



DryLin® Linear Slide Table - ZLW 0630 Belt Drive

DryLin® Linear Slide Tables

Telephone 1-800-521-2747
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QuickSpec: <http://www.igus.com/drylin-quickspec>



ZLW-0630-LCB: (Formerly ZLW-0630-B "basic") Low cost basic version uses a glass-reinforced neoprene belt and is meant for lower load and speed applications than version S

ZLW-0630-S: Standard table with steel-reinforced polyurethane belt, enhanced pulley system and other components for higher speed and load applications than version LC

Special properties

- Compact size
- Speeds up to 6.5 ft/s
- Maintenance-free
- For strokes up to 1000 mm
- Available in both LC and S versions



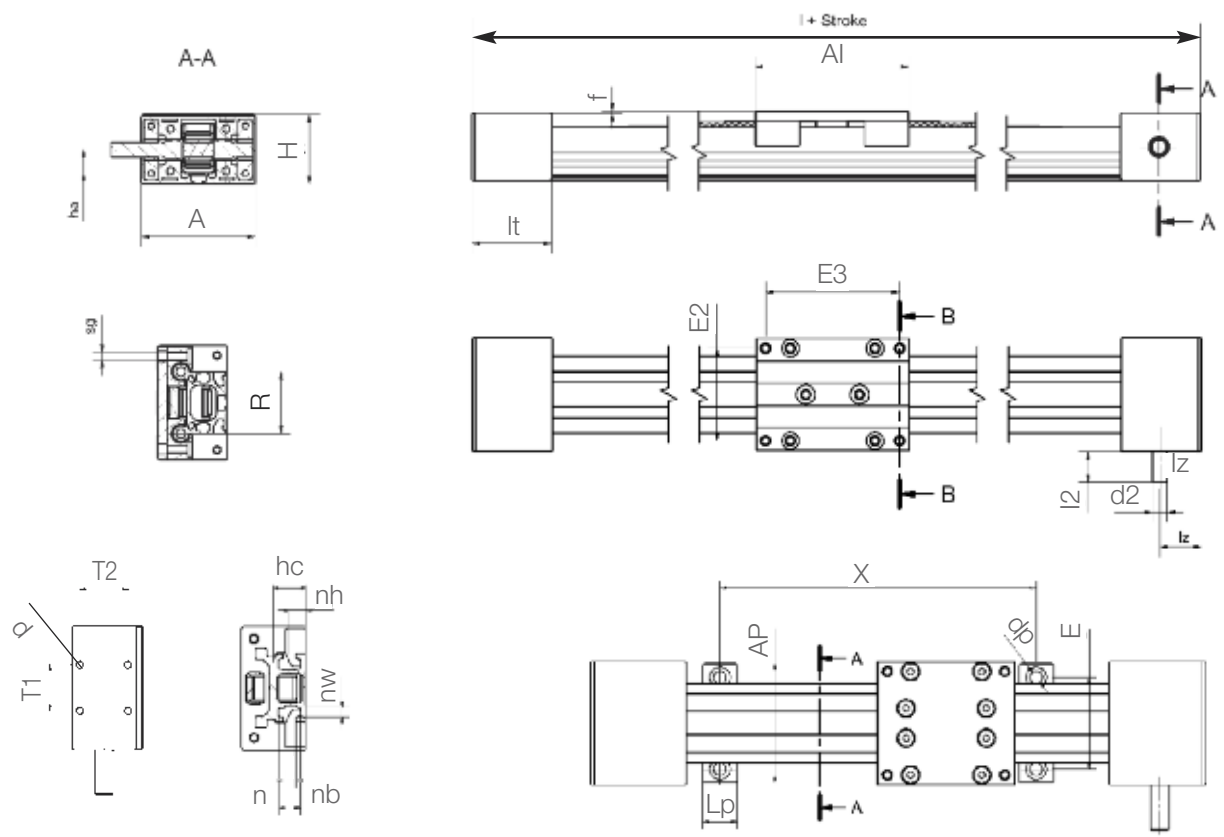
Couplings available

Technical Data

	Weight without stroke (kg)	Weight 100 mm stroke (kg)	Max. stroke length* (mm)	Linear travel per shaft revolution (mm/U)	Gear-teeth	Toothed belt -material	-width (mm)	-tension N	Max. radial stress N	Belt Pulley	Max. Speed at 60% operation (m/s)	Linear positioning tolerance
ZLW-0630												
LCB	0.43	0.08	1.000	54	AT 5	Neoprene with GF	9	75	100	ball bearing	2.5	±0.35
Standard	0.43	0.08	1.000	54	MTD3	PU + steel cord	9	100	150	ball bearing	2	±0.30

* Larger stroke lengths upon request.

