



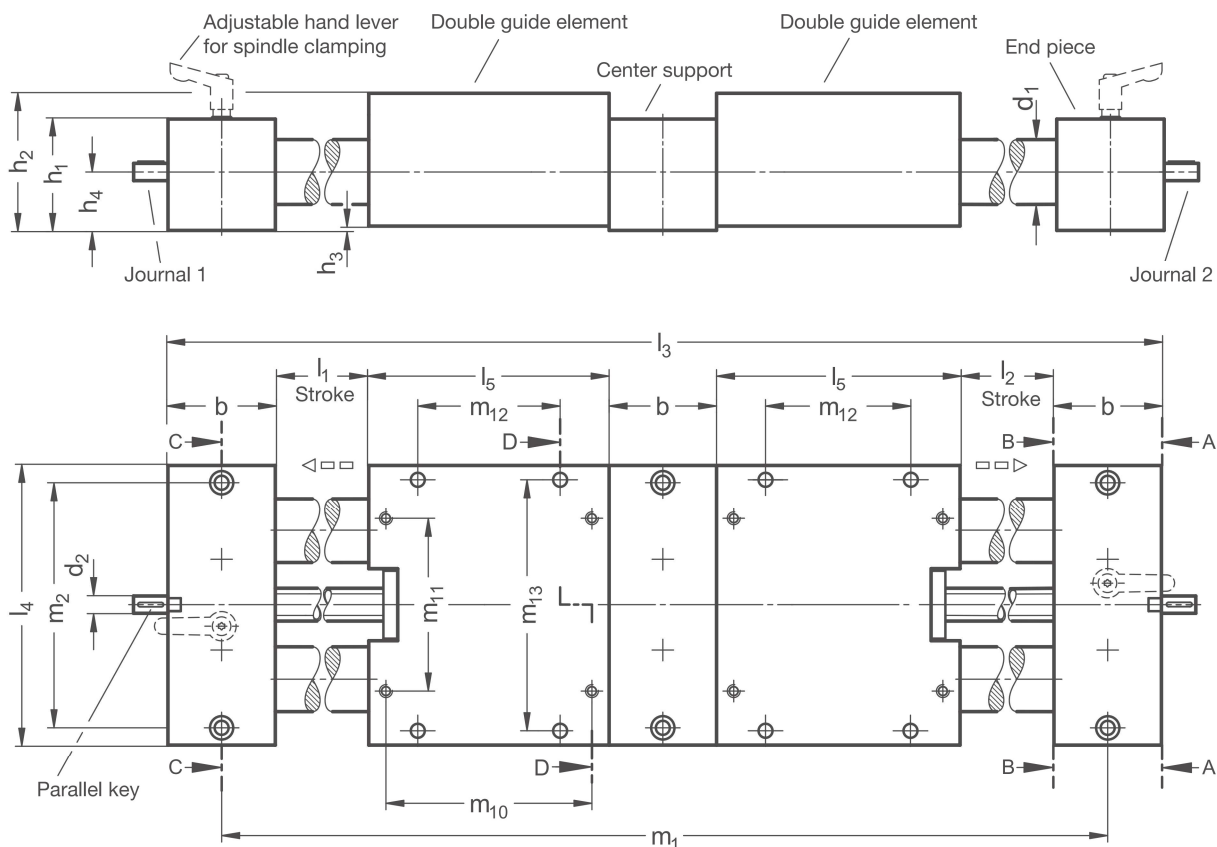
PRODUCT INFO

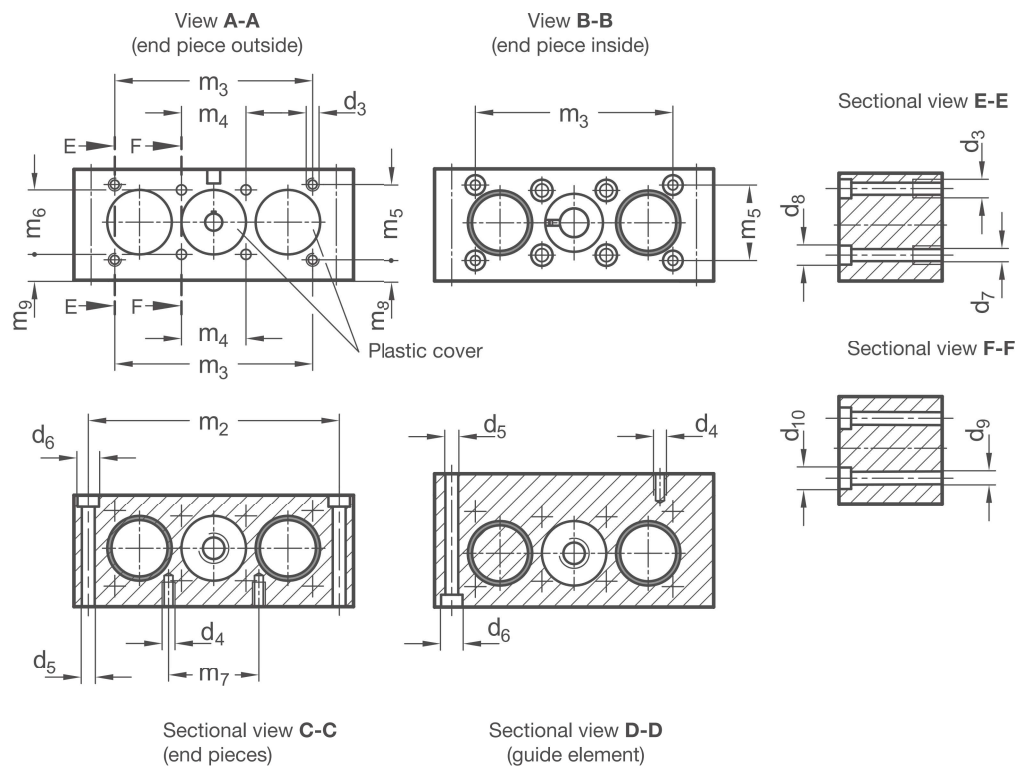
The round guides of the **precision double tube linear units PD3DK** are made of hard-chrome-plated steel or polished stainless steel solid shafts. The aluminum CNC end pieces connect the solid shafts and form a very precise linear guide together with the guide elements. Two independent whirled or rolled recirculating ball screws run through the center of the assembly. The roller-guided double guide elements are moved linearly along the spindle threads by the integrated ball screw nuts – independently of the opposite side.

Double tube linear units have high torsional stiffness and can handle high weights and torques. The double guide element distributes the load among four guide points, allowing for even higher loads.

