



### **PRODUCT INFO**

The guide tubes of the **linear units VE3R** are made of chrome-plated steel or bright stainless steel precision tubes. Two independent spindles with ball bearings on each side are installed in the guide tube. The thread direction of the spindles can be chosen as desired for each side. The spindle nuts positioned on each spindle transmit the linear movements to the linear unit connector via a drive key along the guide groove, independently of the opposite side.

The guide element bores form solid linear round guides together with the guide tube. Multiple connector types are available for selection and can be adjusted or clamped for low play using the slitted bore. The parts to be moved are fastened to the guide element, such as for format adjustments, in which one side guide is moved independently from the opposite side 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** 





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d <sub>1</sub>	Stroke max.	Stroke max.	Edge distance 1 min. <b>k</b> <sub>1</sub>	Spacing min. <b>k<sub>2</sub></b>	Edge distance 2 min. <b>k<sub>3</sub></b>	d₃	Total length max. $(k_1 + k_2 + k_3 + l_1 + l_2)$ <b>J</b> <sub>3</sub>	m <sub>1</sub>	m <sub>2</sub>
30	601	601	57	50	57	M 4	1455	23	38
40	753	753	76	66	76	M 5	1805	42	54
50	748	748	80	70	80	M 6	1805	42	54
60	715	715	98	90	98	M 8	1805	58	70

#### 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
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

Spindle 1 thread direction (on journal z,) <b>r</b> 1						
RH	Right-hand thread					
LH	Left-hand thread					

Spind <b>r</b> 2	Spindle 2 thread direction (on journal $z_2$ ) $r_2$						
RH	Right-hand thread						
LH	Left-hand thread						

		Spindle pitch spindle 1 <b>P</b> 1		Spindle pitch spindle 2 <b>P</b> <sub>2</sub>		Journal	Journal length	Journal length	Journal length	Journal length	individual journal
d <sub>1</sub>	Spindle Ø	Trapezoidal thread	Fine thread, metric	Trapezoidal thread	Fine thread, metric	diameter d <sub>2</sub>	B I <sub>4</sub>	D I <sub>5</sub>	E I <sub>6</sub>	F I <sub>7</sub>	length
30	14	4	1	4	1	8	16	52	31	67	1667
40	20	4	1	4	1	12	17	59	32	74	1774
50	20	4	1	4	1	12	18	60	33	75	1875
60	24	5	1,5	5	1	14	19	61	34	76	1976

# Accessories:

d <sub>1</sub>	Torque support	Clamping plate	Position indicator		Handwheel
30	VZDR	VZK	VZPM	VZPE	VZH
40	VZDR	VZK	VZPM	VZPE	VZH
50	VZDR	VZK	VZPM	VZPE	VZH
60	VZDR	VZK	VZPM (only trapezoidal thread)	VZPE	VZH

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Journal **Z**2



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## 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
- Angle gears YLS / YTS → see page 374 / 376
- − Transfer units VA → see page 370



## LINEAR UNIT CONNECTORS

The single tube linear unit VE3R 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.



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