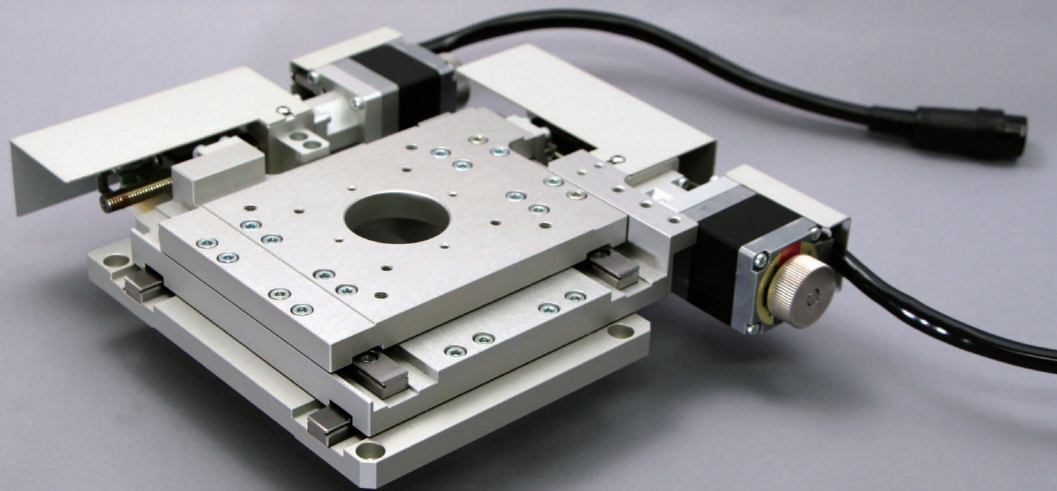


# Ultra thin XY stage

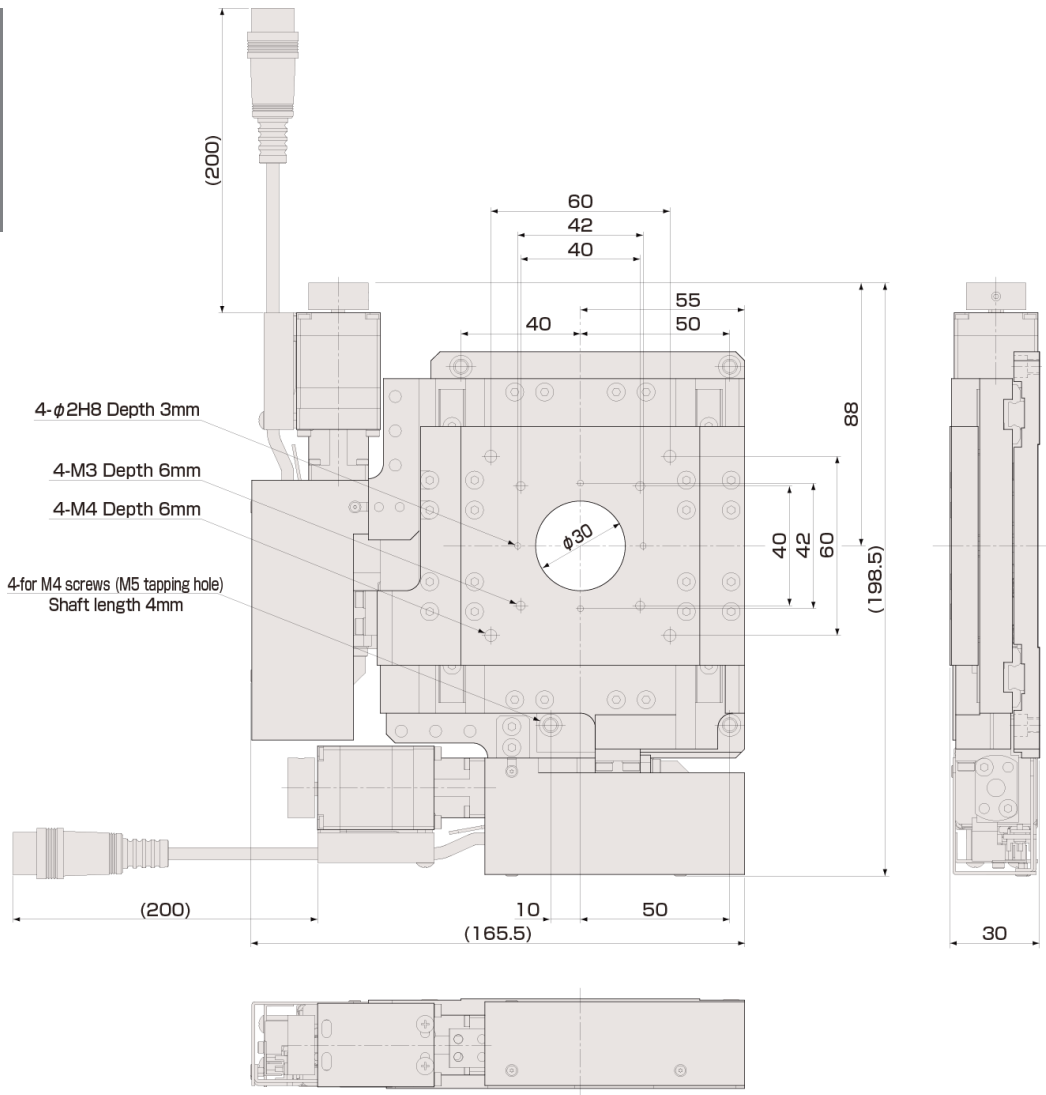
## CYAT-070

- **Integrated structure of two axes allows significant thinning.**  
Comparison with conventional products thickness **56mm** → **30mm**
- **Long stroke with LM guide can be available for various devices.**  
Comparison with conventional products motion range **20mm** → **30mm**
- **Through-hole(φ 30mm) in full stroke can be used as a small XY stage for microscope.**
- **Available as additional XY stage on existing device.**

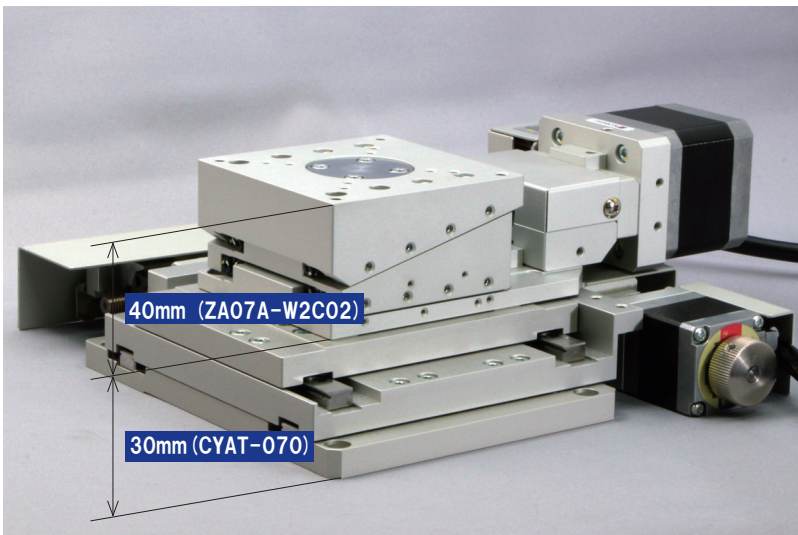


Model Number	CYAT-070
Table Size	80 mm x 80 mm
Guide Mechanism	Linear Guide
Motion Range	±15 mm
Lead Mechanism	Ground Screw
Resolution	0.0005 mm/step(Half)
Maximum Speed	5 mm/sec(10kpps/Half)
Accumulated Lead Error	≦ 15 μm/30 mm
Lost Motion	≦ 2 μm
Straightness	≦ 3 μm/30 mm
Repeatability	≦ ±0.5 μm
Backlash	≦ 1μm
Moment Load Stiffness	0.3 arcsec/N·cm
