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Optical tube SkyWatcher MAK 180/2700 OTA + assembly Synta HEQ5 PRO on steel tripod 1.75" The Maksutov optical system is one of the most valued optical constructions, widely appreciated for its mobility, ease of use and multifunctionality. 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, and smaller on nebulae. Technical parameters of the optical tube: Optical system: Maksutow - Cassegrain Lens diameter: 180 mm Focal length of the lens: 2700 mm Lighted: 1/15 Switching capacity: 0.95" Theoretical range: 14th magnitude Maximum useful magnification: about 400x SynScan HEQ5 PRO mounting The Sky-Watcher HEQ-5 Pro SynScan paralactical assembly was designed for users who need both the high stability needed for amateur astrophotography and advanced visual observations, while providing relatively small weight and mounting size. The assembly was equipped with two-axis drives, the GOTO SynScan computer system, the polar field scope, solid locking clamps in the axis of right ascension and declination, the counterbalance rod built into the head (pull-out). The tripod is based on 1.75" legs and offers maximum stability of the whole set. The maximum lifting capacity is about 16 kg, with a mass of 19 kg. Mounting the optical tube for mounting is possible with the standard dovetail mounting rail (included) female dovetail, in the pictures a male dovetail is attached to a tripod - the dovetail is equipped with optical tubes, it is not equipped with the assembly). The GoTo SynScan remote control is a full and extended version that allows tracking and finding objects in the sky. The SynScan remote control provides three tracking speeds: stellar, lunar, solar objects in Dual Axis (RA) modes, RA (RA axis). The following alignment procedures are available: One-star Alignment, Two-star Alignment, Three-star Alignment. The database contains 25 definable objects by the user, as well as a full database of Messier, NGC and IC objects (13,436 objects in total). The pilot has also been programmed to easily find planets or the moon. Among its advanced features, it is worth paying attention to the mode of minimizing vibrations during long exposure shooting and software error correction periodic (PEC) as well as PC ports to control the telescope using a computer (RS-232 port) and Auto-Guide to precise alignment during photography with a tracking camera. Technical parameters: power supply: 12 VDC 2Amp drive type: 1.8° stepper resolution: 0.144 of a second arc travel speeds: 2X, 8X, 16X, 32X, 64X, 400X, 500X, 600X, 800X Gear Ratio: 705 Tracking speed: star, moon, solar Dual Axis tracking mode (biaxial), RA (right ascension) alignment procedures: One-star Alignment, Two-star Alignment, Three-star Alignment (ie the procedure for setting one, two or three stars) database: 25 definable objects by the user, full database of Messier, NGC and IC objects (total of 13436 objects) minimizing vibration when shooting with a long exposure time programmable PE correction (periodic error) PC port to control the telescope using a computer (RS-232 port) Auto-Guide port for precise alignment during photography using a professional camera assembly type: paralactical German assembly of the optical tube: clamps (rings) microcaps: RA & Dec (controlled by the drive) tripod: 1.75" steel tripod height: 85-147 cm tripod weight: 7.5 kg Counterbalance rod diameter: 1.8 cm for the counterbalance rod: stainless steel assembly weight without counterweights: 9 kg assembly weight with counterweights: 19 kg mounting height: 41 cm counterweight: 2 x 5.1 kg maximum load: approx. 16 kg Equipment The set includes the following accessories: 2" spectacle lift Long Eye Relief 2" 28 mm eyepieces Angle mirror 90° 2" Integrated dovetail Optical finder 9x50 Sky-Watcher HEQ5 PRO paralactical assembly with the GOTO system Usage Moon the planet nebulae planes scenery Warranty 2 years (Maksutov's complete optical tube with a diameter of 180mm on the HEQ5 rigid paralactical assembly with the GOTO system) (assembly on steel legs, diameter: 1.75", with stand for accessories, with motors in both axes and a system for finding and tracking objects) (the assembly has a port for autoguiding, and in combination with high stiffness is a perfect proposition for amateur astrophotography) (internal focusing system; accessories) (Active diameter 180mm for the Maksutov system telescope are fantastic images of planets, as well as many clusters and nebulae, in the set a very good 9x50 finder with a cross) (Angle connector is equipped with a 1.25" reduction, so you can use glasses in both 2" and 1.25" standards) PHOTOS PERFORMED WITH THIS TELESCOPIC (Moon, click to enlarge) (Jupiter, click to enlarge) (Moon, click to enlarge) (Jupiter, click to enlarge)