

OTHER INSTRUMENTS

INSTRUMENTS FOR THE OPTICAL WORKSHOP

Besides the modular designed testing telescopes and collimators MÖLLER-WEDEL OPTICAL offers a whole lot of other telescopes and collimators for diverse measuring tasks in the optical workshop.

For alterations of the magnification interchangeable eyepiece $f=10$ mm and $f=25$ mm can be used as an option.

DIOPTER TELESCOPES

Fig. A

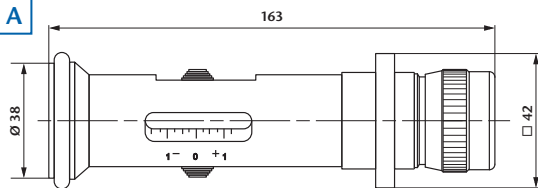
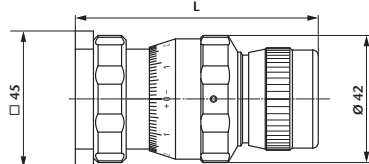


Fig. B



Description:

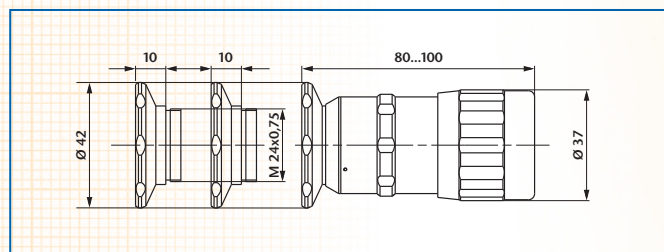
Diopter telescopes are adjustable focus telescopes that serve the measurement of optical power of lenses in diopter. The measuring result can be directly read from the diopter graduation.

Application examples:

- Fast testing of optical power
- Testing the diopter graduation and infinity adjustment of eyepieces
- For additional enlargement on telescopes, e.g. when adjusting reticles
- As Reading Telescope in the negative distance range

Ident.-Nr.	Description	Meas. range	Scale division	Field of view at ∞	Focal length	L	Fig.
233 202	Diopter telescope $\pm 1,5$	+1,5 to -1,5 dpt	0,25 dpt	6°	90 mm	–	A
233 212	Diopter telescope +6,0/-3,0	+6,0 to -3,0 dpt	0,20 dpt	11°	50 mm	79...99	B
233 222	Diopter telescope +0,2/-5,8	+0,2 to -5,8 dpt	0,20 dpt	11°	50 mm	90...110	B
233 234	Diopter telescope $\pm 5,0$	+5,0 to -5,0 dpt	0,10 dpt	13°	40 mm	76...93	B

DYNAMETER



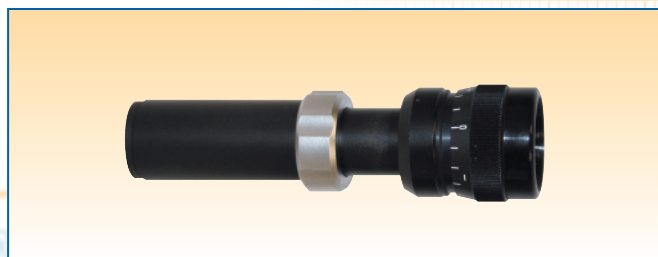
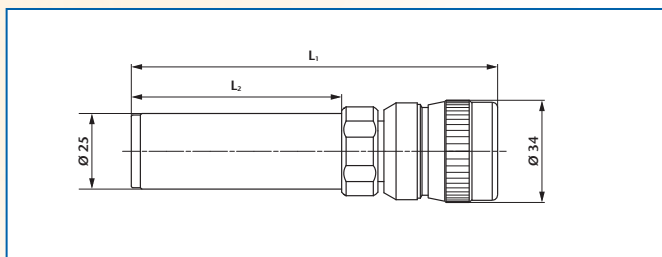
Description:

- For measurement of telescope magnification
- For diameter measurement of the exit pupil
- For measurement of the distance between exit pupil and eyepiece
- Lens magnification 7,5x



Ord.-No.	Description
233 241	Dynameter
233 245	Tube attachment 10 mm

READING TELESCOPES WITH FOCUSING ADJUSTMENT



Description:

- For the magnified representation of remote objects
- Reticle 208 111 (crossline 10 µm)
- Tube diameter Ø 25 mm
- Focal length objective $f=50$ mm

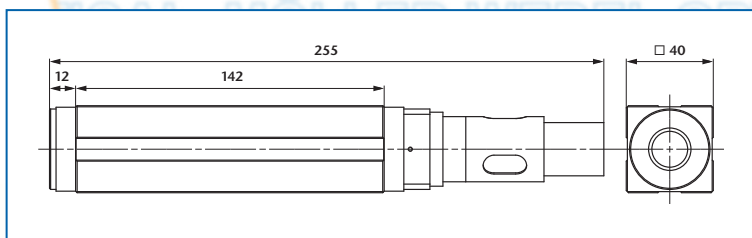
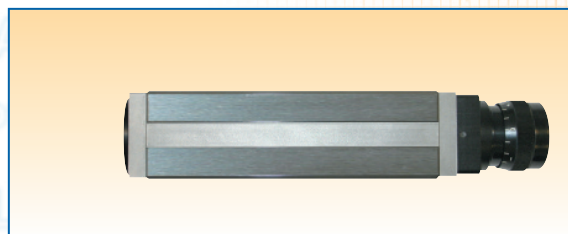
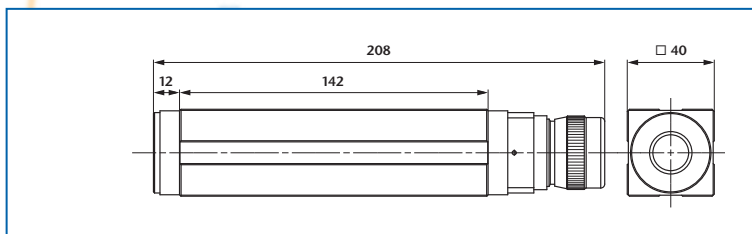
The telescopes magnification can be calculated at the infinity settings as follow:

- f_1 – Focal length of the objective
- f_2 – Focal length of the eyepiece

$$V = f_1/f_2$$

Ord.-No.	Description	Object distance	Reading magnification	Field of view	L1	L2
233 252	Reading telescope D25 U/105	from ∞ to 105 mm	3,4 x 12,0 x	11,5° 14,0 mm	100 mm 136 mm	50 mm
233 255	Reading telescope D25 213/73	from 213 mm to 73 mm	4,7 x 23,0 x	36,0 mm 7,5 mm	117 mm 169 mm	67 mm
233 258	Reading telescope D25 97/51	from 97 mm to 51 mm	14 x 52 x	12,5 mm 3,3 mm	141 mm 210 mm	91 mm

SQUARE BODY TELESCOPES AND COLLIMATORS



Description:

- For use on plane reference surfaces
- Measurement for 180°-reversion
- Square body with ground surface
- Parallelism of optical to mechanical axes: $< 10''$
- Eyepiece and illumination are freely interchangeable

- Telescope magnification 9,5 x
- Focal length objective 140 mm
- Field of View (with eyepiece $f=14,7$ mm) 4,0°
- Free aperture objective 16 mm

Ord.-No.	Description	Eyepiece	Illuminator	Reticle
233 101	FQ 140/40	$f=14,7$	–	208 125 Double crossline 0,04
233 103	KQ 140/40	–	6V/5W	208 111 Single crossline 0,01