** These values were measured with maximum load in horizontal orientation



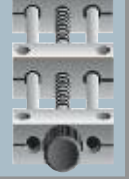
Dimensions (mm) for LCB and S versions

Part No.	A	AI	H	E2	I	hc	E3	R	f	lt	sg	ha	lz	l2	d2
ZLW-0630-02-...	54 -0.3	60	31	45 ±0.15	144	13.5	51 ±0.15	30 ±0.15	3	42 ±0.3	M4	14	22	20	*8/10

Part No.	X	E	AP	LP	dp	n	nb	nw	nh	T1	T2	d
ZLW-0630-02-...	variable	40 ±0.2	52 -1	15	5.5	5.2	9.5	4.3	7	20 ±0.25	21 ±0.25	3.2

* 'LCB' version has a 6mm square output shaft with 10mm OD plastic adapter. Stainless adapter optional (ZTY-104027)

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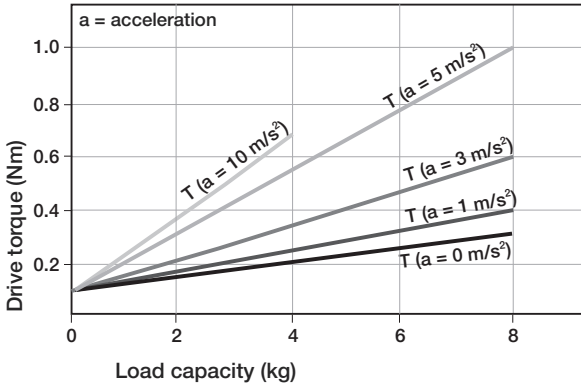
PDF: www.igus.com/drylin-pdfs
CAD: www.igus.com/drylin-CAD
RoHS info: www.igus.com/RoHS



