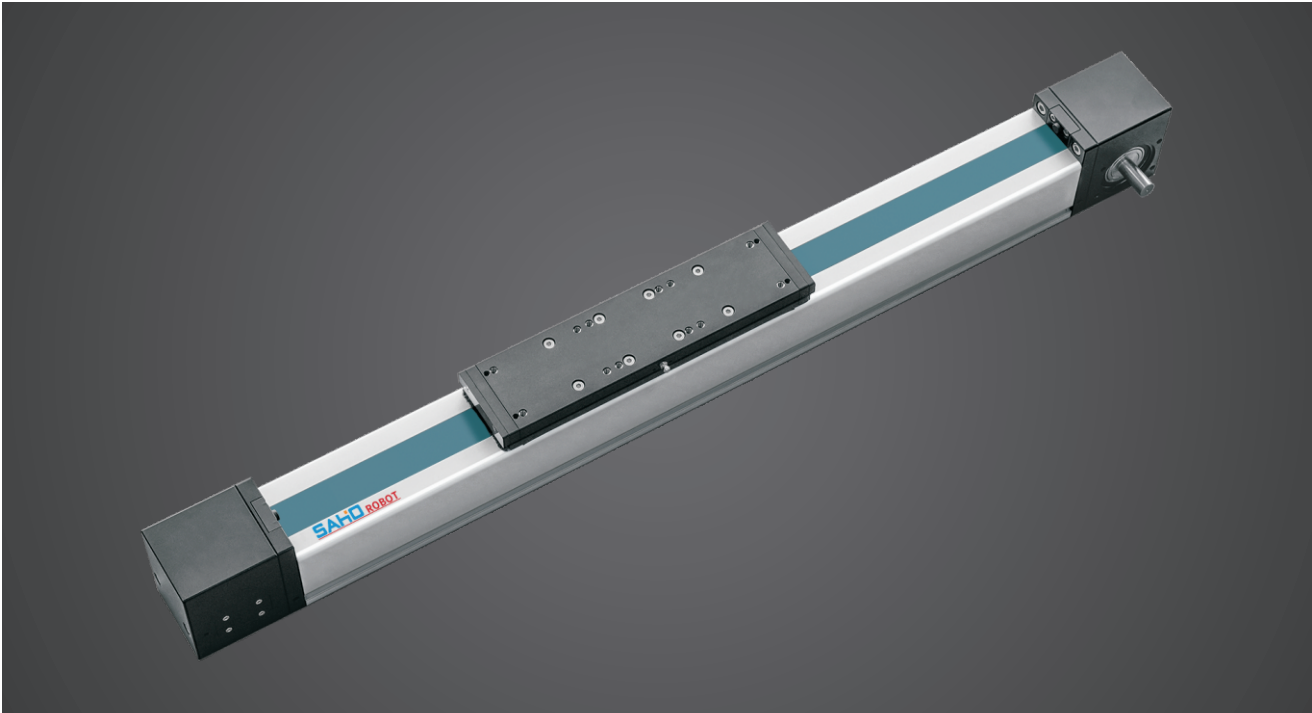




Max. Stroke5680mm

Max. Speed5000mm/s

Motor Capacity750W

Pitch170mm

LinearGuideRail20*17.5-1 PC

Ultra-long strokes require segment splicing.

Model Number Designation System

JTG80 - S500 - LK - RK - 750W - BJ

Model

Stroke

Left-Side Drive Shaft

Right-Side Drive Shaft

Servo Motor

Slide Block Length

Custom stroke	1-6000mm
Pitch	50mm

LK	No drive Shaft
LV	Drive shaft on the left side
LH	Drive shaft on the right side
LB	Dual-output drive shaft

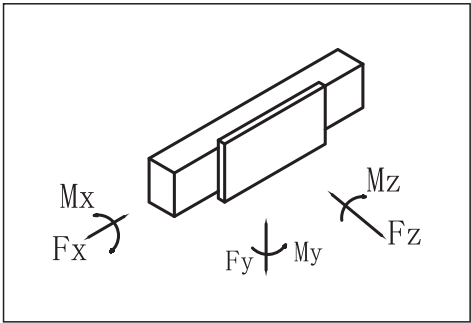
RK	No drive Shaft
RV	Drive shaft on the left side
RH	Drive shaft on the right side
RB	Dual-output drive shaft

1	400W
2	750W
3	1000W
H	Stepper motor

BJ	Standard slide block
DJ	Customized slide block

Product Catalog

Basic Specifications	
	Type
	JTG 80 SP
Max. Effective Stroke [mm]*1	5680
Repeated Positioning Precision [mm]*2	±0.05
Max. Speed [m/s]	5.0
Max. Acceleration [m/s²]	50
Conveyor Belt Type	25AT10
Pulley Type	Z17
Roller Diameter [mm]	54.11
Slide Block Displacement per Revolution [mm]	170
Slide Block Weight [kg]	2.4
Zero-Displacement Rail Weight [kg]	10
Rail Weight Increase per 100mm Displacement [kg]	0.97
Starting Torque [Nm]	2.2
Pulley Moment of Inertia [g·mm²]	400064
Guide Rail Size [mm]	20



*1) Through special splicing, the maximum stroke can reach 16m. 2) The repeated positioning precision depends on the transmission type used.

