



SPECIFICATIONS:

Primary mirror diameter: 500 mm (20")

Focal ratio: F/8

Focal length: 4000 mm (160")

Linear obstruction: 47%

Full corrected and illuminated field: 80/100 mm

Dimensions: 660x570x1200 mm

Weight: 85 Kg (188 lb)

Back focus extraction (from back plate): about 220 mm (8.6")

Standard configuration:

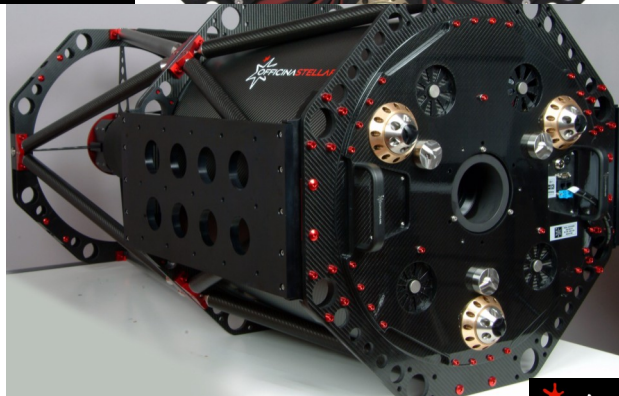
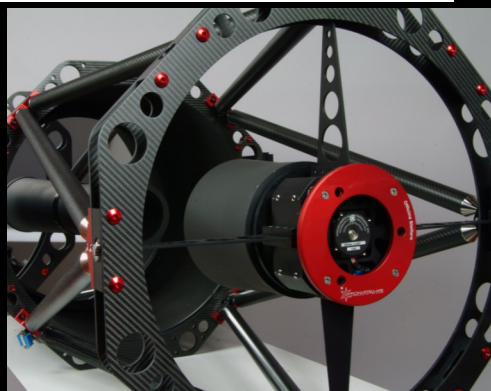
Low expansion glass or **ZERO Expansion Ohara Clear Ceram Z HS ceramic glass** optical set, carbon/aluminum truss tube design, 7" dovetail and a Losmandy on top for accessories, TC-01 three ventilation fans and mirrors heaters with manual control, shroud and cap covers. Motor on secondary mirror already installed, add ATC-02 to use it. Primary cell detachable for an easy cleaning of mirror.

AVAILABLE IN FULL CARBON, ATHERMIC, LIGHTWEIGHT TRUSS TUBE.

AVAILABLE IN ABOUT ZERO CTE OHARA CLEAR CERAM Z HS CERAMIC GLASS.

Optional accessories:

Digital or manual back plate focusers, hi performance field flattener and focal reducers, rotators, secondary mirror focuser, mirror shutters, ATC-02 advanced electronic, finderscopes, customized imaging train parts and more.



PRO RCs from Officina Stellare: the choice of professionals.

The advantages of the **Ritchey-Chrétien telescopes** are very well known.
It's the most widely used optical scheme by professional astronomers and astroimagers all over the world.
The **Hubble Space Telescope** itself uses the RC configuration.

PRO RCs by Officina Stellare represent a step forward in state of the art professional instruments.
The **PRO RC** design is a two element combination of hyperbolic mirrors designed by the most experienced optical engineers with the objective of providing outstanding optical performances. The use of specially figured optical elements results in a superb optical quality, suited for the most demanding researches, astroimagers and professional use.
Maximum light transmission, widest spectral range and a highly corrected large field are the features of the **PRO RC** design.
The **PRO RC** Series cover edge to edge even the largest CCD with the smallest spot size available on the market.
Without the optional flattener lens group (which is an easily user add on optional), and thanks to the versatility of the highly corrected hyperbolic design, the professionals can work with an all reflective system, with **increased light transmission and the widest possible spectral range**.
Thanks to its perfect mechanics, superb certified optics, top level accessories line and our superior customer service, **we give you the most powerful tool to take images of the sky with unsurpassed quality**.

Optics

The **Officina Stellare PRO RC** Series are built around the best quality true Ritchey-Chrétien optical sets available today.
All telescopes can be provided with its own interferometric report, stating and certifying the overall quality to the customer.
Our standard range goes from 400 mm (16 inches) to 800 mm (32 inches), and we offer both low expansion glass (borosilicate, Pirex or similar) or near zero expansion ceramic glass substrate options (**Ohara Clear Ceram Z HS**, Japan, which is one of the best ceramic glass available on the market today). Larger model available.

AVAILABLE WITH ABOUT ZERO CTE OHARA CLEAR CERAM Z HS CERAMIC GLASS MIRRORS SET.

SPECIAL CUSTOM OPTICAL DESIGN AND MANUFACTURE IS AVAILABLE.

AEROSPACE AND MILITARY SPECIAL MATERIALS, COATING, SOLUTIONS AND REQUIREMENTS ARE AVAILABLE.

Mechanics

The **Officina Stellare PRO RC** Series carbon fibre/aluminum compound structure is designed and optimized with CAD and computer support modelling to achieve the best rigidity and lightness. Only full CNC machined parts are used to guarantee the best possible precision. Only special aluminum alloy, stainless steel, titanium and brass metals are used for long lasting, low maintenance operations.
High resistance anodization or multiplayer paint for unbeatable resistance to environmental conditions.
Unique and innovative design of both primary and secondary mirror holding cells.
Absolutely no astigmatism is induced on the mirrors and the absence of mirror shift or flop is guaranteed.
Fastest possible thermal stabilization time, thanks to the mechanical design of cells and to the presence of high quality fans.
Simple to use, efficient and absolutely rock solid collimation system.
Full attention to constructive details: computer designed baffles to protect focal plane from stray light, focal plane tilt adjusting, large focus extraction, high precision spherical joints in the truss structure, double parallel split ring for the secondary mirror/spider support, radial micrometric adjusting of spider, manual or motorized zero shift secondary mirror movement, special opaque paint for all optical path sensible parts and many more details are optimized for professional use.

AVAILABLE IN FULL CARBON, ATHERMIC, LIGHTWEIGHT TRUSS TUBE.

BOTH OPTICAL SETS AND MECHANICS ARE MADE IN ITALY, AT OFFICINA STELLARE'S OCCHIOBELLO/THIENE PLANTS.

Main accessories

ATC-02 Advanced Telescope Controller (LCD display, full digital mirrors temperature close loop control, fans speed control, automatic "over dew point" features, environmental probes for local temperature/pressure/humidity, stand alone or remote/PC control of all features, full ASCOM compliant, and more).
Custom designed, large diameter, flatteners lens groups to improve off axis optical correction.
F/6 reducer/flattener optical groups.
Instrument rotators, off axis guider, optional optical systems.
Secondary mirror servo focusing system.
Focal plane focusers.
Primary mirror shutters system.
Custom plates to mount (one side German or two sides fork mounts).
Fly case and transport wooden cases.
Finder scopes.
Piggy back supports for ancillary equipments.
Professional customer service for imaging train parts optimization, design and manufacture.