Horizontal orientation

ZLW-0630-02-LCB

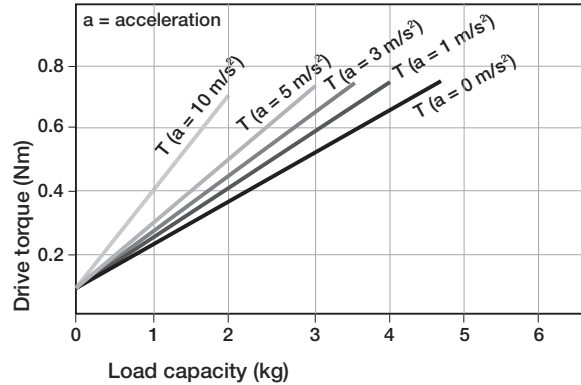
Required drive torque*



Vertical orientation

ZLW-0630-02-LCB

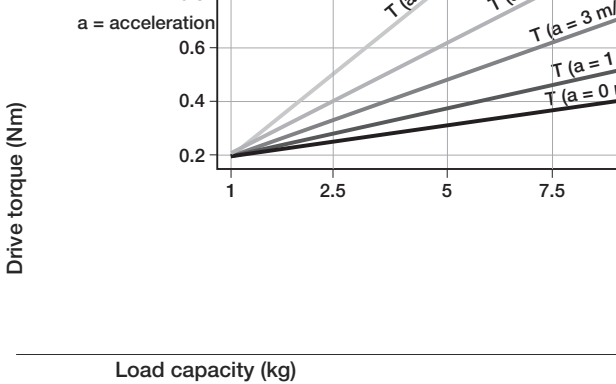
Required drive torque*



Horizontal orientation

ZLW-0630-02-S

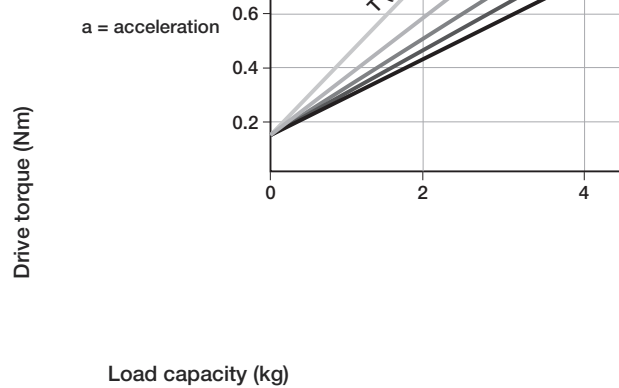
Required drive torque*



Vertical orientation

ZLW-0630-02-S

Required drive torque*

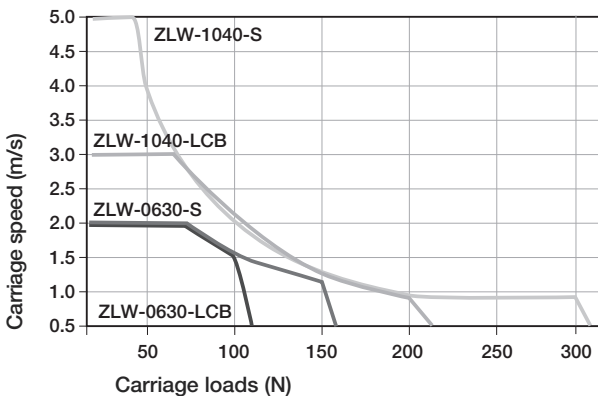


* Assumption: The moving mass is located in a circumscribed circle with a max. R = 100 mm to the middle of the guiding rail, max. permissible torque version 01: 1.3 Nm, a = 0 m/s²; version 02: 2.4 Nm, a = 0 m/s²; constant drive without nominal value acceleration

Maximum load

ZLW-0630/1040

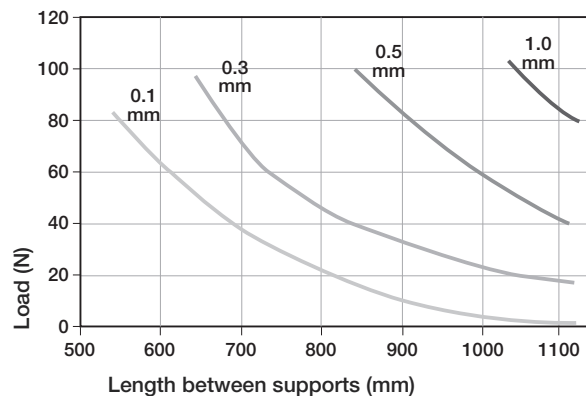
100% operating time



For unsupported applications

Rail deflection between supports

Versions LCB and S



The diagram accounts for the sum of all forces active on the carriage.

Sag permissible up to maximum 2 mm.



