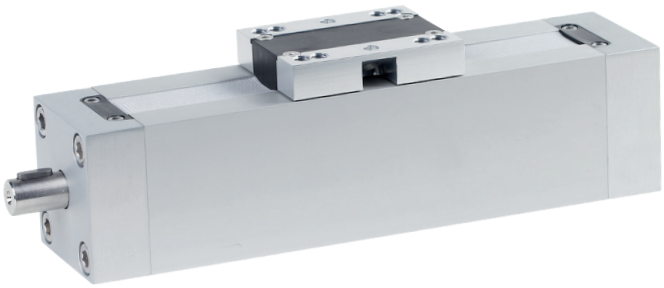


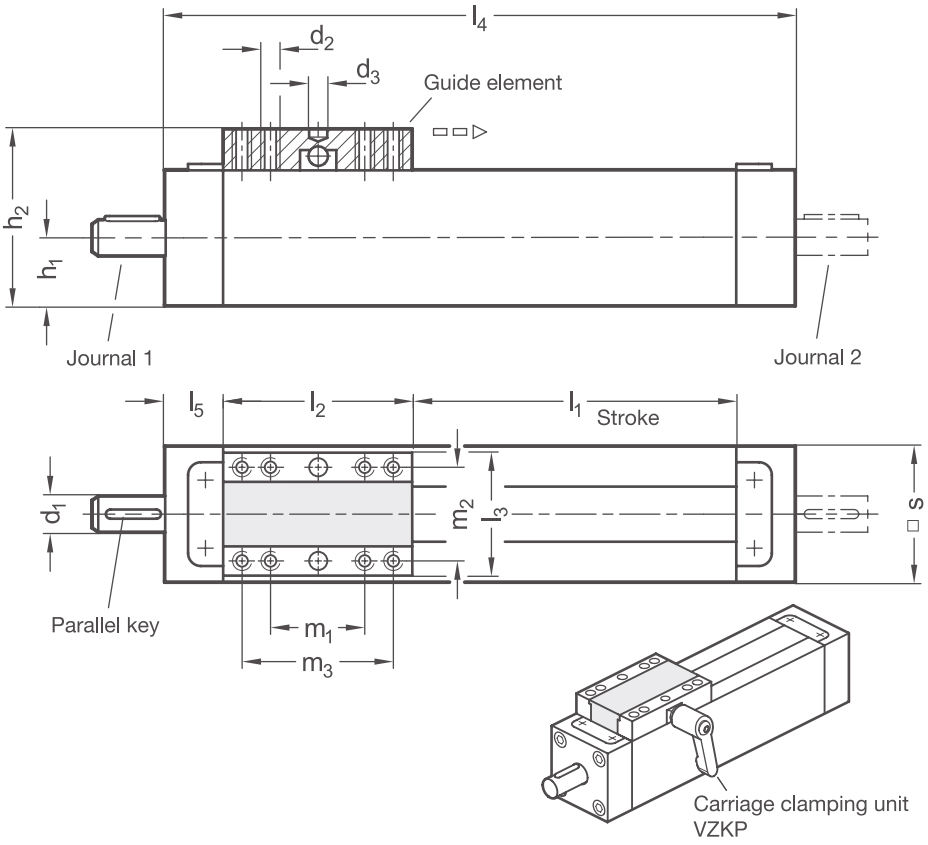
PRODUCT INFO

The housing of the **profile linear units VP1S** is made of aluminum profile.
The aluminum end pieces serve as bearing housings and close the linear profile units. A continuous spindle with ball bearings on each side is installed in the aluminum profil. The spindle nut transmits the linear movements to a linear unit connector along the guide groove.

Profile adjustment units can be individually equipped with mounting holes. You can choose between threaded holes for mounting from below or through-holes with flat countersunk holes for mounting from above. Depending on the design, the part to be moved is fastened to the guide element or the guide element itself is installed at the place of use such that the entire linear unit moves together.

Possible accessories are already taken into account in the selection of the linear units according to the options given in the tables. This ensures, for example, that the journal lengths z_1 and z_2 are appropriate for attachment of the accessories. Accessories are not included with the linear units and must be ordered separately.

