be mounted
with M8-160 imperator

INTRA Ana parça
Sıkıştırmak için anahtar gerekmez
Açı: 21°
Hareket nakli: 1:2
Renk Kodu: İki Kırmızı halka
Tür uçları M8-160 imperator
ile monte edilebilir.

Electro-Surgical Motor Systems



Pneumatic-Surgical Motor Systems



Micro-Electro Surgery



Micro-Air Surgery



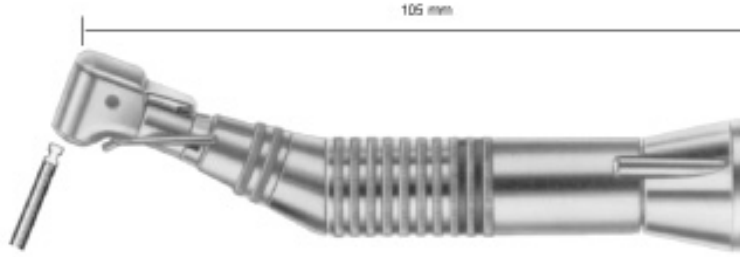
M8-558
Spray nozzle
Sprey hortum başlığı



M8-152

INTRA Main piece, angular
No key needed for tightening
Angle: 21°
Transmission: 2.7:1
Color marked: One Green Ring
The burs can be mounted
with M8-160 imperator

INTRA Ana parça
Sıkıştırmak için anahtar gerekmez
Açı: 21°
Hareket nakli: 2.7:1
Renk Kodu: Bir Yeşil halka
Tur uçları M8-160 imperator
ile monte edilebilir.



M8-180
Angular head
Angle: 21°
Consisting of: M8-152 and M8-181

Açılı başlık
Açı: 21°
Muhteviyatı: M8-152 ve M8-181



M8-181
Angle head with imperator bearing.
Transmission: 2:1
For burrs and cutters
With quick-action "dental" shaft

İmperator, Açılı başlık
Hareket nakli: 2:1
Tür uçları ve kesiciler için
hızlı değişim imkanı "Dental" şaftlı



M8-182 Ø 1.8 mm



M8-183 Ø 2.5 mm



M8-184 Ø 3.1 mm



M8-185 Ø 4.0 mm



	Ø	Length
M8-580	1.1	23
M8-581	1.5	23
M8-582	1.8	23
M8-583	2.0	23
M8-584	2.1	30



	Ø	Length
M8-595	1.5	38
M8-596	2.0	38



M8-600	25 mm
M8-601	50 mm





M8-160
micro surgery attachment
with imperator bearing, for
burs drills etc. With standard
shank of Ø 2.35 mm and a
length of up to 70 mm, can
be used for burs.

mikro cerrahi ataçmanı imperator,
2.35 mm çapında
70 mm uzunluğundaki
standart şaftlar için kullanılır.



M8-170
Chuck for tightening and exchanging burs,
drills ect. For standard shanks of Ø 2.35 mm
in the micro surgery attachment M8-160

ANAHTAR, tur uçları ve delici matkap
uçlarını sıkıktırmak ve değiştirmek için
(M8-160 kodlu mikro cerrahi ataçmanı
içinde bulunan Ø 2.35 mm standart
şaftlar için)

Application of the micro surgery attachment / Mikro cerrahi ataçmanının kullanımı

Burr with standard
shank, Ø 2.35 mm
70 mm length

Insert burr right to the
stop into the micro
surgery attachment



Tur ucu, standart şaft ile
Çap, 2.35 mm
Uzunluk, 70 mm

tur ucunu doğrudan
mikro cerrahi Ataç-
manı'na
takınız.

M8-160
micro surgery attachment
put micro surgery attach-
ment into the chuck



Mikro cerrahi ataçmanını
kafanın içine yerleştirin.

M8-170
Chuck
Fix the tool in the micro
surgery attachment by
clockwise turning, remove
by turning to the left

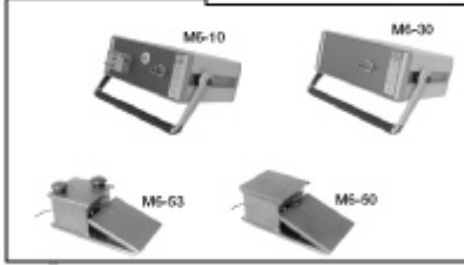
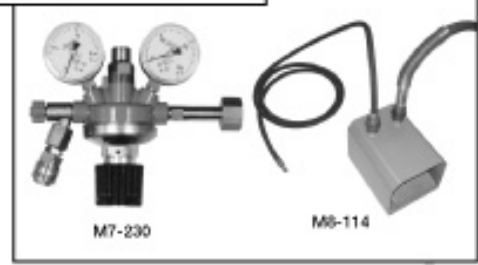


Bağlı
Saat yelkovanı yönünde
döndürerek aleti mikro
cerrahi ataçmanı içine
sabitleyin. Sola
döndürerek çıkartınız.

Burr, mounted group of
micro surgical attachment
and intra main piece



tur ucu, mikro cerrahi
ataçmanı ve intra ana
parçasının monte edilmiş
grubu

Electro-Surgical
Motor SystemsPneumatic-Surgical
Motor Systems

Micro-Electro Surgery



Micro-Air Surgery



M8-487
Grinding attachment
Taşlama ataçmanı



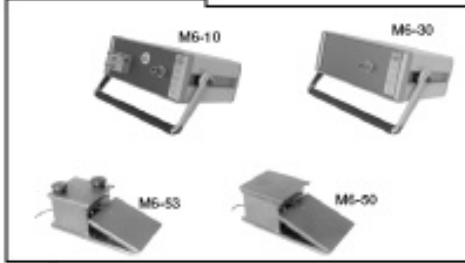
M8-485
Hand piece for skin abrasion, With irrigation tube integrated in the protection shield, diamond grinding attachment. Smooth running due to ball bearings and taper socket of the grinding attachment.

Cilt abrasyonu gövdesi.
Koruyucu kılıf entegreli sulama tüpü.
Elmas taşlama ataçmanı.
taşlama ataçmanı rulman ve taper soketi ile uyumlu çalışır.

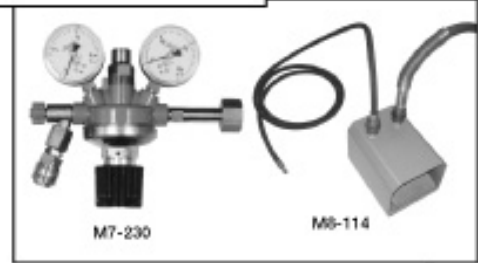


M8-486
Protection shield
Koruyucu kılıf

**Electro-Surgical
Motor Systems**



**Pneumatic-Surgical
Motor Systems**



Micro-Electro Surgery



Micro-Air Surgery



M8-120

Micro oscillating saw
Possibility to use extra thin
blades for precision operations.
Narrow design for good visibility.
Saw blades have to ordered
separately

*Titreşimle kesen mikro testere
Hassas işlemler için ekstra ince
bıçak kullanımı imkanı
Görüş rahatlığı için dar dizayn
testere ağızları ayrı olarak sipariş
edilir.*



M8-121



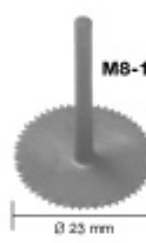
M8-122



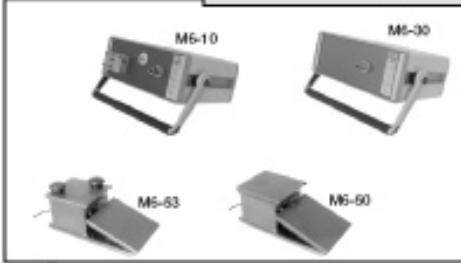
M8-123



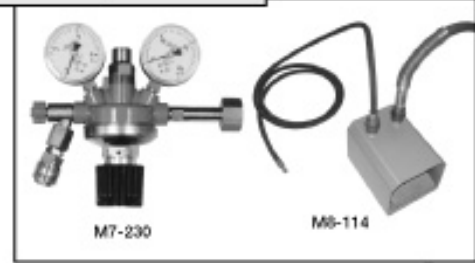
M8-124



**Electro-Surgical
Motor Systems**



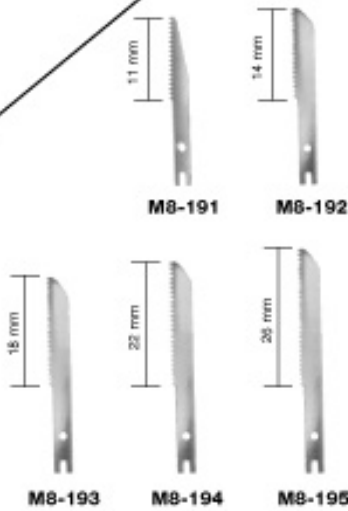
**Pneumatic-Surgical
Motor Systems**



Micro-Electro Surgery



Micro-Air Surgery



M8-190

Micro straight reciprocating saw.
Without saw blades.
With spray nozzle M8-198
Oscillations per second: 160 (at 20.000 rpm).
Height of stroke: 2 mm

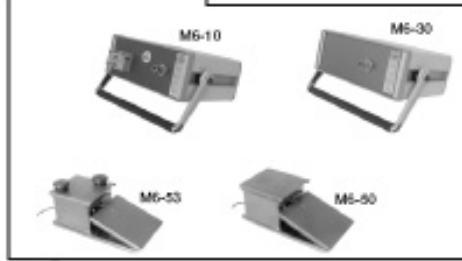
*Mikro düz vargel testere..
Testere ağzı hariç.
M8-198 sprey hortum başlığı ile
Saniyedeki titreşim sayısı: 160 (20.000 rpm'de).
Vuruş mesafesi: 2 mm*



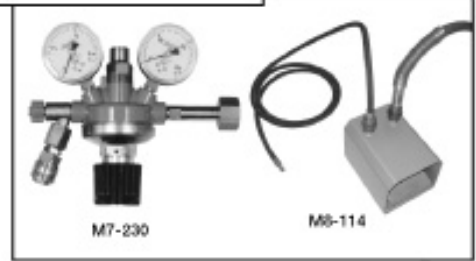
M8-198

Spray nozzle for M8-190
Sprey hortum başlığı M8-190 için

**Electro-Surgical
Motor Systems**



**Pneumatic-Surgical
Motor Systems**



Micro-Electro Surgery

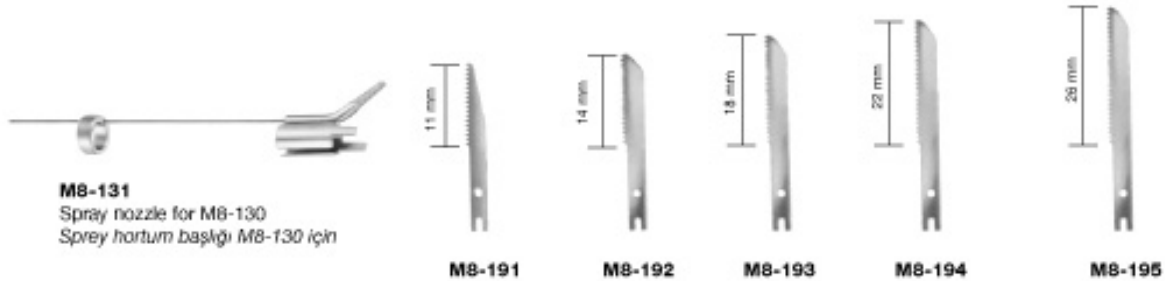


Micro-Air Surgery

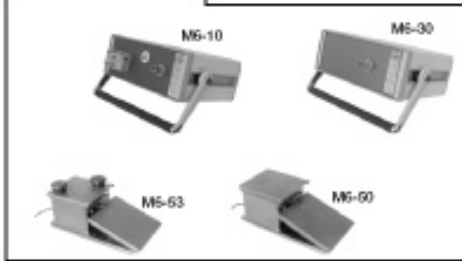


M8-130
Micro straight reciprocating saw.
Mikro düz vargel testere...

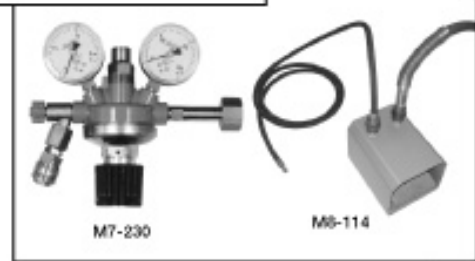
M8-131
Spray nozzle for M8-130
Sprey hortum başlığı M8-130 için



Electro-Surgical Motor Systems



Pneumatic-Surgical Motor Systems



Micro-Electro Surgery



Micro-Air Surgery



M8-742

WAGNER Dermatom
WAGNER Dermatom

Cutting width: Adjustable up to 79 mm by 10 flaps with approx. 8 mm width.
Kesme genişliği: Yaklaşık 8 mm genişliğindeki 10 kanadıyla 79 mm'ye kadar ayarlanabilir.

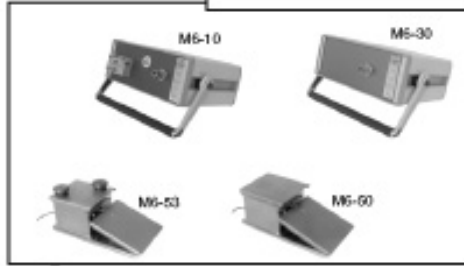
Thickness of graft: Adjustable from 0.2 - 1.2 mm, scale divided in 1/10 mm
Graf kalınlığı: 1/10 mm taksimli skalada 0.2 - 1.2 mm'ye kadar ayarlanabilir.



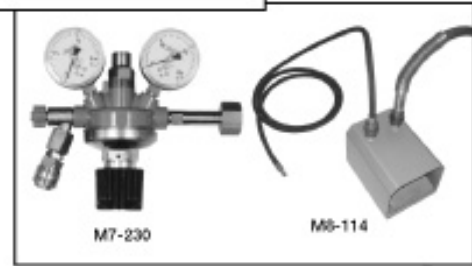
M7-105

Spare blades, one side cutting only, stainless steel.
Yedek bıçaklar, sadece tek taraf kesici, paslanmaz çelik.