DryLin® Linear Slide Table - ZLW 1040 Belt Drive

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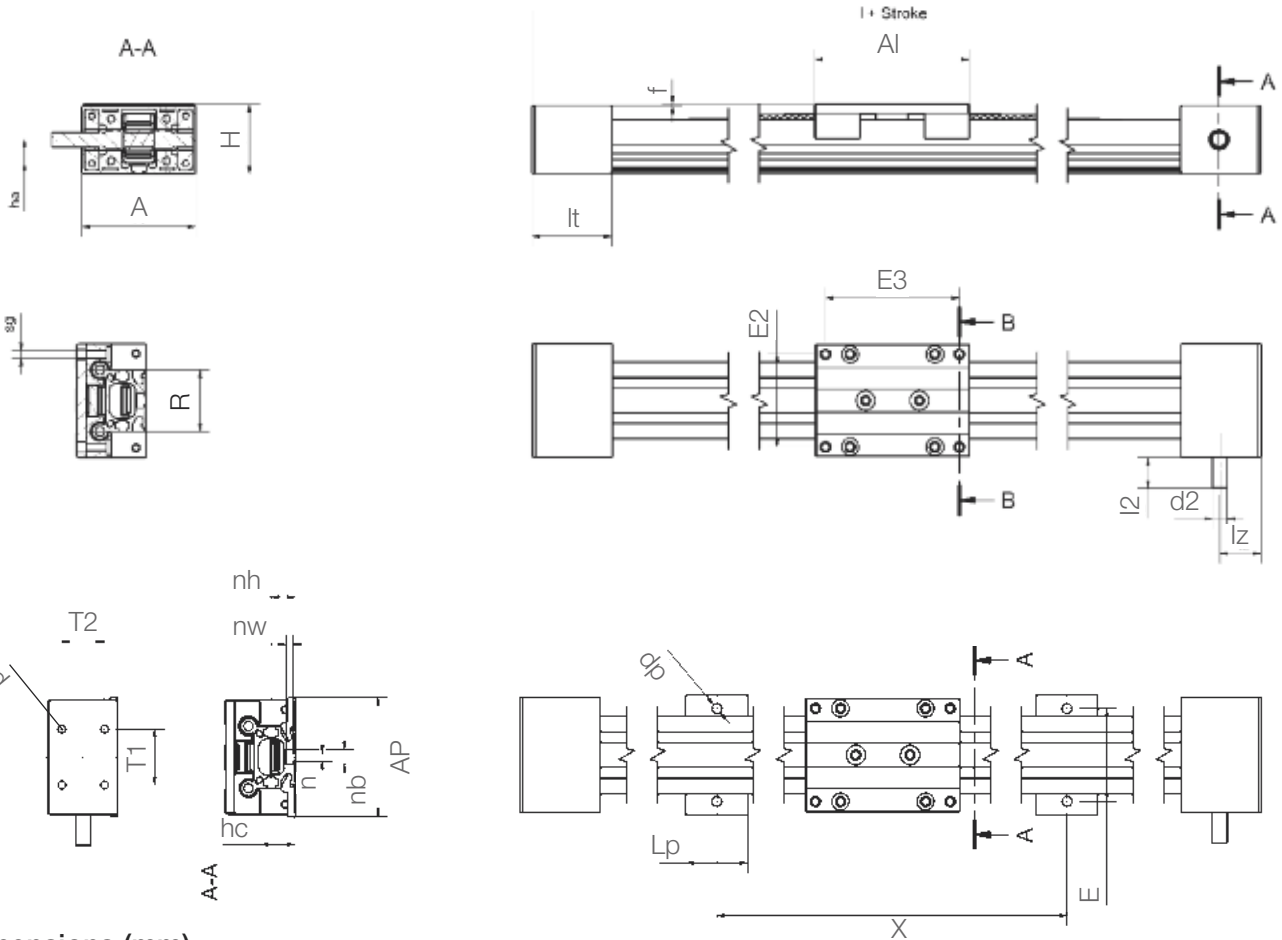
ZLW-1040-LCB: (Formerly ZLW-1040-B "basic") Cost-effective version uses a glass-reinforced neoprene belt and is meant for lower load and speed applications than version S

ZLW-1040-S: Standard table with steel-reinforced polyurethane belt, enhanced pulley system and other components for higher speed and load applications than version LC

Special properties

- High speed, up to 16.4 ft/s (5 m/s)
- Maintenance-free
- Lightweight
- Cost-effective versus other actuator systems
- Maximum stroke, 2000 mm

	Weight without stroke (kg)	Weight 100 mm stroke (kg)	max. stroke length* (mm)	Transmission (mm/U)	Gear-teeth	Toothed belt- -material	-width (mm)	-tension (N)	max. radial stress (N)	Pulley	max. speed at 60% operation (m/s)	Linear positioning tolerance
ZLW-1040												
LCB	0.9	0.14	2.000	66	RPP 3M	Neoprene with GF	15	150	200	ball bearing	3	±0.35
Standard	1.0	0.14	2.000	70	AT 5	PU + steel cord	16	200	300	ball bearing	5	±0.2

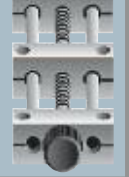


Dimensions (mm)

Part No.	A	Al	H	E2	I	hc	E3	R	f	lt	sg	ha	lz	l2	d2
ZLW-1040-02-...	-0.3			±0.15			±0.15	±0.15		±0.3					
	74	100	45	60	204	22.5	87	40	1	52	M6	22	27	20	*10
Part No.	X	E	AP	LP	dp	n	nb	nw	nh	T1	T2	d			
ZLW-1040-02-...	variable	±0.2	-1							±0.25	±0.25				
		60	78	40	6,4	5.2	9.5	4.3	15.5	36	26.5	5.0			

* 'LCB' version has a 6mm square output shaft with 10mm OD plastic adapter. Stainless adapter optional

