2. Telescope specifications

Position	Short Description	price (EUR)
1. 1m Telescope		
Optics	- Lomo Cassegrain optic - >=1000 free optical diameter - 1025mm mechanical diameter - Mirror material of all 3 mirrors Astro-Sitall with near-zero expansion - primary mirror L/6 peak to valley at 400nm - System optical quality L/6 peak to valley at 400nm - primary focal ratio f/3 - uncorrected system focal ratio f/10 (10m focal length) - Reflectivity of Secondary and tertiary mirror 95% - Reflectivity of main mirror 90%. - Focal plane position 250mm from flange	
Tube	- Truss Tube - Lasalle main mirror support - 1 Nasmyth focus design - computer controlled focusing - focus range +150, -50mm from nominal focus distance - mirror covers manual - unvignetted field >20 arc minutes (64mm diameter)	
Mount	- AltAz mount - high accuracy friction servo-drives - external Heidenhain-Encoders with <0.08” resolution - Servomotor Encoders with <0.08” resolution - 2.5 degree per second maximum slew rate - Eigen frequency above 10 Hz - The telescope fits into a hemisphere with minimum 4.1m inside diameter - Total telescope weight appr. 1.600 kg	

Telescope control system and software	- Industial PC, > 2.3 GHz with all necessarily PC cards, mouse and keyboard, Monitor for the TCS Autoslew - 32bit Win controll software Autoslew - Full vb-scripting via ActiveX possible for telescope, focuser, rotator and mirror covers - Minimum elevation -3 degree - <30 arc seconds pointing (<10 arc seconds RMS) for >15 and <80 degree elevation (after calibration with pointing model). - <60 arc seconds pointing (<20 arc seconds RMS) for 3-85 degree elevation (after calibration with pointing model) - <1.5 arc seconds RMS blind guiding for >15 degree and <80 degree elevation over 5 minutes tracking time - <2.5 arc seconds RMS blind guiding for >3 degree and <85 degree elevation over 5 minutes tracking time - <0.5 arc seconds RMS guiding with any offset guider for >3 and <85 elevation - Software limit switch and hardware switch for rotation (to prevent cable damage). Overlap >180 degree. - Hardware limit switch for altitude (horizon limit, zenith limit) - Dome control (ASCII, RS232, or ASCOM) - Focusing, autofocus possible for supported cameras - Temperature compensation of the focus drift - large object database (NGC, IC; UGC, PK) - RA, DE input - Orbital elements input for pointing and speed correction of fast moving objects - Input coordinates can be freely selected - Joystick Control of Telescope and Focus	
	- ACL (Astronomical Command Language) for external remote control of the telescope, with RS232 or LAN - Import of custom database possible - 2 year update service for software enhancements - Automatic calibration of the telescope	
Installation	- Without packaging, transportation, insurance, setting into operation, testing, travel costs	

Optional:

Derotator	- 20kg maximum Load, needed for CCD	
RC	- RC optic set instead of classical Cassegrain	
Reducer	- To f/6.7 for CCD	
Installation	- Costs per day + Flight + Lodging	

Telescope Size

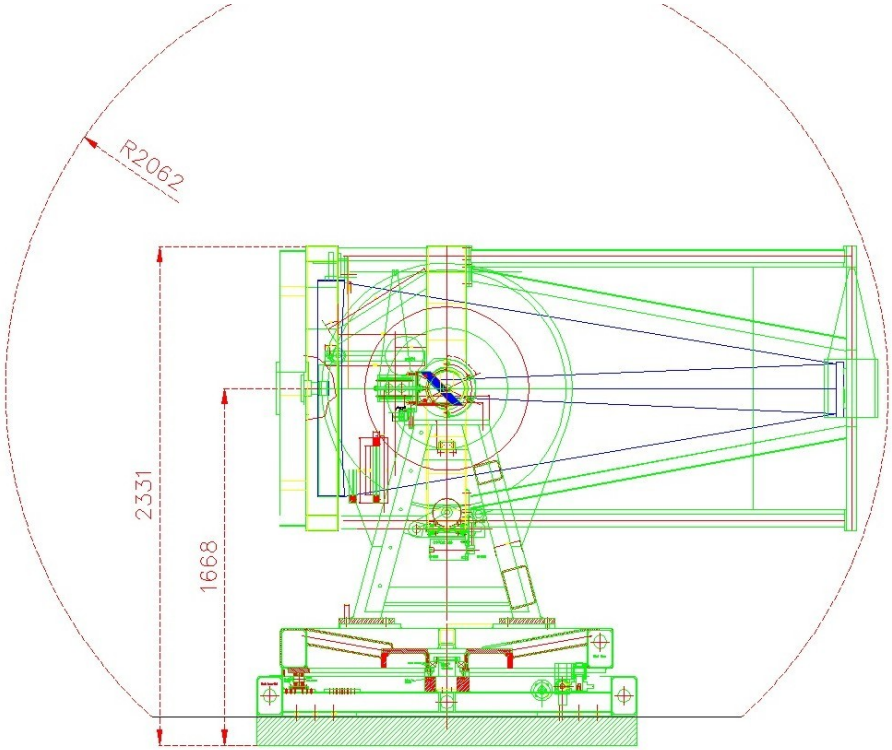

Image of 1m Stockholm Telescope (exactly a copy what you will get)