

DENTAL



mrc

**DENT-900S****DENT-900S, Steam Cleaner**

Manual filling Operative pressure 5 Bar with control through working pressure switch Display of pressure in tank through manometer

- Mobile spray gun with low voltage command and flow delivery regulation
- Safety devices: Double pressure switch and mechanical safety valve
- Control of minimum water level in tank with resistance deactivation and low water level warning light Stainless steel boiler (filling when empty 3.3 Lt, next fillings 2.2 Lt). Stainless steel joinery. Wall installation possibility.

**DENT-907
Water Softener****DENT-902, Steam+Water Cleaner**

Water supply direct connection Operative pressure 6 Bar with control through working pressure switch Display of pressure in tank through manometer

- Water or steam function with mobile spray gun with flow delivery regulation Water or steam flow command on low voltage spray gun Safety devices: Double pressure switch and mechanical safety valve Control of minimum water level in tank with resistance deactivation and low water level warning light Stainless steel boiler 4 Lt. capacity. Stainless steel joinery. Wall installation possibility.

**DENT-902****DENT-903, Steam+Water Cleaner**

Water supply direct connection Operative pressure selection from 2 to 8 Bar through CPU with display of existing pressure in tank. Fixed nozzle steam function. Mobile spray gun water, steam or water/steam mix with flow delivery regulation. Low voltage foot control. Safety devices: manual relay pressure switch & mechanical safety valve. Control of minimum and maximum water levels

in boiler. Pump correct performance control with resistance deactivation and signalling on display. Stainless steel boiler 4 Lt. capacity. Stainless steel joinery. Cock for purified water collection. Wall installation possibility.

**DENT-903**

Model	DENT-900S	DENT-902	DENT-903
Fluid	Steam only	Steam+Water	
Filling	Manual	Water Supply	
Absorbed power	2000W	2200W	
Pressure	4.5bar	6bar	8bar
Boiler capacity	4 lt		
Boiler material	Stainless steel		
Available programs	230V 50/60Hz		
Dimensions (WxDxH)	220x300x500mm	460x320x360mm	560x310x360mm
Weight	10kg	15kg	18kg



QUASAR-2/4/8, Hertz Vibrators

The QUASAR Vibrators are powerful and reliable tools which guarantee a considerable power changeable by means of an electronic circuit. The change of intensity of the vibration is obtained by rotating the knob located on the front panel. They are built and assembled in accordance with the safety rules (protection fuse, standard schuko plug, green light switch). They are supplied with a rubber removable plane, which can be easily removed to ease the cleaning process which can also be done with steam, thanks to the high termic and mechanical resistance of the materials. These vibrators are noise-free and guarantee a high steadiness by means of a perfect vertical movement and thanks to the four little hold fast feet which allow a perfect adhesion to any type of surface.

Model	QUASAR-2	QUASAR-4	QUASAR-8
Power supply	230 V – 50/60 Hz		
Power	170W		300W
Fuses	2A		
Work plane	140x160mm	150x230mm	240x340mm
Dimensions (WxDxH)	140x160x95mm	150x230x95mm	240x340x115mm
Weight	3.5kg	4.5kg	6.5kg



AMP-8000 SERIES, Dental Microscopes

- Affordable Microscope to Meet Your Budget
- All Tensions Adjustable
- Innovation LED Stereo Illumination
- Compact Design
- Superb Optics
- Straight Binocular, 45° Inclined Binocular, 0-60° Inclined Binocular,
- 0-180° Inclined Binocular Available.
- 3-Step or 5-Step Magnification can be selected.

Superb Optical Features:

The lenses inside the microscope are made by Schott Optical Glass imported from Germany.

All lenses are multi-coated and anti-reflective, combining with infinity corrected optical system & brilliant apochromatic optics, which offer superb optical performance. including: • High Resolution • Real 3-Dimensional Precise Image Reproduction • Large Depth of Field • Wide Field of View • Good Contrast.

