

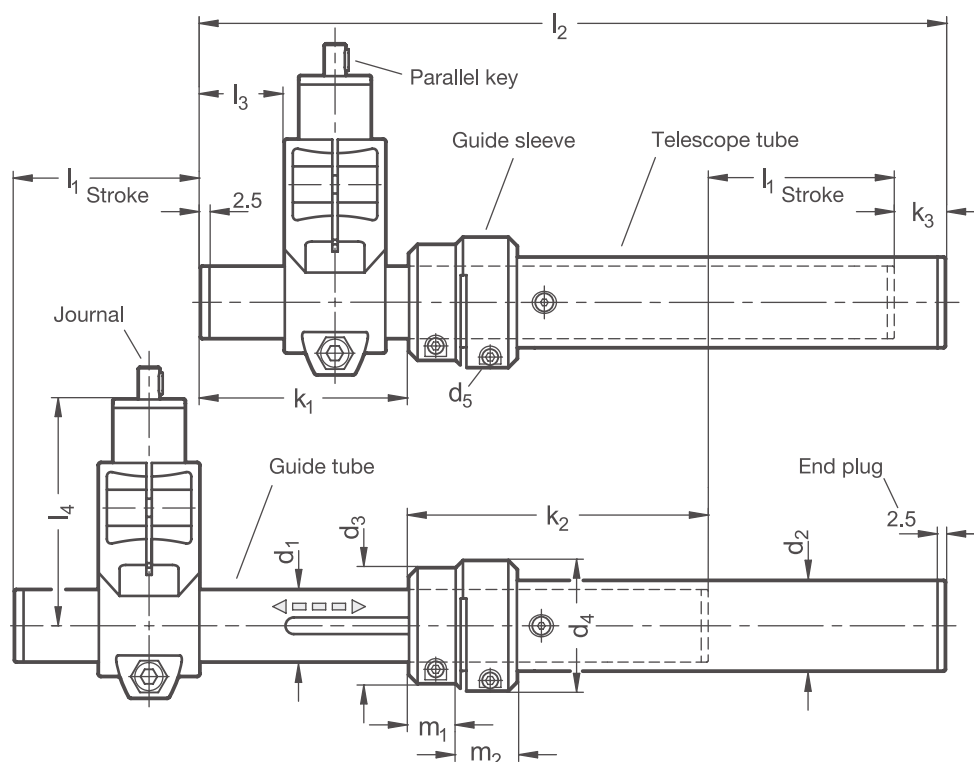
PRODUCT INFO

The tubes of the **telescope linear units VT1W** are made of chrome-plated steel or bright, seamless stainless steel precision tubes. A continuous spindle with ball bearings on each side is installed in the guide tube. The attached spindle nut transmits the linear movements to the telescope tube, initiating an adjustment of the telescope linear unit travel distance.

The guide tube is fitted with sliding inserts and forms a solid linear round guide together with the telescope tube. The linear unit can be adjusted for low backlash or clamped in place via the slitted guide sleeve. The drive is offset by 90 degrees by means of an angle gear, allowing the telescope linear unit to be fastened at the end. Depending on the type of fastening, the drive of the linear unit remains at the fastening point or is carried along by the travel movement.

Accessory parts are listed in the tables and are already taken into account when selecting the linear units. This ensures that the length of the shaft journal z is correct for attachment of the accessories, for example. The accessories are not included with the linear units and must be ordered separately.

RoHS-compliant product



d_1	Stroke max. l_1	Edge distance 1 min. k_1	Guide length min. k_2	Edge distance 2 min. k_3	d_2	d_3	d_4	d_5	Total length max. (retracted) ($k_1 + k_2 + l_1 + k_3$) l_2	l_3	l_4	m_1	m_2
18	300	80	72	18	25	34	40	M 4	600	45	67	13	19
30	400	125	80	20	35	49	54	M 5	1000	70	86	15,5	20,5
40	600	165	115	20	50	64	72	M 6	1200	100	125	26	34
50	700	170	130	30	60	75	85	M 6	1300	100	125	25	35

Material **w**

ST	Steel • Guide tube, DIN EN 10305-4: Steel, chrome-plated • Trapezoidal / fine thread spindle: Steel, with ball bearing • Spindle nut: Red brass / end plug: Plastic / Guide sleeve: Aluminum
ED	Stainless steel • Guide tubes, EN 10216-5: Stainless steel AISI 304 • Trapezoidal / fine thread spindle: Stainless steel AISI 303, with ball bearing • Spindle nut: Red brass / end plug: Plastic / Guide sleeve: Aluminum

Spindle thread direction **r**

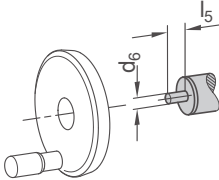
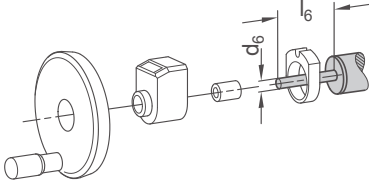
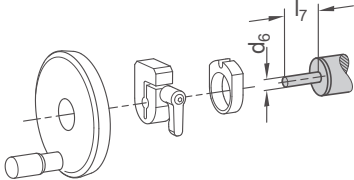
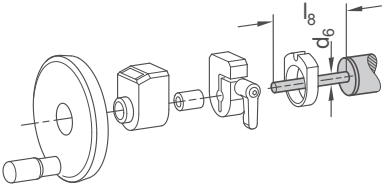
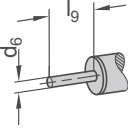
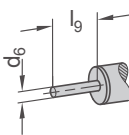
RH	Right-hand thread
LH	Left-hand thread

d_1	Spindle pitch p		Journal diameter d_6	Journal length B l_5	Journal length D l_6	Journal length E l_7	Journal length F l_8	individual journal length l_9
	Trapezoidal thread	Fine thread, metric						
18	3	1	6	16	44	-	-	16...65
30	4	1	8	16	52	31	67	16...67
40	4	1	12	17	59	32	74	17...74
50	4	1	12	18	60	33	75	18...75

Accessories:

d_1	Torque support	Clamping plate	Position indicator		Handwheel
30	VZDR	VZK	VZPM	VZPE	VZH
40	VZDR	VZK	VZPM	VZPE	VZH

Journal
Z

B	Journal for handwheel	D	Journal for position indicator and handwheel	E	Journal for spacer plate and handwheel
					
Journal length l_5		Journal length l_6		Journal length l_7	
F	Journal for spacer plate, position indicator and handwheel	Gxx	Individual length with keyway (for xx enter value from column l_9)	Hxx	Individual length without keyway (for xx enter value from column l_9)
					
Journal length l_8		Journal length l_9		Journal length l_9	

ACCESSORIES

- Handwheels **VZH** → see page 356
- Position indicators **VZPM / VZPE** → see page 358 / 360
- Clamping plates **VZK** → see page 362
- Torque supports **VZDR** → see page 364

ORDER KEY

Name key	Supplemental key
VT1W - d ₁ - w - l ₁ - k ₁ - k ₂ - k ₃ - r - p - z	

Telescope linear unit	
Outer diameter	
Material	
Stroke	
Edge distance 1	
Guide length	
Edge distance 2	
Spindle thread direction	
Spindle pitch	
Journal z	