JTG80 - Load Capacity

Type	Fx [N]		Fy [N]		Fz [N]	Mx [Nm]	My [Nm]	Mz [Nm]
	Static	Dynamic	Static	Dynamic	Static	Static	Static	Static
JTG80	2258	1306	76800	35399	76800	722	5606	5606

For verification under static load and service life data, refer to pages SL-32 and SL-33.

Moment of Inertia of Aluminum Profiles

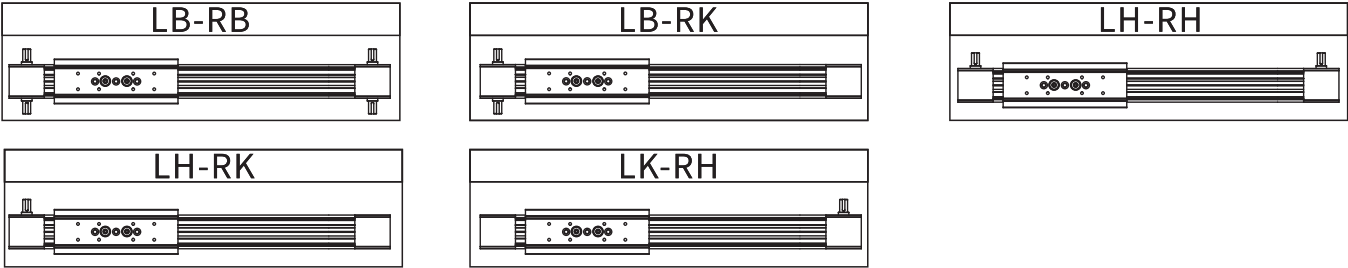
Type	I _x [10 ⁷ mm ⁴]	I _y [10 ⁷ mm ⁴]	I _p [10 ⁷ mm ⁴]
JTG80	0.136	0.95	0.331

Drive Belt
The drive timing belt is constructed from low-friction polyurethane with steel cord reinforcement for tensile reinforcement.