Accessory parts are listed in the tables and are already taken into account when selecting the linear units. This ensures, for example, that the lengths of the journals z_1 and z_2 are correct for attachment of the accessories. The accessories are not included with the linear units.

RoHS-compliant product





d_1	Stroke l_1	Stroke l_2	b	d_2	d_3	d_4	d_5	d_6	For screws DIN 912	d_7	d_8	For screws DIN 912	d_9	d_{10}	For screws DIN 912
25	...750	...750	50	8	M 6	M 6	6,1	10,5	M 6	5,5	10	M 5	6,6	11	M 6
40	...1030	...1030	60	12	M 8	M 8	8,4	13,5	M 8	6,6	11	M 6	8,6	13,5	M 8

d_1	h_1	h_2	h_3	h_4	l_3	l_4	l_5	m_1	m_2	m_3	m_4	m_5	m_6	m_7
25	52	64	2	27	$3xb + 2xl_5 + l_1 + l_2$	130	130	$2xb + 2xl_5 + l_1 + l_2$	114	97	30	35	30	42
40	60	75	3	31,5	$3xb + 2xl_5 + l_1 + l_2$	180	180	$2xb + 2xl_5 + l_1 + l_2$	160	138	39	38	39	52

d_1	m_8	m_9	m_{10}	m_{11}	m_{12}	m_{13}	Parallel key DIN 6885	Accessories:		
								Position indicator		Handwheel
25	9,5	12	114	80	80	114	A2x2x12	VZPM	VZPE	VZH
40	12,5	12	160	120	120	160	A4x4x12	VZPM	VZPE	VZH

