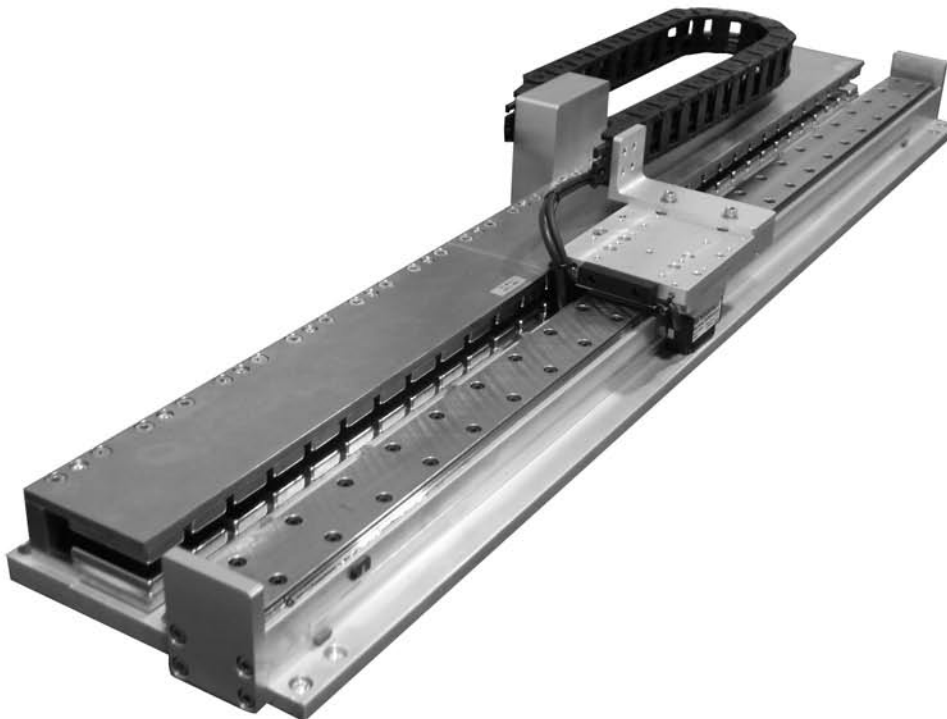


WGL Series Wide Guide Linear Motor Modules

- *Direct drive*
- *Zero cogging*
- *Zero backlash ironless linear motor*
- *Choice of linear encoder resolutions of up to 1 μ m*
- *Simple design with fewer parts*
- *Rexroth corrosion resistant wide guide recirculating linear guide*



WGL138 Series

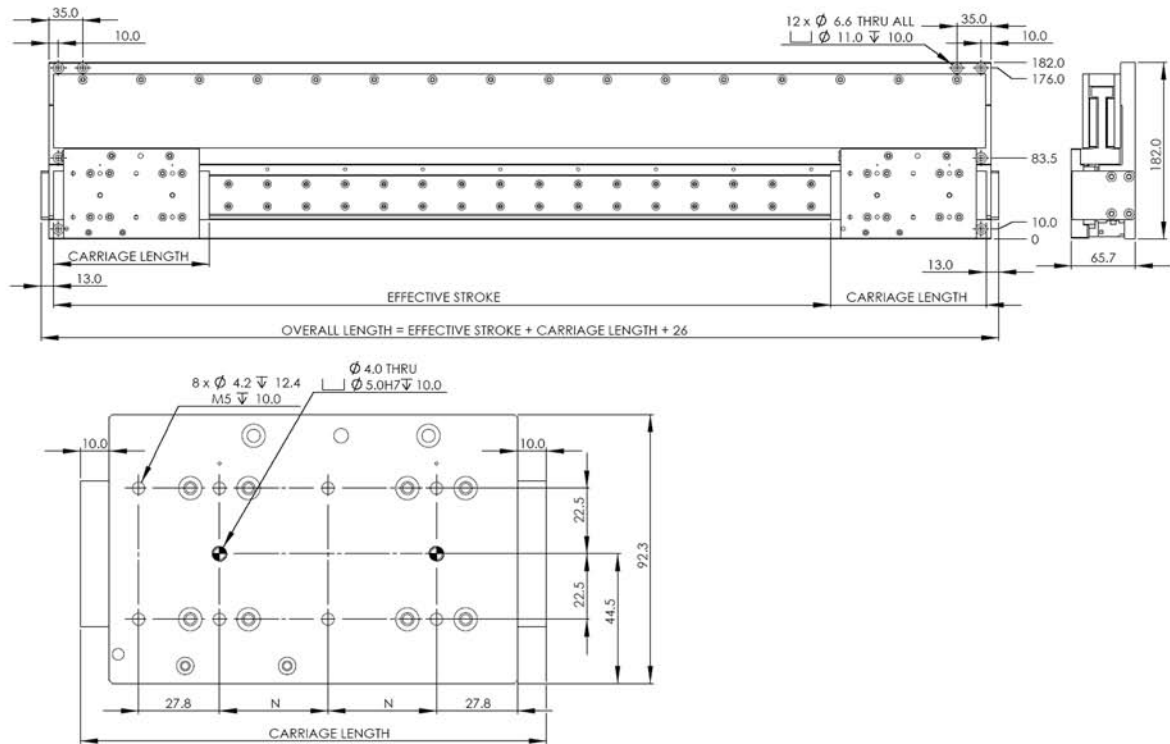
- Higher accelerations than conventional pick and place systems
- Fast response and quick settling time
- Multiple heads per track
- Modular design; can be assembled onto system easily

