

Technical Data

# Alluna Ritchey-Chrétien telescopes



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Alluna *optics* Ritchey-Chrétien Telescopes are professional telescopes of high “Made in Germany” quality. Ideal for observatories, schools, education, research and in particular for astrophotography.

The telescopes are available in standard sizes 16”, 18”, 20” and 24 inches.



All telescopes can be used as a f/8,0 system or with a reducer as a f/6,0 system.

For highly accurate precision optics, optionally made of Zerodur glass ceramic, only optics exclusively of our manufacturing are used. It is only in this way that we can guarantee a consistently high quality of all our telescope optics.

The aluminium carbon truss tube, an elaborate honeycomb structure, is manufactured from solid aluminium. With this, an extremely high stability, torsion resistance and collimation is achieved. Instrument loads of greater than 50 kg can be implemented.

The integrated Telescope-Control-System (TCS2) controls all the basic functions of the main telescope:

- \* High precision secondary mirror focusing of the optic. Focus accuracy 0,0019 mm.
- \* Cooling of the optical tube. Three fans, real time temperature query of the main mirror, secondary mirror and ambience.
- \* Control of the DustCover  
Four-fold flaps, opening time 4-10 seconds depending on the telescope size
- \* Instrument rotator  
Positional accuracy 0,01 degree  
Maximum speed of approximately 4,9 °/sec
- \* Mirror heater
- \* Ascom connection
- \* API "Application Programming Interface"

The control can be carried out via Notebook/PC, autonomously via the touch screen hand controller or remotely.

With the “Application Programming Interface” contained in the delivery, you can integrate the functionality into your own applications.

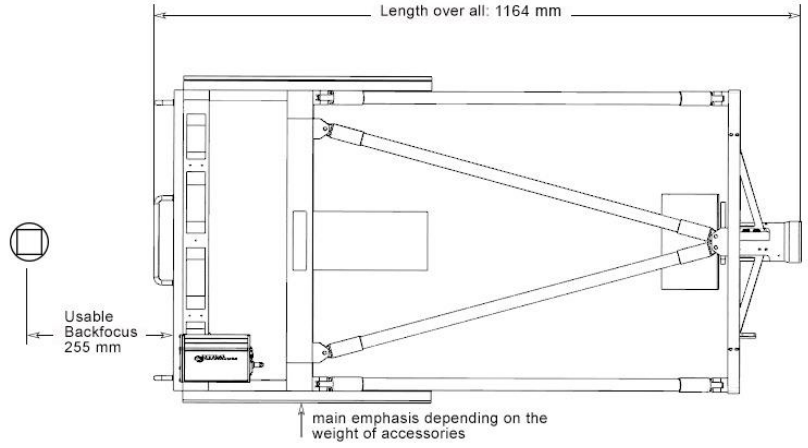
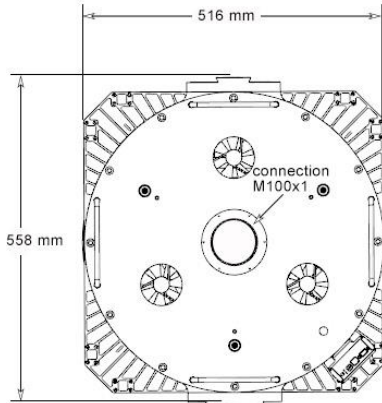
More information about our telescopes at: [www.alluna-optics.com](http://www.alluna-optics.com)

## Technical Data Alluna Ritchey-Chrétien telescopes:

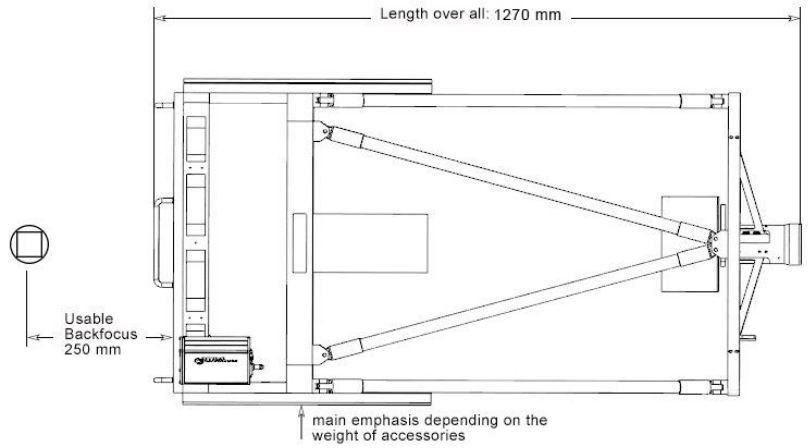
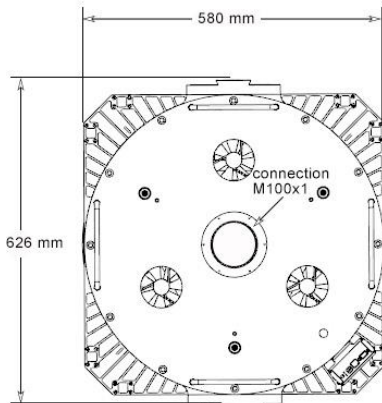
	<b>RC16</b>	<b>RC18</b>	<b>RC20</b>	<b>RC24</b>	<b>RC24AZ</b>
Primary mirror Ø	415 mm	465 mm	515 mm	610 mm	610 mm
Optical Ø	405 mm	455 mm	505 mm	600 mm	600 mm
Main mirror ap.	f/3,0	f/3,0	f/3,0	f/3,0	f/3,0
System ap.	f/8,0	f/8,0	f/8,0	f/8,0	f/8,0
Secondary mirror Ø	160 mm	175 mm	190 mm	222 mm	230 mm
Obstruktion	44%	44%	43%	43%	45%
Back Focus / mirror	355 mm	355 mm	355 mm	355 mm	456 mm
Back Focus / backplate	250 mm	245 mm	240 mm	230 mm	340 mm
Optimal field of view Image Circle Ø	65 mm	65 mm	65 mm	65 mm	65 mm
Weight	52 kg	62 kg	79 kg	125 kg	134 kg
Telescope-Control-System TCS	TCS-2 including	TCS-2 including	TCS-2 including	TCS-2 including	TCS-2 including
TCS Windows Software	✓	✓	✓	✓	✓
API - Application Programming Interface	✓	✓	✓	✓	✓
Hand-Control Panel*	✓	✓	✓	✓	✓
4" RC Field Corrector* f/8,0 to f/8,1	✓	✓	✓	✓	✓
4" RC Reducer .74x* f/8,0 to f/6,0	✓	✓	✓	✓	X
4" Instrument Rotator*	✓	✓	✓	✓	✓
Robotic DustCover*	✓	✓	✓	✓	✓

