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Rost frei

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### PRODUCT INFO

The guide tubes of the **linear units VE1R** are made of chrome-plated steel or bright stainless steel precision tubes. A continuous spindle with ball bearings on each side is installed in the guide tube. The spindle nut transmits the linear movements to a linear unit connector via a drive key along the guide groove.

The guide element bore forms a solid linear round guide 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. 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. 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**





d1	Stroke max. I <sub>1</sub>	Edge distance 1 min. <b>k</b> 1	Edge distance 2 min. <b>k</b> _2	d <sub>3</sub>	Total length max. $(k_1 + l_1 + k_2)$	m <sub>1</sub>	m <sub>2</sub>	Ç
18	350	40	40	M 3	490	17	24	
30	1250	57	57	M 4	1455	23	38	
40	1570	70	70	M 5	1805	42	54	
50	1565	75	75	M 6	1805	42	54	
60	1520	88	88	M 8	1805	58	70	C
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# Material

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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 thread direction

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RH	Right-hand thread
LH	Left-hand thread

	Spindle pitch									
d1	Spindle Ø	Trapezoidal thread	Fine thread, metric	Journal diameter <b>d<sub>2</sub></b>	Journal length B <b>I<sub>3</sub></b>	Journal length C <b>I<sub>4</sub></b>	Journal length D <b>I<sub>5</sub></b>	Journal length E <b>I<sub>6</sub></b>	Journal length F <b>I<sub>7</sub></b>	Individual journal length <b> <sub>8</sub></b>
18	10	3	1	6	16	28	44	-	-	1665
30	14	4	1	8	16	36	52	31	67	1667
40	20	4	1	12	17	42	59	32	74	1774
50	20	4	1	12	18	42	60	33	75	1875
60	24	5	1,5	14	19	42	61	34	76	1976

## Accessories:

d <sub>1</sub>	Torque support	Clamping plate	Position indicator		Handwheel
18	VZDR	-	VZPM	-	VZH
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

\* only for stroke  $\leq$  1000 mm

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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 VE1R 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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