Datasheet

Specifications Model	Stroke (mm)	Overall Length (mm)	Overall Mass (kg)	Carriage Length (mm)	Moving Mass (kg)	N (mm)	Continuous Force (N)	Peak Force (N)
WGL138-AUM4-S2	200	386	8.2	160	1.4	37.25	112	448
	300	486	9.5					
	400	586	11.7					
	500	686	13.8					
	600	786	15.1					
	700	886	17.3					
	800	986	19.4					
	900	1086	20.7					
	1000	1186	22.9					
	1200	1386	26.3					
	1500	1686	31.9					
1600	1786	34.0						
WGL138-AUM4-S3	200	446	9.9	220	1.9	67.25	168	672
	300	546	11.2					
	400	646	13.3					
	500	746	15.5					
	600	846	16.8					
	700	946	18.9					
	800	1046	21.1					
	900	1146	22.3					
	1000	1246	24.5					
	1200	1446	27.9					
	1500	1746	33.5					
1600	1846	35.7						
WGL138-AUM4-S4	200	506	11.5	280	2.4	97.25	224	896
	300	606	12.8					
	400	706	14.9					
	500	806	17.1					
	600	906	18.4					
	700	1006	20.5					
	800	1106	22.7					
	900	1206	24.0					
	1000	1306	26.1					
	1200	1506	29.5					
	1500	1806	35.1					
1600	1906	37.3						

Specifications Model	Stroke (mm)	Overall Length (mm)	Overall Mass (kg)	Carriage Length (mm)	Moving Mass (kg)	N (mm)	Continuous Force (N)	Peak Force (N)
WGL138-AUM3-S2	200	386	4.5	160	1.3	37.25	72	288
	300	486	5.2					
	400	586	6.1					
	500	686	7.1					
	600	786	7.7					
	700	886	8.7					
	800	986	9.6					
	900	1086	10.3					
	1000	1186	11.2					
	1200	1386	12.8					
	1500	1686	15.4					
1600	1786	16.4						
WGL138-AUM3-S3	200	446	5.4	220	1.7	67.25	108	432
	300	546	6.1					
	400	646	7.0					
	500	746	8.0					
	600	846	8.7					
	700	946	9.6					
	800	1046	10.6					
	900	1146	11.2					
	1000	1246	12.2					
	1200	1446	13.8					
	1500	1746	16.3					
1600	1846	17.3						
WGL138-AUM3-S4	200	506	6.4	280	2.1	97.25	144	576
	300	606	7.0					
	400	706	8.0					
	500	806	8.9					
	600	906	9.6					
	700	1006	10.5					
	800	1106	11.5					
	900	1206	12.2					
	1000	1306	13.1					
	1200	1506	14.7					
	1500	1806	17.3					
1600	1906	18.2						

Dimensional Drawing



Part Numbering

Part Number	Motor (type)	Size (type)	Stroke (mm)	Encoder resolution (μm)
WGL138	AUM3, or AUM4	S2, S3, or S4	100 to 1200	1.0

Example : WGL138-AUM4-S2-500-1.0

Matching Drivers / Amplifiers

DAP31, DDP21, DDP51, ADL43