Apochromatic optics design could correct the chromatic aberration of three types of colored light effectively. It ensures the reduction & saturation of image color and improves the resolution, contrast & view depth of image.

Optional Accessories:

- Eyepiece 10x, 16x or 20x
- Video Camera Adapter
- DSLR Camera Adapter
- Objective Lens 200mm, 300mm, 350mm or 400mm with fine focusing lever.
- Beam Splitter compatible to Carl Zeiss PICO (80%:20% or 50%:50%)
- Angle Rotation Device compatible to Carl Zeiss PICO
- Support System: – Floor Stand, Table Top Mount Bracket, – Wall Mount Bracket or Ceiling Mount Bracket.

Specifications:

- 12.5x/18mm High Eye-point Wide-Field eyepieces with diopter locks & integrated eye-point height adjustable eyecups. Eyepiece diameter is big enough with its clear and bright lens
- 3-Step Magnifications (3.2x, 8x, 20x), 5-Step Magnifications (3.2x, 5x, 8x, 12.7x, 20x) with standard 12.5x eyepiece & 250mm objective lens
- Optional magnification are available by combining eyepiece 10x, 16x or 20x & objective Lens 200mm, 300mm, 350mm or 400mm with fine focusing lever.
- The small base must be better to meet small space requirement of clinics
- The range of the Diopter of Eyepiece: +/- 6D
- 250mm objective lens with fine focusing adjustment
- The range of pupillary distance: 50mm to 75mm
- Observation field from 42mm to 16mm for 3-Step, from 65mm to 10mm for 5-Step
- Infinity corrected optical system/coaxial illumination
- Dual LED illuminators from +/- 40 forms stereo illumination.
- Object Brightness: 45,000.00 Lx Min
- Manual focusing control with adjustable Focus Range of 11mm
- Counterbalanced pantographic arm
- Easily maneuverable optical head with tension control knobs and 2 handles
- Microscope body can be rotated 360° when casters are fixed.

Model	Magnification	Binocular Head
AMP-8301	3 steps	Straight
AMP-8302	3 steps	45° inclined
AMP-8303	3 steps	0-60° inclinable
AMP-8304	3 steps	0-180° inclinable
AMP-8501	5 steps	Straight
AMP-8502	5 steps	45° inclined
AMP-8503	5 steps	0-60° inclinable
AMP-8504	5 steps	0-180° inclinable



MSF 11-4



MSF 11-4, 1050°C, Chamber Furnace

The MSF 11-4 multi purpose furnace is bench mounted with a maximum temperature of 1050°C. It is available with chamber size of 3.6 Liter.

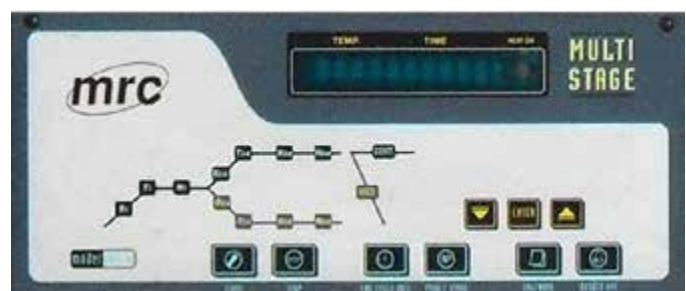
MRC's multipurpose furnace with stainless-steel cabinet, is suitable for every laboratory application, including burnout preheating, tempering casting and metallurgical process. For dental laboratory. The drop down door can be used as a shelf when loading and unloading samples. A chimney is fitted for ventilation of the chamber.

Double security:

hardware and software over-temperature protection to prevent exceeding maximum allowed temp. Advanced PID temperature programmer suite variety of applications. The advanced set point programming temperature controller contains 15 separate programmes each with 8 stages. Optional gas inlet available.