Electro-Surgical Motor Systems



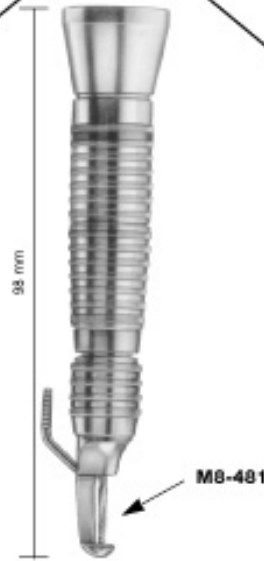
Pneumatic-Surgical Motor Systems



Micro-Electro Surgery



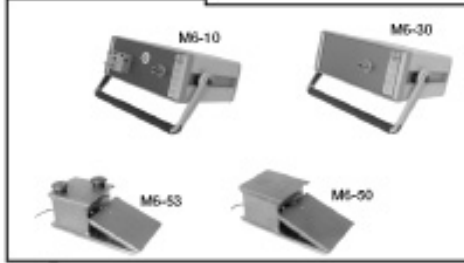
Micro-Air Surgery



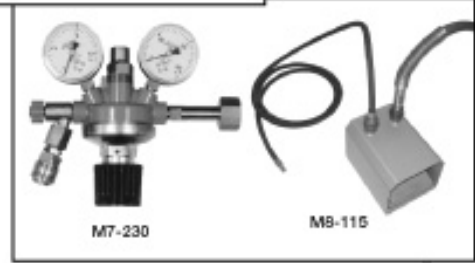
M8-480
FREIBURG Craniotome for children
With bone cutter M8-481

Çocuklar için FREIBURG Kraniotomu
M8-481 kemik kesici için

Electro-Surgical Motor Systems



Pneumatic-Surgical Motor Systems



Micro-Electro Surgery

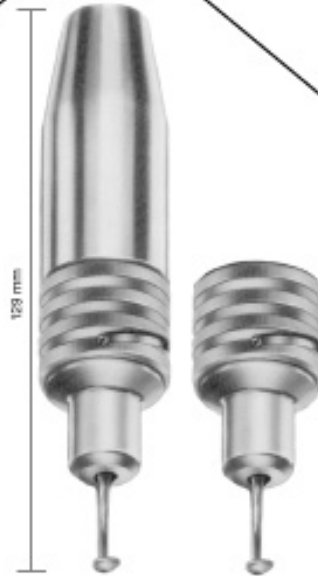


Micro-Air Surgery



M8-728
Craniotom hand piece
for skull opening
no key is needed
with M7-207

*Kraniyotom
Kafa tası açmak için
Anahtar gerekmez
M7-207 dahil*



M7-207
Dura guard, fixed

M7-208
Dura guard, turnable

M7-201
Spare Cutter
Yedek Kesici

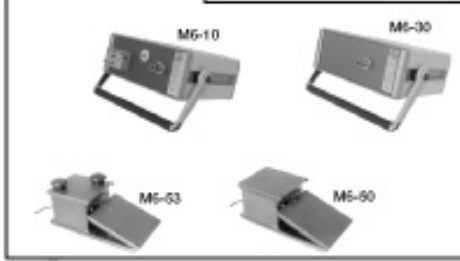


M7-202
Wire pass drill
Tel geçirme matkabı

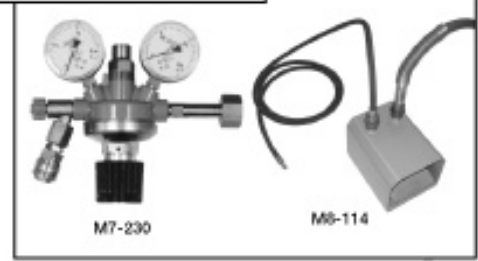


Ø 2 mm, L= 20 mm

**Electro-Surgical
Motor Systems**



**Pneumatic-Surgical
Motor Systems**



Micro-Electro Surgery



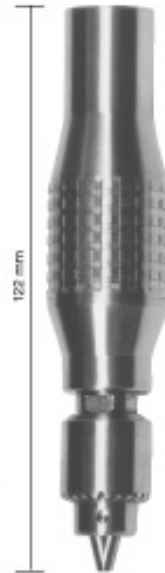
Micro-Air Surgery



M8-470

Micro Drill
for burs and drills. Max. Ø 4 mm
Transmission: 20:1

*Mikro matkap
Tur ve matkap uçları için Maks. Ø 4 mm
Hareket nakli: 20:1*



M8-471

Micro Drill
for burs and drills.
For exchangeable chucks
Transmission: 20:1
Suitable chucks: M8-472, M8-474, M8-477

*Mikro matkap
Tur ve matkap uçları için
Başlık değişebilir.
Hareket nakli: 20:1
Uygun başlıklar: M8-472, M8-474, M8-477*



 Twist drill, with round shaft Yuvarlak shaft matkap ucu		
Cod. Kod.	Ø Dia. mm Çap. mm	L Length mm Uzunluk mm
M7-500	1.5	60
M7-501	2.0	100
M7-502	2.5	100
M7-503	2.7	100
M7-504	3.0	100
M7-505	3.2	100
M7-506	3.5	100
M7-507	4.0	110
M7-508	4.5	130
M7-509	5.0	160
M7-510	6.0	160

**M8-472**

Universal chuck with key M8-473
Max. Ø 4 mm

Universal başlık, M8-473 anahtar ile
Maks. Ø 4 mm

**M8-474**

Universal chuck with key M7-250
Max. Ø 6.35 mm

Universal başlık, M7-250 anahtar ile
Maks. Ø 6.35 mm

**M8-477**

HUDSON chuck, for trepans

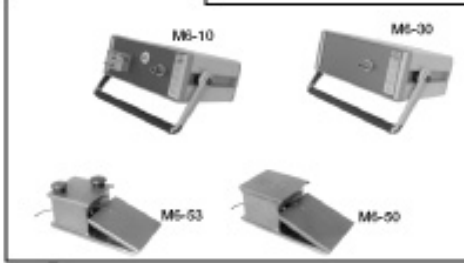
HUDSON başlık trepanlar için

**M8-476**

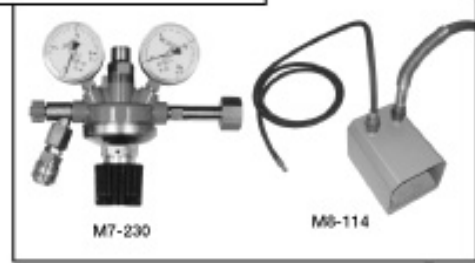
Spray nozzle with clamp

Klempli sprey başlığı

**Electro-Surgical
Motor Systems**



**Pneumatic-Surgical
Motor Systems**



Micro-Electro Surgery



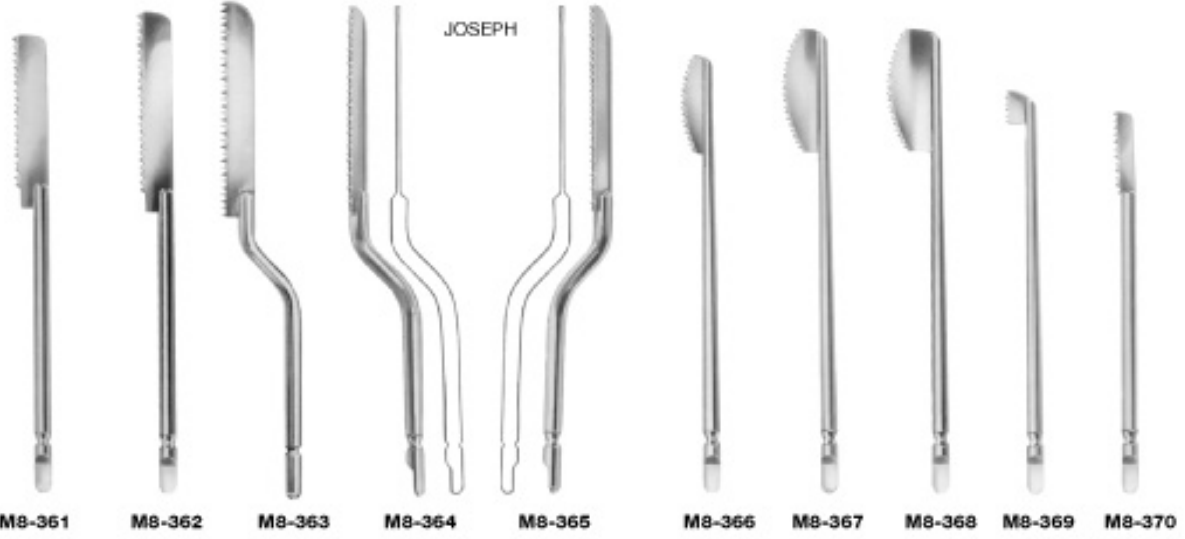
Micro-Air Surgery

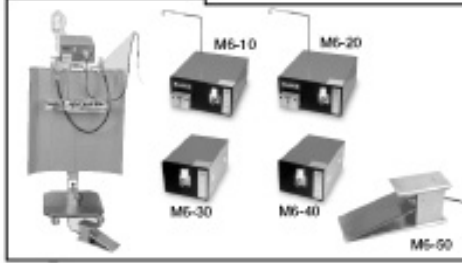
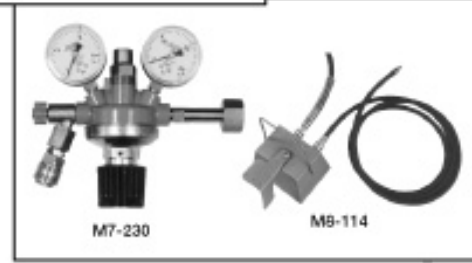


M8-360

Micro straight reciprocating saw
with key M8-376 for exchanging Saw blades.
Saw blades have to be ordered separately.

*Mikro düz vargel testere
Testere ağzlarını değiştirmek için
M8-376 anahtar ile
Testere ağzları ayrı olarak sipariş edilir.*



**Electro-Surgical
Motor Systems**

**Pneumatic-Surgical
Motor Systems**

Micro-Electro Surgery

Micro-Air Surgery

MB-940

Shaver Hand Piece
Variable suction control
Connecting to disposable and reusable tips
(the tips are ordered separately)

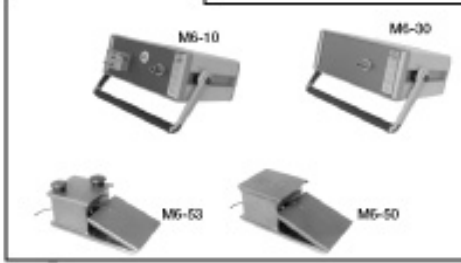
*Artroskopik şevir ana gövdesi
Değişken emiş kontrolü
Tek kullanımlık ve çok kullanımlık uçlara bağlantılı
(uçlar ayrı olarak sipariş edilir)*



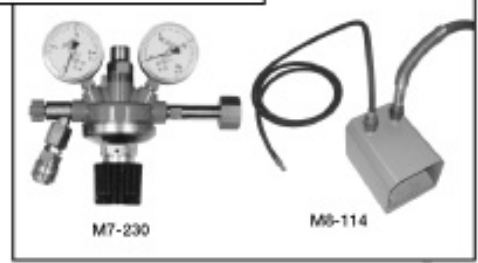
Round Burr	 M8-952 ø 3.0 mm
	 M8-953 ø 4.5 mm
Round Surface Burr	 M8-954 ø 6.0 mm
Conical Surface Burr	 M8-955 ø 6.0 mm
Acromionizer	 M8-956 ø 6.0 mm
Lateral Cutter	 M8-957 ø 2.5 mm
	 M8-958 ø 4.5 mm
Bilateral Cutter	 M8-959 ø 4.5 mm

Cartilage Trimmer	 M8-960 ø 4.5 mm
Full Radius Resector	 M8-961 ø 2.5 mm
	 M8-962 ø 4.5 mm
	 M8-963 ø 6.0 mm
Full Radius Toothed Resector	 M8-964 ø 2.5 mm
	 M8-965 ø 4.5 mm
	 M8-966 ø 6.0 mm
Ellipsoid Resector	 M8-967 ø 4.5 mm

**Electro-Surgical
Motor Systems**



**Pneumatic-Surgical
Motor Systems**



Micro-Electro Surgery



Micro-Air Surgery



M8-133

Micro oscillating saw
18.000 oscillations
For exchanging saw blades,
with keys M7-320
Saw blades have to be ordered separately.

*Titreşimle kesen mikro testere
18.000 titreşimli
Testere ağzlarını değiştirmek için
M7-320 anahtar ile
Testere ağzları ayrı olarak sipariş edilir.*



M7-320
Key / Anahtar



M8-501
Spray nozzle with clamp
Klempli spray başlığı

for M8-133 için



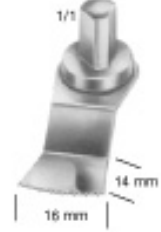
M8-134



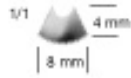
M8-135



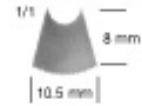
M8-136



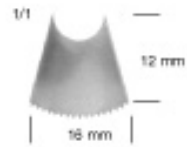
M8-137



M8-139

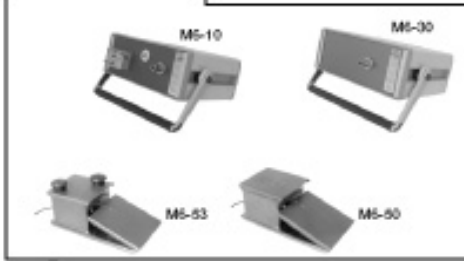


M8-140

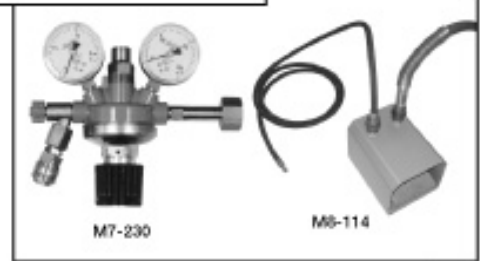


M8-141

**Electro-Surgical
Motor Systems**



**Pneumatic-Surgical
Motor Systems**



Micro-Electro Surgery



Micro-Air Surgery



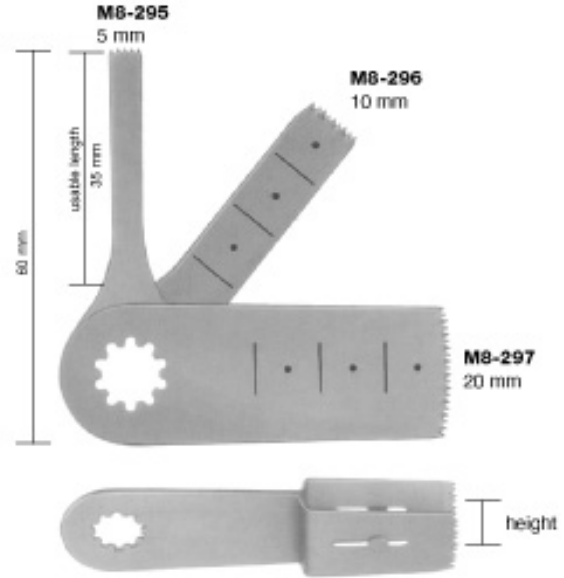
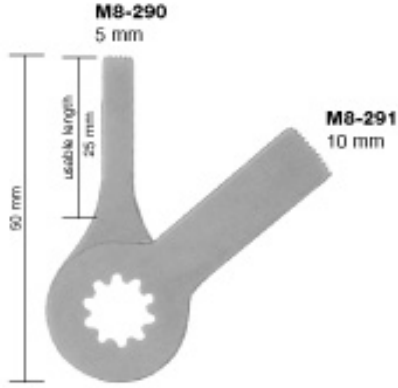
M8-275

Micro oscillating saw
with key M8-282 for exchanging
saw blades.
Saw blades have to be ordered separately

*Titreşimli mikro testere
Testere ağzlarını değiştirmek için
M8-282 anahtar ile
Testere ağzları ayrı olarak sipariş edilir.*

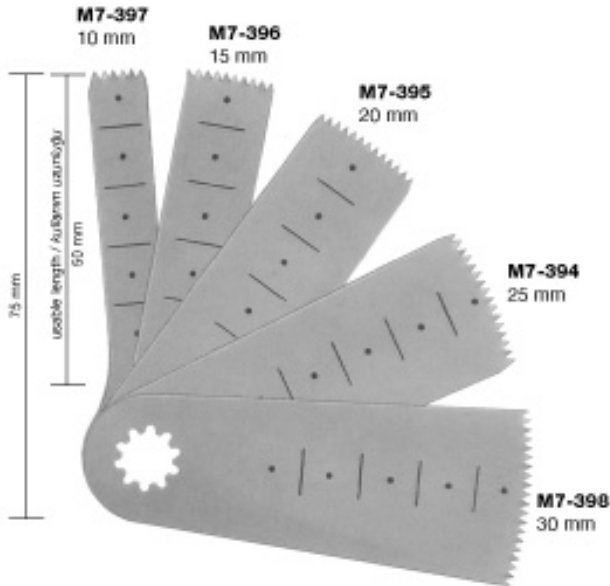


Spray nozzle with clamp
Klempli sprey başlığı

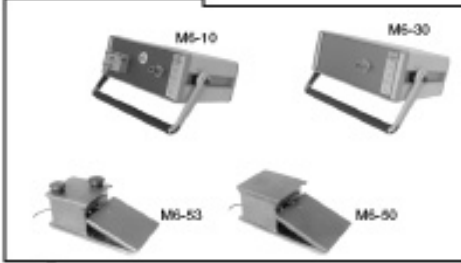


CASPAR

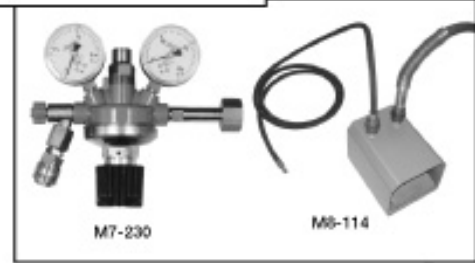
M8-313	6 mm	height
M8-314	7 mm	height
M8-315	8 mm	height
M8-316	9 mm	height
M8-317	10 mm	height
M8-318	11 mm	height
M8-319	12 mm	height



**Electro-Surgical
Motor Systems**



**Pneumatic-Surgical
Motor Systems**



Micro-Electro Surgery



Micro-Air Surgery



M8-720

Main piece with forward and reverse gear
Cannulated, Ø 2.5 mm
Without chuck,
Suitable for drilling
Thread cutting
Screwing-in and removing bone
Screws as well as for wire extension
up to 900 rpm
İleri geri çalışan ana gövde
Kanülü Ø 2.5 mm
Başlıksız
Delmeye uygun
Vida dişi açar
Vidalama yapar ve kemik çıkarır
900 rpm'ye kadar tel sürer
Vidalama yapar.



