

The Nano Alignment Stage Series is designed to construct an optical experimental system more quickly and easily. The MTPAM-TSD-603 is an electrical driven Z axis stage which is ideal for positioning a load of 15kgf with resolution below 30nm. The optical experimental systems mentioned are mainly based on Michelson interferometer.



Stage Size	60 × 60mm
Piezo resolution	<20nm
Moment Stiffness / Pitch	0.41" /N·cm
Moment Stiffness / Yaw	—
Moment Stiffness / Roll	0.41" /N·cm
Guide Method	Extended Contact Ball Bearing Guide
Travel Accuracy / Pitch	—
Travel Accuracy / Yaw	—
Travel Accuracy / Straightness	2.5 μm
Running Parallelism	20 μm
Travel	± 5mm
Lead of Actuator	0.25mm
Max. Moment Capacity / Pitch	6.9N·m
Max. Moment Capacity / Yaw	—
Max. Moment Capacity / Roll	6.9N·m
Weight	0.81Kg
Primary material	Steel
Finish	Black matte/Blue Anodized
Parallelism	80 μm

MTPAM-TSD-603 (Z axis stage)

The Nano Alignment Stage Series is driven by Piezo Assist Motor[®]. With Piezo Assist Motor[®], 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.

