

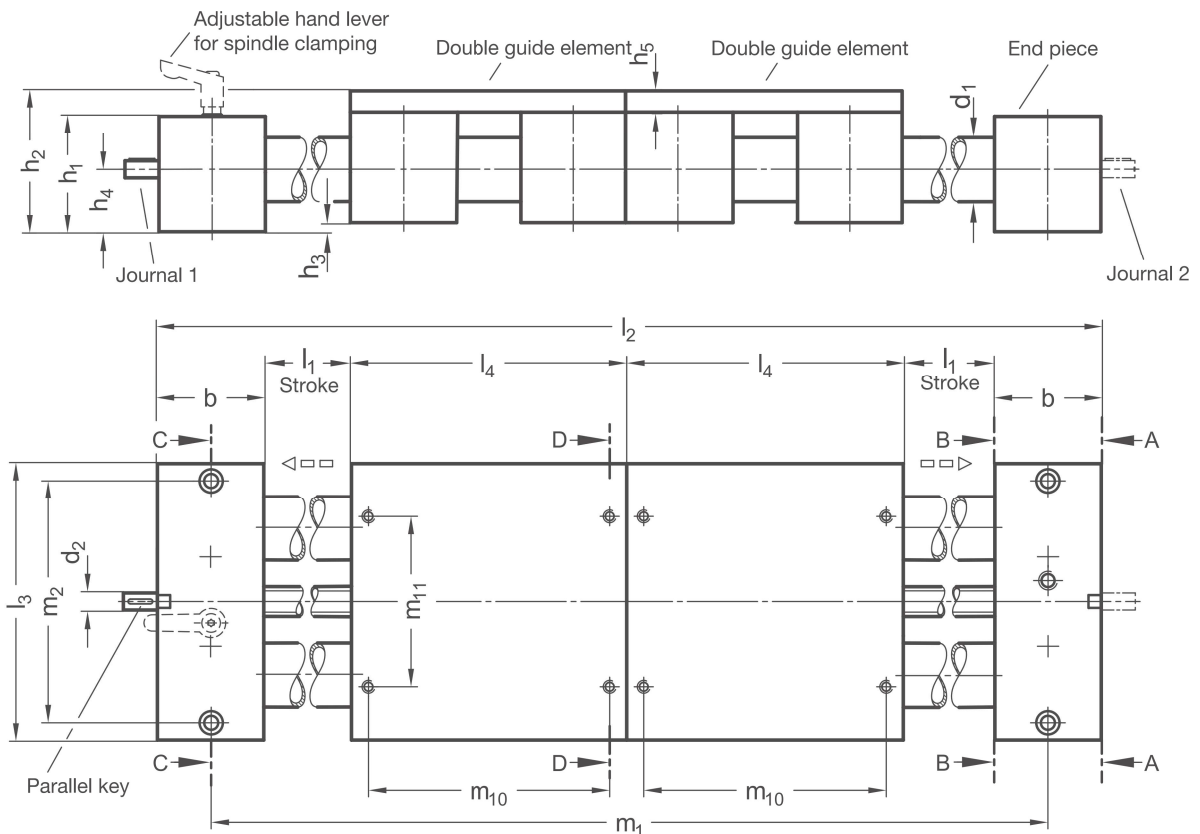
PRODUCT INFO

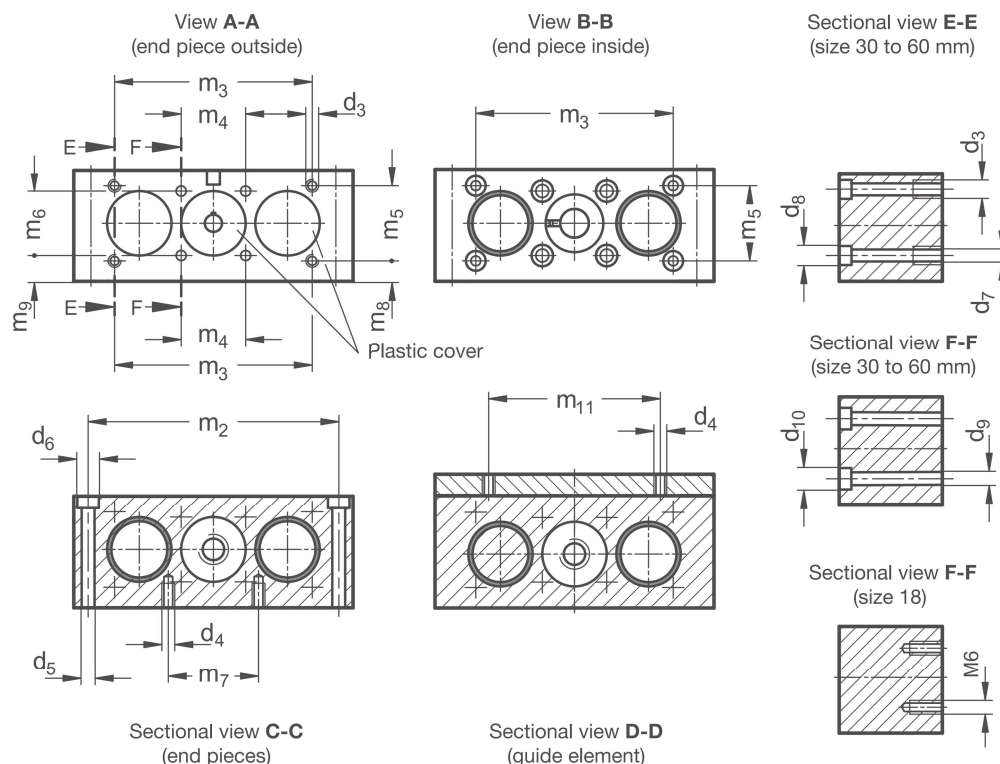
The guide tubes of the **precision double tube linear units PD2D** are made of chrome-plated steel or polished stainless steel precision tubes. The end pieces of aluminum connect the tubes and form a precise linear guide together with the guide elements. The centered continuous spindle has trapezoidal or fine thread and ball bearings on both sides. The spindle itself consists of one part with left-hand thread and one with right-hand thread. The slide-guided double guide elements are moved linearly along the spindle thread in opposite directions by the integrated spindle nuts.

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	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
18	...400	28	6	-	M 5	5,5	10	M 5	-	-	-	-	-	-