M7-670

Spray nozzle with clamp
Klempli sprey başlığı

**M7-680**

Attachment with small three - jaw chuck, with key, Ø 4 mm, exchangeable, use with M8-720
Ataçman, küçük üçlü çene başlığı ve anahtar ile, Ø 4 mm, değiştirilebilir, M8-720 ile kullanılır.

**M7-681**

Attachment with three - jaw chuck, with key, Ø 6.35 mm, exchangeable, use with M8-720
Ataçman, üçlü çene başlığı ve anahtar ile, Ø 6.35 mm, değiştirilebilir, M8-720 ile kullanılır.

**M7-682**

Adaptor for SQUARE shank, Adaptor SQUARE shaft için

**M7-683**

Adaptor for AO shank, Adaptor AO shaft için

**M7-684**

Adaptor for TRINKE shank, Adaptor TRINKE shaft için

**M7-685**

Adaptor for OSTEO shank, Adaptor OSTEO shaft için

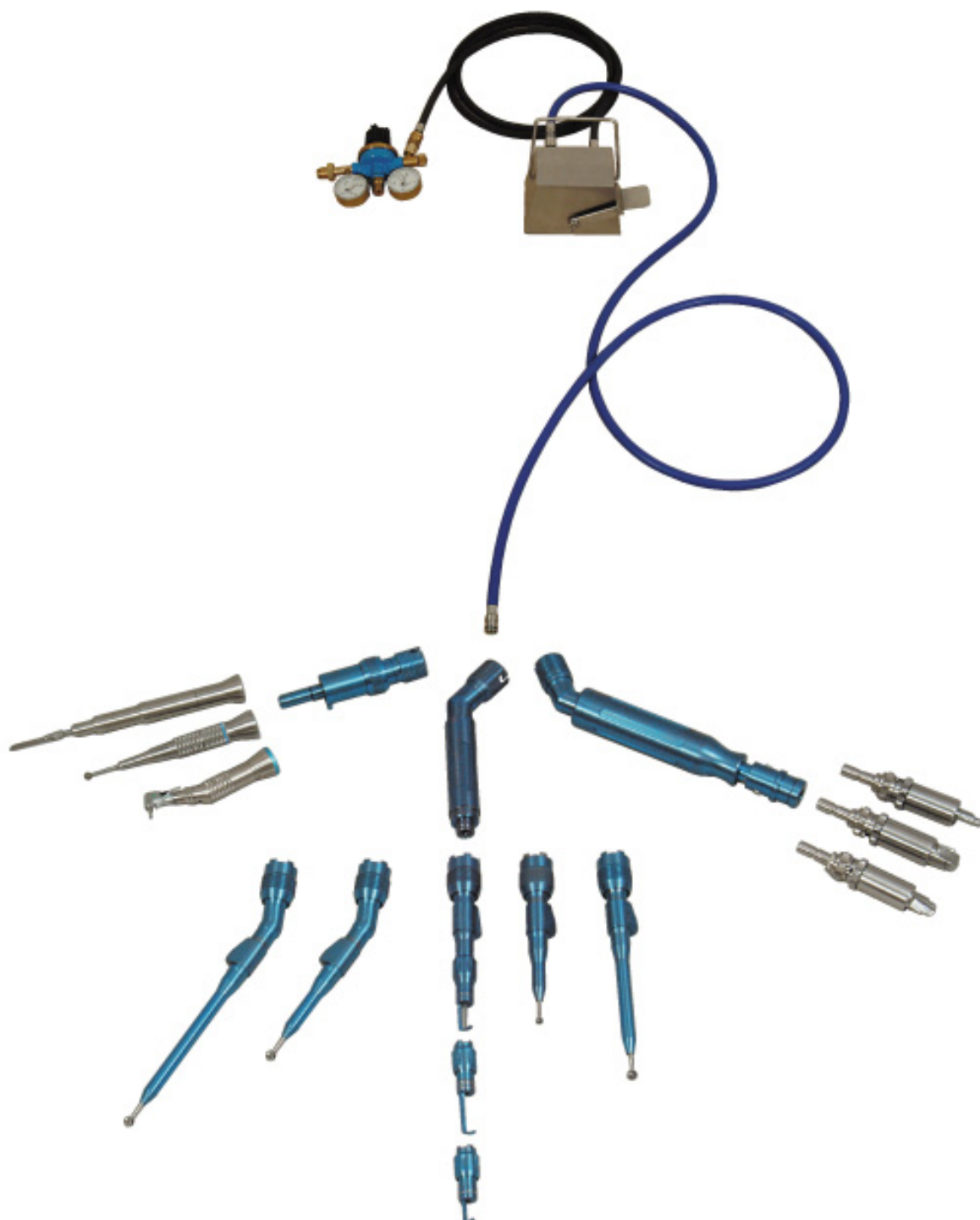
**M7-686**

Quick-action chuck for boring wires up to Ø 2.5 mm,
Use with M7-650
Hızlı işlem başlığı, Ø 2.5 mm'ye kadar teller için

**M8-720 , M7-686**

AYGÜN[®] TITANIUM NAP[®] system

Neuro Air Power



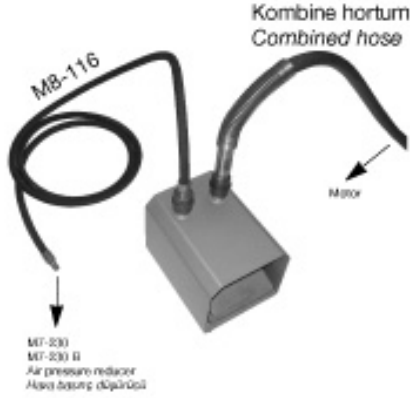


M7-230

Air pressure reducer, one way
Hava basınç düşürücü, tek çıkışlı

For security; the systems must be operated by using compressed dry air or nitrogen gas, the oxygen gas must never be used

Güvenlik için, sistemler basınçlı kuru hava veya azot gazı ile çalıştırılmalı, oksijen gazı kesinlikle kullanılmamalıdır.



M8-114

Foot control pedal, with M8-116 hose, without combine hose
Ayak kontrol pedalı, M8-116 hortum dahil, kombine hortum hariç



M9-167 3 m

M9-168 5 m

Combined hoses for air supply
Basınçlı hava için kombine hortumlar

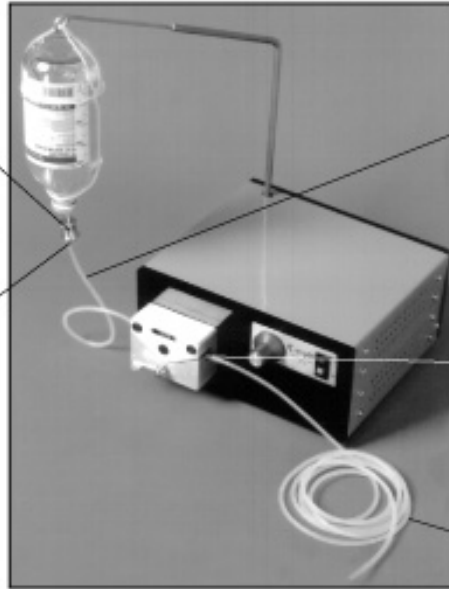
All MMS motors use the same hose and foot control, sterile change over at the operating table is possible.



M6-105
Punch for 500 ml
Solution bottles



M6-106
Punch for 1000 ml
Solution bottles



M6-129
M.A. Cooling Irrigation System, with M6-120
M.A. İrigasyon Soğutma Sistemi, M6-120 dahil
220V, 50 Hz, 0100ml/min.
260 x 230 x 120 mm



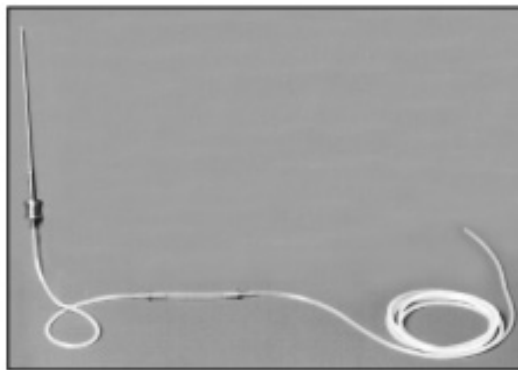
M6-107
Silicone tube, 1 pair
35 cm



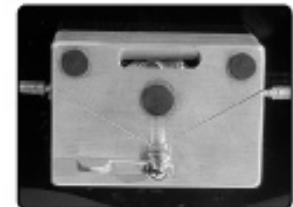
M6-109
Silicone tube,
10 cm



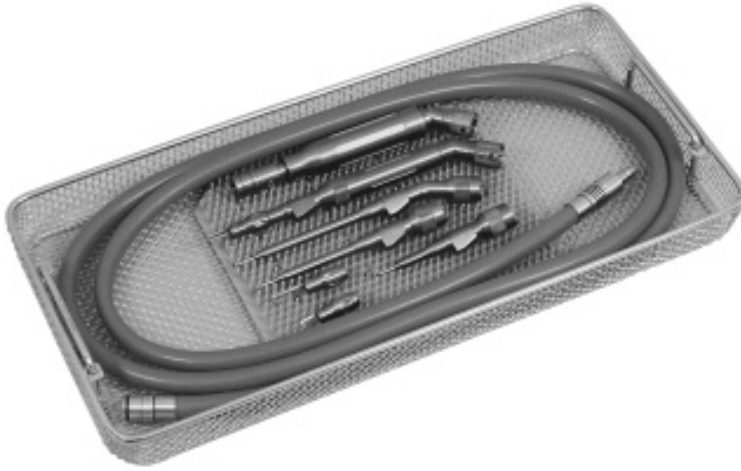
M6-112
Silicone tube,
240 cm



M6-120
Tubing Set
(M6-105, M6-107, M6-109, M6-112)



The lever is reversed to open and close the cooling pump.
Soğutma pompasını açıp kapatmak için kol tersine çevrilir.



M8-510

Spray oil, for motor and additional pcs before sterilization.

After cleaning of every use. Oil inside of all moving pcs of device by spraying method and run the device for 2-3 seconds. Practice spraying inside of the device until the black used oil comes out and new oil clearly appears out of device as clear color and then put the device in store or process sterilization.

Sprey yağı, sterilizasyon öncesi motor ve ilave parçalar için.

Her kullanım sonrası temizlik ardından, spreyleme yöntemiyle tüm hareketli parçaların iç kısmını 2-3 saniye süreyle yağlayın ve cihazı çalıştırın. Atık yağ temizlenip yeni spreylenen yağ temiz renkte görülünceye kadar işlemi sürdürün bu işlemin bitiminde cihazı depolayınız veya sterilizasyona tabi tutunuz.



M9-200

NAP Perforator Drive, Titanium.

Powerful at 6 bar (90 psi).

Used with M9-250, M9-251 and M9-252 trepans

NAP Perforator, Titanyum

(90 psi) 6 bar'da güçlüdür.

M9-250, M9-251 ve M9-252 trepanlar kullanılır.



M9-250 Ø 6 / 9 mm

M9-251 Ø 9 / 12 mm

M9-252 Ø 12 / 15 mm

* Skull trepans
* With step-down drilling
* Automatic cut-out
* No key needed
* Use with M9-200

*Kafa tası trepanları
Kademeli delici
Otomatik stoplu
Anahtarsız çıkarılır
M9-200 ile kullanılır*





M9-210

Pneumatic Motor, Titanium

75.000 rpm speed is at 6 bar (90 psi). It is possible to reach 90.000 rpm with 8 bar (120 psi).
Safety stop: Prevents irregular use during change of attachment or burr.
Optimum balance is obtained by angled, turnable hose connection.

Phomatik Motor, Titanyum

*(90 psi), 6 bar'da 75.000 rpm hız. (120 psi) 8 bar'da 90.000 rpm'ye ulaşmak mümkündür.
Emniyetli durdurma: ataçmanı veya tur ucunu değiştirirken uygunsuz kullanım önlenmiş olur.
Açık, dönebilen hortumla optimum balans elde edilir.*



M9-302

Craniotome, Titanium

Modular dura guide for paediatric, standard and extra long applications.
Keyless connection of hand piece, craniotome-burr, dura guide and motors.
Clear identification of burrs and dura guide by ring system (2 to 3 rings)

Kraniyotom, Titanyum

*Pediyatrik standart ve ekstra uzun uygulamalar için sağlam modüler gayd.
Kraniyotom, tur ucu gayd, motor, ana gövde bağlantısı anahtar olmadan yapılır.
Halka işaretleriyle oluşan tur uçları ve gayd tanımı: (1 - 3 halka)*



M9-305 Pediatric guide



M9-306 Standard guide



M9-307 Extra-long guide



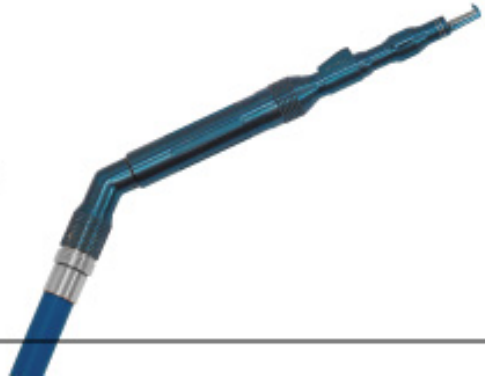
M9-311 for pediatric guide



M9-312 for standard guide



M9-313 for extra-long guide

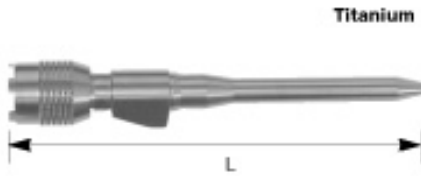




M9-210

Pneumatic Surgical Motor,
Working Pressure= 6-8 bar (90-120 psi)
Sterilization= 3 Atm, 143°C
Optimum balance is obtained by angled, turnable hose connection.