Load Capacity	98 N(10kgf)
Material	Aluminum Alloy
Finishing	Clear-Matt Anodizing
Weight	1.7kg
Motor	PK523HPMB-C4 (0.75A/phase) Oriental Motor
Connector	RP13A-12JG-20PC (Hirose)

# CYAT-070



## Proposal for ultra thin XY and Z stage



## Motorized Z Stage ZA07A-W2C02

<b>Table Size</b>	70mm x 70mm
<b>Guide Mechanism</b>	Cross-Roller Guide
<b>Motion Range</b>	$\pm 2.5$ mm
<b>Lead Mechanism</b>	1/4-Wedge, Ball Screw, Lead 1.0mm
<b>Resolution</b>	0.125 $\mu$ m/step (Half setp)
<b>Maximum Speed</b>	1.25 mm/sec (10kpps/Half)
<b>Repeatability</b>	$\leq \pm 0.5$ $\mu$ m
<b>Lost Motion</b>	$\leq 0.3$ $\mu$ m
<b>Verticalness</b>	$\leq 5$ $\mu$ m/5mm
<b>Load Capacity</b>	49 N
<b>Material</b>	Aluminum Alloy
<b>Finishing</b>	Clear-Matt Anodizing
<b>Weight</b>	1.15 kg
<b>Motor</b>	PK544PMB (0.75A/phase)Oriental Motor
<b>Connector</b>	RP13A-12RA-20PC (Hirose)

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