30	...750	50	8	M 6	M 6	6,6	11	M 6	5,5	10	M 5	6,6	11	M 6
40	...1100	60	12	M 8	M 8	9	15	M 8	6,6	11	M 6	8,6	13,5	M 8
50	...1165	72	12	M 10	M 8	9	15	M 8	9	13,5	M 8	9	13,5	M 8
60	...1170	80	14	M 10	M 10	10,5	16,5	M 10	9	13,5	M 8	11	16,5	M 10

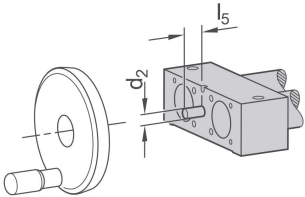
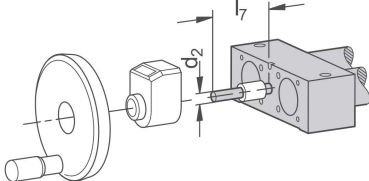
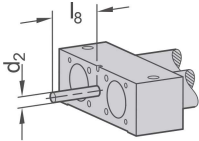
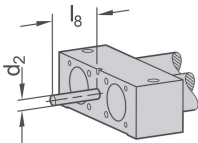
d_1	h_1	h_2	h_3	h_4	h_5	l_2	l_3	l_4	m_1	m_2	m_3	m_4	m_5	m_6
18	28	37	1	14,5	8	$2xb+2xl_1+2xl_4$	81	81	$b+2xl_1+2xl_4$	68	-	20	-	20
30	52	64	2	27	10	$2xb+2xl_1+2xl_4$	130	130	$b+2xl_1+2xl_4$	114	92	30	35	30
40	60	75	3	31,5	12	$2xb+2xl_1+2xl_4$	180	180	$b+2xl_1+2xl_4$	160	132	39	38	39
50	72	92	4	38	16	$2xb+2xl_1+2xl_4$	206	206	$b+2xl_1+2xl_4$	184	150	46	50	46
60	86	106	4	45	16	$2xb+2xl_1+2xl_4$	240	240	$b+2xl_1+2xl_4$	216	185	55	60	55