*Pnömatrik Cerrahi Motor,
Çalışma Basıncı= 6-8 bar (90-120 psi)
Sterilizasyon= 3 Atm, 143°C
Açılı, dönebilen hortumla optimum balans elde edilir.*

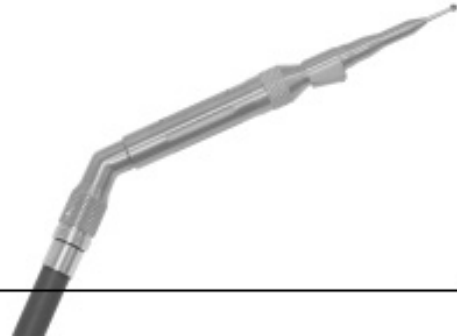


Titanium

A	M9-400	L= 95 mm
B	M9-401	L= 115 mm
C	M9-402	L= 135 mm
D	M9-403	L= 175 mm

	Ø	1.4	1.8	2.3	2.7	3.1	3.5	4.0	4.5	5.0	6.0	7.0
	L											
 ROSEN	A	M9-700	M9-701	M9-702	M9-703	M9-704	M9-705	M9-706	M9-707	M9-708	M9-709	M9-710
	B	M9-711	M9-712	M9-713	M9-714	M9-715	M9-716	M9-717	M9-718	M9-719	M9-720	M9-721
	C	M9-722	M9-723	M9-724	M9-725	M9-726	M9-727	M9-728	M9-729	M9-730	M9-731	M9-732
	D	M9-733	M9-734	M9-735	M9-736	M9-737	M9-738	M9-739	M9-740	M9-741	M9-742	M9-743
 DIAMOND	A	M9-744	M9-745	M9-746	M9-747	M9-748	M9-749	M9-750	M9-751	M9-752	M9-753	M9-754
	B	M9-755	M9-756	M9-757	M9-758	M9-759	M9-760	M9-761	M9-762	M9-763	M9-764	M9-765
	C	M9-766	M9-767	M9-768	M9-769	M9-770	M9-771	M9-772	M9-773	M9-774	M9-775	M9-776
	D	M9-777	M9-778	M9-779	M9-780	M9-781	M9-782	M9-783	M9-784	M9-785	M9-786	M9-787

			Ø 2 mm			Ø 5 mm Ø 7 mm			Ø 5 mm Ø 7 mm				
 LINDE MANN	A	M9-789	 DRILL	A	M9-1020	 CUTTERS	A	M9-1025	M9-1060	 CUTTERS	A	M9-1030	M9-1070
	B	M9-800		B	M9-1021		B	M9-1026	M9-1061		B	M9-1031	M9-1071
	C	M9-811		C	M9-1022		C	M9-1027	M9-1062		C	M9-1032	M9-1072
	D	M9-822		D	M9-1023		D	M9-1028	M9-1063		D	M9-1033	M9-1073





M9-210

Pneumatic Surgical Motor,
Working Pressure= 6-8 bar (90-120 psi)
Sterilization= 3 Atm, 143°C
Optimum balance is obtained by angled, turnable hose connection.

*Pnömatik Cerrahi Motor,
Çalışma Basıncı= 6-8 bar (90-120 psi)
Sterilizasyon= 3 Atm, 143°C
Açılı, dönebilen hortumla optimum balans elde edilir.*



Titanium

A	M9-410	L= 125 mm
B	M9-411	L= 145 mm
C	M9-412	L= 165 mm
D	M9-413	L= 240 mm
E	M9-414	L= 300 mm

	Ø	1.4	1.8	2.3	2.7	3.1	3.5	4.0	4.5	5.0	6.0	7.0
 ROSEN	A	M9-832	M9-833	M9-834	M9-835	M9-836	M9-837	M9-838	M9-839	M9-840	M9-841	M9-842
	B	M9-843	M9-844	M9-845	M9-846	M9-847	M9-848	M9-849	M9-850	M9-851	M9-852	M9-853
	C	M9-854	M9-855	M9-856	M9-857	M9-858	M9-859	M9-860	M9-861	M9-862	M9-863	M9-864
	D	M9-865	M9-866	M9-867	M9-868	M9-869	M9-870	M9-871	M9-872	M9-873	M9-874	M9-875
	E	M9-876	M9-877	M9-878	M9-879	M9-880	M9-881	M9-882	M9-883	M9-884	M9-885	M9-886
 DIAMOND	A	M9-887	M9-888	M9-889	M9-890	M9-891	M9-892	M9-893	M9-894	M9-895	M9-896	M9-897
	B	M9-898	M9-899	M9-900	M9-901	M9-902	M9-903	M9-904	M9-905	M9-906	M9-907	M9-908
	C	M9-909	M9-910	M9-911	M9-912	M9-913	M9-914	M9-915	M9-916	M9-917	M9-918	M9-919
	D	M9-920	M9-921	M9-922	M9-923	M9-924	M9-925	M9-926	M9-927	M9-928	M9-929	M9-930
	E	M9-931	M9-932	M9-933	M9-934	M9-935	M9-936	M9-937	M9-938	M9-939	M9-940	M9-941

 LINDEMANN	A	M9-943
	B	M9-954
	C	M9-965
	D	M9-976
	E	M9-987

 DRILL	A	M9-1000
	B	M9-1001
	C	M9-1002
	D	M9-1003
	E	M9-1004

 CUTTERS	A	M9-1005	M9-1040
	B	M9-1006	M9-1041
	C	M9-1007	M9-1042
	D	M9-1008	M9-1043
	E	M9-1009	M9-1044

 CUTTERS	A	M9-1010	M9-1050
	B	M9-1011	M9-1051
	C	M9-1012	M9-1052
	D	M9-1013	M9-1053
	E	M9-1014	M9-1054





M9-215

Pneumatic Motor, Titanium

* Small and light, maximum speed 30.000 rpm

* To drive all micro-intra-hand pieces (like straight, contra-angled or micro saws)

* Forward and reverse gear, safety stop

Pnömatik Motor, Titanyum

** Küçük ve hafif, maksimum hız 30.000 rpm*

** Tüm mikro-intra-ana gövdeler ile çalışır. (düz, ters açılı veya mikro testere gibi)*

** İleri geri vitesli, güvenli durma mekanizmalı*



			burs length
A	M8-201	L= 97 mm	70 mm
B	M8-202	L= 127 mm	95 mm
C	M8-203	L= 157 mm	125 mm

	Ø	1,4	1,8	2,3	2,7	3,1	3,5	4,0	4,5	5,0	6,0	7,0
 ROSEN	A	M8-800	M8-801	M8-802	M8-803	M8-804	M8-805	M8-806	M8-807	M8-808	M8-809	M8-810
	B	M8-811	M8-812	M8-813	M8-814	M8-815	M8-816	M8-817	M8-818	M8-819	M8-820	M8-821
	C	M8-822	M8-823	M8-824	M8-825	M8-826	M8-827	M8-828	M8-829	M8-830	M8-831	M8-832
 DIAMOND	A	M8-833	M8-834	M8-835	M8-836	M8-837	M8-838	M8-839	M8-840	M8-841	M8-842	M8-843
	B	M8-844	M8-845	M8-846	M8-847	M8-848	M8-849	M8-850	M8-851	M8-852	M8-853	M8-854
	C	M8-855	M8-856	M8-857	M8-858	M8-859	M8-860	M8-861	M8-862	M8-863	M8-864	M8-865
 LINDEMANN	A		M8-867									
	B		M8-878									
	C		M8-889									





M9-215

Pneumatic Motor, Titanium

* Small and light, maximum speed 30.000 rpm

* To drive all micro-intra-hand pieces (like straight, contra-angled or micro saws)

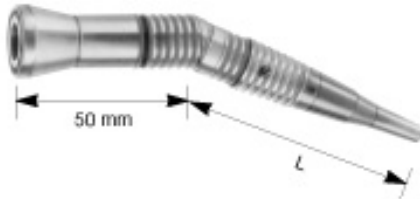
* Forward and reverse gear, safety stop

Pnömatik Motor, Titanyum

** Küçük ve hafif, maksimum hız 30.000 rpm*

** Tüm mikro-intra-ana gövdeler ile çalışır. (düz, ters açılı veya mikro testereleer gibi)*

** İleri geri vitesli, güvenli durma mekanizmalı*



			burs length
A	M8-210	L= 70 mm	70 mm
B	M8-211	L= 100 mm	95 mm
C	M8-212	L= 130 mm	125 mm

	Ø	1.4	1.8	2.3	2.7	3.1	3.5	4.0	4.5	5.0	6.0	7.0
ROSEN	A	M8-899	M8-900	M8-901	M8-902	M8-903	M8-904	M8-905	M8-906	M8-907	M8-908	M8-909
	B	M8-910	M8-911	M8-912	M8-913	M8-914	M8-915	M8-916	M8-917	M8-918	M8-919	M8-920
	C	M8-921	M8-922	M8-923	M8-924	M8-925	M8-926	M8-927	M8-928	M8-929	M8-930	M8-931
DIAMOND	A	M8-932	M8-933	M8-934	M8-935	M8-936	M8-937	M8-938	M8-939	M8-968	M8-969	M8-970
	B	M8-971	M8-971	M8-972	M8-973	M8-974	M8-975	M8-976	M8-978	M8-979	M8-980	M8-981
	C	M8-982	M8-983	M8-984	M8-985	M8-986	M8-987	M8-989	M8-990	M8-991	M8-992	M8-993
LINDEMANN	A		M8-994									
	B		M8-977									
	C		M8-988									





M9-215

Pneumatic Motor, Titanium

- * Small and light, maximum speed 30.000 rpm
- * To drive all micro-intra-hand pieces (like straight, contra-angled or micro Saws)
- * Forward and reverse gear, safety stop

Pnömatik Motor, Titanyum

- * Küçük ve hafif, maksimum hız 30.000 rpm
- * Tüm mikro-intra-ana gövdeler ile çalışır. (düz, ters açılı veya mikro testere gibi)
- * İleri-geri vitesli, güvenli durma mekanizmalı

M8-190

Micro straight reciprocating saw.

Without saw blades.

With spray nozzle M8-198

Oscillations per second: 160(at 20.000 rpm).

Height of stroke: 2 mm

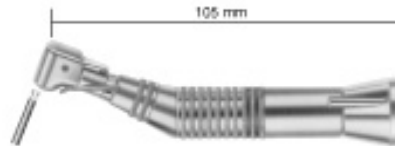
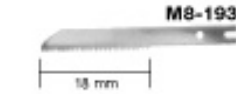
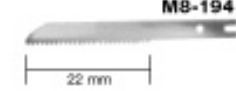
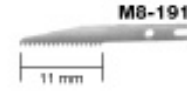
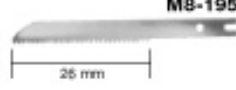
Mikro düz vargel testere..

Testere ağzları hariç.

M8-198 sprey hortum başlığı ile

Saniyedeki titreşim sayısı: 160 (20.000 rpm'de).

Vuruş mesafesi: 2 mm



M8-180

Angular head

Angle: 21°

Consisting of: M8-152 and M8-181

Açık başlık

Açı: 21°

Muhteviyatı: M8-152 ve M8-181



M8-181

Angle head with imperator bearing.

