

drylin® general drive technology -**SAW** linear modules

Lubrication-free linear modules based on drylin[®] W guides

Drive: Trapezoidal or high helix lead screw

Robust design

Ready-to-install stepper or DC motors

Ball bearing



drylin® SAW | Linear modules | Advantages

Compact high design



Lubrication-free linear modules – drylin[®] SAW

The drylin[®] W high profile provides the torsionresistant base for the linear axes of the SAW series. Thanks to the ball bearing supported lead screw and high profile design, the SAW linear modules are perfectly suitable for the direct connection to stepper or DC motors. Slots in profile sections enable initiators to be freely positioned and, at the same time, enable set-up as a multi-axis linear robot by means of suitable adapter plates.

- Optimised unit for motor connection
- drylin[®] W high profile with variable mounting options using clamping elements or slot nuts
- For manual or electrical adjustments
- Ideal for single and/or multi-axial constructions

Typical application areas

- Positioning functions
- 3D scanner
- Format adjustments
- Linear robot structures
- Height adjustments

Available in 3-8 days

Detailed information about delivery time online.

Price breaks online

No minimum order value. No minimum order quantity.

Carriage lengths: 60–250mm Carriage widths: 54–107mm Stroke lengths: up to 750mm

ŧ

1 🖄

Product finderwww.igus.eu/saw-productfinder

drylin[®] SAW | Linear modules | Product overview Ball bearing



SAW linear module

- Robust high design in 4 sizes
- Drive: Trapezoidal or high helix lead screw
- For manual positioning or motorised operation
- ▶ Page 1400



DLE linear module

- Configured linear modules with NEMA stepper motors
- Available in 24 hours
- Pre-assembled and tested
- ▶ Page 1403





SAWC linear module

- Compact short design
- With integrated drylin® lead screw motor
- Optimised ratio of useful length to total length
- ► Page 1402

drylin[®] SAW

drylin[®] SAW | Linear modules | Product range

Robust design



- Trapezoidal or high helix threads
 - Ball bearing supported lead screw
 - Rail profile in high design, extremely torsion-resistant
- Aluminium drylin[®] W guide rails, hard-anodised
- High stability
- Cost-effective and 100% lubricationfree
- Available accessories ► Page 1503
- Lead screw nuts are available separately **Page 1330**



Technical data

Part No.	Max. stroke length	Weight	Additional	Max. speed	Max. static I	load capacity		
	[mm]	[kg]	(per 100mm)	[rpm]	axial [N]	radial [N]		
SAW-0630	300	0.5	0.1	1,000	100	400		
SAW-0660	500	0.9	0.1	1,000	100	400		
SAW-1040	500	1.0	0.1	1,500	500	2,000		
SAW-1080	750	1.9	0.2	1,500	750	2,000		
SAW-1660	750	2.8	0.5	1,500	750	3,000		

Dimensions [mm]

Part No.	Α	A	l	н	E1	E2		E3	E5	E6	I	lo	h h	v f	lt	lb
	-0.3	-0.	3		+0.15	+0.15	+	0.15								
SAW-0630	54	60/1	00	32	40	45	5	1/91	11	23	112/152	92	2 3) 13.	5 26	10
SAW-0660	85	10	0	38	71	76		91	_	_	156	_	· 3	4 13.	7 28	_
SAW-1040	74	69/100)/150	50	60	60	56/8	37/137	20	40	129/160/21	0 9	1 4	5 22.	5 30	19
SAW-1080	108	10	0	58	94	94		87	_	_	163	131	1.5 4	9 22.	5 31.5	5 15.75
SAW-1660	104	15	0	77	84	86	1	132	20	40	220	17	5 7	2 38.	5 35	22.5
Part No.	tk	ts	tg	k	t	sk	sg	kq	d		Т	12		d2		ha
				±0).1						Ø					
SAW-0630	11	6.6	_	2	0	_	M4	10	_5	٦	īr8x1.5	15	-	Fr8x1.5		21.5
SAW-0660	_	_	M8	2	0	7	M4	2	□6	-	Tr10x2	15		Tr10x2		23.0
SAW-1040	11	6.8	M8	6	.4	9.5	M6	3.5	10	-	Tr10x2	17	Tr10>	2Ø6	h9 ¹¹³⁾	35.5
SAW-1080	11	6.8	M8	1	8	9.5	M6	3.5	10	-	Tr12x3	17	Tr12>	3Ø8	h9 ¹¹³⁾	37.5
SAW-1660	15	9.0	M10	8.	.6	11	M8	5.5	16	-	Tr14x4	20	Tr14>	4Ø8	h9 ¹¹³⁾	59.0