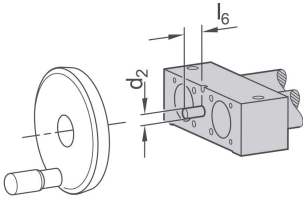
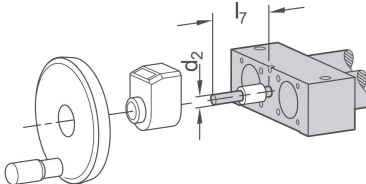
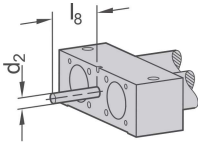
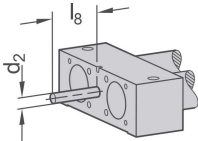
Version
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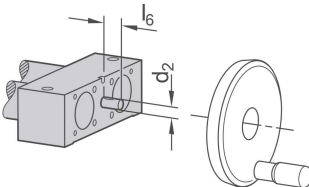
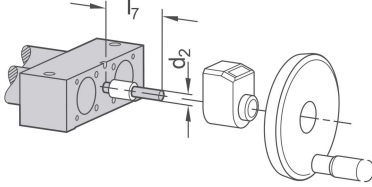
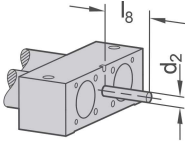
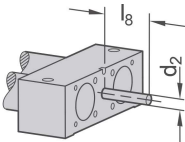
3ST	Double solid shaft roller slideway / ball screw <ul style="list-style-type: none">• Solid guide shafts: Steel, polished and hard-chrome-plated• End pieces / guide elements: Aluminum, CNC-milled parts• ball screw: With ball bearing
3ED	Double solid shaft roller slideway / ball screw <ul style="list-style-type: none">• Solid guide shafts: Stainless steel, induction-hardened and polished• End pieces / guide elements: Aluminum, CNC-milled parts• ball screw: With ball bearing

Thread direction / clamping spindle 1 r ₁		Thread direction / clamping spindle 2 r ₂	
RH	Right-hand thread	RH	Right-hand thread
RHK	Right-hand thread with clamping ring and hand lever for spindle clamping	RHK	Right-hand thread with clamping ring and hand lever for spindle clamping
LH	Left-hand thread	LH	Left-hand thread
LHK	Left-hand thread with clamping ring and hand lever for spindle clamping	LHK	Left-hand thread with clamping ring and hand lever for spindle clamping

d ₁	Spindle Ø	Spindle pitch p ₁	Spindle pitch p ₂	Journal diameter d ₂	Journal length B l ₆	Journal length D l ₇	Individual journal length l ₈
		Ball screw	Ball screw				
25	16	5	5	8	16	52	16...67
40	20	5	5	12	17	59	17...74

Journal
z₁

B	Journal for handwheel	D	Journal for position indicator & handwheel (torque support required for $d_1=18$)	Gxx	Individual journal length with keyway (for xx, enter values from column l_9)
 <p>Journal length l_6</p>		 <p>Journal length l_7</p>		 <p>Journal length l_8</p>	
Hxx	Individual journal length without keyway (for xx, enter values from column l_9)		 <p>Journal length l_8</p>		

Journal Z₂			
B	Journal for handwheel	D	Journal for position indicator & handwheel (torque support required for d ₁ =18)
 <p>Journal length l₆</p>		 <p>Journal length l₇</p>	
Gxx	Individual journal length with keyway (for xx, enter values from column l ₉)		
 <p>Journal length l₈</p>			
Hxx	Individual journal length without keyway (for xx, enter values from column l ₉)		
 <p>Journal length l₈</p>			

ACCESSORIES

- Handwheels **VZH** → see page 356
- Position indicators **VZPM / VZPE** → see page 358 / 360
- Torque supports **VZDD** → see page 368
- Angle gears **YLD** → see page 378
- Transfer units **VA** → see page 370

ON REQUEST

- Additional following guide elements
- Bellows covers
- Complete linear unit of stainless steel

	Name key	Supplemental key
ORDER KEY	PD3DK - d ₁ - a - l ₁ - l ₂ - r ₁ - p ₁ - z ₁ - r ₂ - p ₂ - z ₂	
Double tube linear unit		
Tube diameter		
Version		
Stroke l ₁		
Stroke l ₂		
Thread direction r ₁		
Spindle pitch p ₁		
Journal z ₁		
Thread direction r ₂		
Spindle pitch p ₂		
Journal z ₂		