

# Mini Stages

## Mini Stages : JSAH/JDAH Series

### □ Features

- Suitable for production equipment of semiconductors and optical components
- Minimal jitter(in-position stability) below 50nm, quick response time
- Zero backlash by use of a full-closed loop control of linear encoders
- Efficient spacing by use of compact design



〈Pic〉 JSAH & JDAH series

### □ Standard Specifications

Insulation Resistance	10M $\Omega$ (DC500V)
Insulation Dielectric Voltage	AC 1500V, 15mA, 1min
Ambient Humidity	20 to 80%RH (non-condensing)
Ambient Temperature	0 to 40°C

Model			JTKL1506B
Performance Parameters	Symbol	Units	
Continuous Force	Fc	N	18
Peak Force	Fp	N	54
Continuous Current	IcTmax	A <sub>rms</sub>	2,0
Peak Current	I <sub>p</sub>	A <sub>rms</sub>	6,0
Force Constant	Kf	N/A <sub>rms</sub>	9,0
Electrical Time Constant	te	ms	0,2
Back EMF Constant (phase to phase)	Ke	V <sub>rms</sub> /m/s	5,2
Resistance (phase to phase at 25°C)	Rs	$\Omega$	3,7
Inductance (phase to phase)	Ls	mH	0,8
Motor Constant	KM	N/ $\sqrt{W}$	3,4
Coil Mass	Mc	kg	0,1
Maximum Speed	Vmax	m/s	4,0

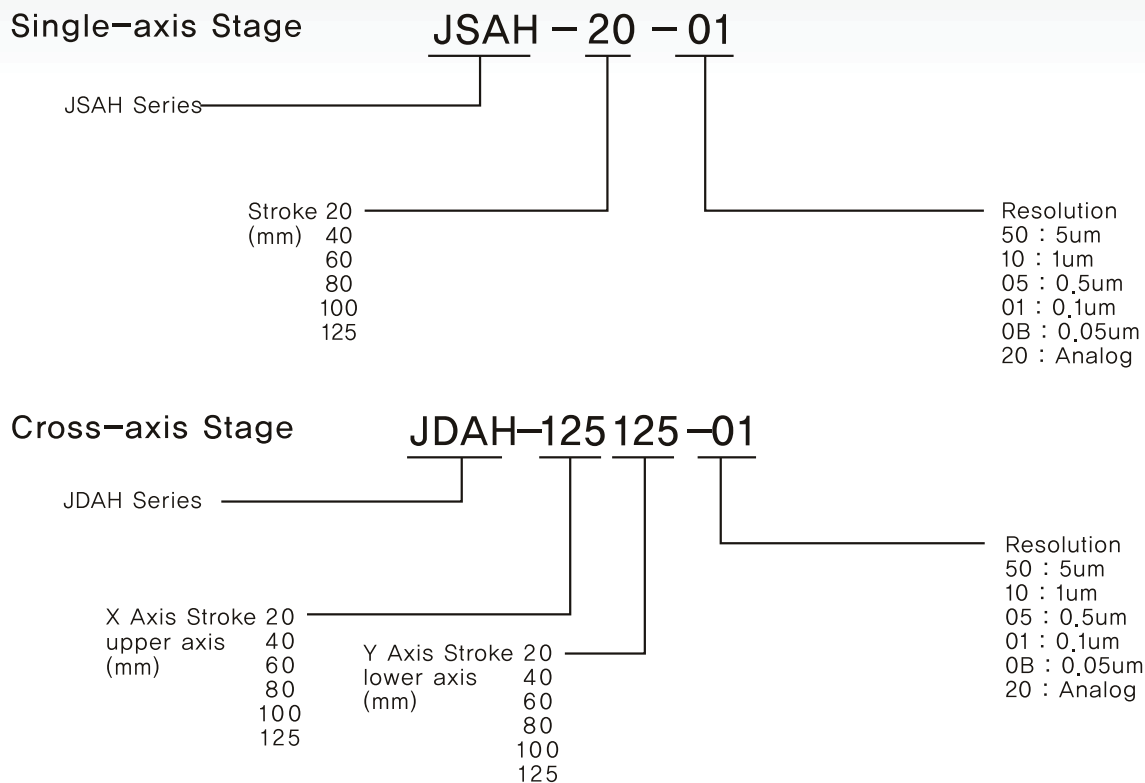
### □ Force-Speed Characteristics

JTKL1506B



Ⓐ Continuous region Ⓑ Repetitive region

## Model Name



## Standard Specifications

Model		JSAH20	JSAH40	JSAH60	JSAH80	JSAH100	JSAH120
Performance Parameters	Units						
Normal Load Capacity	kg	5	5	5	5	5	5
Average Acceleration	m/s <sup>2</sup>	2,5	2,5	2,5	2,5	2,5	2,5
Maximum Velocity *1	m/s	0,2	0,3	0,35	0,4	0,5	0,55
Straightness	um	3	3	3	3	4	4
Flatness	um	6	6	8	8	10	10
Positional Accuracy *1	um	3	3	4	4	5	5
Bi-directional Repeatability *1	um	±1	±1	±1	±1	±1	±1
Total Weight	kg	1,8	2,0	2,2	2,4	2,6	2,8
Mover Weight	kg	0,7	0,8	1,0	1,1	1,3	1,4

\* The above specifications are based on no-load operations

\* Note 1, Resolution of the linear encoder : 1um