¹¹³⁾ Lead screw end unmachined, also available with machined end

1400 Online tools and more information ► www.igus.eu/drylinSAW

igus

drylin® SAW | Linear modules | Product range Reduced clearance with pretension in lead screw support and lead

screw nut



- Lubrication and maintenance-free
- Quiet, reduced backlash
- Trapezoidal or high helix threads
- 3 carriage lengths (100/150/200mm) with spring-loaded second lead screw nut
- Liners made from wear-resistant high-performance polymers
- For manual and electric adjustment even in multi-axis linear robots



Technical data

Part No.	Max. stroke length	Weight	Additional	Max. speed	Max. speed Max. static load				
	[mm]	[kg]	(per 100mm)	[rpm]	axial [N]	radial [N]			
SAW-1080-PL	750	1.9	0.2	1,500	750	2,000			

Dimensions [mm]

-	-													
Part No.	Α	AI	н	E1	E2	E3	E5	E6	I.	lc	hw	f	lt	lb
	-0.3	-0.3		+0.15	+0.15	+0.15								
SAW-1080-PL	108	100	58	94	94	87	_	-	163	131.5	49	22.5	31.5	15.75
D. IN									-	10		10		•
Part No.	τĸ	ts	τg	Kt	SK	sg	кq	a	1	12		d2		na
				±0.1					Ø					
SAW-1080-PL	11	6.8	M8	18	9.5	M6	3.5	10	Tr12x3	3 17	Tr1	2x3 Ø 8	h9 ¹¹³⁾	37.5

Part No.	Α	AI	н	E1	E2	E3	E5	E6	I.	lc	hw	f	lt	lb
	-0.3	-0.3		+0.15	+0.15	+0.15								
SAW-1080-PL	108	100	58	94	94	87	-	-	163	131.5	49	22.5	31.5	15.75
Part No.	tk	ts	tg	kt	sk	sg	kq	d	т	12		d2		ha
				±0.1					Ø					
SAW-1080-PL	11	6.8	M8	18	9.5	M6	3.5	10	Tr12x3	3 17	Tr1	2x3 Ø 8	h9 ¹¹³⁾	37.5

¹¹³⁾ Lead screw end unmachined, also available with machined end

igus







drylin[®] SAWC | Linear modules | Product range

Direct drive in short design

stroke

• Smaller installation space and more

• Compact short design due to the use

of drylin® lead screw motors

series, up to 70mm)

• Optimised ratio of useful length to

total length (compared to the SAW

• Improved operating characteristics

• Space-saving and lightweight

drylin[®] SAW





Technical data

Part No.	Max. stroke length	Weight	Additional	Max. speed	Max. static load capaci		
	[mm]	[kg]	(per 100mm)	[rpm]	axial [N]	radial [N]	
SAWC-0630	300	0.5	0.1	1,000	100	200	
SAWC-1040	500	1.0	0.1	1,500	500	2,000	

Dimensions [mm]

