

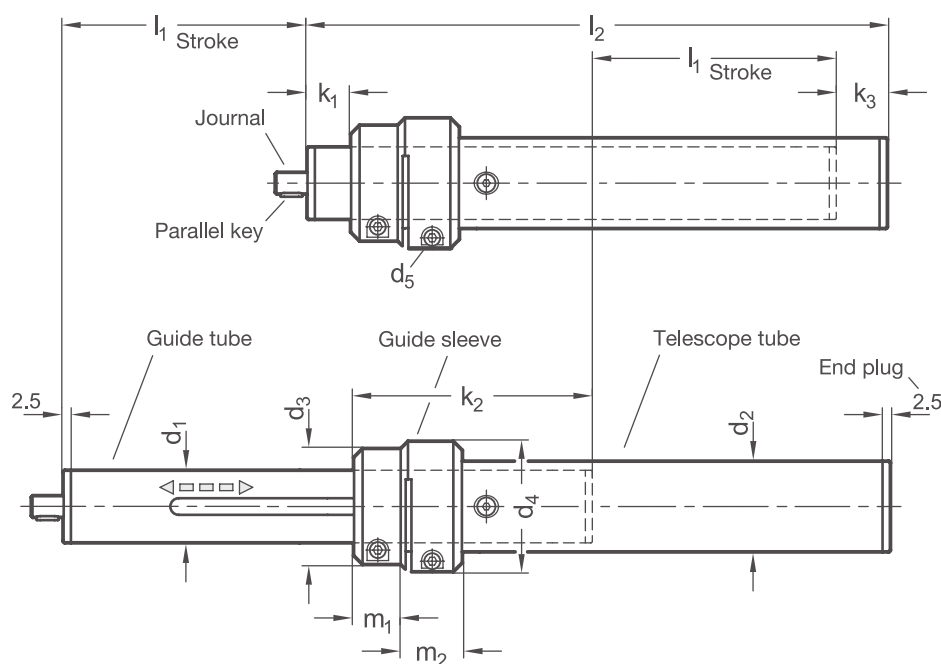
PRODUCT INFO

The tubes of **telescope linear units VT1S** 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 situated on the end, allowing the telescope linear unit to be fastened from the side. 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 attaching 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. ($k_1 + k_2 + l_1 + k_3$) l_2	m_1	m_2
18	300	60	72	18	25	34	40	M 4	600	13	19
30	400	80	80	20	35	49	54	M 5	1000	15,5	20,5
40	600	110	115	20	50	64	82	M 6	1200	26	34
50	700	110	130	30	60	75	85	M 6	1300	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

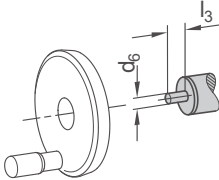
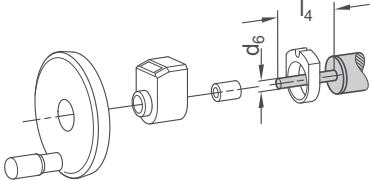
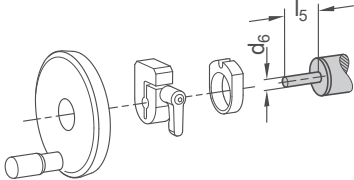
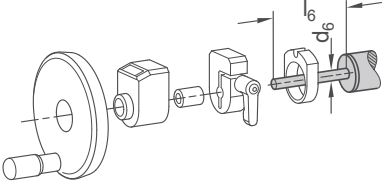
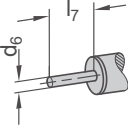
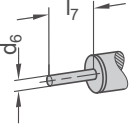
Spindle thread direction **r**

RH	Right-hand thread
LH	Left-hand thread

d_1	Spindle pitch p		Journal diameter d_6	Journal length B l_3	Journal length D l_4	Journal length E l_5	Journal length F l_6	individual journal length l_7
	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

d_1	Accessories:				
	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_3		Journal length l_4		Journal length l_5	
F	Journal for spacer plate, position indicator and handwheel	Gxx	Individual length with keyway (for xx enter value from column l_7)	Hxx	Individual length without keyway (for xx enter value from column l_7)
					
Journal length l_6		Journal length l_7		Journal length l_7	

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
Telescope linear unit	VT1S - d ₁ - w - l ₁ - k ₁ - k ₂ - k ₃ - r - p - z	
Outer diameter		
Material		
Stroke		
Edge distance 1		
Guide length		
Edge distance 2		
Spindle thread direction		
Spindle pitch		
Journal z		

