MÖLLER ALLEGRA 500

MÖLLER-WEDEL INTERNATIONAL

Tradition and Innovation

Enjoy Microsurgery

MÖLLER ALLEGRA 500 is optimized for surgical procedures in day clinics, surgical centers, and hospitals, where speed and flexibility are decisive factors.

M.DIS for coobservation

Due to the inclination angle of -30° to +120° and the lateral tilt of +/-45°, deep cavities and narrow canals can be optimally illuminated and examined while MÖLLER ALLEGRA 500 always remains balanced. No springs need to be tightened, no knobs turned. The electromagnetic brakes retain the microscope safely in its working position.

The apochromatic optics provides a sharp and contrasty image for the surgeon at any magnification of the zoom. Due to the large stereo base of 25 mm, an exceptional depth perception is achieved.

In most surgical ENT procedures active assistance is not possible, and hence no stereoscopic observer scope is needed. Therefore MÖLLER ALLEGRA 500 is designed to rotate cardanically around its center of gravity in all directions, requiring only minimal force.

Two ergonomic hand grips with function buttons facilitate control of the microscope. Since no beam splitter is required for coobservation, the image for the surgeon is exceptionally bright.

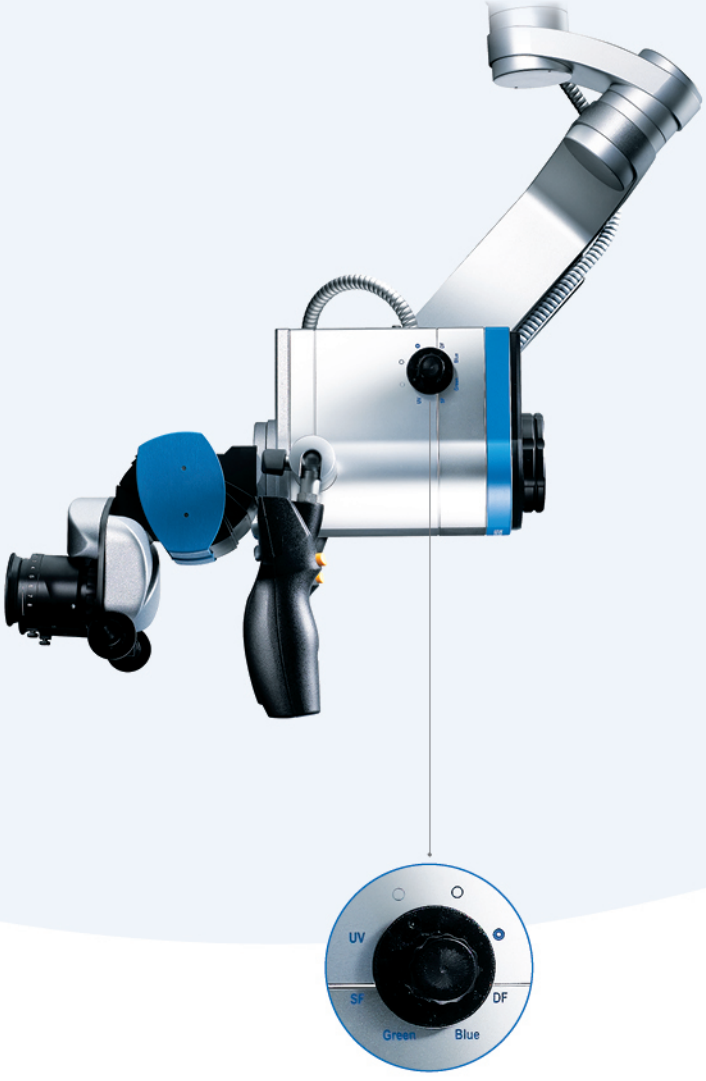
MÖLLER ALLEGRA 500
with laser adapter

In addition to ENT surgery, MÖLLER ALLEGRA 500 is also designed for use in other microsurgical fields. It contains a motorized focus, ranging from 200 mm to 450 mm, and a short inclinable 160° eyepiece head. This configuration makes it the ideal microscope also for spine, reconstructive, and dental surgery.

For coobservation, the high-resolution monitor M.DIS can be mounted to the microscope arm. The balance of the microscope will not be affected when the monitor is moved during operation. M.DIS, equipped with a touch screen, allows viewing and controlling of video recording or snapshots during the operation.

For mounting a laser adapter, the turning axis of the microscope is adjustable to retain the full balance.

One more feature to mention: A video camera (1 CCD) is integrated. This reduces the length of the microscope and makes it easier to clean.



Turning knob for the filter disk

Intraoperative light management
MÖLLER ALLEGRA 500 contains a filter disk for daylight, softlight, UV protection (yellow filter), blue light (excitation of fluorescence), and green light (better recognition of blood vessels). In addition, two spot diaphragms are integrated against glare.

MÖLLER ALLEGRA 500
on floor stand FS 2-23

High-tech solutions

Electromagnetic brakes in the floor stands FS 2-21 (halogen), FS 2-23 (xenon), and FS 2-25 (LED) enable MÖLLER ALLEGRA 500 to support the smooth movements of the microscope. Additional light sources and a holder for a foot switch can be mounted directly to the column as can trays (with transformers) for camera control units or other equipment. The front side accepts a high-resolution monitor (optional).

All three versions are computer-controlled with a graphic display to program the individual start settings of the operating surgeons and the surgical procedures and to control the microscope parameters, brightness, and the carrying weight of the articulated arm.

The shape and internal reinforcements of the column make the floor stand extremely stable against vibrations. The cables are completely covered, guided from an easily accessible cable duct in the column through the arm system up to the microscope suspension.
A plastic cover protects the base of the floor stand against corrosive liquids. The design, including the double castors with brakes, already meets future standards.