Part No.	Α	AI	н	E1	E2	E3	I	lc	hw	f	lt	lb
	-0.3	-0.3		+0.15	+0.15	+0.15						
SAWC-0630	54	50	42.5	40	45	51	139	75	30	13.5	15	7.5
SAWC-1040	74	69	50	60	60	56	183	82	45	22.5	19	9.5
D. J.M.		• .									-	1
Part No.	τĸ	ts	tę	g	ĸt	SK	sg	кq		a	1	na
					±0.1						Ø	
SAMC 0620	0	4.0	N	16	20	7	N44	0		Б Tr	08x1.5	01 5
SAWC-0030	0	4.2	IV	0	20	1	1014	2		De De	s08x15	21.0
CANNO 1040		0.0		10	C 4	0.5	MC	0.5	_	Tr	10x2 ⁹²⁾	
SAWC-1040	11	6.8	M	18	6.4	9.5	M6	VI6 3.5		0 Ds10	s10x12	35.5

⁹²⁾ Lead screw end unmachined

drylin[®] DLE | Linear modules | Product range Linear modules with motor - deliverable within 24 hours from stock

igus® delivers ready-to-install, preconfigured linear modules (drive: lead screw or toothed belt) from stock within 24 hours. You simply choose between 3 sizes, 3 stroke lengths and 3 stepper motors ... and the system is delivered in 24 hours after you place your order.



Technical data

Part No.	Installation siz	e	Carriage length	Stroke length	M	otor type			
DLE-SA-0004	SAW-0630 Tr08x	1.5	60	250	NEMA17	stranded wires			
DLE-SA-0005	SAW-1040 Tr10	x2	69	500	NEMA23 stranded wire				
DLE-SA-0006	SAW-1080 Tr12	x3	100	500	NEMA23XL stranded w				
Part No.	Max. stroke length Weight		Additional	Max. speed	Max. static	MA23XL stranded wires static load capacity [N] radial [N] 0 400			
	[mm]	[kg]	(per 100mm)	[rpm]	axial [N]	radial [N]			
DLE-SA-0004	300	0.5	0.1	1,000	100	400			
DLE-SA-0005	500	1.0	0.1	1,500	500	2,000			
DLE-SA-0006	750	1.9	0.2	1,500	750	2,000			

Dimensions [mm]

Part No.	А	AI		н	E1	E2	E3		E5	E6	I	lc	hw	f	lt	lb
	-0.3	-0.3			+0.15	+0.15	+0.1	5								
DLE-SA-0004	54	60/100	3	32	40	45	51/9	1	11	23	112/152	92	30	13.5	26	10
DLE-SA-0005	74	69/100/15	50 5	50	60	60	56/87/	137	20	40	129/160/210	91	45	22.5	30	19
DLE-SA-0006	108	100	Ę	58	94	94	87		_	_	163	131.5	49	22.5	31.5	15.75
Part No.	tk	ts	tg		kt	sk	sg	kq		d	Т	12		d2		ha
				±	±0.1						Ø					
DLE-SA-0004	11	6.6	-	1	20	-	5	10		_5	Tr8x1.5	15	Tr	8x1.5		21.5
DLE-SA-0005	11	6.8	M8	6	6.4	9.5	M6	3.5	-	10	Tr10x2	17 T	r10x2	2Ø6h	19 ¹¹³⁾	35.5
DLE-SA-0006	11	6.8	M8		18	9.5	M6	3.5	_	10	Tr12x3	17 T	r12x3	3Ø8h	19 ¹¹³⁾	37.5

¹¹³⁾ Lead screw end unmachined, also available with machined end

iqus

Further information about the motors ▶ Page 1518



- drylin[®] SAW
- drylin[®] linear modules with motor
- Available from stock
- Ready-to-install and pre-assembled
- NEMA stepper motors with stranded wires
- Basis drylin[®] ZLW and SAW linear axes
- Available accessories **Page 1503**







drylin[®] general drive technology – SET linear modules

Lubrication-free single-tube adjustment

Drive: Trapezoidal thread

Simple, smooth design

Lightweight due to aluminium and plastic

Temperature resistance up to +50°C

