

TS-Optics RAP2DEL

Manual



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General information

The 2" focuser from TS-Optics offers high stiffness and is suitable for both observation and astrophotography. The drive has a micro-reduction and a gear-rack combination with helical teeth. This allows precise focusing with little backlash.

In order to take advantage of this design, the focuser must be properly adjusted and set on the bearing surfaces decoupled from the drive and the focusing shaft.

Note: Focusers or screws damaged by the use of incorrect tools cannot be replaced free of charge under warranty!

Checking the adjustment of the focuser

If the focuser tube can be moved evenly and no play is felt when touching it carefully, the focuser is well adjusted.

The focuser is supplied by Teleskop Service with a good presetting. Prolonged use, high load or tough ambient conditions may require readjustment.

Adjusting the focuser

Adjusting the longitudinal bearings

If the focuser tube tilts slightly during focusing, you can adjust the bearings of the tube with the two grub screws marked in red. Please take your time for this and only make small, subtle adjustments, as just 1/20 of a turn can change a lot. You will need an Allen wrench with a width across flats of 2 mm.

Adjusting the gear drive

If the gear drive can only be moved unevenly (jerking) or with sluggishness, it is usually only necessary to adjust the distance between the rack and the focusing shaft/gearwheel.

First loosen the two cylindrical screws marked in green (locking screws) by about 1 turn.

Next, tighten the four grub screws (adjustment screws) marked in blue a little to the left and right of it. In this way, the focusing shaft is moved a small distance away from the focuser tube and thus the rack. Make sure to adjust all four screws as equally as possible.

Carefully tighten the locking screws and check the setting by moving the drawtube over the entire travel.

If necessary, you may have to adjust the setting in several steps until the optimum shaft position is reached.



Storage and transport

After observation, the drawtube should be completely retracted again to prevent dirt and dust from accumulating on the tube.

Please also protect the sensitive reduction unit. A impact on the micro-reduction could damage it.

Cleaning and care

It is not necessary to re-grease the drawtube or the bearings. If cleaning is necessary, it is best to use a soft cleaning cloth

and clear water. Please do not use aggressive cleaning agents.

Interesting accessories

This focuser can be equipped with a motor drive. This allows the focuser tube to be adjusted via a hand control box or a computer. A wide range of adapters is available for connecting a camera or other accessories. You can find information on this in our online store: [RAP2DEL](#)

If you have any questions, please contact our technical consultants: +49(0)89-9922875-0

Of course you can also reach us by e-mail: info@teleskop-service.de

Technical data

Construction:	RAP focuser - bearing and adjustment are decoupled
Load capacity:	up to 5 kg conservatively
Adjustment:	helical toothed rack
Minimum height:	64 mm up to the 2" receptacle - the drawtube then protrudes 33 mm downwards
Adjustment range:	33 mm
Diameter of the drawtube:	maximum 61.5 mm
Anti-reflection rings:	available
Connections eyepiece side:	2" and M54x0.75 female thread
Height of the 2" adapter:	15 mm from the M54 thread
Diameter of the dovetail on the telescope side:	70 mm
Height of the dovetail:	6 mm
Weight:	750 g

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