Mechanical solutions

The floor stands FS 2-11 (halogen) and FS 2-15 (LED) are equipped with newly designed mechanical brakes, which are preadjusted in the factory for free-floating movements as well as stable working positions. The light source is mounted externally for easy access. A tray (with transformer) to carry a camera control unit may be fixed to the column.

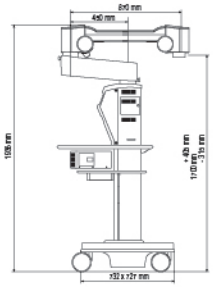
MÖLLER ALLEGRA 500
on floor stands
FS 2-11 / FS 2-15

Technical Data

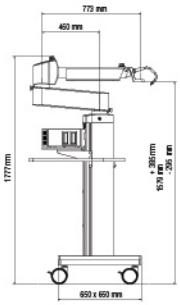
Microscope MÖLLER ALLEGRA 500

Optics	apochromatic
Stereo base	25 mm
Working distance, standard	200 mm to 450 mm
Oculars	10x
Diopter settings	-8 D to +5 D
Inclinable eyepiece head	160°
Lateral tilt	45°
Filter disk	2 diaphragms, 5 color filters
Inclinable angles	-30° to +120°
Motorized zoom 1:6	1.6x to 16.8x
Visual field (zoom)	12.5 mm to 128.7 mm
Weight (without accessories)	6.6 kg
Foot switch	4 or 14 functions

Floor stands FS 2-21 / FS 2-23 / FS 2-25



Floor stands FS 2-11 / FS 2-15



Floor stands	FS 2-11	FS 2-15	FS 2-21	FS 2-23	FS 2-25
Door height	1777 mm		1936 mm		
Vertical travel at oculars	1038 mm to 1718 mm		1143 mm to 1863 mm		
Maximal arm reach	1223 mm		1320 mm		
Carrying capacity	4.0 kg to 15.0 kg		5.5 kg to 17.0 kg		
Brakes	preadjusted, mechanical		electromagnetic		
Balancing	mechanical		mechanical, sensor-aided		
Illumination	2 x 150 W halogen	1 x 50 W LED	2 x 150 W halogen	1 x 300 W xenon	3 x 20 W LED
Protection filter	UV, IR				
Operating voltage	100 VAC to 240 VAC				
Power consumption	600 VA	500 VA	1200 VA	1000 VA	
Weight	198 kg		240 kg	250 kg	240 kg

Ceiling units on request

Subject to alteration

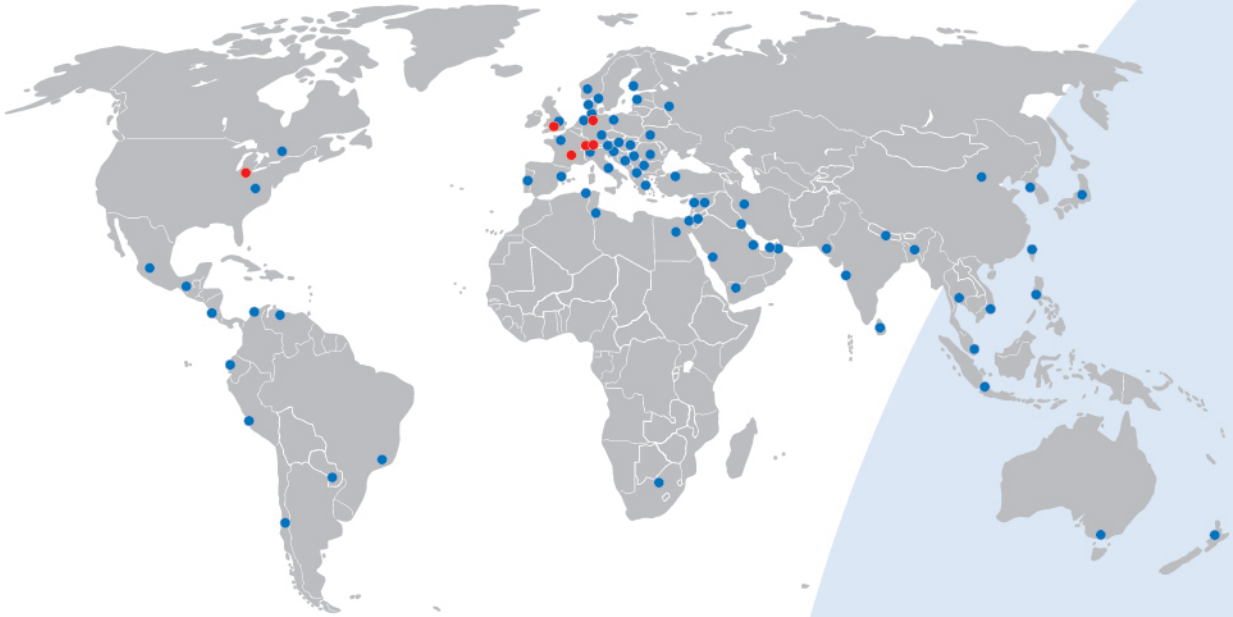
Tradition and Innovation – Worldwide

Responsibility for human beings and the environment

HAAG-STREIT Group

Haag-Streit, founded 1858 in Switzerland, with its headquarters in Bern, has a top position internationally in the industry of medical products, particularly for ophthalmology. The group of companies, characterized by the motto 'Tradition and Innovation', consists of economically and technologically strong partners. Möller-Wedel is proud to be part of this group, which gives a strong foundation for the future development of operating microscopes. Möller products are available in most countries through dedicated distributors who also provide competent service and support. You will find the contact addresses of the local Möller-Wedel representatives under **www.moeller-wedel.com.**

- **HAAG-STREIT companies**
- **MÖLLER-WEDEL representatives**



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