- Max temperature: 1050°C
- Inner dimensions: W180xD205xH95mm
- Outside dimensions: W350xD380xH440mm
- Power: 220V/50Hz, 110V/60Hz, 1500Watt
- Net weigh: 23Kg

- 15 programs-up to 8 stages.
- Bright VFD alpha-numeric display
- End cycle date real time programming
- Advanced keyboard, 9 key-pads only
- Heat up or cool down rates
- Calendar and time display
- Temperature and time override
- Fault and error automatic diagnostic messages:
 - Thermocouple brake - No current
 - Temperature fault - Date error
 - Over temperature - EE error
- Selectable language for messages: English, German, French, Italian.
- Celsius or Fahrenheit
- Automatically restart, the program will restart after a power failure during a burning cycle. The controller will recall the last temperature and resume program operation.



Advanced PID Programmer

Unique Chamber Dimensions for dental laboratory

MRC burnout furnaces are designed for maximum efficiency and provide a generous internal capacity despite modest overall size. Although the volume of the muffle is relatively small. This furnace enables to cast in one burnout.

MSF 11-4: Accept 4 rings x 9 - 4 rings x 2

This advantage is very important, as it enables to gain maximum use of muffles volume.



WPG-100/200/300 (-TA) Series, Water purification systems

With LED controlling system, single stage RO system, 1 pump, Portable TDS/conductivity test pen, and built-in 12 liters tank (TA series), WPG-100/200/300 deionized water system is basic choice of deionized water for general grade experiments. And WPG-100/200-TA is added built-in 12 liters tank on the basis of WPG-100/200/300.

With tap water inlet, its output ranges from 15 to 45 liters/hour.

It can produce single stage RO water and deionized water.

The single stage RO water's ion rejection rate is more than 96%, and the deionized water's resistivity is more than 13MΩ.cm, near to 17.5MΩ.cm. It completely meets the requirements of general chemical or biological experiments for pure water. And it is perfect upgraded replacement for water distiller.

Features and Advantages:

- Automatic microcomputer controlling system, LED real-time animation mode display.
- Running status is showed in the LED display, such as flushing, producing water, full tank, water shortage, leakage and service.
- Power on self-test, power reset, alarm when work more than 6 hours continuously, water shortage, leakage, low and high pressure.
- 3 procedure of the reverse osmosis membrane's self-flushing: power on, water shortage reset and work more than 2 hours continuously, extend the life of RO membrane.
- 2 kind of installation type, Desk and wall-mounted (except for 45 series and built-in tank model).
- High-strength metal shell with powder painting technics, achieve elegant appearance and meeting GLP standard
- Pretreatment cartridges, RO module, deionized cartridges, all designed to modularization independently, easy for maintenance and replacement.
- Built-in 12 liters pressure water tank (TA series), save laboratory space, easier for installation and maintenance.
- External water tanks is optional to meet different need and assure ample water-supply.
- Tube and adapter with NSF authorization and top quality, reduce TOC level and assure ultrapure water's quality.
- Standard pretreatment (including PP fiber, and active carbon cartridge),

effectively protect RO membrane and run in low cost.

- RO module with DOW's membrane, ensure long life, stable operation and high desalination rate.
- Precision mixed resin cartridge, combine high pure water quality and low running cost.
- Portable TDS/conductivity test pen, convenient to test feed water, RO water and deionized water's quality.