Type	Belt Type	Belt Width [mm]	Weight [kg/m]
JTG80	25A10	25	0.15

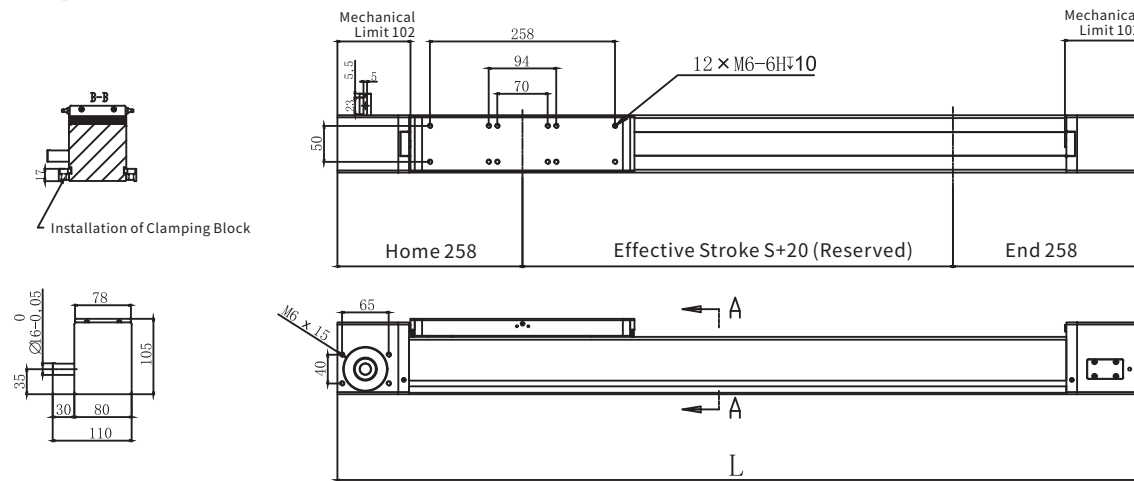
Belt Length (mm) = 2xL-230

List of Shaft Directions



Right-Side Drive Shaft

• Download CAD drawings at www.dgshihai.com •



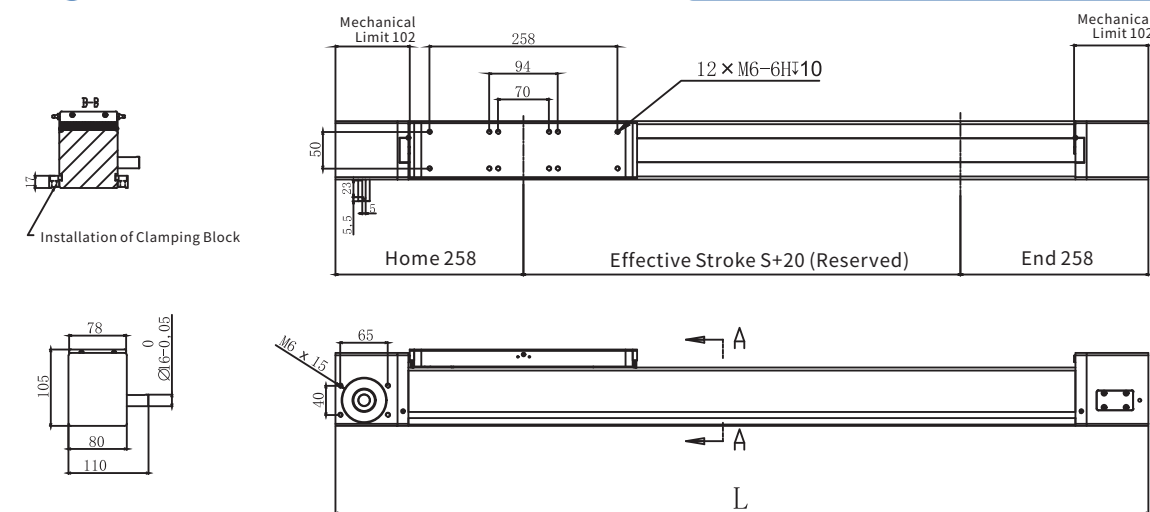
Feed Constant 170

Unit: MM

Effective Stroke	100	200	300	400	500	600	700	800	900	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500
L	636	736	836	936	1036	1136	1236	1336	1436	1536	2036	2536	3036	3536	4036	4536	5036	5536	6036
Weight(KG)	10.6	11.6	12.6	13.6	14.6	15.6	16.6	17.6	18.6	19.6	24.6	29.6	34.6	39.6	44.6	49.6	54.6	59.6	64.6

Left-Side Drive Shaft

• Download CAD drawings at www.dgshihai.com •



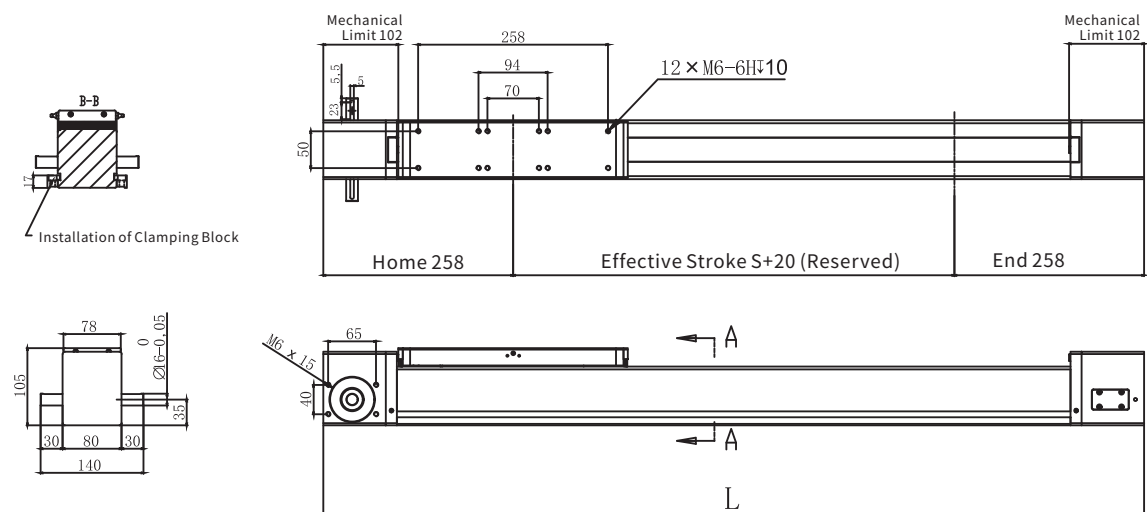
Feed Constant 170

Unit: MM

Effective Stroke	100	200	300	400	500	600	700	800	900	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500
L	636	736	836	936	1036	1136	1236	1336	1436	1536	2036	2536	3036	3536	4036	4536	5036	5536	6036
Weight (KG)	10.6	11.6	12.6	13.6	14.6	15.6	16.6	17.6	18.6	19.6	24.6	29.6	34.6	39.6	44.6	49.6	54.6	59.6	64.6

Double-Sided Drive Shaft

• Download CAD drawings at www.dgshihai.com •



Feed Constant 170

Unit: MM

Effective Stroke	100	200	300	400	500	600	700	800	900	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500
L	636	736	836	936	1036	1136	1236	1336	1436	1536	2036	2536	3036	3536	4036	4536	5036	5536	6036
Weight (KG)	10.6	11.6	12.6	13.6	14.6	15.6	16.6	17.6	18.6	19.6	24.6	29.6	34.6	39.6	44.6	49.6	54.6	59.6	64.6

Mounting Base 2D Drawing