\*optional

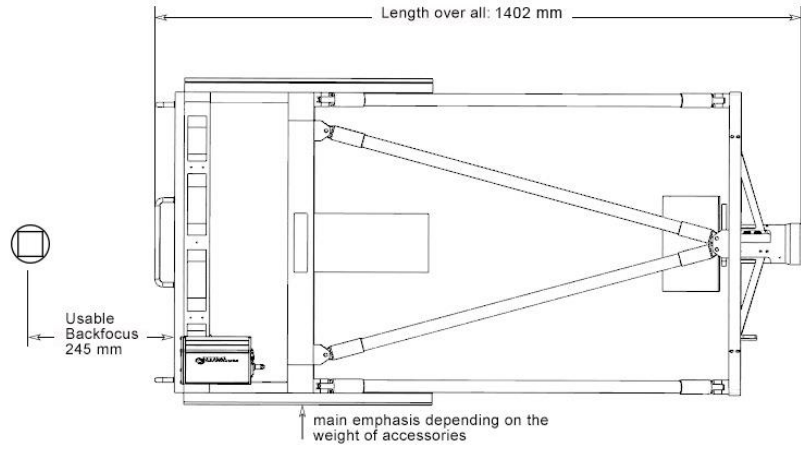
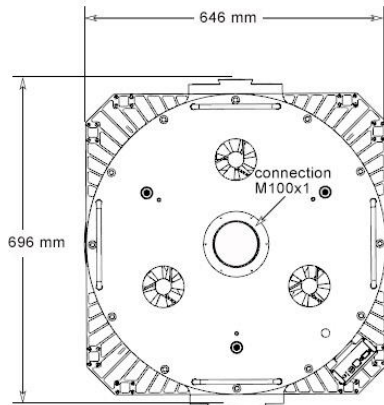
16" Alluna Carbon-Truss-RC



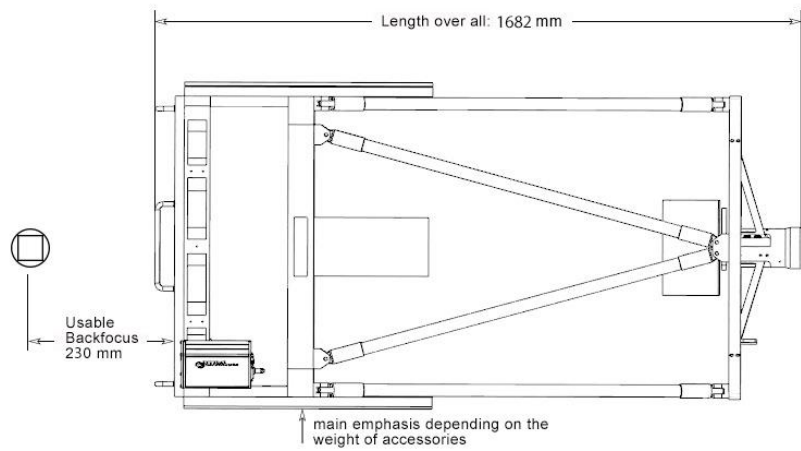
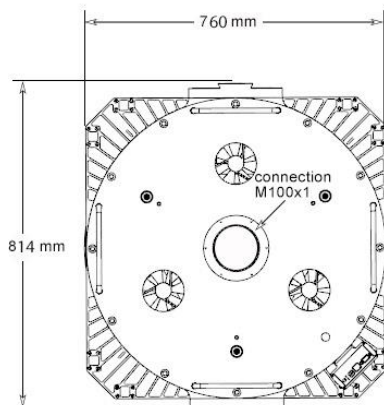
18" Alluna Carbon-Truss-RC



20" Alluna Carbon-Truss-RC



24" Alluna Carbon-Truss-RC



We reserve the right at any time to deviations from specifications or changes as well as printing errors on these pages.