DryLin® Linear Slide Table - ZLW 1040 Belt Drive



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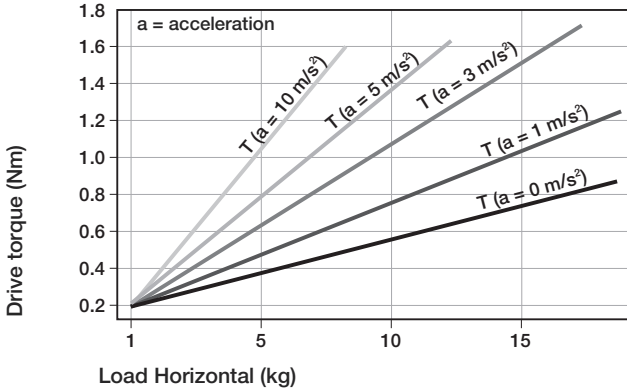
PDF: www.igus.com/drylin-pdfs
CAD: www.igus.com/drylin-CAD
RoHS info: www.igus.com/RoHS



Horizontal orientation

ZLW-1040-02-LCB

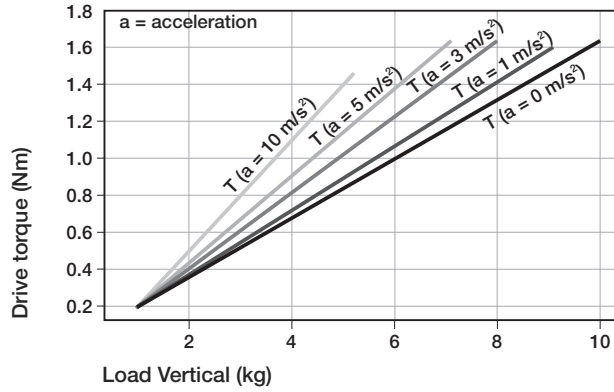
Required drive torque, Nm



Vertical orientation

ZLW-1040-02-LCB

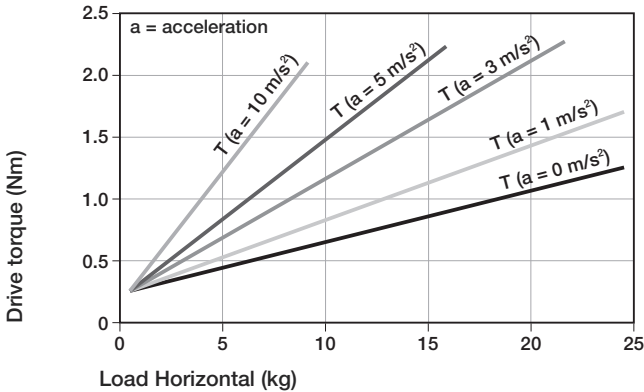
Required drive torque, Nm



Horizontal orientation

ZLW-1040-02-S

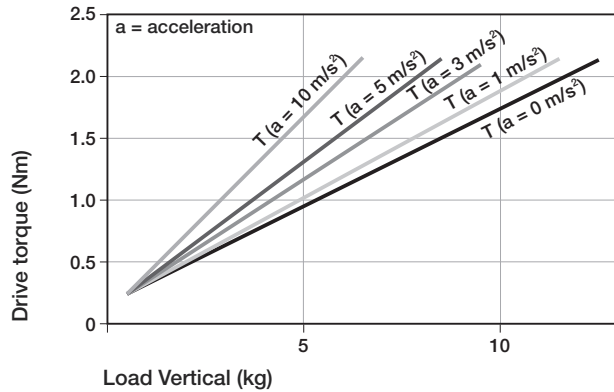
Required drive torque, Nm



Vertical orientation

ZLW-1040-02-S

Required drive torque, Nm

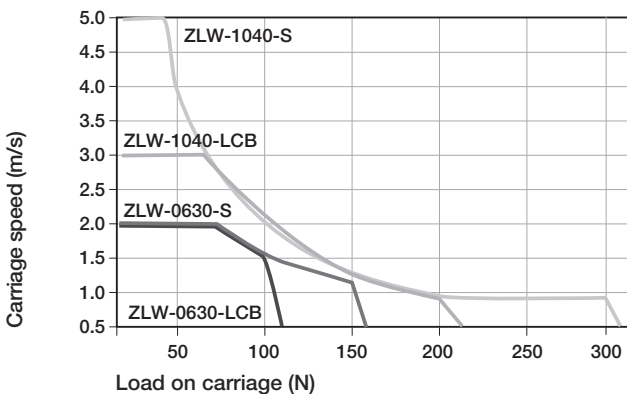


* Assumption: The moving mass is located in a circumscribed circle with a max. $R = 100$ mm to the middle of the guiding rail, max. permissible torque version 01: 1.3 Nm, $a = 0$ m/s²; version 02: 2.4 Nm, $a = 0$ m/s²; constant drive without nominal value acceleration

