



# DIAMOND STEELTRACK®

## Baader diamond-gear Steeltrack Focusers (BDS)

*Designed for a new generation of telescopes, supporting unguided imaging and automated operation*

### Drive System:

- True diamonds form a micro-gearred high precision drive system never accomplished before
- In comparison to conventional crayford or rack & pinion drives, this micro-gearred movement has zero backlash, zero cogging, and zero flexure
- Diamond Steeltrack 2" focusers lift a payload of 6kg (13 lbs) straight up, without slipping, without excessive bearing preload (bearing preload can be increased further if necessary)
- Bearing system utilizes unbreakable Instrument Grade Roller-Bearings instead of simpler Ball Bearings - handles higher loads with greater rigidity and accuracy. No Teflon-pads anywhere
- 1:10 Stainless Steel fine-focus mechanism, ready for attachment of the optional Steeldrive temperature-compensating motor drive system
- Detachable drive block assembly is reversible for right hand or left hand fine-focus operation and for attaching the Steeldrive motorblock onto Diamond-NT-Steeltracks for newtonian telescopes
- Shortest possible mechanical design achieves optimum balance between focuser height (backfocus) and rigidity requirements
- Zero shift locking knob to precisely stop any movement without affecting optical axis adjustment

### Focusing Drawtube:

- Each bearing individually adjustable for precise alignment of mechanical vs. optical axis
- Ultra-hard subzero coated bearing races – precision milled and much harder than anodizing or stainless steel
- Oversized 55mm inner clear diameter, to prevent vignetting, with anti-reflection knife-edge baffles

### Clamping System:

- S58 Dovetail ring-clamp built into focusing tube for accepting optional T-2 / M48 / M68 and other S58 direct-thread adapters to enable direct thread connection of accessories and cameras without 2" clamp
- 2" eyepiece clamp with hardened bronze clamp ring (length of clamp: 12.5mm / ½") included as standard
- Optionally available 2" Baader Clicklock-clamp w. integrated S58 dovetail (added length: 16mm / 5/8")
- Two auxiliary threads (M60x1 and M55x0,75) cut into the RT & NT focusing-tube for attachment of dedicated field flatteners or focal reducers/correctors

### Telescope Adapters:

- Refractor-BDS (RT):                      Adapters available or under development to fit a wide variety of refractor telescopes
- Newtonian-BDS (NT):                   Includes Baader Versabase, for perfect fit onto most tube diameters.  
*Optional flat mounting base available soon*
- SC/HD-BDS (SC/HD):                   Includes adapter to fit all C14/C11/C9¼/C8/C6/C5 OTA's

Focuser	Focus Travel	Minimum Height (as supplied – incl. 2" clamp)	Minimum Height (w/ opt. S58 direct-thread adapters)	Focuser Weight (as supplied – incl. 2" clamp)
BDS-RT	80 mm	78 mm	65 mm	1.16 kg / 40.90 oz
BDS-NT	40 mm	63 mm	50 mm	1.00 kg / 35.25 oz
BDS-SC/HD	30 mm	93 mm	80 mm	1.04 kg / 36.70 oz



# BAADER PLANETARIUM

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