RoHS-compliant product



s	Stroke max. l_1	d_1	d_2	d_3 H7	h_1	h_2	l_2 Type A	l_2 Type B	l_3	max. l_4	l_5	m_1	m_2	m_3 Type A	m_3 Type B
30	1000	8	M 5	4	15	39	40	84	29	1112	14	22	22	-	66
50	1500	12	M 6	5	25	62	60	120	49	1662	21	36	36	48	108

Material
w

ST	Steel • Housing / guide element atural anodized • Metric threaded spindle: Steel, with ball bearing • Spindle nut: POM • Belt clamping / guide element cover / sliding guides: Plastic
ED	Stainless steel • Housing / guide element atural anodized • Metric threaded spindle: Stainless steel AISI 303, with ball bearing • Spindle nut: POM • Belt clamping / guide element cover / sliding guides: Plastic

Type
t

A	Guide element short
B	Guide element long

Spindle thread direction
r

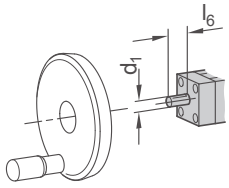
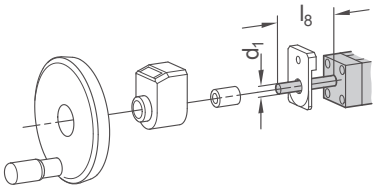
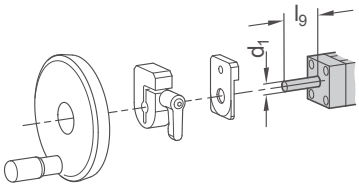
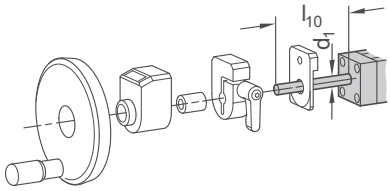
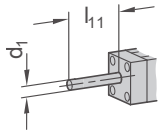
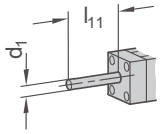
RH	Right-hand thread
LH	Left-hand thread

s	Spindle Ø	Spindle pitch **p** / Thread	Journal diameter d_1	Journal length B l_6	Journal length C l_7	Journal length D l_8	Journal length E l_9	Journal length F l_{10}	individual Journal length l_{11}
30	10	1,5	8	16	39	55	34	70	16...70
50	16	2	12	18	49	67	40	82	18...82

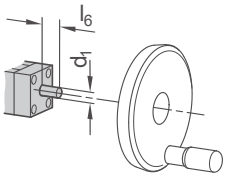
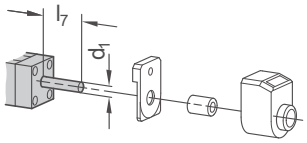
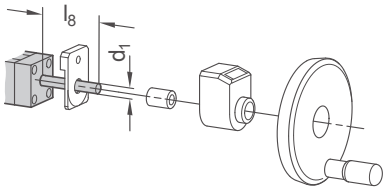
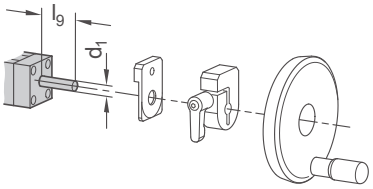
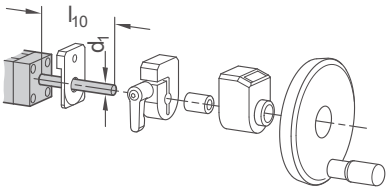
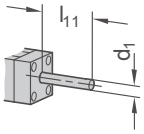
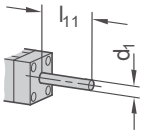
Accessories:

d_1	Torque support	Clamping plate	Position indicator		Handwheel
30	VZDP	VZK	VZPM	VZPE	VZH
50	VZDP	VZK	VZPM	VZPE	VZH

Zapfen
z_1

B	Journal for handwheel	D	Journal for position indicator and handwheel	E	Journal for clamping plate and handwheel
 Journal length l_6		 Journal length l_8		 Journal length l_9	
F	Journal for clamping plate, position indicator and handwheel	Gxx	Individual length with keyway (for xx enter value from column l_{11})	Hxx	Individual length without keyway (for xx enter value from column l_{11})
 Journal length l_{10}		 Journal length l_{11}		 Journal length l_{11}	