Maximum load comparison

ZLW-0630 and ZLW-1040

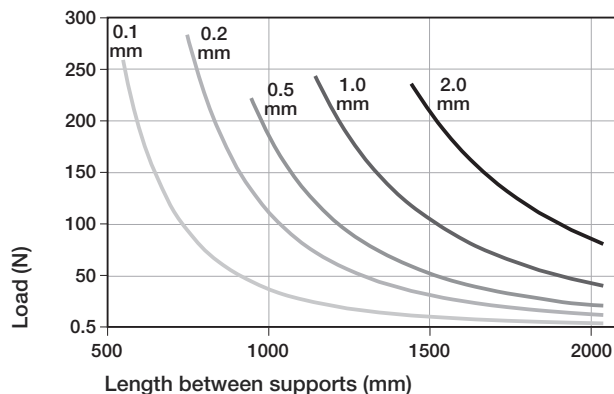
100% operating time



For unsupported applications

Rail deflection between supports

Versions LCB and S



The diagram accounts for the sum of all forces active on the carriage.

Sag permissible up to maximum 2 mm.



DryLin® Linear Slide Table - ZAW

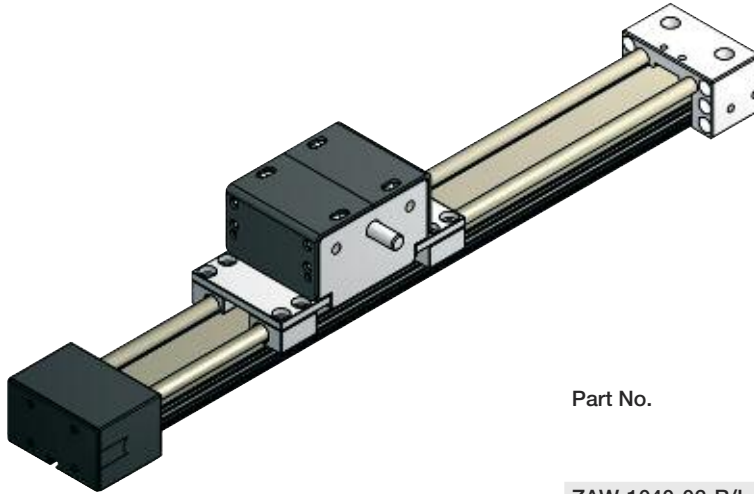
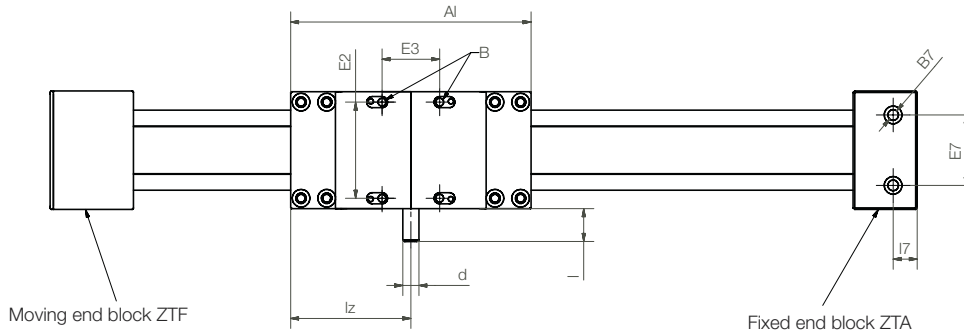
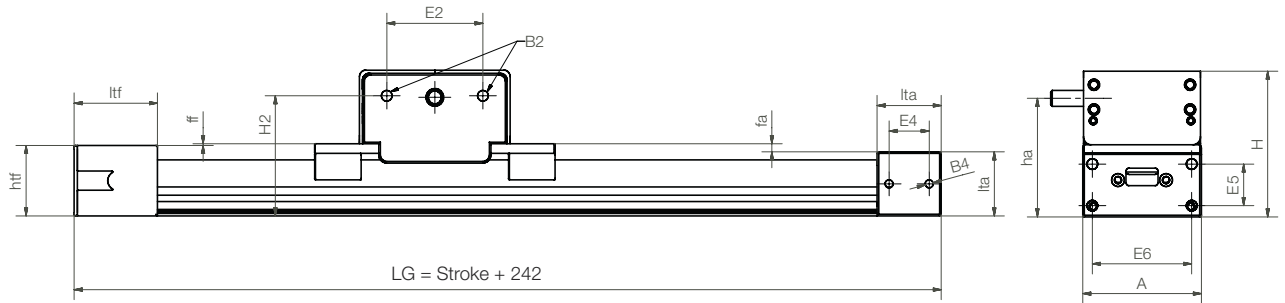
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Special properties