Transmission: 2:1

For burs and cutters

With quick-action "dental" shaft

İmperator, Açık başlık

Hareket nakli: 2:1

Tur uçları ve kesiciler için

hızlı değişim imkanı "Dental" şaftı



M8-182 Ø 1.6 mm



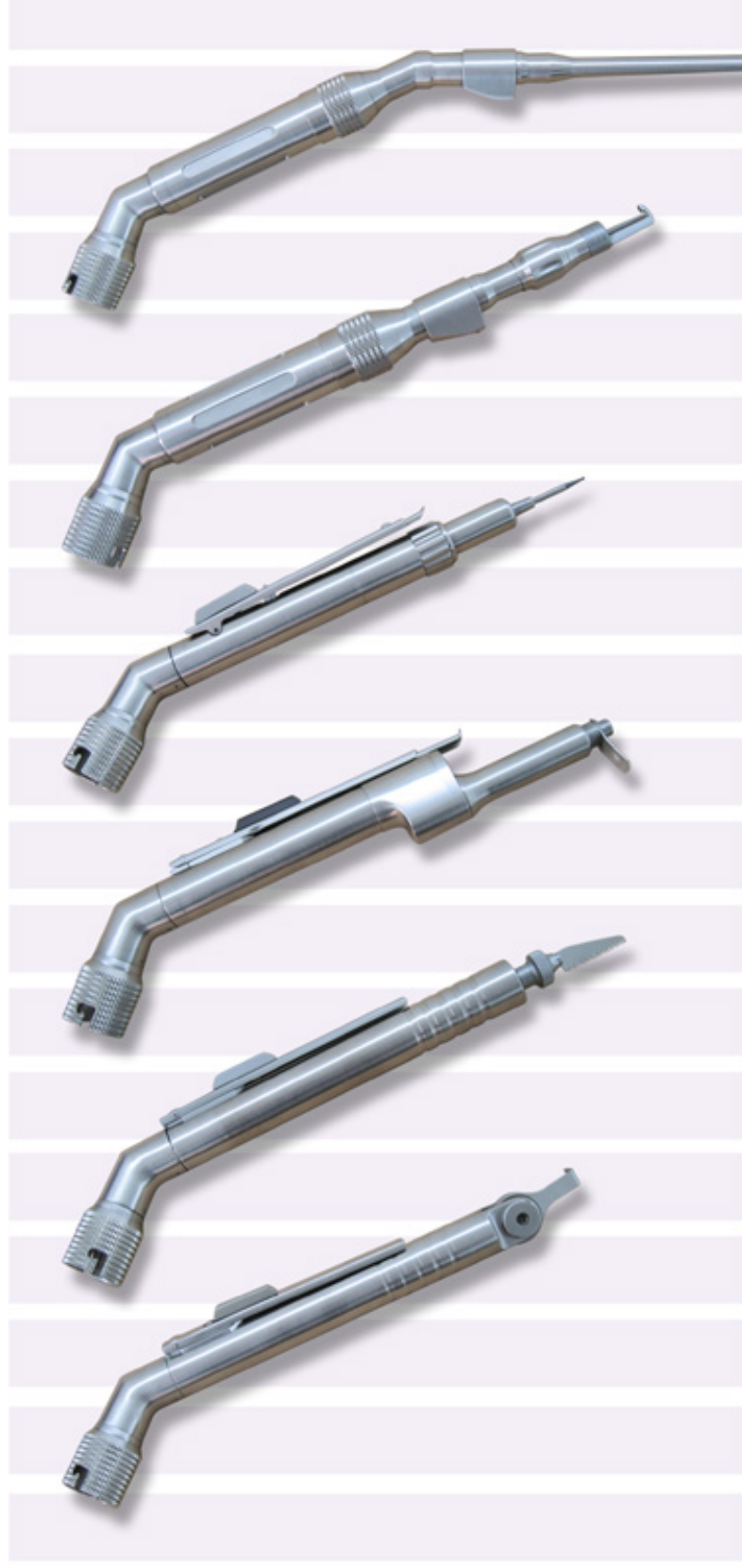
M8-183 Ø 2.5 mm



M8-184 Ø 3.1 mm

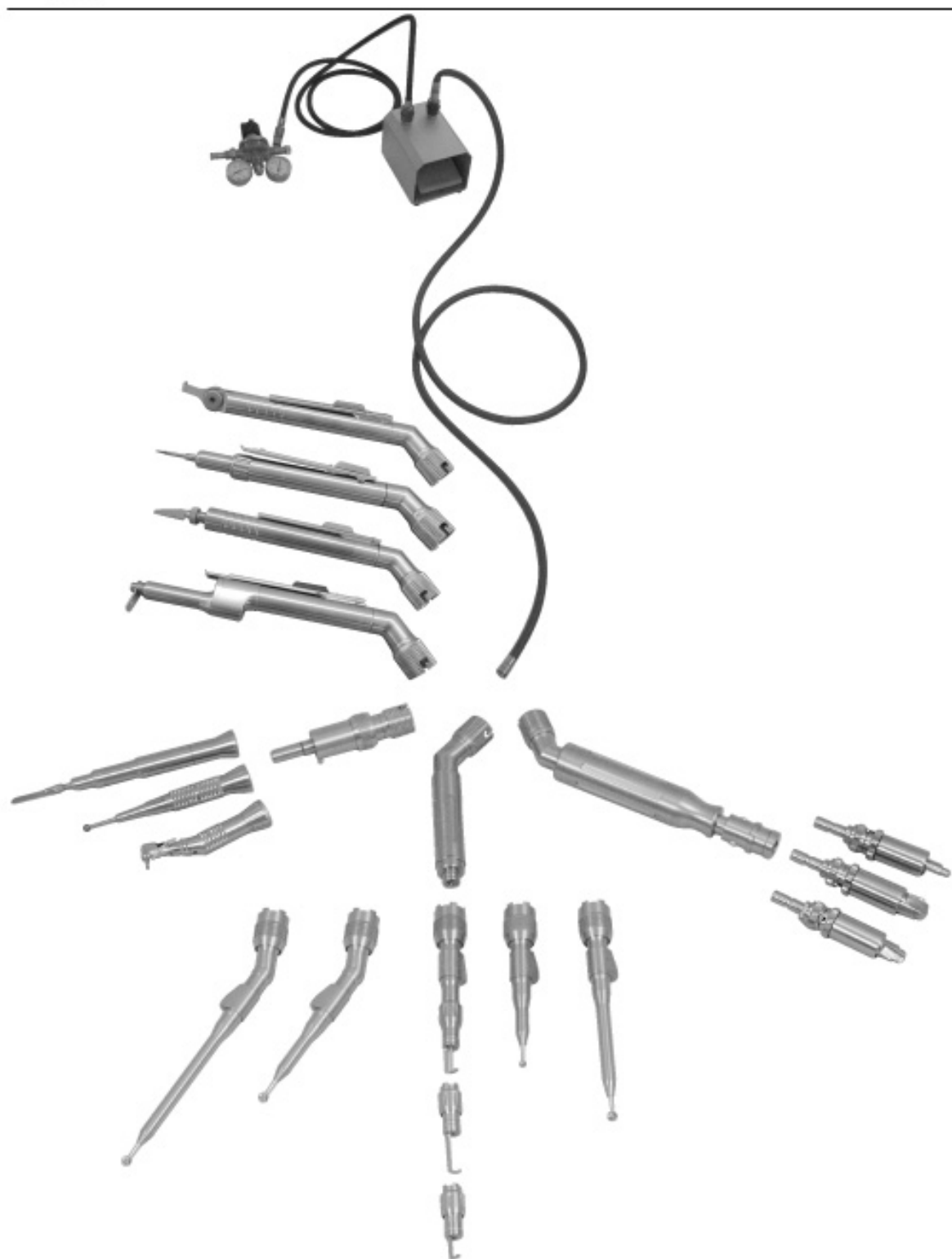


M8-185 Ø 4.0 mm



AYGÜN® PNEUMATIC & ELECTRO SURGICAL Micro Motor Systems **MMS**

AYGÜN[®] Micro Power MMS

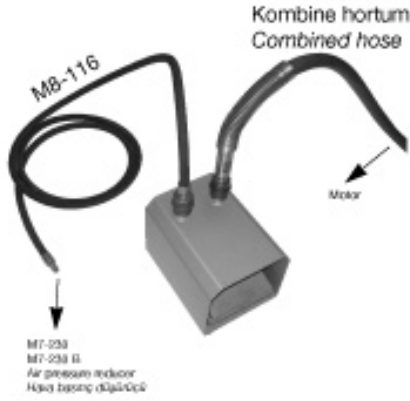




M7-230

Air pressure reducer, one way
Hava basınç düşürücü, tek çıkışlı

For security; the systems must be operated by using compressed dry air or nitrogen gas, the oxygen gas must never be used
Güvenlik için, sistemler basınçlı kuru hava veya azot gazı ile çalıştırılmalı, oksijen gazı kesinlikle kullanılmamalıdır.



M8-114

Foot control pedal, with M8-116 hose, without combine hose
Ayak kontrol pedalı, M8-116 hortum dahil, kombine hortum hariç



M9-167 3 m

M9-168 5 m

Combined hoses for air supply
Basınçlı hava için kombine hortumlar

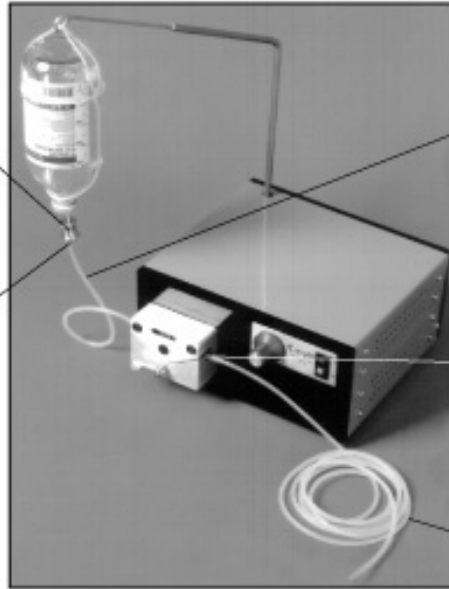
All MMS motors use the same hose and foot control, sterile change over at the operating table is possible.



M6-105
Punch for 500 ml
Solution bottles



M6-106
Punch for 1000 ml
Solution bottles



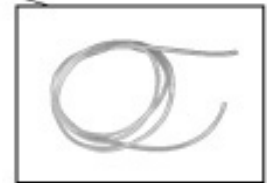
M6-129
M.A. Cooling Irrigation System, with M6-120
M.A. İrigasyon Soğutma Sistemi, M6-120 dahil
220V, 50 Hz, 0100ml/min.
260 x 230 x 120 mm



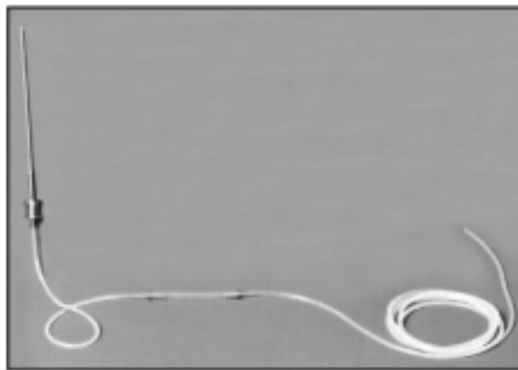
M6-107
Silicone tube, 1 pair
35 cm



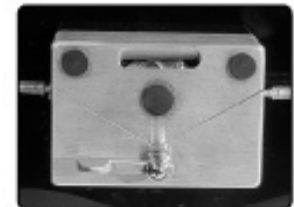
M6-109
Silicone tube,
10 cm



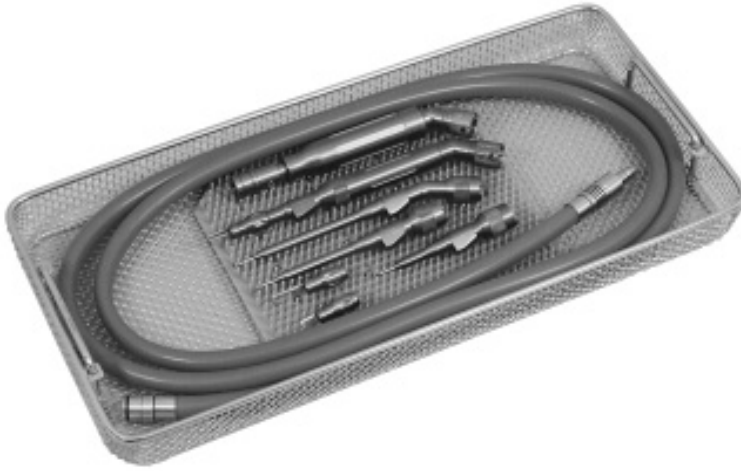
M6-112
Silicone tube,
240 cm



M6-120
Tubing Set
(M6-105, M6-107, M6-109, M6-112)



The lever is reversed to open and close the cooling pump.
Soğutma pompasını açıp kapatmak için kol tersine çevrilir.



M8-510

Spray oil, for motor and additional pcs before sterilization.

After cleaning of every use. Oil inside of all moving pcs of device by spraying method and run the device for 2-3 seconds. Practice spraying inside of the device until the black used oil comes out and new oil clearly appears out of device as clear color and then put the device in store or process sterilization.

Sprey yağı, sterilizasyon öncesi motor ve ilave parçalar için.

Her kullanım sonrası temizlik ardından, spreyleme yöntemiyle tüm hareketli parçaların iç kısmını 2-3 saniye süreyle yağlayın ve cihazı çalıştırın. Atık yağ temizlenip yeni spreylenen yağ temiz renkte görülünceye kadar işlemi sürdürün bu işlemin bitiminde cihazı depolayınız veya sterilizasyona tabi tutunuz.



M7-230
Air pressure reducer, one way
Hava basıncı düşürücü, tek çıkışlı

For security, the systems must be operated by using compressed dry air or nitrogen gas, the oxygen gas must never be used.
Güvenlik için, sistemler basıncı kuru hava veya azot gazı ile çalıştırılmalı, oksijen gazı kesinlikle kullanılmamalıdır.



M9-107 3 m
M9-108 5 m
Combined hoses for air supply
Basıncı hava için kombine hortumlar

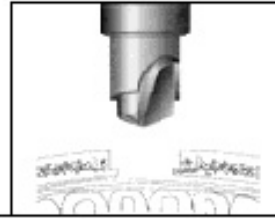


M8-114
Foot control pedal, with M8-110 hose,
without combine hose
Ayak kontrol pedalı, M8-110 hortum dahil,
kombine hortum hariç



M12-200
MMS Perforator Drive,
Powerful at 6 bar (90 psi).
Used with M9-250, M9-251 and M9-252 trepans

MMS Perforator,
(90 psi) 6 bar'da güçlüdür.
M9-250, M9-251 ve M9-252 trepanlar kullanılır.



M9-250 Ø 6 / 9 mm
M9-251 Ø 9 / 12 mm
M9-252 Ø 12 / 15 mm

- * Skull trepans
- * With step-down drilling
- * Automatic cut-out
- * No key needed
- * Use with M9-200

Kafa tıraş trepanları
Kademeli delici
Otomatik stoplu
Anahtarsız çalışır
M9-200 ile kullanılır





M7-230

Air pressure reducer, one way
Hava basınç düşürücü, tek yönlü

For security; the systems must be operated by using compressed dry air or nitrogen gas, the oxygen gas must never be used
Güvenlik için, sistemler basınçlı kuru hava veya azot gazı ile çalıştırılmalı, oksijen gazı kesinlikle kullanılmamalıdır.



M9-167 3 m

M9-168 5 m

Combined hoses for air supply
Basınçlı hava için kombine hortumlar



M8-114

Foot control pedal, with M8-116 hose, without combine hose
Ayak kontrol pedalı, M8-116 hortum dahil, kombine hortum hariç



M12-210

Pneumatic Surgical Motor,
Working Pressure= 6-8 bar (90-120 psi)
Sterilization= 3 Atm. 143°C
Optimum balance is obtained by angled, turnable hose connection.

Pnömatik Cerrahi Motor,
Çalışma Basıncı= 6-8 bar (90-120 psi)
Sterilizasyon= 3 Atm, 143°C
Açık, dönebilen hortumla optimum balans elde edilir.



M12-302

Craniotome,
Modular dura guide for paediatric, standard and extra long applications.
Keyless connection of hand piece, craniotome-burr, dura guide and motors.
Clear identification of burrs and dura guide by ring system (2 to 3 rings)

Kraniyotom,
Pediyatrik standart ve ekstra uzun uygulamalar için sağlam modüler gayd.
Kraniyotom, tur ucu gayd, motor, ana gövde bağlantısı anahtar olmadan yapılır.
Halka işaretlemesiyle oluşan tur uçları ve gayd tanımı: (1 - 3 halka)



M12-305 Pediatric guide



M12-306 Standard guide



M12-307 Extra-long guide



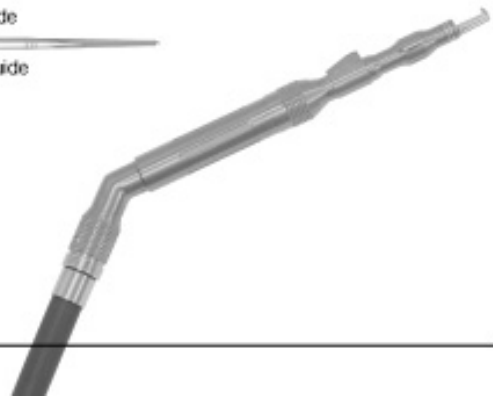
M9-311 for pediatric guide



M9-312 for standard guide



M9-313 for extra-long guide





M12-210

Pneumatic Surgical Motor,

Working Pressure= 6-8 bar (90-120 psi)

Sterilization= 3 Atm, 143°C

Optimum balance is obtained by angled, turnable hose connection.

Pnömatik Cerrahi Motor,

Çalışma Basıncı= 6-8 bar (90-120 psi)

Sterilizasyon= 3 Atm, 143°C

Açık, dönebilen hortumla optimum balans elde edilir.