d_1	m_7	m_8	m_9	m_{10}	m_{11}	Parallel key DIN 6885	Accessories: Torque support	Position indicator	Handwheel
18	18	-	4,5	68	52	A2x2x12	VZDD	VZPM	VZH
30	42	9,5	12	114	80	A2x2x12	-	VZPM	VZPE VZH
40	62	12,5	12	160	120	A4x4x12	-	VZPM	VZPE VZH
50	62	13	15	184	134	A4x4x12	-	VZPM	VZPE VZH
60	74	15	17,5	216	160	A5x5x16	-	VZPM (only for trapezoidal thread)	VZPE VZH

Version a	
1ST	Double tube sliding guide / trapezoidal lead screw • Guide tubes: Steel, chrome-plated • End pieces / guide elements: Aluminum, bright. Assembly surfaces: Machined • Trapezoidal / fine thread spindle: Steel, with ball bearing
1ED	Double tube sliding guide / trapezoidal lead screw • Guide tubes: Stainless steel AISI 304, polished • End pieces / guide elements: Aluminum, bright. Assembly surfaces: Machined • Trapezoidal / fine thread spindle: Stainless steel AISI 303, with ball bearing

Spindle thread direction / clamping r	
RH	Right-hand thread on journal 1, left-hand thread on journal 2
RHK	Right-hand thread on journal 1, left-hand thread on journal 2 with clamping ring and hand lever for spindle clamping
LH	Left-hand thread on journal 1, right-hand thread on journal 2
LHK	Left-hand thread on journal 1, right-hand thread on journal 2 with clamping ring and hand lever for spindle clamping

d ₁	Spindle Ø	Spindle pitch p		Journal diameter d ₂	Journal length B l ₅	Journal length C l ₆	Journal length D l ₇	Individual journal length l ₈
		Trapezoidal thread	Fine thread, metric					
18	10	3	1	6	16	30	46	16...46
30	14	4	1	8	16	36	52	16...67
40	20	4	1	12	17	42	59	17...74
50	20	4	1	12	18	42	60	18...75
60	24	5	1,5	14	19	42	61	19...76

Journal Z ₁					
B	Journal for handwheel	D	Journal for position indicator and handwheel (torque support required for d ₁ =18)	Gxx	Individual journal length with keyway (for xx, enter values from column l ₈)
 Journal length l ₅		 Journal length l ₇		 Journal length l ₈	
Hxx	Individual journal length without keyway (for xx, enter values from column l ₈)	 Journal length l ₈			

Journal z₂		
A	Without journal	
B	Journal for handwheel	
C	Journal for position indicator (torque support required for d ₁ =18)	
D	Journal for position indicator and handwheel (torque support required for d ₁ =18)	
Gxx	Individual journal length with keyway (for xx, enter values from column l ₈)	
Hxx	Individual journal length without keyway (for xx, enter values from column l ₈)	

ORDER KEY

Name key

Supplemental key

PD2D - d₁ - a - l₁ - r - p - z₁ - z₂

Double tube linear actuator

Tube diameter

Version

Stroke

Spindle thread direction

Spindle pitch

Journal z₁

Journal z₂

- 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

– Guide element connector plates

– Multiple guide elements with scissors synchronization

– Bellows covers

– Complete linear unit of stainless steel