Model	WPG-100	WPG-200	WPG-300
	WPG-100-TA	WPG-200-TA	-
Output (25°C)*	15 liters/hour	30 liters/hour	45 liters/hour
Flow rate	Up to 2 liters/minute (with pressure tank)		
Pure water outlet	2: reverse osmosis water, deionized water		
Deionized water quality			
Resistivity	13-17.5MΩ.cm		
Bacteria	<0.1cfu/ml (with optional 0.2μm PES terminal filter)		
Particle (>0.1μm)	<0.1cfu/ml (with optional 0.2μm PES terminal filter)		
RO water quality			
Ion rejection rate	96%-99% (new RO membrane)		
Organic rejection rate	>99%, when MW>200 Dalton		
Particles & bacteria rejection rate	>99%		
Feed water requirements	Tap water, temperature: 5-45°C, pressure: 1.0-4.0Kgf/cm²		
Dimension and weight	WPG-100/200: LxWxH: 410×320×420mm / Weight: about 15Kg WPG-100/200-TA, 300: LxWxH: 410×400×420mm / Weight: about 20Kg		
Electrical Requirements	AC110-220V, 50/60H		
Power	WPG-100/200 Series: 72W, WPG-300: 120W		
Standard configuration	Main body (Including 1 set of cartridge)+built-in 12 liters pressure tank (TA Series) + TDS/conductivity test pen.		

Remarks: The value will be influenced by temperature and feed water's quality.

DustMatic-2000/2001, Dust Drawer

A dust-suction drawer of optimal quality and design, featuring innumerable advantages & improvements in almost all fields of operation, efficiency, user-friendliness, etc.

- Operation is fully automatic: on starting the micromotor, the drawer starts operating, on stopping the micromotor, suction switches off after 20 seconds have elapsed.
- Ergonomic design and construction with first quality materials.
- The working surface is made of beech-wood, giving it a modern look, and allowing for comfortable working.
- Silent, powerful, maintenance-free low pressure induction motor.
- Large-dimensioned, easy-to-change, filter bag (according to international Standards).
- Small-dimensioned drawer, capable of fitting most lab workbenches, with ample leg-room.
- Low operational costs. Easy to install, requires no special tools or training.

Applications:

- Dental
- Ear Phones manufacturer
- Artificial Eye manufacturer
- Archaeology Laboratory
- Beauty manicure
- Jewelry manufacturer.

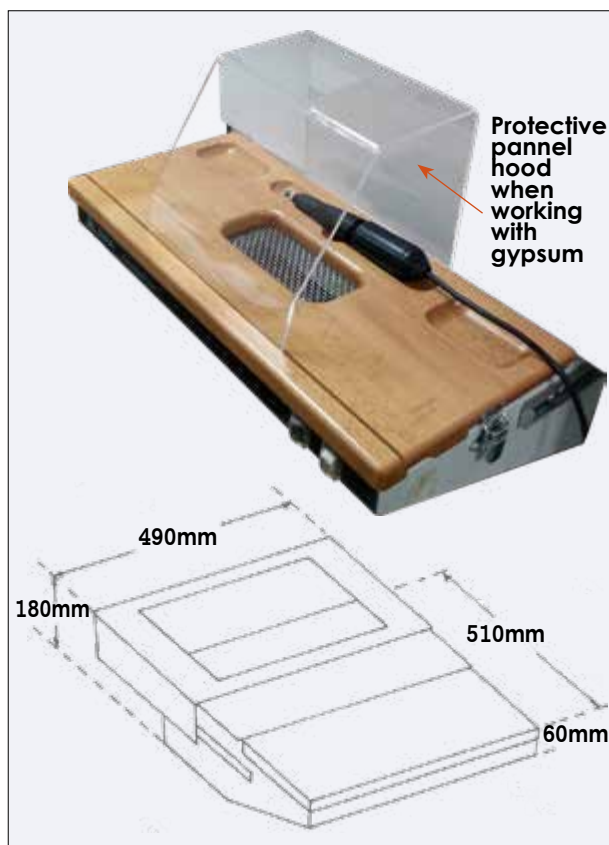
Include:

Suction drawer complete, with micro-respirable dust filter bag & protective panel.



- Effective suction with large suction bag.
- Silent, maintenance free & applicable for continuous operation.
- Easy mountable under every table.

