

The Nano Alignment Stage Series is designed to construct an optical experimental system more quickly and easily. The MTPAM-TSD-402SR is an electrical driven XY axis stage which is ideal for positioning a load of 20kgf with resolution below 30nm. The optical experimental systems mentioned are mainly based on Michelson interferometer.



Stage Size	40 × 40mm
Piezo resolution	<20nm
Moment Stiffness / Pitch	0.5" /N · cm
Moment Stiffness / Yaw	0.46" /N · cm
Moment Stiffness / Roll	0.5" /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	0.25mm
Max. Moment Capacity / Pitch	7.8N · m
Max. Moment Capacity / Yaw	5.0N · m
Max. Moment Capacity / Roll	7.8N · m
Weight	0.41Kg
Primary material	Steel
Finish	Super black chrome/Blue Anodized
Parallelism	30 μm
Orthogonality	10 μm

# MTPAM-TSD-402SR (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 smaller than the widely used manual stage.