Attachment / Ateşman

A	M12-400	L= 95 mm
B	M12-401	L= 115 mm
C	M12-402	L= 135 mm
D	M12-403	L= 175 mm

	Ø	1.4	1.8	2.3	2.7	3.1	3.5	4.0	4.5	5.0	6.0	7.0
	A	M9-700	M9-701	M9-702	M9-703	M9-704	M9-705	M9-706	M9-707	M9-708	M9-709	M9-710
	B	M9-711	M9-712	M9-713	M9-714	M9-715	M9-716	M9-717	M9-718	M9-719	M9-720	M9-721
	C	M9-722	M9-723	M9-724	M9-725	M9-726	M9-727	M9-728	M9-729	M9-730	M9-731	M9-732
	D	M9-733	M9-734	M9-735	M9-736	M9-737	M9-738	M9-739	M9-740	M9-741	M9-742	M9-743
	A	M9-744	M9-745	M9-746	M9-747	M9-748	M9-749	M9-750	M9-751	M9-752	M9-753	M9-754
	B	M9-755	M9-756	M9-757	M9-758	M9-759	M9-760	M9-761	M9-762	M9-763	M9-764	M9-765
	C	M9-766	M9-767	M9-768	M9-769	M9-770	M9-771	M9-772	M9-773	M9-774	M9-775	M9-776
	D	M9-777	M9-778	M9-779	M9-780	M9-781	M9-782	M9-783	M9-784	M9-785	M9-786	M9-787

		Ø 2 mm	Ø 5 mm	Ø 7 mm	Ø 5 mm	Ø 7 mm
	A	M9-789		A	M9-1025	M9-1060
	B	M9-800		B	M9-1026	M9-1061
	C	M9-811		C	M9-1027	M9-1062
	D	M9-822		D	M9-1028	M9-1063
	A	M9-1020		A	M9-1030	M9-1070
	B	M9-1021		B	M9-1031	M9-1071
	C	M9-1022		C	M9-1032	M9-1072
	D	M9-1023		D	M9-1033	M9-1073



M7-230

Air pressure reducer, one way
Hava basıncı düşürücü, tek yönlü

For security, the systems must be operated by using compressed dry air or nitrogen gas, the oxygen gas must never be used.
Güvenlik için, sistemler basıncı kuru hava veya azot gazı ile çalıştırılmalı, oksijen gazı kesinlikle kullanılmamalıdır.



M9-167 3 m

M9-168 5 m

Combined hoses for air supply
Basıncı hava için kombine hortumlar



M8-114

Foot control pedal, with M8-116 hose,
without combine hose.
Ayak kontrol pedalı, M8-116 hortum dahil,
kombine hortum hariç





M12-210

Pneumatic Surgical Motor,
Working Pressure= 6-8 bar (90-120 psi)
Sterilization= 3 Atm. 143°C
Optimum balance is obtained by angled, turnable hose connection.

Pnömatik Cerrahi Motor,
Çalışma Basıncı= 6-8 bar (90-120 psi)
Sterilizasyon= 3 Atm, 143°C
Açık, dönebilen hortumla optimum balans elde edilir.



Attachment / Ataçman

A	M12-410	L= 125 mm
B	M12-411	L= 145 mm
C	M12-412	L= 185 mm
D	M12-413	L= 240 mm
E	M12-414	L= 300 mm

Ø		1.4	1.8	2.3	2.7	3.1	3.5	4.0	4.5	5.0	6.0	7.0
L												
	A	M9-832	M9-833	M9-834	M9-835	M9-836	M9-837	M9-838	M9-839	M9-840	M9-841	M9-842
	B	M9-843	M9-844	M9-845	M9-846	M9-847	M9-848	M9-849	M9-850	M9-851	M9-852	M9-853
	C	M9-854	M9-855	M9-856	M9-857	M9-858	M9-859	M9-860	M9-861	M9-862	M9-863	M9-864
	D	M9-865	M9-866	M9-867	M9-868	M9-869	M9-870	M9-871	M9-872	M9-873	M9-874	M9-875
	E	M9-876	M9-877	M9-878	M9-879	M9-880	M9-881	M9-882	M9-883	M9-884	M9-885	M9-886
	A	M9-887	M9-888	M9-889	M9-890	M9-891	M9-892	M9-893	M9-894	M9-895	M9-896	M9-897
	B	M9-898	M9-899	M9-900	M9-901	M9-902	M9-903	M9-904	M9-905	M9-906	M9-907	M9-908
	C	M9-909	M9-910	M9-911	M9-912	M9-913	M9-914	M9-915	M9-916	M9-917	M9-918	M9-919
	D	M9-920	M9-921	M9-922	M9-923	M9-924	M9-925	M9-926	M9-927	M9-928	M9-929	M9-930
	E	M9-931	M9-932	M9-933	M9-934	M9-935	M9-936	M9-937	M9-938	M9-939	M9-940	M9-941

			Ø 2 mm			Ø 5 mm			Ø 7 mm			Ø 5 mm			Ø 7 mm		
	A	M9-943		A	M9-1000		A	M9-1005	M9-1040		A	M9-1010	M9-1050				
	B	M9-954		B	M9-1001		B	M9-1006	M9-1041		B	M9-1011	M9-1051				
	C	M9-965		C	M9-1002		C	M9-1007	M9-1042		C	M9-1012	M9-1052				
	D	M9-976		D	M9-1003		D	M9-1008	M9-1043		D	M9-1013	M9-1053				
	E	M9-987		E	M9-1004		E	M9-1009	M9-1044		E	M9-1014	M9-1054				
LINDEWANN			DRILL			CUTTERS			CUTTERS			CUTTERS			CUTTERS		



M7-230

Air pressure reducer, one way
Hava basıncı düşürücü, tek yönlü

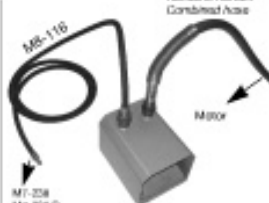
For security, the systems must be operated by
using compressed dry air or nitrogen gas, the
oxygen gas must never be used.
Güvenlik için, sistemler basıncı kuru hava veya
azot gazı ile çalıştırılmalı, oksijen gazı kesinlikle kullanılmamalıdır.



M9-167 3 m

M9-168 5 m

Combined hoses for air supply
Basıncı hava için kombine hortumlar



M8-116

M8-115

Air pressure indicator
Hava basıncı ölçücü

M8-114

Foot control pedal, with M8-115 hose,
without combine hose
Ayak kontrol/pedali, M8-115 hortum dâhil,
kombine hortum hariç





MH 2-215

Pneumatic Motor,

* Small and light, maximum speed 30.000 rpm

* To drive all micro-intra-hand pieces (like straight, contra-angled or micro saws)

* Forward and reverse gear, safety stop

Pnömatik Motor,

* Küçük ve hafif, maksimum hız 30.000 rpm

* Tüm mikro-intra-ana gövdeler ile çalışır.

(düz, ters açılı veya mikro testereleciler gibi)

* İleri geri vitesi, güvenli durma mekanizması



Intra Main Piece / Piyasadan

			Burr's length
A	M8-201	L= 97 mm	70 mm
B	M8-202	L= 127 mm	95 mm
C	M8-203	L= 157 mm	125 mm

	Ø	L	1.4	1.8	2.3	2.7	3.1	3.5	4.0	4.5	5.0	6.0	7.0
 ROSEN	A	M8-800	M8-801	M8-802	M8-803	M8-804	M8-805	M8-806	M8-807	M8-808	M8-809	M8-810	
	B	M8-811	M8-812	M8-813	M8-814	M8-815	M8-816	M8-817	M8-818	M8-819	M8-820	M8-821	
	C	M8-822	M8-823	M8-824	M8-825	M8-826	M8-827	M8-828	M8-829	M8-830	M8-831	M8-832	
 DIAMOND	A	M8-833	M8-834	M8-835	M8-836	M8-837	M8-838	M8-839	M8-840	M8-841	M8-842	M8-843	
	B	M8-844	M8-845	M8-846	M8-847	M8-848	M8-849	M8-850	M8-851	M8-852	M8-853	M8-854	
	C	M8-855	M8-856	M8-857	M8-858	M8-859	M8-860	M8-861	M8-862	M8-863	M8-864	M8-865	
 LINDEMANN	A		M8-867										
	B		M8-878										
	C		M8-889										



M7-230

Air pressure reducer, one way
Hava basıncı düşürücü, tek yönlü

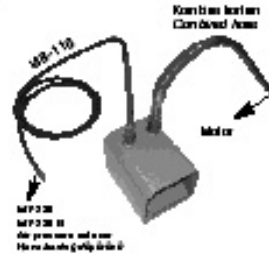
For security, the systems must be operated by
using compressed dry air or nitrogen gas, the
oxygen gas must never be used.
Güvenlik için, sistemler basıncı kuru hava veya
azot gazı ile çalıştırılmalı, oksijen gazı kesinlikle kullanılmamalıdır.



M9-107 2 m

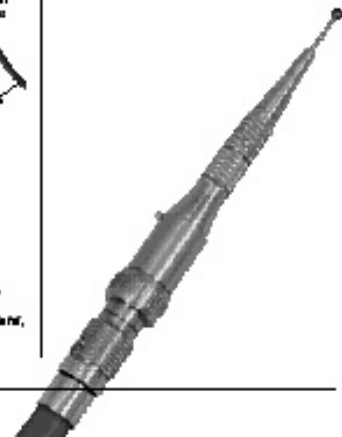
M9-105 5 m

Combined hoses for air supply
Basıncı hava için kombine hortumlar



M8-114

Foot control pedal, with M8-116 hose,
without combine hose
Ayak kontrol pedalı, M8-116 hortum dahil,
kombine hortum hariç





MH 2-215

Pneumatic Motor,

* Small and light, maximum speed 30.000 rpm

* To drive all micro-intra-hand pieces (like straight, contra-angled or micro saws)

* Forward and reverse gear, safety stop

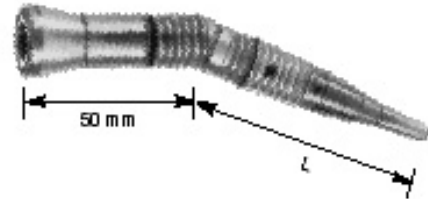
Pnömatik Motor,

* Küçük ve hafif, maksimum hız 30.000 rpm

* Tüm mikro-intra-ana gövdeler ile çalışır.

(düz, ters açı ve mikro testere gibi)

* İleri geri vitesli, güvenli durma mekanizmalı



Intra Main Piece / Piyasetan

			burs length
A	M8-210	L= 70 mm	70 mm
B	M8-211	L= 100 mm	95 mm
C	M8-212	L= 130 mm	125 mm

	Ø	L	1.4	1.8	2.3	2.7	3.1	3.5	4.0	4.5	5.0	6.0	7.0
 ROSEN	A	M8-899	M8-900	M8-901	M8-902	M8-903	M8-904	M8-905	M8-906	M8-907	M8-908	M8-909	
	B	M8-910	M8-911	M8-912	M8-913	M8-914	M8-915	M8-916	M8-917	M8-918	M8-919	M8-920	
	C	M8-921	M8-922	M8-923	M8-924	M8-925	M8-926	M8-927	M8-928	M8-929	M8-930	M8-931	
 DIAMOND	A	M8-932	M8-933	M8-934	M8-935	M8-936	M8-937	M8-938	M8-939	M8-968	M8-969	M8-970	
	B	M8-971	M8-971	M8-972	M8-973	M8-974	M8-975	M8-976	M8-978	M8-979	M8-980	M8-981	
	C	M8-982	M8-983	M8-984	M8-985	M8-986	M8-987	M8-989	M8-990	M8-991	M8-992	M8-993	
 LINDEMANN	A		M8-994										
	B		M8-977										
	C		M8-988										



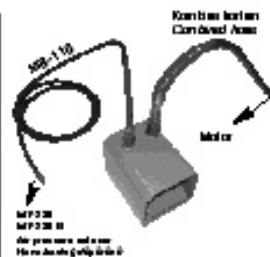
M7-230

Air pressure reducer, one way
Hava basıncı düşürücü, tek yönlü

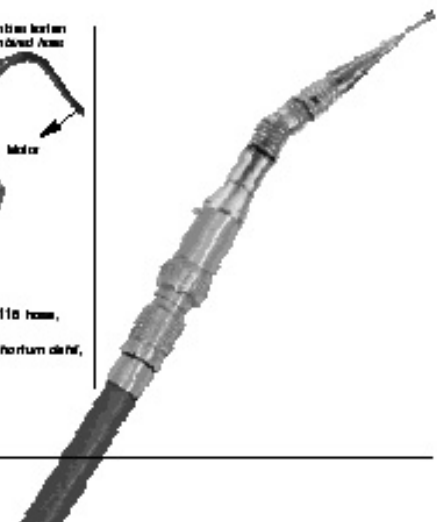
For security, the systems must be operated by using compressed dry air or nitrogen gas, the oxygen gas must never be used
Güvenlik için, sistemler basıncı kuru hava veya azot gazı ile çalıştırılmalı, oksijen gazı kesinlikle kullanılmamalıdır.



M9-107 3 m
M9-108 5 m
Combined hoses for air supply
Basıncı kuru hava için kombine hortumlar



M9-114
Foot control pedal, with M9-116 hose, without combine hose
Ayak kontrol pedal, M9-116 hortum ile, kombine hortum hariç



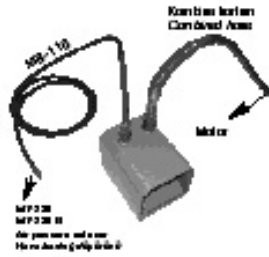


MT-230
Air pressure reducer; one way
Hava basıncı düşürücü, tek geçişli

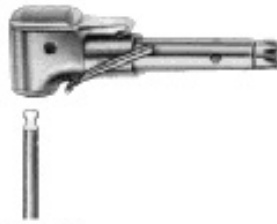
For security, the systems must be operated by using compressed dry air or nitrogen gas, the oxygen gas must never be used.
Güvenlik için, sistemler basınçlı kuru hava veya azot gazı ile çalıştırılmalı, oksijen gazı kesinlikle kullanılmamalıdır.



MS-105 2 m
MS-108 5 m
Combined hoses for air supply
Basınçlı hava için kombinasyon hortumları



MS-114
Foot control pedal, with MS-118 hose,
without combine hose
Ayak kontrol pedalı, MS-118 hortum ile,
kombinasyon hortum hariç



MS-181
Angle head with imperial bearing.
Transmission: 2:1
For burrs and cutters
With quick-action "denial" shaft

Imperial, Açılı başlık
Hareket nakli: 2:1
Tutucular ve kesiciler için
hızlı değişim imkanı "Denial" şaftı

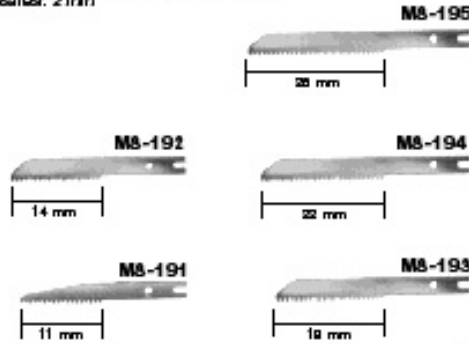


MH-2-215
Pneumatic Motor,
* Small and light, maximum speed 30.000 rpm
* To drive all micro-intra-hand pieces
(like straight, contra-angled or micro Saws)
* Forward and reverse gear, safety stop

Pnömatik Motor,
* Küçük ve hafif, maksimum hız 30.000 rpm
* Tüm mikro-intra-ana gövdeler ile çalışır.
(düz, ters açılı veya mikro testeler gibi)
* İleri-geri vitessli, güvenli durma mekanizmalı

MS-100
Micro straight reciprocating saw
Without saw blades.
With spray nozzle MS-108
Oscillations per second: 100 (at 20.000 rpm).
Height of stroke: 2 mm

Mikro düz vargel testere.
Testere ağızları hariç.
MS-108 spray hortum başlığı ile
Sanjideki titreşim sayısı: 100 (20.000 rpm'de).
Uçuş mesafesi: 2 mm

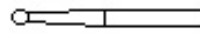


MS-180
Angular head
Angle: 21°
Consisting of: MS-152 and MS-181

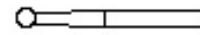
Açılı başlık
Açı: 21°
Muhteviyat: MS-152 ve MS-181



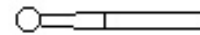
MS-182 Ø 1.8 mm



MS-183 Ø 2.5 mm

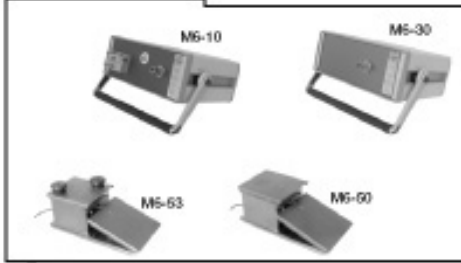


MS-184 Ø 3.1 mm

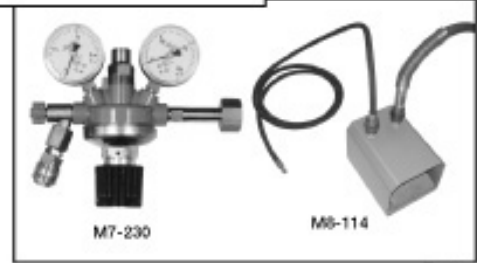


MS-185 Ø 4.0 mm

**Electro-Surgical
Motor Systems**



**Pneumatic-Surgical
Motor Systems**



Micro-Electro Surgery



Code	Illustration 1:1	Usable Length (mm)	Width (mm)
M8-1120		10	13.4
M8-1121		9	13.0
M8-1122		15	5.0
M8-1123		20	5.0
M8-1124		20	12.0
M8-1125		20	16.0
M8-1126		25	5.0
M8-1127		20	12.0

Micro-Air Surgery





M7-230

Air pressure reducer, one way
Hava basınç düşürücü, tek yönlü

For security; the systems must be operated by using compressed dry air or nitrogen gas, the oxygen gas must never be used

Güvenlik için, sistemler basınçlı kuru hava veya azot gazı ile çalıştırılmalı, oksijen gazı kesinlikle kullanılmamalıdır.