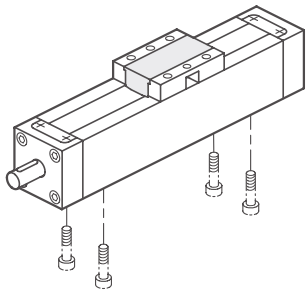
Zapfen
z_2

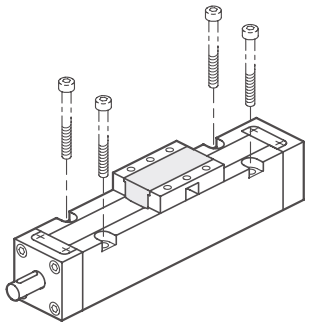
A	Without journal	B	Journal for handwheel	C	Journal for position indicator
		 Journal length l_6		 Journal length l_7	
D	Journal for position indicator and handwheel	E	Journal for clamping plate and handwheel	F	Journal for clamping plate, position indicator and handwheel
 Journal length l_8		 Journal length l_9		 Journal length l_{10}	
Gxx	Individual length with keyway (for xx enter value from column l_{11})	Hxx	Individual length without keyway (for xx enter value from column l_{11})		
 Journal length l_{11}		 Journal length l_{11}			

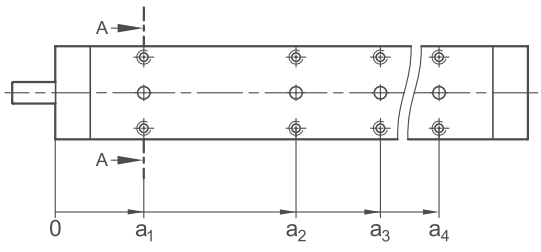
2A

Mounting option
b

W	without mounting option		
U	from below (threaded hole)	O	from above (through-hole with flat counterbore)

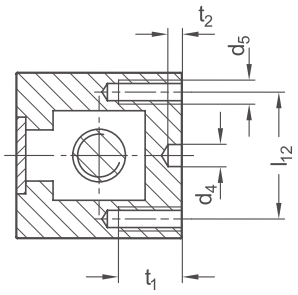


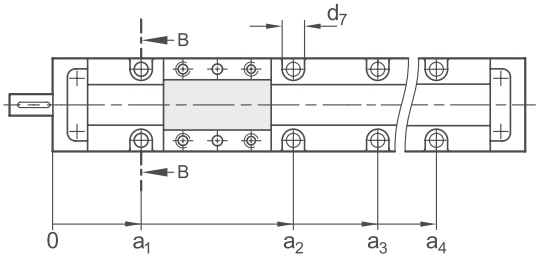




Fixing holes

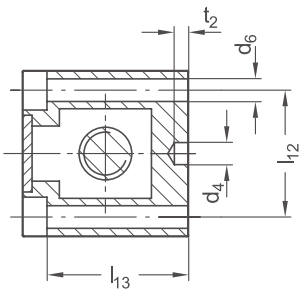
Sectional view A-A
(Mounting holes)





Fixing holes

Sectional view B-B
(Mounting holes)



s	d_4 H7	d_5	d_6	d_7	l_{12}	l_{13}	t_1	t_2
30	3	M 3	3,4	6,5	24	26,6	10	3
50	5	M 5	5,5	10	40	44,6	12	5

ORDER KEY

WITH MOUNTING HOLES

Name key | Supplemental key

VP1S - s - w - l_1 - t - r - p - z_1 - z_2 - b- a_1 - a_2 - a_3 - a_4

- Profile linear unit
- Outer diameter
- Material
- Stroke
- Type
- Spindle thread direction
- Spindle pitch
- Journal z_1
- Journal z_2
- Mounting option
- Mounting positions (only to be specified for mounting option U / O)

ACCESSORIES

- Handwheels **VZH** → *see catalog page 356*
- Position indicators **VZPM / VZPE** → *see page 358*
- Clamping plate **VZK** → *see page 362*
- Torque supports **VZDP**
- Carriage clamping unit **VZKP**