Model	Power	Air Volume	Size (mm)	Weight	Operation
2000	100W	350m³/h	490x510x180	14kg	Auto/Manual
2001	100W	350m³/h	490x510x180	13.5kg	Manual only





DIST, 1.5 Liter/hour Distilator

Autoclave must adopt distilled water as operation medium. Even Purified water has various minerals, & can produce furring scale after evaporation at high temperature, which, after a period of time, can lead to leaking of steam due to improper closure. It can also lead to the clog in the narrow pipes and pressure sensor, to the malfunction of temperature sensor and to other failures.

Once the furring scale enters hand piece and other instrument which are hollow inside or has apertures, it will clog the narrow pipes and axis, lowering the turning speed of hand piece, thus reducing its life span. Therefore, using distilled water is necessary.

Model	Voltage V/Hz	Power (W)	Distilled water L/h	Chamber size	Outside size	Weight	Packing size
DIST	220/50	750	1.5	Ø180x200mm	290x290x390mm	3.5kg	245x285x510mm



STE-TIN, 16 Liter Vacuum Autoclave

It adopts B-wclass(prED-13060), with 3-times pre-vacuum preceding vacuum drying. Residual humidity is <0.2: vacuum measurement reaches-0.7bar.

It sterilizes and sanitizes miscellaneous packed or unpacked medical instruments, whether solid or A-type hollow, whether with multi- apertures or inset pipes. It efficiently rid air from every hollow area of any hollow instrument, such as hand-piece, making sure that water steam reaches every corner. It is installed with BOWIC & DICK which measures the penetration of water steam. Mini printer can be attached to record the process of sterilization.

Model	Voltage (V/Hz)	Power (W)	Capacity (L)	Chamber size	Outside size (mm)	Type	Weight (kg)
STE-TIN	220/50	2000	16	Ø230x360mm	W440xH400xD560	B	64 (Net:45)



STE-TAN, 16 Liter Autoclave

Adopting N-class (prED-13060), with thermal vacuumizing and drying function, it can be used for A-type hollow instruments & solid instruments. Thermodynamic vacuum guarantees elimination of cold air from the cavity and makes sure of perfect saturation of water dream.

Three sterilizing water quantity selections are respectively for different material, which embodies the individualized service. Automatic malfunction detecting system makes easy maintaining.

- Liquid Sterilizing option
- Optional Printer



Model	Voltage (V/Hz)	Power (W)	Capacity (L)	Chamber size	Outside size (mm)	Weight (kg)
STE-TAN	220/50	1900	16	Ø230x360mm	W440xH400xD560	64 (Net:43)

LCEN-100 Series, Clinical Centrifuges, Eight Places Rotor Of 15ml Tubes, 2500rpm Or 6000rpm



These centrifuges are widely used in many fields such as biology, medicine, pharmacology, dental, beauty clinics and veterinary laboratory and other regions.

They are small, compact, strong and easy and safe for operation.

The centrifuge operate smoothly and steadily.

The design is up to date, beautiful outlook and durable.

ABS outer shell can resist collision.

It could accommodate 7ml, 10ml and 15ml centrifuge tubes without changing the rotor. With safety lock, when cover is opened, the motor can be stopped.

Precision mechanical timer with bell can be set from 0 to 30 minutes.

Speed is linear and stable.

Auto balancing system.

Vacuum rubber feet provide stable: "not walking" unit.



Options:

(C) 0.5 – 2ml adaptor

(B) 5 – 7ml adaptor

Options: Adaptors for tubes

(A) Standard 10~15ml tube holder; inner size:Ø17.5mm x L98mm (included).

(B) Optional 5~7ml tube holder; inner size:Ø13.5mm x L69mm.

(C) Optional 0.5~2.0ml tube holder; inner size:Ø11.0mm x L42mm.