M9-167 3 m

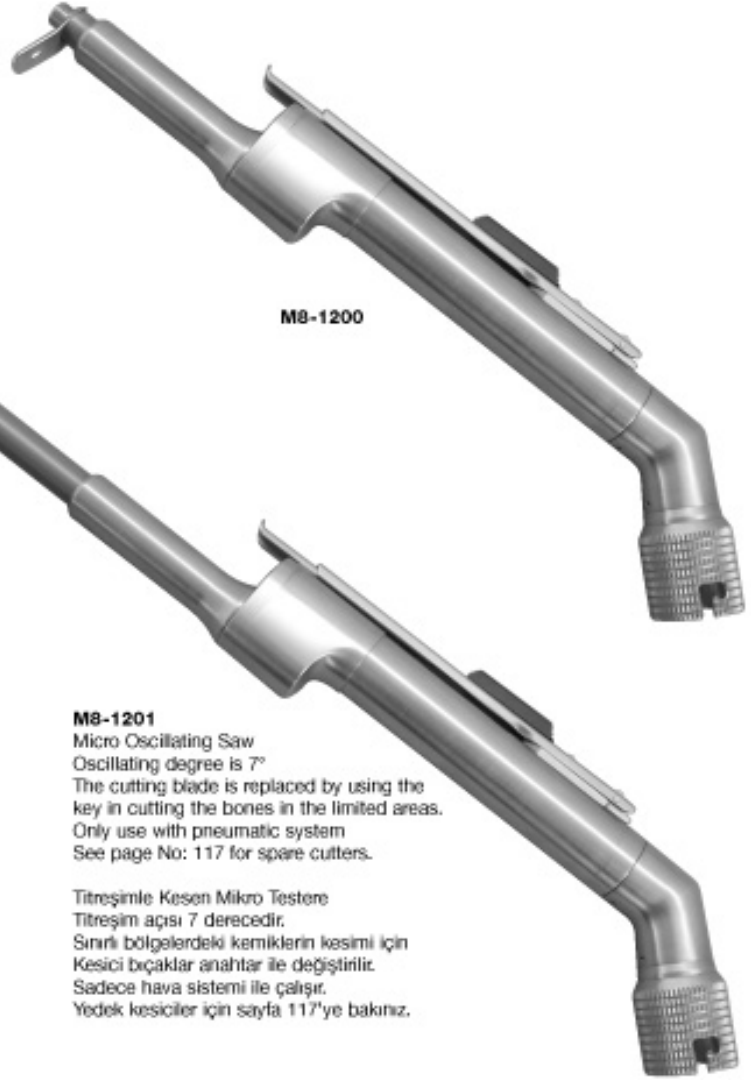
M9-168 5 m

Combined hoses for air supply
Basınçlı hava için kombine hortumlar



MD-114

Foot control pedal, with M8-116 hose,
without combine hose
Ayak kontrol pedalı, M8-116 hortum dahil,
kombine hortum hariç



M8-1200

M8-1201

Micro Oscillating Saw

Oscillating degree is 7°

The cutting blade is replaced by using the key in cutting the bones in the limited areas.

Only use with pneumatic system

See page No: 117 for spare cutters.

Titreşimle Kesen Mikro Testere

Titreşim açısı 7 derecedir.

Sınırlı bölgelerdeki kemiklerin kesimi için

Kesici bıçaklar anahtar ile değiştirilir.

Sadece hava sistemi ile çalışır.

Yedek kesiciler için sayfa 117'ye bakınız.

1/1 size





M7-230

Air pressure reducer, one way
Hava basınç düşürücü, tek yönlü

For security; the systems must be operated by using compressed dry air or nitrogen gas, the oxygen gas must never be used.
Güvenlik için, sistemler basınçlı kuru hava veya azot gazı ile çalıştırılmak, oksijen gazı kesinlikle kullanılmamalıdır.



M9-167 3 m

M9-168 5 m

Combined hoses for air supply
Basınçlı hava için kombine hortumlar



M8-114

Foot control pedal, with M8-116 hose, without combined hose.
Ayak kontrol pedalı, M8-116 hortum dahil, kombine hortum hariç



M8-1300

Micro Sagittal Saw

It is used in deep cutting the bones and other small bones in the mandibular and maxillofacial surgery.

The cutting blade is replaced by key

Only use with pneumatic system

See page No: 119 for spare cutters.

Titreşimle Kesen Mikro Testere

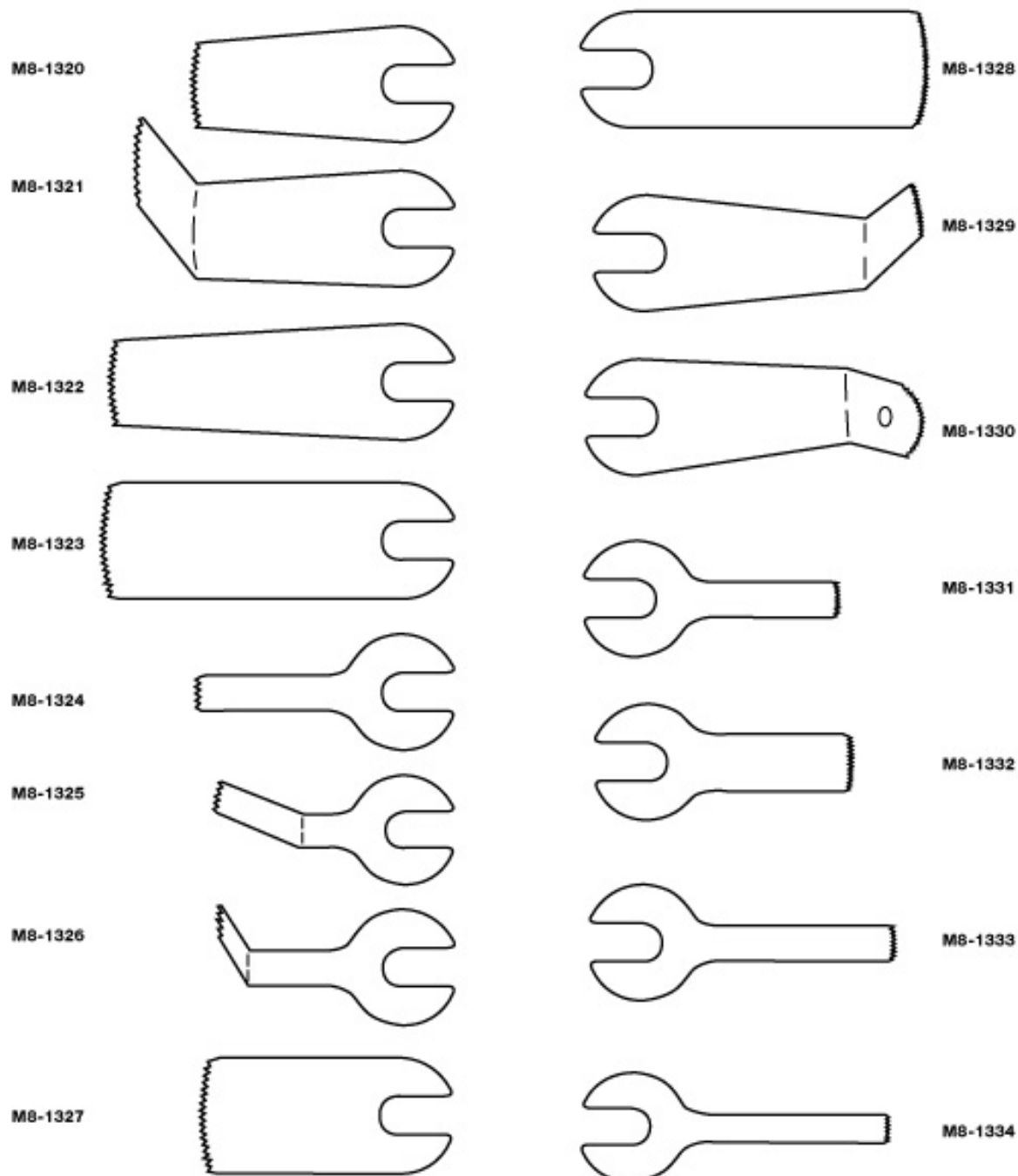
Ağız ve yüz cerrahisinde derin kemik kesimi ile diğer küçük kemikler için

Kesici bıçaklar anahtar ile değiştirilir.

Sadece hava sistemi ile çalışır.

Yedek kesiciler için sayfa 119'a bakınız.

1/1 size





M7-230

Air pressure reducer, one way
Hava basınç düşürücü, tek yönlü

For security, the systems must be operated by using compressed dry air or nitrogen gas, the oxygen gas must never be used.
Güvenlik için, sistemler basınçlı kuru hava veya azot gazı ile çalıştırılmalı, oksijen gazı kesinlikle kullanılmamalıdır.



M9-167 3 m

M9-168 5 m

Combined hoses for air supply
Basınçlı hava için kombine hortumlar



M8-114

Foot control pedal, with M8-116 hose,
without combine hose
Ayak kontrol pedalı, M8-116 hortum dahil,
kombine hortum hariç



M8-1400

Straight Reciprocating Saw

It is used in deep cutting the bones and other small bones in the mandibular and maxillofacial surgery.

No need for key to replace the blades.
Only use with pneumatic system.
See page No: 121 for spare cutters.

Mikro Düz Vargel Testere

Ağız ve yüz cerrahisinde derin kemik kesimi ile diğer küçük kemikler için
Anahtar gerekmez
Sadece hava sistemi ile çalışır.
Yedek kesiciler için sayfa 121'e bakınız.

1/1 size

M8-1420



M8-1421



M8-1422



M8-1423



M8-1424



M8-1425



M8-1426



M8-1427



M8-1428



M8-1429



M8-1430



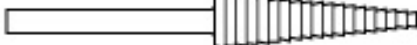
M8-1431



M8-1432



M8-1433



**M7-230**

Air pressure reducer, one way
Hava basınç düşürücü, tek yönlü

For security, the systems must be operated by using compressed dry air or nitrogen gas, the oxygen gas must never be used.
Güvenlik için, sistemler basınçlı kuru hava veya azot gazı ile çalıştırılmalı, oksijen gazı kesinlikle kullanılmamalıdır.



M9-167 3 m

M9-168 5 m

Combined hoses for air supply
Basınçlı hava için kombine hortumlar

**M8-114**

Foot control pedal, with M8-116 hose,
without combine hose
Ayak kontrol pedalı, M8-116 hortum dahil,
kombine hortum hariç

**M8-1500**

Micro Drill

Micro drill has a full range, variable-speed control from 500 to 20.000 rpm.

No key is needed

Only use with pneumatic system

See page 123 for spare cutter.

500 ile 20.000 rpm arası hız kontrollü

Hava ile çalışan mikro tur

Anahtar gerekmez.

Sadece hava ile çalışır.

Yedek kesici uçlar için sayfa 123'e bakınız.



ROSEN
Stainless steel

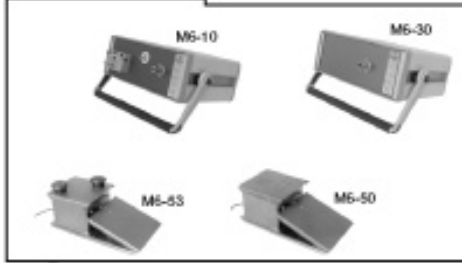


DIAMOND



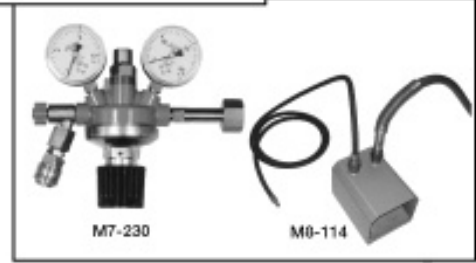
HIGH SPEED
Tungsten

											
 ROSEN	M8-1520	M8-1521	M8-1522	M8-1523	M8-1524	M8-1525	M8-1526	M8-1527	M8-1528	M8-1529	M8-1530
 DIAMOND	M8-1550	M8-1551	M8-1552	M8-1553	M8-1554	M8-1555	M8-1556	M8-1557	M8-1558	M8-1559	M8-1560
 HIGH SPEED	M8-1570	M8-1571	M8-1572	M8-1573	M8-1574	M8-1575	M8-1576	M8-1577	M8-1578	M8-1579	M8-1580

**Electro-Surgical
Motor Systems**

Micro-Electro Surgery

M12-300

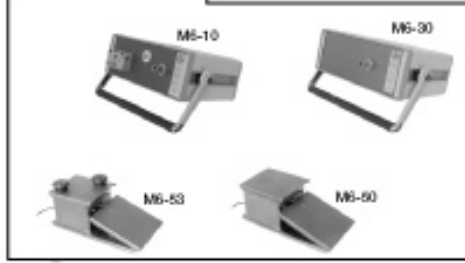
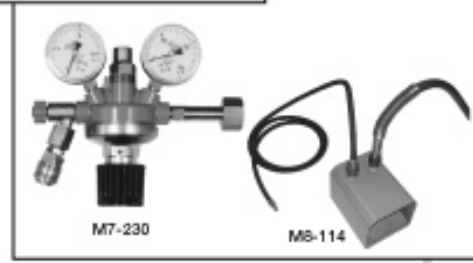
Micro Drill
Micro drill has a full range, variable-speed
control from 500 to 20.000 rpm.
No key is needed
Only use with pneumatic system
See page 123 for spare cutters

**Pneumatic-Surgical
Motor Systems**

Micro-Air Surgery

M12-300

Mikro tur
500 ile 20.000 rpm arası hız kontrollü
Anahtar gerekmez.
Sadece hava ile çalışır.
Yedek kesici uçlar için sayfa 123'e bakınız.



