

The Nano Alignment Stage Series is designed to construct an optical experimental system more quickly and easily. The MTPAM-TSD-602SR is an electrical driven XY axis stage which is ideal for positioning a load of 35kgf with resolution below 30nm. The optical experimental systems mentioned are mainly based on Michelson interferometer.



Stage Size	60 × 60mm
Micrometer Readable Resolution	0.01mm
Piezo resolution	<20nm
Micrometer Position	Side
Moment Stiffness / Pitch	0.13" /N · cm
Moment Stiffness / Yaw	0.16" /N · cm
Moment Stiffness / Roll	0.13" /N · cm
Guide Method	Extended Contact Ball Bearing Guide
Travel Accuracy / Pitch	25"
Travel Accuracy / Yaw	15"
Travel Accuracy / Straightness	0.5 μm
Running Parallelism	12 μm
Travel	± 6.5mm
Lead of Actuator	0.5mm
Max. Moment Capacity / Pitch	13.2N · m
Max. Moment Capacity / Yaw	10N · m
Max. Moment Capacity / Roll	13.2N · m
Weight	0.91Kg
Primary material	Steel
Load Capacity	343N (35.0kgf)
Finish	Super black chrome/Blue Anodized
Parallelism	30 μm
Orthogonality	10 μm

# MTPAM-TSD-602SR (XY axis stage)

The Nano Alignment Stage Series is driven by Piezo Assist Motor<sup>®</sup>. With Piezo Assist Motor<sup>®</sup>, the nanometer order alignment can be easily realized. The stage can be electrically controlled or manually adjust. The backlash is much smaller than the widely used manual stage.

