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SkyWatcher MAK 127/1500 SP on assembly TPL ALT-AZ AZ5 with micromachines and steel stand The SkyWatcher MAK127 telescope is an ideal astronomical tool for every sky observer - a great optical tube in the Maksutov system. Great for "balcony" astronomy and for trips. Very appreciated by people watching and photographing airplanes at cruising altitudes. The Maksutov optical system is one of the most valued optical constructions, widely appreciated for its mobility, ease of use and multi-functionality. It is an excellent choice of both astronomical observations, as well as earth observations and aircraft observations. Excellent optics provide an extremely sharp image throughout the field of view. The telescope consists of the meniscus correction board, the main mirror and the secondary mirror placed on the inner part of the meniscus. These telescopes have a reduced coma and show only a substantial chromatic aberration, giving very sharp and expressive images. A great advantage of the Maksutov telescopes is the compact and compact design and light weight. Due to their large focal length and low light, they are perfectly suitable for planetary observations. This type of construction works well in urban environments, where the main emphasis is on solar system objects, not on nebulae. Azimuth azimuth assembly included

Technical parameters of the optical tube Sky-Watcher MAK 127 SP

- Optical system: Maksutow - Cassegrain
- Lens diameter: 127 mm
- Focal length of the lens: 1500 mm
- Lighted: 1 / 11.8
- Switching capacity: 1,1 "
- Theoretical range: 13th magnitude
- Maximum useful magnification: 250x
- Total weight: about 3.4 kg

Optical tube equipment The set includes the following accessories:

- 1.25 "focuser with T2 thread
- Glasses: Super 25 mm (over 60x) and 10 mm (over 150x) - 1.25 "standard, 50 ° own field of view
- Angled mirror 90 ° (gives an uninverted, terrestrial image)
- Star Pointer type finder (collimator)
- Mounting rail in the Vixen / Meade / Sky-Watcher standard

Usage Moon the planet nebulae planes scenery

Universal mounting ALT-AZ (AZ5) with micromovers and steel field rack Universal assembly with azimuthal head with a powerful lifting capacity of 12 kg, typical for EQ5 class assemblies. The ALT-AZ type head with micromodes in two axes is equipped with a dovetail in the Vixen standard. Adjustable steel field tripod with accessories stand. The assembly allows for mounting SCT and Maksutov telescopes up to  $\phi = 180 \text{ mm} - 200 \text{ mm}$ , refractors up to 152 mm, as well as spotting scopes and large binoculars of 25x100 or 28x110 type, typically mounted on photo tripods (we recommend Multi-Plate mounting plate for their installation), while ensuring low vibration, good rigidity, smooth adjustment of the tube position and equipment safety. Azimuthal assemblies make it easier and faster to position the telescope on an object of interest in the sky than the parallormal assembly. The assembly of ALT-AZ is recommended for visual observations of the sky, especially refractors (ideal for APO), Maki and SCT. The assembly is relatively light and easy to transport, so it can be part of the travel set. Regarding the mounting of Newton's telescopes, tests were carried out (information below) with a tube 8 "f / 5 (Messier NT 203/1000) and the assembly deals with such a tube, however, due to the specificity of Newtonian tubes, we suggest using a tube assembly Newton 130 - 150 mm. The montage is perfect for landscape observations (distant observations, natural observations) as well as for observation and photographing of aircraft at cruising altitudes. The head arm can be placed at different angles to the horizontal - the highest stiffness and lifting capacity is of course in the vertical position of the arm, however, this feature allows optimal mounting of the observer and observation even close to the zenith with many optical tubes. The arm can be moved from the vertical by 60 ° or 120 ° (the fixing holes are spaced at 60 degrees). Technical parameters of ALT-AZ assembly

- lifting capacity : 12 kg ( see: below)
- height of tripod spaced (min): 74 cm
- height of tripod (max): 125 cm
- distance between the ends of the legs of the fully unfolded tripod: 123 cm
- Steel legs diameter (thicker / thinner): 1.5 " / 1" (37.7 mm / 25 mm)
- total height of the head: 32.5 cm
- total height (tripod + head vertically, min) : 96 cm
- total height (tripod + head, max) : 140 cm
- total height (tripod + head inclined 60 ° from vertical, min) : 85 cm
- total height (tripod + head inclined by 60 ° from the vertical, max) : 127 cm
- head weight: 2225 g
- weight of the field tripod: 3825 g
- total weight : 6050 g

Warranty 2 years (complete ALT-AZ assembly with high lifting capacity and stiffness) (adjustable height steel stand, accessory shelf) which is also a stabilizing element of the tripod legs' distance) (head with micromodes on chirators both in azimuth axis and height) (the thought-out design allows virtually any mutual positioning of the arm, dovetail mounting bracket and microscopic knobs) (the head of the head can be extended by 60 ° or even 120 ° from the vertical in both directions after unscrewing 2 screws) (the arm can be set in different angles) (assembly dimensions with the shortest leg length) (assembly dimensions at the greatest leg length)