- Low weight
- Maintenance-free
- High rigidity
- Perfect for applications where the rail moves, but the carriage is stationary



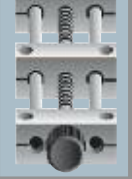
Part No.	Base weight (kg)	Additional weight (kg/10 mm)
ZAW-1040-02-R/L-LG	0.08	100

Dimensions (mm)

Part No.	A -0.3 (mm)	H (mm)	LG Hub (mm)	AI ±0.3 (mm)	ha ±0.1 (mm)	d h9 (mm)	l +1 (mm)	lz (mm)	E2 ±0.15	E3 ±0.15 (mm)
ZAW-1040-02-R/L-LG	74	91	242	150	74	10	20	75	60	60

Part No.	B -0.3	B2	htf Hub (mm)	ltf ±0.3 (mm)	ff ±0.1 (mm)	fa h9 (mm)	lta +1 (mm)	E4 (mm)	B4 ±0.15	E5 ±0.15 (mm)	E6 (mm)
ZAW-1040-02-R/L-LG	M6	M8	44	52	2	5	40	25	M6	26	62

DryLin® Linear Slide Table - ZLW Belt Drive



The DryLin® ZLW belt drive can be fastened in different ways (clamp and slot nuts included in delivery):

The orientation of the drive is optional. Overhead installation is the best option against fouling.

1. Clamping offers an easy fastening option for the drive, on aluminum machine profiles and other surfaces.

Part numbers ZLW-0630 = ZTZ-063006
ZLW-1040 = 75.40.

- 2. **Slot nuts** enable the mounting on 3 sides (1040: left, right, below) or 2 sides (0630: left, right) as well as the fixing of sensors and proximity switches.
- 3. **Screw connection:** Threaded holes are located at each end block face.

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1. Clamp mount



Included in delivery

2. Slot nuts (M5)



Ideal for limit switches
Included in delivery

3. Screw connection



4 x M6/M4 (optional)

Directions for installation: The end blocks should not be used as a mechanical stop under any circumstances. A minimum spacing of 10 mm should be provided on both sides.

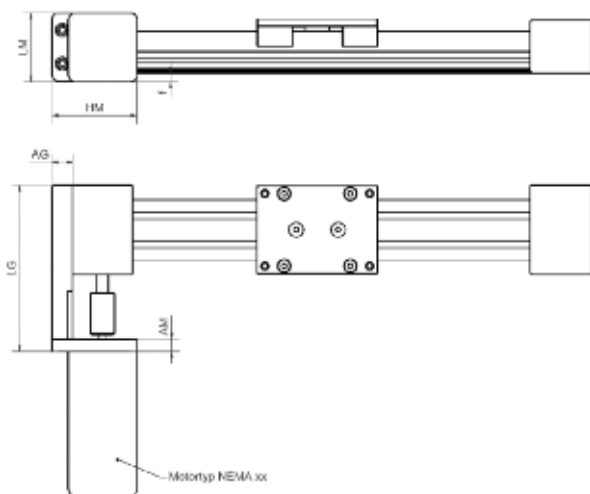
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CAD: www.igus.com/drylin-CAD
RoHS info: www.igus.com/RoHS

Motor flange



The motor flange can be fastened onto the end block with four screws. Different types of motor flanges are available.

The DryLin® ZLW belt drive is also available with hand crank.



Dimensions in mm

Part number	Base plate				Motor Flange		
	AG	LG	LK	AM	HM	LM	f
MF-0630-NEMA23-S	12	99.5	35.5	10	59	56	17
MF-0630-NEMA23-L	12	110.5	46.5	10	59	56	17
MF-1040-NEMA23-S	17	119	35	10	70.7	56.4	7
MF-1040-NEMA23-L	17	138	54	10	70.7	56.4	7
MF-1040-NEMA34-S	17	119	35	10	85	85	20.5
MF-1040-NEMA34-L	17	138	54	10	85	85	20.5