Model	Power Supply	Speed range	Rotor angle	Max. RCF(xG)	Dimensions Weight	Timer	Max. Capacity
LCEN-100	220V/50Hz or 110/60Hz	up to 2500rpm or up to 3200rpm	45°	1210xG	(HxWxDmm) 220x255x255 3kg	0-30min	15ml x 8 Optional adaptors for 7ml and 10ml
LCEN-101	110V/60Hz or 220/60Hz	300-6000rpm	45°	4100xG	(HxWxDmm) 270x255x255 5kg	0-30min	15ml x 8 Optional adaptors for 7ml and 10ml
LCEN-102 with tachometer	110V/60Hz or 220/60Hz	300-6000rpm	45°	4100xG	(HxWxDmm) 270x255x255 5kg	0-30min	15ml x 8 Optional adaptors for 7ml and 10ml



AC-Analog Series

Ultrasonic cleaner-set with analog timer & temperature controller, with wire basket & lid, highly effective & efficient cleaning, stainless steel, up to 80°C, 0~20min, 40kHz frequency. Made of stainless steel, finished surface.

Analog	AC-120H	AC-150H	AC-200H	AC-250H	AC-300H	AC-400H
Operating Frequency	40Khz	40Khz	40Khz	40Khz	40Khz	40Khz
Tank capacity (Liters)	3	6	9	13	20	27
Internal tank size(mm)	L240xW140xH100	L300xW155xH150	L300xW240xH150	L330xW300xH150	L500xW300xH150	L500xW300xH200
External DIM.(mm)	L270xW170xH240	L330xW180xH310	L330xW270xH310	L360xW330xH310	L550xW330xH310	L550xW330xH360
Internal tank stuff	SUS 304 #1.0t					
External stuff	Steel plate toast paint					
LID cover stuff	Stainless steel SUS 304					
Timer	1-20 min (ACP-Series: 1-30 min)					
Ultrasonic power (AC Series)	100W	150W	200W	300W	400W	500W
Power adjustable (ACP Series)	30 – 100W	45 – 150W	60 – 200W	90 – 300W	120 – 400W	150 – 500W
Heating Power	100W	300W	300W	400W	500W	500W
Net Weight	3.2Kg	6.2Kg	8.2Kg	10.2Kg	13.2Kg	14.9Kg
Drainage	None	Have				
Power source	AC100~120V/AC220~230V 50/60Hz					

CLEAN02, 10Liter Ultrasonic Cleaners



- Cycle time set: 2-30 minutes.
- Temp set: 20-80°C.
- Safety feature: Heating stops when tank is empty.
- Water outlet is installed to drain liquid from the tank easily.
- Low noise fits clinical environment.
- Cleaning basket holds delicate instruments in place.
- Keypads & digital display are user friendly.
- Rinse time can be set up to 99 min, rinse temperature can also be set. Power is automatically cut off when is lack of water.
- External drainage system makes easy change of rinse liquid; Low noise design makes quiet operation.
- Specialized basket is designed for delicate minute devices that should be free from friction and braise, for example, high-speed and low-speed hand piece turbines
- Clear operation plate with digital display makes it easy to operate.

Model	CLEAN02
Operating frequency	40 KHz
Tank Capacity	10L
Internal/ External tank size (mm)	295x235x149 / 385x325x285
Ultrasonic / Heating power	240W / 300W



LCEN-401N, Digital Clinical Centrifuge







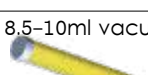





Clinical centrifuge is ideal for separation of serum, plasma, urea, blood samples and other routine applications in hospital and research laboratories.

Features:

- Max. speed is 4500rpm
- Precise control speed and time with efficient separation
- Faster acceleration & deceleration
- Suit for 15mL cell culture tubes and full line of collection tubes, ideal for a clinical labLED display
- Rotor capability: 15mLx8 or 10mL/7mL/5mLx12
- LED display.



