



PRODUCT INFO

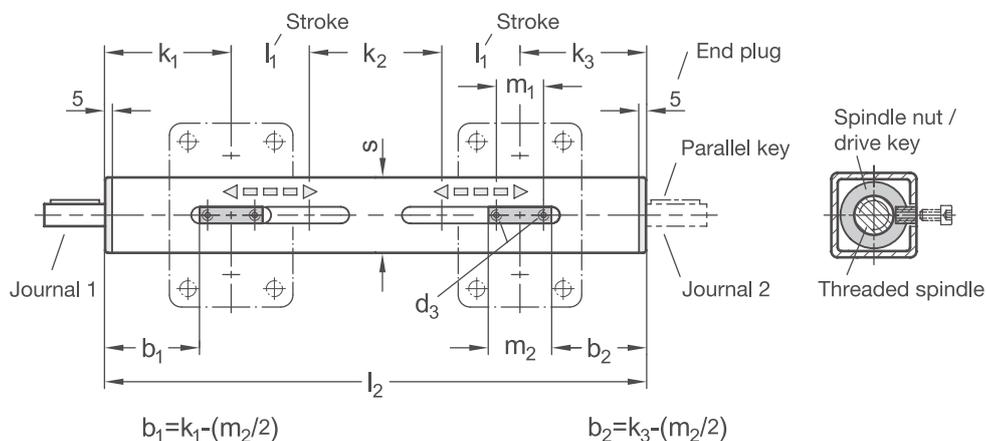
The guide tubes of the **linear units VE2V** are made of chrome-plated steel or bright stainless steel precision tubes. A spindle with ball bearings on both sides is installed in the guide tube. This is comprised of one part with left-hand thread and one with right-hand thread. The spindle nuts positioned on the left and right transmit the symmetrical and opposing linear movements to two linear unit connectors via two drive keys along the guide groove.

Together with the guide tube, the guide element bores form solid linear square mechanisms that can receive large torsional forces. Multiple connector types are available for selection and can be adjusted or clamped for low play using the split bore. The parts to be moved are fastened to the guide element, such as for format adjustments, in which one side guide is symmetrically moved to various widths.

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. The linear unit connectors and the accessories are not included with the linear units and must be ordered separately.

Adjustable hand levers are intended for repeated, tool-free clamping of the guide elements. Under the designation HSK, these are available separately for individual use and in other designs. Compared with the tool-operated hex socket cap screw, the clamping force achievable with an adjustable hand lever is lower due to the shorter lever length.

RoHS-compliant product



s	Stroke max. l₁	Edge distance 1 min. k₁	Spacing min. k₂	Edge distance 2 min. k₃	d₃	Total length max. (k₁+k₂+k₃+2× l₁) l₂	m₁	m₂
30	601	59	50	59	M 4	1460	23	38
40	753	72	66	72	M 5	1810	42	54
50	748	77	70	77	M 6	1810	42	54

Material **W**

ST	Steel <ul style="list-style-type: none"> • Guide tube, DIN EN 10305-4: Steel, chrome-plated • Trapezoidal / fine thread spindle: Steel, with ball bearing • Spindle nut: Red brass / end plug: Plastic
ED	Stainless steel <ul style="list-style-type: none"> • 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

Spindle thread direction **r**

RH	Right-hand thread on journal z ₁ , Left-hand thread on journal z ₂
LH	Left-hand thread on journal z ₁ , Right-hand thread on journal z ₂

s	Spindle ∅	Spindle pitch p		Journal diameter d₂	Journal length B l₃	Journal length C l₄	Journal length D l₅	Journal length E l₆	Journal length F l₇	individual journal length l₈
		Trapezoidal thread	Fine thread, metric							
30	14	4	1	8	16	36	52	31	67	16...67
40	20	4	1	12	17	42	59	32	74	17...74
50	20	4	1	12	18	42	60	33	75	18...75

Accessories:

s	Torque support	Clamping plate	Position indicator		Handwheel
30	VZDV	VZK	VZPM	VZPE	VZH
40	VZDV	VZK	VZPM	VZPE	VZH
50	VZDV	VZK	VZPM	VZPE	VZH

Journal
Z₁

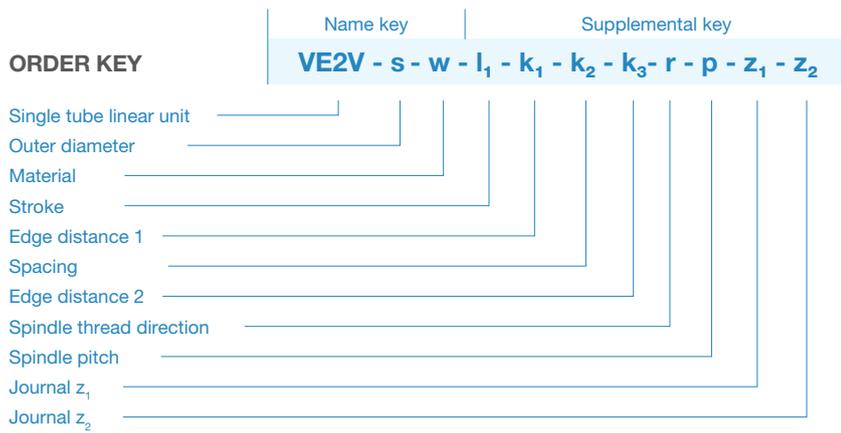
B	Journal for handwheel	D	Journal for position indicator and handwheel	E	Journal for spacer plate and handwheel (only for $d_1 \geq 30$)
<p>Journal length l_3</p>		<p>Journal length l_5</p>		<p>Journal length l_6</p>	
F	Journal for spacer plate, position indicator and handwheel (only for $d_1 \geq 30$)	Gxx	Individual length with keyway (for xx enter value from column l_8)	Hxx	Individual length without keyway (for xx enter value from column l_8)
<p>Journal length l_7</p>		<p>Journal length l_8</p>		<p>Journal length l_8</p>	

Journal
Z₂

A	Without journal	B	Journal for handwheel	C	Journal for position indicator
		<p>Journal length l_3</p>		<p>Journal length l_4</p>	
D	Journal for position indicator and handwheel	E	Journal for spacer plate and handwheel (only for $d_1 \geq 30$)	F	Journal for spacer plate, position indicator and handwheel (only for $d_1 \geq 30$)
<p>Journal length l_5</p>		<p>Journal length l_6</p>		<p>Journal length l_7</p>	
Gxx	Individual length with keyway (for xx enter value from column l_8)	Hxx	Individual length without keyway (for xx enter value from column l_8)		
<p>Journal length l_8</p>		<p>Journal length l_8</p>			

ACCESSORIES

- Handwheels **VZH** → see page 356
- Position indicators **VZPM / VZPE** → see page 358 / 360
- Clamping plates **VZK** → see page 362
- Torque supports **VZDV** → see page 366
- Angle gears → on request
- Transfer units **VA** → see page 370



LINEAR UNIT CONNECTORS

The single tube linear unit VE2V only becomes a functional axis after attachment of a linear unit connector. Linear unit connectors are available in a variety of designs for different applications. To simplify the selection process, an overview is provided on page 238.