Electro-Surgical
Motor SystemsPneumatic-Surgical
Motor Systems

Micro-Electro Surgery

**M12-360**

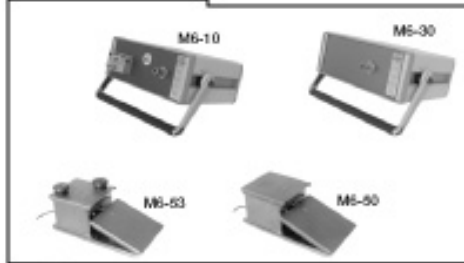
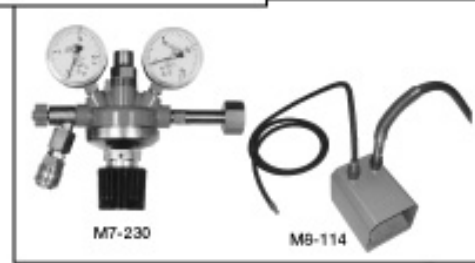
Micro oscillating saw
Oscillating degree is 7°
The cutting blade is replaced by using the
key in cutting the bones in the limited areas.
Only use with pneumatic system
See page No: 117 for spare cutters

Micro-Air Surgery

**M12-360**

Titreşimli Kesen Mikro Testere
Titreşim açısı 7 derecedir.
Sınırlı bölgelerdeki kemiklerin kesimi için
Kesici bıçaklar anahtar ile değiştirilir.
Sadece hava sistemi ile çalışır.
Yedek kesiciler için sayfa 117'ye bakınız.



**Electro-Surgical
Motor Systems**

**Pneumatic-Surgical
Motor Systems**

Micro-Electro Surgery


M6-65 180 cm

Micro-Air Surgery
M8-110 300 cm
M8-111 500 cm

M8-102

M8-103

M12-380

Micro sagittal saw

It is used in deep cutting the bones and other small bones in the mandibular and maxillofacial surgery.

The cutting blade is replaced by key

Only use with pneumatic system

See page No: 119 for spare cutters.


M12-380

Titreşimle Kesen Mikro Testere

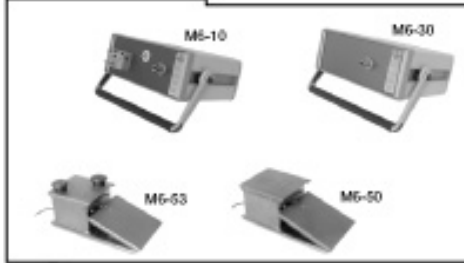
Ağız ve yüz cerrahisinde derin kemik kesimi ile diğer küçük kemikler için

Kesici bıçaklar anahtar ile değiştirilir.

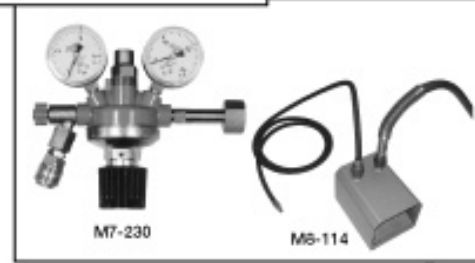
Sadece hava sistemi ile çalışır.

Yedek kesiciler için sayfa 119'a bakınız.

**Electro-Surgical
Motor Systems**



**Pneumatic-Surgical
Motor Systems**



Micro-Electro Surgery



M12-423

Straight Reciprocating saw
It is used in deep cutting the bones and
other small bones in the mandibular and
maxillofacial surgery.
No need for key to replace the blades
Only use with pneumatic system 1
See page No: 121 for spare cutters.

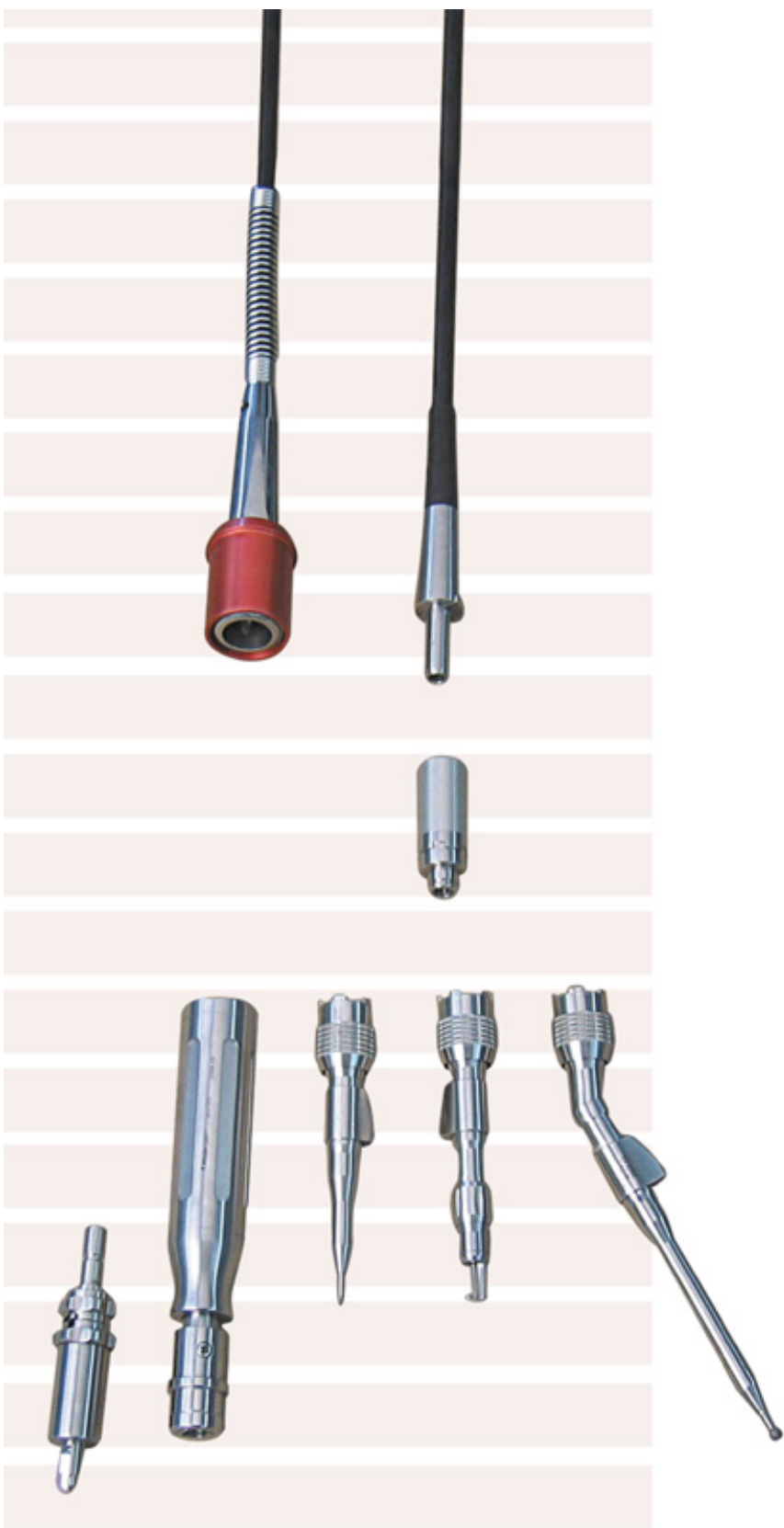


M12-423

Mikro Düz Vargel Testere
Ağız ve yüz cerrahisinde derin kemik kesimi
ile diğer küçük kemikler için
Anahtar gerekmez
Sadece hava sistemi ile çalışır.
Yedek kesiciler için sayfa 121'e bakınız.

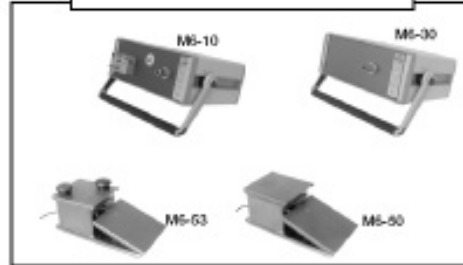
Micro-Air Surgery





AYGÜN® **P2** micro - electro motor **systeM**

Electro-Surgical Motor Systems



Micro-Electro Surgery



M12-201
MMS Perforator Drive,
Used with M9-250, M9-251 and M9-252 trepans

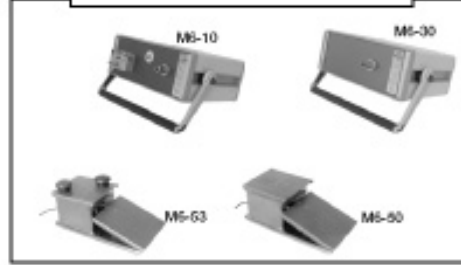
MMS Perforator,
M9-250, M9-251 ve M9-252 trepanlar kullanılır.



M9-250 Ø 6 / 9 mm
M9-251 Ø 9 / 12 mm
M9-252 Ø 12 / 15 mm

* Skull trepan
* With step-down drilling
* Automatic cut-out
* No key needed
* Use with M12-201

Kafa tası trepanları
Kademeli delici
Otomatik stoplu
Anahtarsız çalışır
M12-201 ile kullanılır

**Electro-Surgical
Motor Systems**

Micro-Electro Surgery

M12-302

Craniotome,
Modular dura guide for paediatric, standard and extra long applications.
Keyless connection of hand piece, craniotome-burr, dura guide and motors.

*Kraniyotom,
Pediatrik standart ve ekstra uzun uygulamalar için modüler gayd.
Kraniyotom, tur ucu gayd, motor, ana gövde bağlantısı anahtar olmadan yapılır.*



M12-305
Pediatric guide



M12-306
Standard guide



M12-307
Extra-long guide



M9-311 for pediatric guide

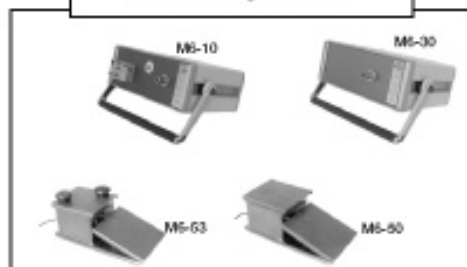


M9-312 for standard guide



M9-313 for extra-long guide

Electro-Surgical Motor Systems



Attachment / Ataçman

A	M12-400	L= 95 mm
B	M12-401	L= 115 mm
C	M12-402	L= 135 mm
D	M12-403	L= 175 mm

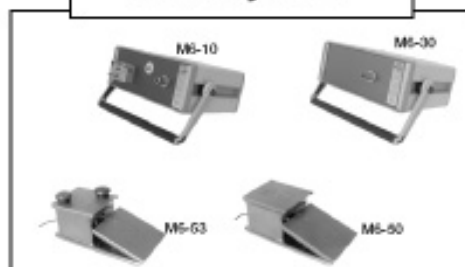
Micro-Electro Surgery



												
	L	1.4	1.8	2.3	2.7	3.1	3.5	4.0	4.5	5.0	6.0	7.0
 ROSEN	A	M9-700	M9-701	M9-702	M9-703	M9-704	M9-705	M9-706	M9-707	M9-708	M9-709	M9-710
	B	M9-711	M9-712	M9-713	M9-714	M9-715	M9-716	M9-717	M9-718	M9-719	M9-720	M9-721
	C	M9-722	M9-723	M9-724	M9-725	M9-726	M9-727	M9-728	M9-729	M9-730	M9-731	M9-732
	D	M9-733	M9-734	M9-735	M9-736	M9-737	M9-738	M9-739	M9-740	M9-741	M9-742	M9-743
 DIAMOND	A	M9-744	M9-745	M9-746	M9-747	M9-748	M9-749	M9-750	M9-751	M9-752	M9-753	M9-754
	B	M9-755	M9-756	M9-757	M9-758	M9-759	M9-760	M9-761	M9-762	M9-763	M9-764	M9-765
	C	M9-766	M9-767	M9-768	M9-769	M9-770	M9-771	M9-772	M9-773	M9-774	M9-775	M9-776
	D	M9-777	M9-778	M9-779	M9-780	M9-781	M9-782	M9-783	M9-784	M9-785	M9-786	M9-787

			Ø 2 mm		Ø 5 mm Ø 7 mm		Ø 5 mm Ø 7 mm						
 LINDEMANN	A	M9-789	 DRILL	A	M9-1020	 CUTTERS	A	M9-1025	M9-1060	 CUTTERS	A	M9-1030	M9-1070
	B	M9-800		B	M9-1021		B	M9-1026	M9-1061		B	M9-1031	M9-1071
	C	M9-811		C	M9-1022		C	M9-1027	M9-1062		C	M9-1032	M9-1072
	D	M9-822		D	M9-1023		D	M9-1028	M9-1063		D	M9-1033	M9-1073

Electro-Surgical Motor Systems



Attachment / Ataçman

A	M12-410	L= 125 mm
B	M12-411	L= 145 mm
C	M12-412	L= 185 mm
D	M12-413	L= 240 mm
E	M12-414	L= 300 mm

Micro-Electro Surgery

M6-65
180 cm
Cable
M6-69
Adaptor



	Ø											
L		1.4	1.8	2.3	2.7	3.1	3.5	4.0	4.5	5.0	6.0	7.0
 ROSEN	A	M9-832	M9-833	M9-834	M9-835	M9-836	M9-837	M9-838	M9-839	M9-840	M9-841	M9-842
	B	M9-843	M9-844	M9-845	M9-846	M9-847	M9-848	M9-849	M9-850	M9-851	M9-852	M9-853
	C	M9-854	M9-855	M9-856	M9-857	M9-858	M9-859	M9-860	M9-861	M9-862	M9-863	M9-864
	D	M9-865	M9-866	M9-867	M9-868	M9-869	M9-870	M9-871	M9-872	M9-873	M9-874	M9-875
	E	M9-876	M9-877	M9-878	M9-879	M9-880	M9-881	M9-882	M9-883	M9-884	M9-885	M9-886
 DIAMOND	A	M9-887	M9-888	M9-889	M9-890	M9-891	M9-892	M9-893	M9-894	M9-895	M9-896	M9-897
	B	M9-898	M9-899	M9-900	M9-901	M9-902	M9-903	M9-904	M9-905	M9-906	M9-907	M9-908
	C	M9-909	M9-910	M9-911	M9-912	M9-913	M9-914	M9-915	M9-916	M9-917	M9-918	M9-919
	D	M9-920	M9-921	M9-922	M9-923	M9-924	M9-925	M9-926	M9-927	M9-928	M9-929	M9-930
	E	M9-931	M9-932	M9-933	M9-934	M9-935	M9-936	M9-937	M9-938	M9-939	M9-940	M9-941

			Ø 2 mm		Ø 5 mm Ø 7 mm		Ø 5 mm Ø 7 mm						
 LINDEMANN	A	M9-943	 DRILL	A	M9-1000	 CUTTERS	A	M9-1005	M9-1040	 CUTTERS	A	M9-1010	M9-1050
	B	M9-954		B	M9-1001		B	M9-1006	M9-1041		B	M9-1011	M9-1051
	C	M9-965		C	M9-1002		C	M9-1007	M9-1042		C	M9-1012	M9-1052
	D	M9-976		D	M9-1003		D	M9-1008	M9-1043		D	M9-1013	M9-1053
	E	M9-987		E	M9-1004		E	M9-1009	M9-1044		E	M9-1014	M9-1054