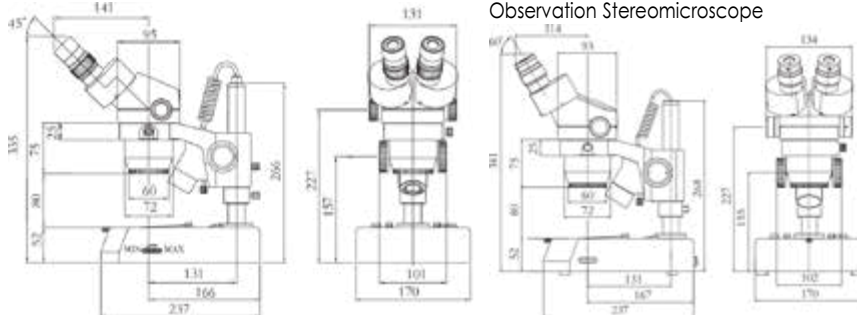
Available rotor and adapters:

Rotor Type	Tubes	Available Tubes	Dimensions (Ø x L mm)	Adapters (included)	Maximum Speed (rpm)	Radius (cm)	Maximum RCF (x g)
A12-10P 	15ml con 	8	17 x 120		4500	11	2490
	1.5-5ml vacu 	12	13 x 82	A10P15 & Mat 	4500	9.8	2218
	4-7ml vacu 	12	13 x 106 16 x 75	A10P15 A10P15 & Mat 	4500	11 9.8	2490 2218
	8.5-10ml vacu 	12	16 x 107	A10P15 	4500	11	2490
	2.7-3ml(EU) collection tube 	12	11 x 66	A10P15 & Mat 	4500	9.8	2218
	7.5-8.2ml(EU) collection tube 	12	15 x 92	A10P15 	4500	11	2490

REMARK: A12-10P rotor is made of plastic & cannot be autoclaved or UV irradiation, only ordinary sterilization can be used.

**SMZ-140****SMZ-140, 1:4 Zoom Ratio Stereo microscope****SMZ-140-N2GG** Binocular Stereomicroscope**SMZ-140(60)-N2GG** Binocular 60°

Observation Stereomicroscope



Model	SMZ-140
Microscope Body – Standard	
Optical System	Greenough Stereoscopic
Head Observations	Binocular 45° – [SMZ-140] Binocular 60° – [SMZ-140-60°]
Interpupillary Adjustment	54mm – 76mm
Diopter Adjustment [on eye tubes]	±5°
Zoom Ratio	4:1
Magnification Range	10X – 40X
Objective	1X
Working Distance	80mm
Eyepieces	WF 10X/F.N.20
Field of View Range	20.0mm – 5.0mm
Microscope Body – Optional	
Magnification Range	1.75X – 180X
Objectives	0.3X, 0.5X, 0.63X, 0.75X, 1.5X
Working Distance	33.0mm – 200mm
Eyepieces	WF 5X/F.N.22, WF 15X/F.N.13, WF 20X/F.N.10, WF 30X/F.N.8
Field of View Range	62.9mm – 1.3mm

FS01 – N2GG Arm [without illumination]

- Rack and pinion focusing mechanism
- Focus adjustment: 45mm
- Pole mount diameter: Ø25mm
- Head mount diameter: Ø74mm

**FS02 – N2GG** Arm [with illumination]

- Rack and pinion focusing mechanism
- Reflected halogen 12V/15W illumination
- Focus adjustment: 45mm
- Pole mount diameter: Ø25mm
- Head mount diameter: Ø74mm

**FS03 – FBGG [2111/2112]** Arm [without illumination]

- V-frame, ball bearing focusing mechanism
- Focus adjustment: 50mm
- Pole mount diameter: Ø32mm
- Head mount diameter: Ø74mm

**FS04-FBGG[2111/2112]** Arm [with illumination]

- V-frame, ball bearing focusing mechanism
- Reflected halogen 12V/10W illumination
- Focus adjustment: 50mm
- Pole mount diameter: Ø32mm
- Head mount diameter: Ø74mm

**FI01 Industrial Arm**

- V-frame, ball bearing focusing mechanism
- Illuminator port
- Focus Adjustment: 50mm
- Head mount diameter: Ø74mm
- Nipple diameter: Ø15.8mm
- Adjustment range: ±90°

