VT1W | Telescope linear units with side drive

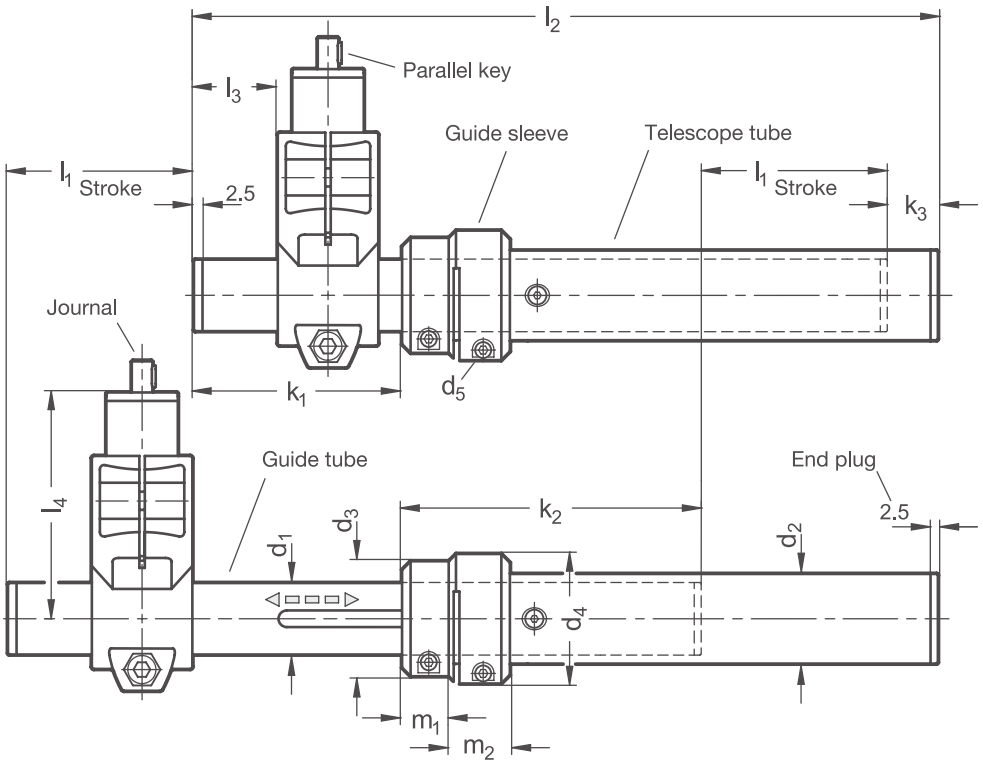
PRODUCT INFO

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
30	...400	120	73	12	35	49	54	M 5	1000	70	86	15	21
40	...600	156	94	12	50	64	72	M 6	1400	90	125	26	34

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

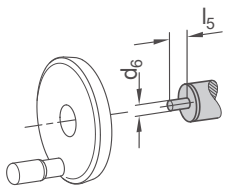
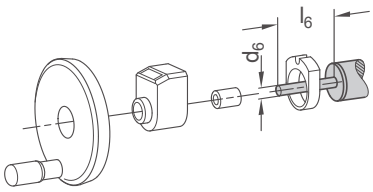
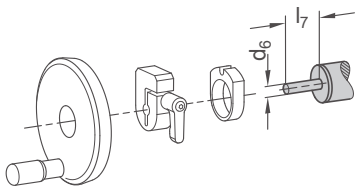
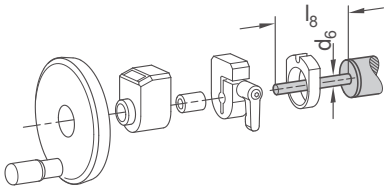
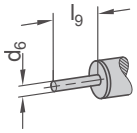
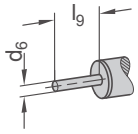
RH	Right-hand thread
LH	Left-hand thread

d_1	Spindle Ø	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						
30	14	4	1	8	16	52	31	67	16...67
40	20	4	1	12	17	59	32	74	17...74

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	

2A

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